

Men's 110m Hurdles Touchdown Times - by time

LAST UPDATE: 22-May-25

Zhoya, Sasha (FRA) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 World Athletics U20 Championships (Nairobi, KEN) (99.1cm) (Altitude) (TV Analysis)Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record																		
date	21-Aug-21	time	2.32	3.36	4.32	5.28	6.24	7.20	8.20	9.20	10.16	11.16	12.72	4 / 1				
reaction time	0.138	interval	7 steps	1.04	0.96	0.96	0.96	0.96	1.00	1.00	0.96	1.00	1.56	WU20R		2.96	2.92	2.96
wind	1.0 m/s	velocity	5.91	8.79	9.52	9.52	9.52	9.52	9.14	9.14	9.52	9.14	8.99	8.65		9.26	9.39	9.26
Merritt, Aries (USA) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)May (2012) - http://www.fgs.uni-halle.de																		
date	07-Sep-12	time	2.52	3.56	4.56	5.53	6.50	7.48	8.46	9.44	10.44	11.46	12.80	6 / 1				
reaction time	0.145	interval	7 steps	1.04	1.00	0.97	0.97	0.98	0.98	0.98	1.00	1.02	1.34	WR		3.01	2.93	3.00
wind	0.3 m/s	velocity	5.44	8.79	9.14	9.42	9.42	9.33	9.33	9.33	9.14	8.96	10.46	8.59		9.11	9.36	9.14
Holloway, Grant (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2021 USA Olympic Trials (Eugene, OR)Vazel (2021) - https://twitter.com/pjvazel/status/1409323602432999426?s=21																		
date	26-Jun-21	time	2.49	3.49	4.45	5.40	6.36	7.36	8.35	9.36	10.38	11.42	12.81	5 / 1				
reaction time	0.169	interval	7 steps	1.00	0.96	0.95	0.96	1.00	0.99	1.01	1.02	1.04	1.39	PB		2.91	2.95	3.07
wind	1.8 m/s	velocity	5.51	9.14	9.52	9.62	9.52	9.14	9.23	9.05	8.96	8.79	10.09	8.59		9.42	9.29	8.93
Allen, Devon (USA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)Henson (2022) - Athlete First: 2022 year end hurdle report																		
date	12-Jun-22	time	2.42	3.44	4.43	5.42	6.38	7.38	8.36	9.38	10.38	11.42	12.84	5 / 1				
reaction time	0.128	interval	7 steps	1.02	0.99	0.99	0.96	1.00	0.98	1.02	1.00	1.04	1.42	PB		3.00	2.94	3.06
wind	1.6 m/s	velocity	5.67	8.96	9.23	9.23	9.52	9.14	9.33	8.96	9.14	8.79	9.87	8.57		9.14	9.33	8.96
Holloway, Grant (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)Henson (2024) - Athlete First: 2024 year end hurdle report																		
date	28-Jun-24	time	2.44	3.42	4.40	5.37	6.34	7.32	8.31	9.32	10.36	11.42	12.86	6 / 1				
reaction time		interval	7 steps	0.98	0.98	0.97	0.97	0.98	0.99	1.01	1.04	1.06	1.44			2.93	2.94	3.11
wind	2.0 m/s	velocity	5.62	9.33	9.33	9.42	9.42	9.33	9.23	9.05	8.79	8.62	9.74	8.55		9.36	9.33	8.82
Kingdom, Roger (USA) (1962)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1989 IAAF World Cup (Barcelona, ESP)Gill (1990) - atletismo (I) carreras y marcha																		
date	10-Sep-89	time	2.55	3.60	4.61	5.61	6.58	7.56	8.54	9.54	10.54	11.57	12.87	9 / 1				
reaction time		interval		1.05	1.01	1.00	0.97	0.98	0.98	1.00	1.00	1.03	1.30			3.06	2.93	3.03
wind	2.6 m/s	velocity	5.38	8.70	9.05	9.14	9.42	9.33	9.33	9.14	9.14	8.87	10.78	8.55		8.96	9.36	9.05
Robles, Dayron (CUB) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2008 Golden Spike (Ostrava, CZE) (TV Analysis)Graubner (2009) - http://www.fgs.uni-halle.de																		
date	12-Jun-08	time	2.47	3.48	4.46	5.46	6.44	7.43	8.42	9.44	10.46	11.49	12.87	6 / 1				
reaction time		interval	7 steps	1.01	0.98	1.00	0.98	0.99	0.99	1.02	1.02	1.03	1.38	WR		2.99	2.96	3.07
wind	0.9 m/s	velocity	5.55	9.05	9.33	9.14	9.33	9.23	9.23	8.96	8.96	8.87	10.16	8.55		9.17	9.26	8.93
Liu Xiang (CHN) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Prefontaine Classic (Eugene, OR) (TV Analysis)Henson (2020) - Athlete First: 2012 Aries Merritt world record season																		
date	02-Jun-12	time	2.50	3.52	4.52	5.50	6.48	7.50	8.48	9.48	10.48	11.50	12.87	5 / 1				
reaction time	0.131	interval	7 steps	1.02	1.00	0.98	0.98	1.02	0.98	1.00	1.00	1.02	1.37			3.00	2.98	3.02
wind	2.4 m/s	velocity	5.49	8.96	9.14	9.33	9.33	8.96	9.33	9.14	9.14	8.96	10.23	8.55		9.14	9.20	9.08
Tinch, Cordell (USA) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 NCAA Division II National Championships (Pueblo, CO) (Altitude) (TV Analysis)Henson (2023) - Athlete First: 2023 year end hurdle report																		
date	27-May-23	time	2.50	3.50	4.50	5.48	6.46	7.44	8.41	9.43	10.43	11.46	12.87	5 / 1				
reaction time		interval	7 steps	1.00	1.00	0.98	0.98	0.98	0.97	1.02	1.00	1.03	1.41			2.98	2.93	3.05
wind	6.0 m/s	velocity	5.49	9.14	9.14	9.33	9.33	9.42	8.96	9.14	8.87	9.94	8.55			9.20	9.36	8.99
Tinch, Cordell (USA) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2025 Yangtze River Delta Athletics Diamond Gala (Keqiao, CHN)Omega Timing (2025) - diamond league race analysis																		
date	03-May-25	time	2.39	3.45	4.43	5.40	6.37	7.33	8.31	9.30	10.31	11.35	12.87	5 / 1				
reaction time	0.162	interval	7 steps	1.06	0.98	0.97	0.97	0.96	0.98	0.99	1.01	1.04	1.52	PB		3.01	2.91	3.04
wind	0.6 m/s	velocity	5.74	8.62	9.33	9.42	9.42	9.52	9.33	9.23	9.05	8.79	9.22	8.55		9.11	9.42	9.02
Liu Xiang (CHN) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Race 2 - 2006 Athletissima (Lausanne, SUI)Xiao (2014) - development process of the characterisitcs about 110m hurdle training in China																		
date	11-Jun-06	time	2.52	3.54	4.55	5.56	6.54	7.51	8.49	9.47	10.50	11.53	12.88	2 / 1				
reaction time		interval		1.02	1.01	1.01	0.98	0.97	0.98	0.98	1.03	1.03	1.35	WR		3.04	2.93	3.04
wind	1.1 m/s	velocity	5.44	8.96	9.05	9.05	9.33	9.42	9.33	9.33	8.87	8.87	10.39	8.54		9.02	9.36	9.02
Oliver, David (USA) (1982)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2010 Areva Meeting (Saint-Denis, FRA)Wang (2013) - research upon time characters of Liu Xiang's 110m hurdles																		
date	16-Jul-10	time	2.53	3.53	4.56	5.56	6.53	7.50	8.50	9.50	10.50	11.50	12.89	/ 1				
reaction time	0.161	interval	7 steps	1.00	1.03	1.00	0.97	0.97	1.00	1.00	1.00	1.00	1.39	AR PB		3.03	2.94	3.00
wind	0.5 m/s	velocity	5.42	9.14	8.87	9.14	9.42	9.42	9.14	9.14	9.14	9.14	10.09	8.53		9.05	9.33	9.14

WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified DV=Drug Violation

Arnold, Dominique (USA) (1973)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Race 2 - 2006 Athletissima Meeting (Lausanne, SUI)			Li (2013) - technical characteristics of Merritt, the 110m hurdle champion at London Olympics																
date	11-Jul-06	time	2.59	3.61	4.59	5.55	6.51	7.47	8.45	9.45	10.47	11.48		12.90		4 / 2			
reaction time		interval		1.02	0.98	0.96	0.96	0.96	0.98	1.00	1.02	1.01	1.42	AR			2.96	2.90	3.03
wind	1.1 m/s	velocity	5.30	8.96	9.33	9.52	9.52	9.52	9.33	9.14	8.96	9.05	9.87	8.53			9.26	9.46	9.05
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Jamaican National Championships (Kingston, JAM) (TV Analysis)			Henson (2020) - Athlete First: 2017 year end hurdle report																
date	24-Jun-17	time	2.43	3.46	4.46	5.46	6.43	7.43	8.43	9.43	10.43	11.45		12.90		4 / 1			
reaction time		interval		1.03	1.00	1.00	0.97	1.00	1.00	1.00	1.00	1.02	1.45	NR PB			3.03	2.97	3.02
wind	0.7 m/s	velocity	5.65	8.87	9.14	9.14	9.42	9.14	9.14	9.14	9.14	8.96	9.67	8.53			9.05	9.23	9.08
Jackson, Colin (GBR) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1993 IAAF World Championships (Stuttgart, GER)			Graubner (2009) - http://www.fgs.uni-halle.de																
date	20-Aug-93	time	2.53	3.54	4.53	5.51	6.49	7.47	8.47	9.48	10.51	11.55		12.91		3 / 1			
reaction time	0.122	interval		1.01	0.99	0.98	0.98	0.98	1.00	1.01	1.03	1.04	1.36	WR			2.98	2.96	3.08
wind	0.5 m/s	velocity	5.42	9.05	9.23	9.33	9.33	9.33	9.14	9.05	8.87	8.79	10.31	8.52			9.20	9.26	8.90
Liu Xiang (CHN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2004 Olympic Games (Athens, GRE)			Ruiz (2004) - las carreras con vallas de juegos olimpicos de atenas '04																
date	27-Aug-04	time	2.41	3.43	4.43	5.42	6.41	7.39	8.39	9.39	10.41	11.44		12.91		4 / 1			
reaction time	0.139	interval		1.02	1.00	0.99	0.99	0.98	1.00	1.00	1.02	1.03	1.47	=WR / OR			3.01	2.97	3.05
wind	0.3 m/s	velocity	5.69	8.96	9.14	9.23	9.23	9.33	9.14	9.14	8.96	8.87	9.54	8.52			9.11	9.23	8.99
Johnson, Allen (USA) (1971)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1996 USA Olympic Trials (Atlanta, GA)			McNichols (2000) - Hurdle technique study through video analysis																
date	23-Jun-96	time	2.36	3.40	4.40	5.36	6.36	7.33	8.32	9.32	10.36	11.42		12.92		6 / 1			
reaction time		interval		1.04	1.00	0.96	1.00	0.97	0.99	1.00	1.04	1.06	1.50	AR PB			3.00	2.96	3.10
wind	0.9 m/s	velocity	5.81	8.79	9.14	9.52	9.14	9.42	9.23	9.14	8.79	8.62	9.35	8.51			9.14	9.26	8.85
Johnson, Allen (USA) (1971)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1996 Memorial Van Damme (Brussels, BEL)			Shi (2013) - comprehensive research on the "three characteristics" of the men's 110m hurdles																
date	23-Aug-96	time	2.56	3.56	4.54	5.54	6.52	7.53	8.51	9.56	10.58	11.61		12.92		/ 1			
reaction time		interval		1.00	0.98	1.00	0.98	1.01	0.98	1.05	1.02	1.03	1.31	=AR =PB			2.98	2.97	3.10
wind	0.2 m/s	velocity	5.36	9.14	9.33	9.14	9.33	9.05	9.33	8.70	8.96	8.87	10.70	8.51			9.20	9.23	8.85
Robles, Dayron (CUB) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)			Graubner (2007) - http://www.fgs.uni-halle.de																
date	23-Sep-07	time	2.51	3.55	4.54	5.53	6.53	7.51	8.51	9.51	10.53	11.57		12.92		4 / 1			
reaction time	0.158	interval	7 steps	1.04	0.99	0.99	1.00	0.98	1.00	1.00	1.02	1.04	1.35	CR / AR			3.02	2.98	3.06
wind	0.0 m/s	velocity	5.47	8.79	9.23	9.23	9.14	9.33	9.14	9.14	8.96	8.79	10.39	8.51			9.08	9.20	8.96
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)			Graubner (2012) - http://www.fgs.uni-halle.de																
date	08-Aug-12	time	2.54	3.55	4.55	5.54	6.53	7.52	8.53	9.53	10.55	11.57		12.92		6 / 1			
reaction time	0.143	interval	7 steps	1.01	1.00	0.99	0.99	0.99	1.01	1.00	1.02	1.02	1.35	PB			3.00	2.99	3.04
wind	-0.3 m/s	velocity	5.40	9.05	9.14	9.23	9.23	9.23	9.05	9.14	8.96	8.96	10.39	8.51			9.14	9.17	9.02
Shubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)			Henson (2020) - Athlete First: 2018 year end hurdle report																
date	02-Jul-18	time	2.52	3.54	4.54	5.52	6.50	7.48	8.46	9.46	10.48	11.52		12.92		6 / 1			
reaction time	0.169	interval	7 steps	1.02	1.00	0.98	0.98	0.98	0.98	1.00	1.02	1.04	1.40	NR PB			3.00	2.94	3.06
wind	0.6 m/s	velocity	5.44	8.96	9.14	9.33	9.33	9.33	9.33	9.14	8.96	8.79	10.01	8.51			9.14	9.33	8.96
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)			Henson (2024) - Athlete First: 2024 year end hurdle report																
date	24-Jun-24	time	2.43	3.48	4.43	5.41	6.38	7.35	8.35	9.38	10.40	11.46		12.92		4 / 1			
reaction time		interval	7 steps	1.05	0.95	0.98	0.97	0.97	1.00	1.03	1.02	1.06	1.46				2.98	2.94	3.11
wind	0.8 m/s	velocity	5.65	8.70	9.62	9.33	9.42	9.42	9.14	8.87	8.96	8.62	9.60	8.51			9.20	9.33	8.82
Johnson, Allen (USA) (1971)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1997 IAAF World Championships (Athens, GRE)			Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997																
date	07-Aug-97	time	2.56	3.56	4.54	5.54	6.52	7.54	8.52	9.57	10.59	11.62		12.93		4 / 1			
reaction time	0.128	interval		1.00	0.98	1.00	0.98	1.02	0.98	1.05	1.02	1.03	1.31				2.98	2.98	3.10
wind	0.0 m/s	velocity	5.36	9.14	9.33	9.14	9.33	8.96	9.33	8.70	8.96	8.87	10.70	8.51			9.20	9.20	8.85
Liu Xiang (CHN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2006 IAAF World Athletic Final (Stuttgart, GER) (TV Analysis)			Graubner (2009) - http://www.fgs.uni-halle.de																
date	09-Sep-06	time	2.57	3.59	4.58	5.57	6.55	7.53	8.54	9.55	10.56	11.57		12.93		5 / 1			
reaction time	0.108	interval		1.02	0.99	0.99	0.98	0.98	1.01	1.01	1.01	1.01	1.36	CR			3.00	2.97	3.03
wind	-0.8 m/s	velocity	5.34	8.96	9.23	9.23	9.33	9.33	9.05	9.05	9.05	9.05	10.31	8.51			9.14	9.23	9.05

Robles, Dayron (CUB) (1986)																
FINAL - 2008 Olympic Games (Beijing, CHN)																
date	8.21.08	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
reaction time	0.183	interval	7 steps	1.03	0.97	0.99	0.99	1.00	1.00	1.02	1.03	1.03	1.37	12.93	6 / 1	2.99 2.99 3.08
wind	0.1 m/s	velocity	5.49	8.87	9.42	9.23	9.23	9.14	9.14	8.96	8.87	8.87	10.23	8.51		9.17 9.17 8.90
Merritt, Aries (USA) (1985)																
FINAL - 2012 USA Olympic Trials (Eugene, OR)																
date	30-Jun-12	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
reaction time	0.138	interval	7 steps	1.03	1.00	0.99	0.98	0.99	0.98	1.00	1.02	1.01	1.56	12.93	5 / 1	3.02 2.95 3.03
wind	1.2 m/s	velocity	5.79	8.87	9.14	9.23	9.33	9.23	9.33	9.14	8.96	9.05	8.99	8.51		9.08 9.29 9.05
Merritt, Aries (USA) (1985)																
FINAL - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)																
date	13-Jul-12	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
reaction time	0.137	interval	7 steps	1.00	1.02	0.98	0.98	0.98	1.00	1.00	1.04	1.00	1.47	12.93	4 / 1	3.00 2.96 3.04
wind	0.6 m/s	velocity	5.58	9.14	8.96	9.33	9.33	9.33	9.14	9.14	8.79	9.14	9.54	8.51		9.14 9.26 9.02
Merritt, Aries (USA) (1985)																
FINAL - 2012 Herculis Meeting International D'Athlétisme (Monaco, MON) (TV Analysis)																
date	20-Jul-12	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
reaction time	0.112	interval	7 steps	1.02	1.04	0.98	0.98	0.98	1.00	1.00	1.04	1.04	1.47	12.93	5 / 1	3.04 2.96 3.08
wind	0.0 m/s	velocity	5.76	8.96	8.79	9.33	9.33	9.33	9.14	9.14	8.79	8.79	9.54	8.51		9.02 9.26 8.90
Zhoya, Sasha (FRA) (2002)																
Semi-Final 2 - 2021 World Athletics U20 Championships (Nairobi, KEN) (99.1cm) (Altitude) (TV Analysis)																
date	20-Aug-21	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
reaction time	0.160	interval	7 steps	1.00	1.00	0.98	0.98	0.96	0.98	1.00	1.02	1.04	1.61	12.93	6 / 1	2.98 2.92 3.06
wind	-0.4 m/s	velocity	5.81	9.14	9.14	9.33	9.33	9.52	9.33	9.14	8.96	8.79	8.71	8.51		9.20 9.39 8.96
Parchment, Hansle (JAM) (1990)																
FINAL - 2023 Prefontaine Classic (Eugene, OR)																
date	17-Sep-23	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
reaction time	0.168	interval	7 steps	1.03	0.98	0.99	0.98	0.97	0.98	1.00	1.00	1.01	1.52	12.93	5 / 1	3.00 2.93 3.01
wind	0.9 m/s	velocity	5.55	8.87	9.33	9.23	9.33	9.42	9.33	9.14	9.14	9.05	9.22	8.51		9.14 9.36 9.11
Crittenden, Freddie (USA) (1994)																
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																
date	28-Jun-24	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
reaction time	0.147	interval	7 steps	1.02	0.98	1.00	1.00	0.98	1.00	0.99	1.01	1.04	1.37	12.93	7 / 2	3.00 2.98 3.04
wind	2.0 m/s	velocity	5.40	8.96	9.33	9.14	9.14	9.33	9.14	9.23	9.05	8.79	10.23	8.51		9.14 9.20 9.02
Merritt, Aries (USA) (1985)																
Semi-Final 2 - 2012 Olympic Games (London, GBR) (TV Analysis)																
date	08-Aug-12	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
reaction time	0.147	interval	7 steps	1.02	1.02	0.98	1.00	0.98	0.98	1.00	1.02	1.02	1.44	12.94	7 / 1	3.02 2.96 3.04
wind	0.1 m/s	velocity	5.53	8.96	8.96	9.33	9.14	9.33	9.33	9.14	8.96	8.96	9.74	8.50		9.08 9.26 9.02
Broadbell, Rasheed (JAM) (2000)																
FINAL - 2023 Jamaican National Championships (Kingston, JAM) (TV Analysis)																
date	09-Jul-23	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
reaction time	0.147	interval	7 steps	1.05	1.00	0.98	1.00	1.00	0.97	1.00	0.98	1.00	1.46	12.94	3 / 1	3.03 2.97 2.98
wind	0.7 m/s	velocity	5.49	8.70	9.14	9.33	9.14	9.14	9.42	9.14	9.33	9.14	9.60	8.50		9.05 9.23 9.20
Jackson, Colin (GBR) (1967)																
FINAL - 1989 IAAF World Cup (Barcelona, ESP)																
date	10-Sep-89	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
reaction time	0.147	interval	7 steps	1.04	1.01	1.01	1.00	0.99	1.01	1.01	1.01	1.04	1.28	12.95	4 / 2	3.06 3.00 3.06
wind	2.6 m/s	velocity	5.38	8.79	9.05	9.05	9.14	9.23	9.05	9.05	9.05	8.79	10.95	8.49		8.96 9.14 8.96
Johnson, Allen (USA) (1971)																
FINAL - 1996 Olympic Games (Atlanta, GA)																
date	26-Jul-96	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
reaction time	0.170	interval	7 steps	1.04	1.01	0.97	0.96	0.98	1.00	1.03	1.03	1.02	1.57	12.95	6 / 1	3.02 2.94 3.08
wind	0.8 m/s	velocity	5.86	8.79	9.05	9.42	9.52	9.33	9.14	8.87	8.87	8.96	8.93	8.49		9.08 9.33 8.90
Liu Xiang (CHN) (1983)																
FINAL - 2007 IAAF World Championships (Osaka, JPN)																
date	31-Aug-07	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
reaction time	0.161	interval	7 steps	1.04	0.97	1.00	0.99	0.98	1.00	1.00	0.98	1.04	1.38	12.95	9 / 1	3.01 2.97 3.02
wind	1.7 m/s	velocity	5.34	8.79	9.42	9.14	9.23	9.33	9.14	9.14	9.33	8.79	10.16	8.49		9.11 9.23 9.08
Oliver, David (USA) (1982)																

FINAL - 2008 USA Olympic Trials (Eugene, OR)

USATF Hurdle Development (2008)

date	06-Jul-08	time	2.57	3.59	4.60	5.59	6.57	7.56	8.55	9.54	10.53	11.57		12.95		4 / 1			
reaction time	0.191	interval		1.02	1.01	0.99	0.98	0.99	0.99	0.99	0.99	1.04	1.38				3.02	2.96	3.02
wind	3.5 m/s	velocity	5.34	8.96	9.05	9.23	9.33	9.23	9.23	9.23	9.23	8.79	10.16	8.49			9.08	9.26	9.08

Merritt, Aries (USA) (1985)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2012 AVIVA Grand Prix (Birmingham, GBR) (TV Analysis)
Henson (2020) - Athlete First: 2012 Aries Merritt world record season

date	26-Aug-12	time	2.44	3.46	4.47	5.48	6.46	7.46	8.46	9.46	10.46	11.50		12.95		3 / 1			
reaction time	0.146	interval	7 steps	1.02	1.01	1.01	0.98	1.00	1.00	1.00	1.00	1.04	1.45				3.04	2.98	3.04
wind	-0.9 m/s	velocity	5.62	8.96	9.05	9.05	9.33	9.14	9.14	9.14	9.14	8.79	9.67	8.49			9.02	9.20	9.02

Shubenkov, Sergey (ANA) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2018 Athletissima (Lausanne, SUI) (TV Analysis)
Henson (2020) - Athlete First: 2018 year end hurdle report

date	05-Jul-18	time	2.59	3.61	4.62	5.60	6.58	7.56	8.54	9.54	10.58	11.65		12.95		6 / 1			
reaction time	0.147	interval	7 steps	1.02	1.01	0.98	0.98	0.98	0.98	1.00	1.04	1.07	1.30				3.01	2.94	3.11
wind	0.6 m/s	velocity	5.30	8.96	9.05	9.33	9.33	9.33	9.33	9.14	8.79	8.54	10.78	8.49			9.11	9.33	8.82

Johnson, Allen (USA) (1971)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2006 IAAF World Cup (Athens, GRE) (TV Analysis)
Graubner (2009) - http://www.fgs.uni-halle.de

date	17-Sep-06	time	2.55	3.54	4.54	5.53	6.51	7.50	8.49	9.49	10.51	11.55		12.96		3 / 1			
reaction time	0.164	interval		0.99	1.00	0.99	0.98	0.99	0.99	1.00	1.02	1.04	1.41	CR			2.98	2.96	3.06
wind	0.4 m/s	velocity	5.38	9.23	9.14	9.23	9.33	9.23	9.23	9.14	8.96	8.79	9.94	8.49			9.20	9.26	8.96

Merritt, Aries (USA) (1985)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2012 Prefontaine Classic (Eugene, OR) (TV Analysis)
Henson (2020) - Athlete First: 2012 Aries Merritt world record season

date	02-Jun-12	time	2.52	3.54	4.56	5.58	6.56	7.56	8.56	9.54	10.54	11.58		12.96		3 / 2			
reaction time	0.151	interval	7 steps	1.02	1.02	1.02	0.98	1.00	1.00	0.98	1.00	1.04	1.38				3.06	2.98	3.02
wind	2.4 m/s	velocity	5.44	8.96	8.96	8.96	9.33	9.14	9.14	9.33	9.14	8.79	10.16	8.49			8.96	9.20	9.08

McLeod, Omar (JAM) (1994)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)
Henson (2020) - Athlete First: 2017 year end hurdle report

date	04-Jul-17	time	2.48	3.50	4.50	5.50	6.50	7.50	8.48	9.52	10.54	11.56		12.96		4 / 1			
reaction time	0.138	interval		1.02	1.00	1.00	1.00	1.00	0.98	1.04	1.02	1.02	1.40				3.02	2.98	3.08
wind	0.3 m/s	velocity	5.53	8.96	9.14	9.14	9.14	9.14	9.33	8.79	8.96	8.96	10.01	8.49			9.08	9.20	8.90

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)
Henson (2021) - Athlete First: 2021 year end hurdle report

date	26-Jun-21	time	2.40	3.37	4.34	5.30	6.27	7.24	8.26	9.27	10.33	11.42		12.96		4 / 1			
reaction time	0.146	interval	7 steps	0.97	0.97	0.96	0.97	0.97	1.02	1.01	1.06	1.09	1.54				2.90	2.96	3.16
wind	0.4 m/s	velocity	5.72	9.42	9.42	9.52	9.42	9.42	8.96	9.05	8.62	8.39	9.10	8.49			9.46	9.26	8.68

Tinch, Cordell (USA) (2000)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2023 Trackwired Arkansas Grand Prix (Fayetteville, AR) (TV Analysis)
Henson (2023) - Athlete First: 2023 year end hurdle report

date	23-May-23	time	2.46	3.50	4.50	5.50	6.48	7.46	8.43	9.47	10.47	11.49		12.96		5 / 1			
reaction time		interval	7 steps	1.04	1.00	1.00	0.98	0.98	0.97	1.04	1.00	1.02	1.47	PB			3.04	2.93	3.06
wind	1.3 m/s	velocity	5.58	8.79	9.14	9.14	9.33	9.33	9.42	8.79	9.14	8.96	9.54	8.49			9.02	9.36	8.96

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2023 World Athletics Championships (Budapest, HUN)
Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season

date	21-Aug-23	time	2.45	3.45	4.42	5.38	6.37	7.36	8.37	9.39	10.43	11.53		12.96		5 / 1			
reaction time	0.135	interval	7 steps	1.00	0.97	0.96	0.99	0.99	1.01	1.02	1.04	1.10	1.43				2.93	2.99	3.16
wind	0.0 m/s	velocity	5.60	9.14	9.42	9.52	9.23	9.23	9.05	8.96	8.79	8.31	9.80	8.49			9.36	9.17	8.68

Parchment, Hansle (JAM) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)
Omega Timing (2023) - diamond league race analysis

date	02-Sep-23	time	2.40	3.40	4.40	5.40	6.40	7.40	8.40	9.40	10.40	11.40		12.96		5 / 1			
reaction time	0.163	interval	7 steps	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.56				3.00	3.00	3.00
wind	0.0 m/s	velocity	5.72	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	8.99	8.49			9.14	9.14	9.14

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)
Henson (2024) - Athlete First: 2024 year end hurdle report

date	27-Jun-24	time	2.44	3.42	4.41	5.37	6.35	7.34	8.34	9.34	10.41	11.48		12.96		7 / 1			
reaction time		interval	7 steps	0.98	0.99	0.96	0.98	0.99	1.00	1.00	1.07	1.07	1.48				2.93	2.97	3.14
wind	0.3 m/s	velocity	5.62	9.33	9.23	9.52	9.33	9.23	9.14	9.14	8.54	8.54	9.47	8.49			9.36	9.23	8.73

Roberts, Daniel (USA) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)
Henson (2024) - Athlete First: 2024 year end hurdle report

date	28-Jun-24	time	2.46	3.48	4.48	5.47	6.48	7.50	8.51	9.53	10.55	11.58		12.96		4 / 3			
reaction time		interval	7 steps	1.02	1.00	0.99	1.01	1.02	1.01	1.02	1.02	1.03	1.38	PB			3.01	3.04	3.07
wind	2.0 m/s	velocity	5.58	8.96	9.14	9.23	9.05	8.96	9.05	8.96	8.96	8.87	10.16	8.49			9.11	9.02	8.93

Liu Xiang (CHN) (1983)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2012 Golden Grand Prix (Shanghai, CHN)
Feng (2016) - Liu Xiang's seven-step starting: discussion on the key issues of 110m hurdles technical training

date	19-May-12	time	2.38	3.38	4.45	5.42	6.42	7.45	8.42	9.46	10.43	11.47	12.97	5 / 1				
reaction time	0.160	interval		1.00	1.07	0.97	1.00	1.03	0.97	1.04	0.97	1.04	1.50		3.04	3.00	3.05	
wind	0.4 m/s	velocity	5.76	9.14	8.54	9.42	9.14	8.87	9.42	8.79	9.42	8.79	9.35	8.48	9.02	9.14	8.99	
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 ISTAF (Berlin, GER) (TV Analysis)														Henson (2021) - Athlete First: 2012 Aries Merritt world record season				
date	02-Sep-12	time	2.43	3.45	4.47	5.47	6.47	7.47	8.47	9.47	10.49	11.51	12.97	4 / 1				
reaction time	0.164	interval	7 steps	1.02	1.02	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.46		3.04	3.00	3.04	
wind	1.2 m/s	velocity	5.65	8.96	8.96	9.14	9.14	9.14	9.14	9.14	8.96	8.96	9.60	8.48	9.02	9.14	9.02	
Shubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)														Henson (2020) - Athlete First: 2018 year end hurdle report				
date	31-Aug-18	time	2.54	3.56	4.58	5.58	6.56	7.54	8.52	9.52	10.54	11.56	12.97	5 / 1				
reaction time	0.168	interval	7 steps	1.02	1.02	1.00	0.98	0.98	0.98	1.00	1.02	1.02	1.41		3.04	2.94	3.04	
wind	-0.1 m/s	velocity	5.40	8.96	8.96	9.14	9.33	9.33	9.33	9.14	8.96	8.96	9.94	8.48	9.02	9.33	9.02	
Tinch, Cordell (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 MIAA Championships (Jefferson City, MO) (TV Analysis)														Henson (2023) - Athlete First: 2023 year end hurdle report				
date	07-May-23	time	2.40	3.40	4.40	5.37	6.34	7.31	8.34	9.34	10.36	11.40	12.97	4 / 1				
reaction time		interval	7 steps	1.00	1.00	0.97	0.97	0.97	1.03	1.00	1.02	1.04	1.57		2.97	2.97	3.06	
wind	3.0 m/s	velocity	5.72	9.14	9.14	9.42	9.42	9.42	8.87	9.14	8.96	8.79	8.93	8.48	9.23	9.23	8.96	
Kingdom, Roger (USA) (1962)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1988 Olympic Games (Seoul, KOR)														Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988				
date	26-Sep-88	time	2.55	3.60	4.61	5.61	6.61	7.59	8.59	9.59	10.62	11.64	12.98	4 / 1				
reaction time	0.142	interval		1.05	1.01	1.00	1.00	0.98	1.00	1.00	1.03	1.02	1.34	OR	3.06	2.98	3.05	
wind	1.5 m/s	velocity	5.38	8.70	9.05	9.14	9.14	9.33	9.14	9.14	8.87	8.96	10.46	8.47	8.96	9.20	8.99	
Richardson, Jason (USA) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 USA Olympic Trials (Eugene, OR)														Henson (2020) - Athlete First: 2012 Aries Merritt world record season				
date	30-Jun-12	time	2.42	3.44	4.44	5.44	6.45	7.44	8.44	9.44	10.44	11.44	12.98	6 / 2				
reaction time	0.185	interval	7 steps	1.02	1.00	1.00	1.01	0.99	1.00	1.00	1.00	1.00	1.54	=PB	3.02	3.00	3.00	
wind	1.2 m/s	velocity	5.67	8.96	9.14	9.14	9.05	9.23	9.14	9.14	9.14	9.14	9.10	8.47	9.08	9.14	9.14	
Richardson, Jason (USA) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 AVIVA Grand Prix (Birmingham, GBR) (TV Analysis)														Henson (2020) - Athlete First: 2012 Aries Merritt world record season				
date	26-Aug-12	time	2.48	3.52	4.52	5.52	6.52	7.50	8.48	9.48	10.50	11.52	12.98	2 / 2				
reaction time	0.165	interval	7 steps	1.04	1.00	1.00	1.00	0.98	0.98	1.00	1.02	1.02	1.46	=PB	3.04	2.96	3.04	
wind	-0.9 m/s	velocity	5.53	8.79	9.14	9.14	9.14	9.33	9.33	9.14	8.96	8.96	9.60	8.47	9.02	9.26	9.02	
Shubenkov, Sergey (RUS) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)														Henson (2021) - Athlete First: major championships report				
date	28-Aug-15	time	2.52	3.54	4.56	5.54	6.52	7.52	8.52	9.52	10.54	11.58	12.98	7 / 1				
reaction time	0.139	interval	7 steps	1.02	1.02	0.98	0.98	1.00	1.00	1.00	1.02	1.04	1.40	NR	3.02	2.98	3.06	
wind	0.2 m/s	velocity	5.44	8.96	8.96	9.33	9.33	9.14	9.14	9.14	8.96	8.79	10.01	8.47	9.08	9.20	8.96	
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Shanghai Golden Grand Prix (Shanghai, CHN) (TV Analysis)														Henson (2021) - Athlete First: 2016 year end hurdle report				
date	14-May-16	time	2.42	3.48	4.48	5.48	6.50	7.52	8.54	9.56	10.56	11.58	12.98	5 / 1				
reaction time	0.133	interval		1.06	1.00	1.00	1.02	1.02	1.02	1.02	1.00	1.02	1.40		3.06	3.06	3.04	
wind	1.2 m/s	velocity	5.67	8.62	9.14	9.14	8.96	8.96	8.96	8.96	9.14	8.96	10.01	8.47	8.96	8.96	9.02	
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)														Henson (2020) - Athlete First: 2019 year end hurdle report				
date	07-Jun-19	time	2.47	3.47	4.47	5.44	6.41	7.40	8.40	9.43	10.47	11.54	12.98	5 / 1				
reaction time	0.180	interval	7 steps	1.00	1.00	0.97	0.97	0.99	1.00	1.03	1.04	1.07	1.44	PB	2.97	2.96	3.14	
wind	0.8 m/s	velocity	5.55	9.14	9.14	9.42	9.42	9.23	9.14	8.87	8.79	8.54	9.74	8.47	9.23	9.26	8.73	
Zhoya, Sasha (FRA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2021 European U20 Championships (Tallinn, EST) (99.1cm) (TV Analysis)														Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record				
date	16-Jul-21	time	2.48	3.48	4.48	5.46	6.42	7.40	8.38	9.38	10.40	11.44	12.98	5 / 1				
reaction time	0.219	interval	7 steps	1.00	1.00	0.98	0.96	0.98	0.98	1.00	1.02	1.04	1.54		2.98	2.92	3.06	
wind	2.4 m/s	velocity	5.53	9.14	9.14	9.33	9.52	9.33	9.33	9.14	8.96	8.79	9.10	8.47	9.20	9.39	8.96	
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Meeting de Paris (Paris, FRA)														Omega Timing (2023) - diamond league race analysis				
date	09-Jun-23	time	2.30	3.30	4.28	5.25	6.24	7.23	8.24	9.26	10.30	11.36	12.98	6 / 1				
reaction time	0.157	interval	7 steps	1.00	0.98	0.97	0.99	0.99	1.01	1.02	1.04	1.06	1.62		2.95	2.99	3.12	
wind	-0.5 m/s	velocity	5.97	9.14	9.33	9.42	9.23	9.23	9.05	8.96	8.79	8.62	8.65	8.47	9.29	9.17	8.79	
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)														Paris 2024 Olympic Games - Results Book (2024)				
date	07-Aug-24	time	2.31	3.32	4.29	5.27	6.24	7.22	8.22	9.24	10.29	11.37	12.98	6 / 1				

reaction time	0.149	interval	7 steps	1.01	0.97	0.98	0.97	0.98	1.00	1.02	1.05	1.08	1.61		2.96	2.95	3.15
wind	0.1 m/s	velocity	5.94	9.05	9.42	9.33	9.42	9.33	9.14	8.96	8.70	8.46	8.71	8.47	9.26	9.29	8.70

Johnson, Allen (USA) (1971)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2005 USATF National Championships (Carson, CA)															USATF Women's Sprint Development (2005)		
date	24-Jun-05	time	2.56	3.57	4.58	5.58	6.56	7.56	8.58	9.56	10.58	11.64	12.99	2 / 1			
reaction time		interval		1.01	1.01	1.00	0.98	1.00	1.02	0.98	1.02	1.06	1.35		3.02	3.00	3.06
wind	0.2 m/s	velocity	5.36	9.05	9.05	9.14	9.33	9.14	8.96	9.33	8.96	8.62	10.39	8.47	9.08	9.14	8.96

Trammell, Terrence (USA) (1978)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 IAAF World Championships (Osaka, JPN)												Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data					
date	31-Aug-07	time	2.53	3.53	4.52	5.53	6.53	7.52	8.53	9.55	10.57	11.60	12.99	5 / 2			
reaction time	0.205	interval	1.00	0.99	1.01	1.00	0.99	1.01	1.02	1.02	1.03	1.39			3.00	3.00	3.07
wind	1.7 m/s	velocity	5.42	9.14	9.23	9.05	9.14	9.23	9.05	8.96	8.96	8.87	10.09	8.47	9.14	9.14	8.93

Merritt, Aries (USA) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2012 Arkansas Twilight (Fayetteville, AR)												Henson (2020) - Athlete First: 2012 Aries Merritt world record season					
date	04-May-12	time	2.50	3.53	4.53	5.53	6.52	7.51	8.50	9.51	10.52	11.54	12.99	5 / 1			
reaction time		interval	7 steps	1.03	1.00	1.00	0.99	0.99	0.99	1.01	1.01	1.02	1.45		3.03	2.97	3.04
wind	2.9 m/s	velocity	5.49	8.87	9.14	9.14	9.23	9.23	9.23	9.05	9.05	8.96	9.67	8.47	9.05	9.23	9.02

Shubenkov, Sergey (ANA) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Meeting International de Montreuil (Montreuil, FRA) (TV Analysis)													Henson (2020) - Athlete First: 2018 year end hurdle report				
date	19-Jun-18	time	2.62	3.64	4.64	5.62	6.60	7.58	8.56	9.56	10.58	11.62	12.99	5 / 1			
reaction time	0.143	interval	7 steps	1.02	1.00	0.98	0.98	0.98	0.98	1.00	1.02	1.04	1.37		3.00	2.94	3.06
wind	0.5 m/s	velocity	5.24	8.96	9.14	9.33	9.33	9.33	9.33	9.14	8.96	8.79	10.23	8.47	9.14	9.33	8.96

Allen, Devon (USA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Boris Hanzeković Memorial (Zagreb, CRO) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report					
date	14-Sep-21	time	2.46	3.50	4.50	5.47	6.47	7.47	8.47	9.47	10.50	11.53	12.99	5 / 1				
reaction time	0.126	interval		1.04	1.00	0.97	1.00	1.00	1.00	1.00	1.03	1.03	1.46	PB		3.01	3.00	3.06
wind	0.7 m/s	velocity	5.58	8.79	9.14	9.42	9.14	9.14	9.14	9.14	8.87	8.87	9.60	8.47		9.11	9.14	8.96

Holloway, Grant (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	10-Aug-22	time	2.40	3.40	4.36	5.33	6.30	7.30	8.30	9.30	10.36	11.43	12.99	6 / 1			
reaction time	0.148	interval	7 steps	1.00	0.96	0.97	0.97	1.00	1.00	1.00	1.06	1.07	1.56		2.93	2.97	3.13
wind	0.6 m/s	velocity	5.72	9.14	9.52	9.42	9.42	9.14	9.14	9.14	8.62	8.54	8.99	8.47	9.36	9.23	8.76

Broadbell, Rasheed (JAM) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	26-Aug-22	time	2.47	3.50	4.50	5.50	6.50	7.52	8.51	9.52	10.54	11.58	12.99	5 / 1			
reaction time	0.142	interval	7 steps	1.03	1.00	1.00	1.00	1.02	0.99	1.01	1.02	1.04	1.41	PB	3.03	3.01	3.07
wind	0.0 m/s	velocity	5.55	8.87	9.14	9.14	9.14	8.96	9.23	9.05	8.96	8.79	9.94	8.47	9.05	9.11	8.93

Britt, Jamal (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report				
date	21-May-23	time	2.50	3.52	4.53	5.53	6.52	7.52	8.53	9.55	10.60	11.65	12.99	6 / 1			
reaction time	0.124	interval	7 steps	1.02	1.01	1.00	0.99	1.00	1.01	1.02	1.05	1.05	1.34		3.03	3.00	3.12
wind	4.0 m/s	velocity	5.49	8.96	9.05	9.14	9.23	9.14	9.05	8.96	8.70	8.70	10.46	8.47	9.05	9.14	8.79

Holloway, Grant (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Olympic Games (Paris, FRA)							Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season										
date	08-Aug-24	time	2.46	3.45	4.43	5.39	6.35	7.35	8.35	9.35	10.41	11.51	12.99	6 / 1			
reaction time	0.104	interval	7 steps	0.99	0.98	0.96	0.96	1.00	1.00	1.00	1.06	1.10	1.48		2.93	2.96	3.16
wind	-0.1 m/s	velocity	5.58	9.23	9.33	9.52	9.52	9.14	9.14	9.14	8.62	8.31	9.47	8.47	9.36	9.26	8.68

Holloway, Grant (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Weltklasse (Zürich, SUI)													Omega Timing (2024) - diamond league race analysis				
date	05-Sep-24	time	2.36	3.37	4.35	5.31	6.30	7.29	8.30	9.31	10.35	11.41	12.99	6 / 1			
reaction time	0.144	interval	7 steps	1.01	0.98	0.96	0.99	0.99	1.01	1.01	1.04	1.06	1.58		2.95	2.99	3.11
wind	-0.3 m/s	velocity	5.81	9.05	9.33	9.52	9.23	9.23	9.05	9.05	8.79	8.62	8.87	8.47	9.29	9.17	8.82

Trammell, Terrence (USA) (1978)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 USA Olympic Trials (Eugene, OR)															USATF Hurdle Development (2008)		
date	06-Jul-08	time	2.52	3.54	4.53	5.54	6.52	7.52	8.53	9.54	10.56	11.59	13.00	6 / 2			
reaction time	0.157	interval		1.02	0.99	1.01	0.98	1.00	1.01	1.01	1.02	1.03	1.41		3.02	2.99	3.06
wind	3.5 m/s	velocity	5.44	8.96	9.23	9.05	9.33	9.14	9.05	9.05	8.96	8.87	9.94	8.46	9.08	9.17	8.96

Oliver, David (USA) (1982)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)														Henson (2021) - Athlete First: major championships report			
date	12-Aug-13	time	2.44	3.48	4.48	5.46	6.46	7.44	8.44	9.46	10.48	11.52	13.00	4 / 1			
reaction time	0.147	interval	7 steps	1.04	1.00	0.98	1.00	0.98	1.00	1.02	1.02	1.04	1.48		3.02	2.98	3.08

wind	0.3 m/s	velocity	5.62	8.79	9.14	9.33	9.14	9.33	9.14	8.96	8.96	8.79	9.47	8.46		9.08	9.20	8.90
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)			Henson (2020) - Athlete First: 2019 year end hurdle report															
date	07-Jun-19	time	2.50	3.53	4.53	5.53	6.51	7.51	8.51	9.54	10.55	11.60		13.00	4 / 2			
reaction time	0.191	interval		1.03	1.00	1.00	0.98	1.00	1.00	1.03	1.01	1.05	1.40	PB		3.03	2.98	3.09
wind	0.8 m/s	velocity	5.49	8.87	9.14	9.14	9.33	9.14	9.14	8.87	9.05	8.70	10.01	8.46		9.05	9.20	8.87
Cunningham, Trey (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report															
date	10-Jun-22	time	2.44	3.45	4.44	5.42	6.40	7.44	8.44	9.46	10.51	11.56		13.00	5 / 1			
reaction time		interval		7 steps	1.01	0.99	0.98	0.98	1.04	1.00	1.02	1.05	1.44	PB		2.98	3.02	3.12
wind	0.0 m/s	velocity	5.62	9.05	9.23	9.33	9.33	8.79	9.14	8.96	8.70	8.70	9.74	8.46		9.20	9.08	8.79
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 NACAC Championships (Freeport, BAH) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report															
date	20-Aug-22	time	2.43	3.45	4.44	5.43	6.40	7.40	8.40	9.43	10.47	11.52		13.00	4 / 1			
reaction time		interval			1.02	0.99	0.99	0.97	1.00	1.00	1.03	1.04	1.05	1.48	PB	3.00	2.97	3.12
wind	0.3 m/s	velocity	5.65	8.96	9.23	9.23	9.42	9.14	9.14	8.87	8.79	8.70	9.47	8.46		9.14	9.23	8.79
Cunningham, Trey (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Short Hurdles - 2025 Grand Slam Track Miami (Miramar, FL) (TV Analysis)			Henson (2025) - Athlete First: 2025 year end hurdle report															
date	02-May-25	time	2.54	3.57	4.57	5.56	6.54	7.54	8.54	9.56	10.58	11.64		13.00	3 / 1			
reaction time	0.190	interval		7 steps	1.03	1.00	0.99	0.98	1.00	1.00	1.02	1.02	1.06	=PB		3.02	2.98	3.10
wind	1.4 m/s	velocity	5.40	8.87	9.14	9.23	9.33	9.14	9.14	8.96	8.96	8.62	10.31	8.46		9.08	9.20	8.85
Arnold, Dominique (USA) (1973)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2005 USATF National Championships (Carson, CA)			USATF Women's Sprint Development (2005)															
date	24-Jun-05	time	2.61	3.66	4.66	5.66	6.61	7.60	8.56	9.61	10.61	11.62		13.01	5 / 2			
reaction time		interval			1.05	1.00	1.00	0.95	0.99	0.96	1.05	1.00	1.01	1.39	PB	3.05	2.90	3.06
wind	0.2 m/s	velocity	5.26	8.70	9.14	9.14	9.62	9.23	9.52	8.70	9.14	9.05	10.09	8.46		8.99	9.46	8.96
Robles, Dayron (CUB) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 Golden Grand Prix (Shanghai, CHN)			Ma (2008) - analysis of Liu Xiang's time characteristic in men's 110m hurdles during golden grand prix in Shanghai															
date	28-Sep-07	time	2.27	3.24	4.26	5.33	6.31	7.30	8.24	9.17	10.28	11.35		13.01	1 / 1			
reaction time	0.186	interval		7 steps	0.97	1.02	1.07	0.98	0.99	0.94	0.93	1.11	1.07	1.66		3.06	2.91	3.11
wind	-0.4 m/s	velocity	6.04	9.42	8.96	8.54	9.33	9.23	9.72	9.83	8.23	8.54	8.45	8.46		8.96	9.42	8.82
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Jamaican National Championships (Kingston, JAM) (TV Analysis)			Henson (2020) - Athlete First: 2016 year end hurdle report															
date	02-Jul-16	time	2.43	3.50	4.51	5.51	6.49	7.47	8.49	9.51	10.51	11.53		13.01	4 / 1			
reaction time		interval			1.07	1.01	1.00	0.98	0.98	1.02	1.02	1.00	1.02	1.48		3.08	2.98	3.04
wind	0.4 m/s	velocity	5.65	8.54	9.05	9.14	9.33	9.33	8.96	8.96	9.14	8.96	9.47	8.46		8.90	9.20	9.02
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)			Henson (2020) - Athlete First: 2017 year end hurdle report															
date	27-May-17	time	2.48	3.52	4.52	5.52	6.52	7.54	8.52	9.52	10.54	11.58		13.01	4 / 1			
reaction time	0.150	interval			1.04	1.00	1.00	1.00	1.02	0.98	1.00	1.02	1.04	1.43		3.04	3.00	3.06
wind	0.9 m/s	velocity	5.53	8.79	9.14	9.14	9.14	8.96	9.33	9.14	8.96	8.79	9.80	8.46		9.02	9.14	8.96
Shubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)			Henson (2020) - Athlete First: 2017 year end hurdle report															
date	04-Jul-17	time	2.56	3.58	4.60	5.56	6.54	7.54	8.54	9.56	10.58	11.60		13.01	6 / 2			
reaction time	0.177	interval		7 steps	1.02	1.02	0.96	0.98	1.00	1.00	1.02	1.02	1.02	1.41		3.00	2.98	3.06
wind	0.3 m/s	velocity	5.36	8.96	8.96	9.52	9.33	9.14	9.14	8.96	8.96	8.96	9.94	8.46		9.14	9.20	8.96
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)			Henson (2020) - Athlete First: 2018 year end hurdle report															
date	26-May-18	time	2.54	3.54	4.56	5.56	6.56	7.54	8.52	9.54	10.54	11.58		13.01	4 / 1			
reaction time	0.176	interval			1.00	1.02	1.00	1.00	0.98	0.98	1.02	1.00	1.04	1.43		3.02	2.96	3.06
wind	3.0 m/s	velocity	5.40	9.14	8.96	9.14	9.14	9.33	9.33	8.96	9.14	8.79	9.80	8.46		9.08	9.26	8.96
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report															
date	10-Jun-21	time	2.44	3.50	4.48	5.48	6.48	7.48	8.48	9.50	10.50	11.56		13.01	4 / 1			
reaction time	0.147	interval			1.06	0.98	1.00	1.00	1.00	1.02	1.00	1.06	1.45			3.04	3.00	3.08
wind	-0.1 m/s	velocity	5.62	8.62	9.33	9.14	9.14	9.14	9.14	8.96	9.14	8.62	9.67	8.46		9.02	9.14	8.90
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report															
date	17-Jul-22	time	2.43	3.40	4.40	5.37	6.37	7.37	8.37	9.40	10.43	11.48		13.01	6 / 1			
reaction time	0.128	interval		7 steps	0.97	1.00	0.97	1.00	1.00	1.03	1.03	1.05	1.53			2.94	3.00	3.11
wind	-0.6 m/s	velocity	5.65	9.42	9.14	9.42	9.14	9.14	9.14	8.87	8.87	8.70	9.16	8.46		9.33	9.14	8.82

Holloway, Grant (USA) (1997)																
FINAL - 2023 Adidas Atlanta City Games (Atlanta, GA) (street) (TV Analysis)																
date	05-May-23	time	2.50	3.48	4.48	5.48	6.45	7.45	8.47	9.50	10.53	11.60				
reaction time	0.181	interval	7 steps	0.98	1.00	1.00	0.97	1.00	1.02	1.03	1.03	1.07	1.41		2.98	2.99
wind	0.0 m/s	velocity	5.49	9.33	9.14	9.14	9.42	9.14	8.96	8.87	8.87	8.54	9.94	8.46	9.20	9.17
Roberts, Daniel (USA) (1998)																
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)																
date	24-Jun-23	time	2.47	3.50	4.50	5.50	6.54	7.54	8.56	9.58	10.60	11.61				
reaction time	0.159	interval		1.03	1.00	1.00	1.04	1.00	1.02	1.02	1.02	1.01	1.40		3.03	3.06
wind	1.6 m/s	velocity	5.55	8.87	9.14	9.14	8.79	9.14	8.96	8.96	8.96	9.05	10.01	8.46	9.05	8.96
Holloway, Grant (USA) (1997)																
FINAL - 2023 London Athletics Meet (London, GBR)																
date	23-Jul-23	time	2.36	3.35	4.33	5.30	6.29	7.28	8.29	9.32	10.37	11.43				
reaction time	0.165	interval	7 steps	0.99	0.98	0.97	0.99	0.99	1.01	1.03	1.05	1.06	1.58		2.94	2.99
wind	1.3 m/s	velocity	5.81	9.23	9.33	9.42	9.23	9.23	9.05	8.87	8.70	8.62	8.87	8.46	9.33	9.17
Zhoya, Sasha (FRA) (2002)																
Heat 2 - 2023 French National Championships (Albi, FRA) (TV Analysis)																
date	29-Jul-23	time	2.52	3.56	4.58	5.56	6.52	7.52	8.52	9.52	10.54	11.58				
reaction time	0.173	interval	7 steps	1.04	1.02	0.98	0.96	1.00	1.00	1.00	1.02	1.04	1.43		3.04	2.96
wind	5.3 m/s	velocity	5.44	8.79	8.96	9.33	9.52	9.14	9.14	9.14	8.96	8.79	9.80	8.46	9.02	8.96
Zhoya, Sasha (FRA) (2002)																
FINAL - 2023 French National Championships (Albi, FRA) (TV Analysis)																
date	29-Jul-23	time	2.50	3.54	4.54	5.52	6.50	7.50	8.52	9.52	10.54	11.58				
reaction time	0.187	interval	7 steps	1.04	1.00	0.98	0.98	1.00	1.02	1.00	1.02	1.04	1.43		3.02	3.00
wind	2.3 m/s	velocity	5.49	8.79	9.14	9.33	9.33	9.14	8.96	9.14	8.96	8.79	9.80	8.46	9.08	9.14
Holloway, Grant (USA) (1997)																
FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)																
date	12-Jul-24	time	2.37	3.39	4.35	5.33	6.31	7.30	8.30	9.33	10.37	11.45				
reaction time	0.132	interval	7 steps	1.02	0.96	0.98	0.98	0.99	1.00	1.03	1.04	1.08	1.56		2.96	2.97
wind	-0.7 m/s	velocity	5.79	8.96	9.52	9.33	9.33	9.23	9.14	8.87	8.79	8.46	8.99	8.46	9.26	9.23
Holloway, Grant (USA) (1997)																
Heat 5 - 2024 Olympic Games (Paris, FRA)																
date	04-Aug-24	time	2.31	3.34	4.32	5.29	6.26	7.24	8.23	9.25	10.31	11.39				
reaction time	0.136	interval	7 steps	1.03	0.98	0.97	0.97	0.98	0.99	1.02	1.06	1.08	1.62		2.98	2.94
wind	0.7 m/s	velocity	5.94	8.87	9.33	9.42	9.42	9.33	9.23	8.96	8.62	8.46	8.65	8.46	9.20	9.33
Jackson, Colin (GBR) (1967)																
FINAL - 1998 European Championships (Budapest, HUN)																
date	22-Aug-98	time	2.56	3.58	4.60	5.58	6.59	7.59	8.57	9.59	10.63	11.69				
reaction time		interval		1.02	1.02	0.98	1.01	1.00	0.98	1.02	1.04	1.06	1.33		3.02	2.99
wind	1.5 m/s	velocity	5.36	8.96	8.96	9.33	9.05	9.14	9.33	8.96	8.79	8.62	10.54	8.45	9.08	9.17
Trammell, Terrence (USA) (1978)																
FINAL - 2005 USATF National Championships (Carson, CA)																
date	24-Jun-05	time	2.54	3.57	4.61	5.61	6.61	7.61	8.63	9.64	10.64	11.69				
reaction time		interval		1.03	1.04	1.00	1.00	1.00	1.02	1.01	1.00	1.05	1.33		3.07	3.02
wind	0.2 m/s	velocity	5.40	8.87	8.79	9.14	9.14	9.14	8.96	9.05	9.14	8.70	10.54	8.45	8.93	9.08
Trammell, Terrence (USA) (1978)																
Race 2 - 2006 Athletissima Meeting (Lausanne, SUI)																
date	11-Jul-06	time	2.54	3.55	4.55	5.51	6.48	7.47	8.49	9.51	10.53	11.59				
reaction time		interval		1.01	1.00	0.96	0.97	0.99	1.02	1.02	1.02	1.06	1.43		2.97	2.98
wind	1.1 m/s	velocity	5.40	9.05	9.14	9.52	9.42	9.23	8.96	8.96	8.96	8.62	9.80	8.45	9.23	9.20
Payne, David (USA) (1982)																
FINAL - 2007 IAAF World Championships (Osaka, JPN)																
date	31-Aug-07	time	2.52	3.55	4.57	5.58	6.60	7.60	8.62	9.62	10.63	11.67				
reaction time	0.141	interval		1.03	1.02	1.01	1.02	1.00	1.02	1.00	1.01	1.04	1.35		3.06	3.04
wind	1.7 m/s	velocity	5.44	8.87	8.96	9.05	8.96	9.14	8.96	9.14	9.05	8.79	10.39	8.45	8.96	9.02
Holloway, Grant (USA) (1997)																
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	03-Aug-21	time	2.37	3.37	4.35	5.34	6.31	7.31	8.31	9.34	10.41	11.47				
reaction time	0.127	interval	7 steps	1.00	0.98	0.99	0.97	1.00	1.00	1.03	1.07	1.06	1.55		2.97	2.97
wind	-0.1 m/s	velocity	5.79	9.14	9.33	9.23	9.42	9.14	9.14	8.87	8.54	8.62	9.05	8.45	9.23	9.23

Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)			Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season																
date	17-Jul-22	time	2.57	3.60	4.60	5.57	6.53	7.55	8.53	9.53	10.55	11.58		13.02	3 / 1				
reaction time	0.128	interval	7 steps	1.03	1.00	0.97	0.96	1.02	0.98	1.00	1.02	1.03	1.44				3.00	2.96	3.05
wind	2.5 m/s	velocity	5.34	8.87	9.14	9.42	9.52	8.96	9.33	9.14	8.96	8.87	9.74	8.45			9.14	9.26	8.99
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report																
date	08-Sep-22	time	2.44	3.44	4.41	5.37	6.34	7.34	8.34	9.38	10.44	11.51		13.02	6 / 1				
reaction time	0.140	interval	7 steps	1.00	0.97	0.96	0.97	1.00	1.00	1.04	1.06	1.07	1.51				2.93	2.97	3.17
wind	-1.0 m/s	velocity	5.62	9.14	9.42	9.52	9.42	9.14	9.14	8.79	8.62	8.54	9.28	8.45			9.36	9.23	8.65
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report																
date	21-Aug-23	time	2.44	3.44	4.42	5.40	6.38	7.38	8.40	9.42	10.46	11.53		13.02	5 / 1				
reaction time	0.137	interval	7 steps	1.00	0.98	0.98	0.98	1.00	1.02	1.02	1.04	1.07	1.49				2.96	3.00	3.13
wind	-0.2 m/s	velocity	5.62	9.14	9.33	9.33	9.33	9.14	8.96	8.96	8.79	8.54	9.41	8.45			9.26	9.14	8.76
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Arkansas Twilight (Fayetteville, AR)			Henson (2020) - Athlete First: 2012 Aries Merritt world record season																
date	04-May-12	time	2.50	3.53	4.55	5.57	6.57	7.54	8.54	9.54	10.54			13.03	5 / 1				
reaction time		interval	7 steps	1.03	1.02	1.00	0.97	1.00	1.00	1.00	1.00						3.07	2.97	
wind	1.0 m/s	velocity	5.49	8.87	8.96	8.96	9.14	9.42	9.14	9.14	9.14			8.44			8.93	9.23	
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)			Henson (2021) - Athlete First: major championships report																
date	28-Aug-15	time	2.54	3.58	4.60	5.58	6.58	7.56	8.56	9.56	10.56	11.62		13.03	8 / 2				
reaction time	0.143	interval	7 steps	1.04	1.02	0.98	1.00	0.98	1.00	1.00	1.00	1.06	1.41				3.04	2.98	3.06
wind	0.2 m/s	velocity	5.40	8.79	8.96	9.33	9.14	9.33	9.14	9.14	9.14	8.62	9.94	8.44			9.02	9.20	8.96
Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)			Henson (2020) - Athlete First: 2016 year end hurdle report																
date	09-Jul-16	time	2.53	3.55	4.57	5.55	6.54	7.54	8.52	9.54	10.56	11.57		13.03	3 / 1				
reaction time	0.157	interval		1.02	1.02	0.98	0.99	1.00	0.98	1.02	1.02	1.01	1.46	PB			3.02	2.97	3.05
wind	1.0 m/s	velocity	5.42	8.96	8.96	9.33	9.23	9.14	9.33	8.96	8.96	9.05	9.60	8.44			9.08	9.23	8.99
Shubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)			Henson (2021) - Athlete First: 2018 year end hurdle report																
date	09-Sep-18	time	2.52	3.58	4.60	5.56	6.54	7.54	8.54	9.54	10.54	11.58		13.03	2 / 1				
reaction time	0.143	interval	7 steps	1.06	1.02	0.96	0.98	1.00	1.00	1.00	1.00	1.04	1.45				3.04	2.98	3.04
wind	0.9 m/s	velocity	5.44	8.62	8.96	9.52	9.33	9.14	9.14	9.14	9.14	8.79	9.67	8.44			9.02	9.20	9.02
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report																
date	28-Aug-21	time	2.46	3.48	4.48	5.48	6.46	7.46	8.44	9.46	10.50	11.54		13.03	6 / 1				
reaction time	0.138	interval	7 steps	1.02	1.00	1.00	0.98	1.00	0.98	1.02	1.04	1.04	1.49				3.02	2.96	3.10
wind	0.7 m/s	velocity	5.58	8.96	9.14	9.14	9.33	9.14	9.33	8.96	8.79	8.79	9.41	8.44			9.08	9.26	8.85
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)			USATF (2022) - Results powered by Karmarush.com																
date	26-Jun-22	time	2.41	3.41	4.38	5.35	6.34	7.36	8.36	9.40	10.45	11.53		13.03	4 / 1				
reaction time		interval	7 steps	1.00	0.97	0.97	0.99	1.02	1.00	1.04	1.05	1.08	1.50				2.94	3.01	3.17
wind	0.4 m/s	velocity	5.69	9.14	9.42	9.42	9.23	8.96	9.14	8.79	8.70	8.46	9.35	8.44			9.33	9.11	8.65
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report																
date	26-Jun-22	time	2.43	3.47	4.47	5.47	6.47	7.47	8.50	9.52	10.54	11.61		13.03	7 / 1				
reaction time		interval		1.04	1.00	1.00	1.00	1.00	1.03	1.02	1.02	1.07	1.42				3.04	3.03	3.11
wind	1.2 m/s	velocity	5.65	8.79	9.14	9.14	9.14	9.14	8.87	8.96	8.96	8.54	9.87	8.44			9.02	9.05	8.82
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 World Athletics Championships (Eugene, OR)			Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season																
date	17-Jul-22	time	2.44	3.43	4.41	5.38	6.38	7.38	8.38	9.38	10.44	11.54		13.03	4 / 1				
reaction time	0.124	interval	7 steps	0.99	0.98	0.97	1.00	1.00	1.00	1.00	1.06	1.10	1.49				2.94	3.00	3.16
wind	1.2 m/s	velocity	5.62	9.23	9.33	9.42	9.14	9.14	9.14	9.14	8.62	8.31	9.41	8.44			9.33	9.14	8.68
Cunningham, Trey (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report																
date	10-Aug-22	time	2.43	3.43	4.40	5.40	6.40	7.43	8.46	9.46	10.53	11.60		13.03	4 / 2				
reaction time	0.141	interval	7 steps	1.00	0.97	1.00	1.00	1.03	1.03	1.00	1.07	1.07	1.43				2.97	3.06	3.14
wind	0.6 m/s	velocity	5.65	9.14	9.42	9.14	9.14	8.87	8.87	9.14	8.54	8.54	9.80	8.44			9.23	8.96	8.73
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	

FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	04-Jun-23	time	2.53	3.53	4.51	5.49	6.45	7.43	8.45	9.47	10.53	11.60		13.03	6 / 1			
reaction time	0.187	interval	7 steps	1.00	0.98	0.98	0.96	0.98	1.02	1.02	1.06	1.07	1.43			2.96	2.96	3.15
wind	0.4 m/s	velocity	5.42	9.14	9.33	9.33	9.52	9.33	8.96	8.96	8.62	8.54	9.80	8.44		9.26	9.26	8.70

Roberts, Daniel (USA) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)*Omega Timing (2023) - diamond league race analysis*

date	02-Sep-23	time	2.33	3.37	4.37	5.35	6.35	7.35	8.36	9.39	10.43	11.48		13.03	4 / 2			
reaction time	0.140	interval		1.04	1.00	0.98	1.00	1.00	1.01	1.03	1.04	1.05	1.55			3.02	3.01	3.12
wind	0.0 m/s	velocity	5.89	8.79	9.14	9.33	9.14	9.14	9.05	8.87	8.79	8.70	9.05	8.44		9.08	9.11	8.79

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 Prefontaine Classic (Eugene, OR)*Omega Timing (2024) - diamond league race analysis*

date	25-May-24	time	2.35	3.35	4.33	5.30	6.28	7.28	8.28	9.32	10.36	11.44		13.03	5 / 1			
reaction time	0.132	interval	7 steps	1.00	0.98	0.97	0.98	1.00	1.00	1.04	1.04	1.08	1.59			2.95	2.98	3.16
wind	-0.1 m/s	velocity	5.84	9.14	9.33	9.42	9.33	9.14	9.14	8.79	8.79	8.46	8.82	8.44		9.29	9.20	8.68

Tinch, Cordell (USA) (2000)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	28-Jun-24	time	2.50	3.54	4.52	5.50	6.50	7.50	8.50	9.52	10.56	11.65		13.03	3 / 4			
reaction time		interval	7 steps	1.04	0.98	0.98	1.00	1.00	1.00	1.02	1.04	1.09	1.38			3.00	3.00	3.15
wind	2.0 m/s	velocity	5.49	8.79	9.33	9.33	9.14	9.14	9.14	8.96	8.79	8.39	10.16	8.44		9.14	9.14	8.70

Nehemiah, Renaldo (USA) (1959)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1981 International Abendsportfest (Koblenz, FRG)*Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84*

date	26-Aug-81	time	2.50		4.53		6.54		8.54		11.63			13.04	/ 1			
reaction time		interval			2.03		2.01		2.00		3.09	1.41					3.09	
wind	0.0 m/s	velocity	5.49		9.00		9.09		9.14		8.87	9.94	8.44					8.87

Jackson, Colin (GBR) (1967)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1999 IAAF World Championships (Sevilla, ESP)*Sanchez (1999) - Sevilla '99: análisis de la carreras con villas*

date	25-Aug-99	time	2.51	3.52	4.52	5.50	6.51	7.52	8.52	9.55	10.58	11.64		13.04	5 / 1			
reaction time	0.116	interval		1.01	1.00	0.98	1.01	1.01	1.00	1.03	1.03	1.06	1.40			2.99	3.02	3.12
wind	1.0 m/s	velocity	5.47	9.05	9.14	9.33	9.05	9.05	9.14	8.87	8.87	8.62	10.01	8.44		9.17	9.08	8.79

Johnson, Allen (USA) (1971)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2001 ISTAF (Berlin, GER)*Graubner (2009) - <http://www.fgs.uni-halle.de>*

date	31-Aug-09	time	2.58	3.59	4.60	5.58	6.58	7.58	8.58	9.60	10.62	11.66		13.04	4 / 1			
reaction time	0.170	interval		1.01	1.01	0.98	1.00	1.00	1.00	1.02	1.02	1.04	1.38			3.00	3.00	3.08
wind	1.0 m/s	velocity	5.32	9.05	9.05	9.33	9.14	9.14	9.14	8.96	8.96	8.79	10.16	8.44		9.14	9.14	8.90

Richardson, Jason (USA) (1986)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2012 Aries Merritt world record season*

date	08-Aug-12	time	2.54	3.54	4.54	5.54	6.56	7.58	8.58	9.58	10.58	11.62		13.04	4 / 2			
reaction time	0.194	interval	7 steps	1.00	1.00	1.00	1.02	1.02	1.00	1.00	1.00	1.04	1.42			3.00	3.04	3.04
wind	-0.3 m/s	velocity	5.40	9.14	9.14	9.14	8.96	8.96	9.14	9.14	9.14	8.79	9.87	8.44		9.14	9.02	9.02

Merritt, Aries (USA) (1985)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)*Henson (2021) - Athlete First: major championships report*

date	28-Aug-15	time	2.48	3.52	4.52	5.52	6.52	7.52	8.52	9.54	10.58	11.62		13.04	4 / 3			
reaction time	0.141	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.04	1.42			3.04	3.00	3.10
wind	0.2 m/s	velocity	5.53	8.79	9.14	9.14	9.14	9.14	9.14	8.96	8.79	8.79	9.87	8.44		9.02	9.14	8.85

Ortega, Orlando (ESP) (1991)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)*Henson (2021) - Athlete First: 2016 year end hurdle report*

date	15-Jul-16	time	2.48	3.52	4.54	5.54	6.54	7.54	8.56	9.56	10.56	11.60		13.04	3 / 1			
reaction time	0.136	interval	7 steps	1.04	1.02	1.00	1.00	1.00	1.02	1.00	1.00	1.04	1.44	NR		3.06	3.02	3.04
wind	0.0 m/s	velocity	5.53	8.79	8.96	9.14	9.14	9.14	8.96	9.14	9.14	8.79	9.74	8.44		8.96	9.08	9.02

McLeod, Omar (JAM) (1994)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	29-Apr-17	time	2.47	3.53	4.53	5.53	6.53	7.53	8.55	9.57	10.57	11.61		13.04	4 / 1			
reaction time		interval		1.06	1.00	1.00	1.00	1.00	1.02	1.02	1.00	1.04	1.43			3.06	3.02	3.06
wind	1.8 m/s	velocity	5.55	8.62	9.14	9.14	9.14	9.14	8.96	8.96	9.14	8.79	9.80	8.44		8.96	9.08	8.96

McLeod, Omar (JAM) (1994)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles*

date	07-Aug-17	time	2.36	3.42	4.42	5.43	6.42	7.44	8.45	9.46	10.48	11.51		13.04	4 / 1			
reaction time	0.123	interval		1.06	1.00	1.01	0.99	1.02	1.01	1.01	1.02	1.03	1.53			3.07	3.02	3.06
wind	0.0 m/s	velocity	5.81	8.62	9.14	9.05	9.23	8.96	9.05	9.05	8.96	8.87	9.16	8.44		8.93	9.08	8.96

McLeod, Omar (JAM) (1994)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2021 Jamaican National Championships (Kingston, JAM) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	26-Jun-21	time	2.47	3.53	4.53	5.56	6.53	7.57	8.57	9.57	10.58	11.59	13.04	4 / 1				
reaction time		interval		1.06	1.00	1.03	0.97	1.04	1.00	1.00	1.01	1.01	1.45		3.09	3.01	3.02	
wind	1.3 m/s	velocity	5.55	8.62	9.14	8.87	9.42	8.79	9.14	9.14	9.05	9.05	9.67	8.44	8.87	9.11	9.08	
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report															
date	06-Aug-21	time	2.50	3.54	4.56	5.54	6.52	7.50	8.50	9.54	10.56	11.58	13.04	7 / 1				
reaction time	0.130	interval	7 steps	1.04	1.02	0.98	0.98	0.98	1.00	1.04	1.02	1.02	1.46		3.04	2.96	3.08	
wind	-0.5 m/s	velocity	5.49	8.79	8.96	9.33	9.33	9.33	9.14	8.79	8.96	8.96	9.60	8.44	9.02	9.26	8.90	
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date	02-Jun-23	time	2.45	3.46	4.44	5.42	6.40	7.41	8.42	9.45	10.51	11.59	13.04	6 / 1				
reaction time	0.152	interval	7 steps	1.01	0.98	0.98	0.98	1.01	1.01	1.03	1.06	1.08	1.45		2.97	3.00	3.17	
wind	-0.2 m/s	velocity	5.60	9.05	9.33	9.33	9.33	9.05	9.05	8.87	8.62	8.46	9.67	8.44	9.23	9.14	8.65	
Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Japanese National Championships (Osaka, JPN)			Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season															
date	04-Jun-23	time	2.56	3.59	4.62	5.61	6.61	7.63	8.62	9.63	10.66	11.68	13.04	5 / 1				
reaction time	0.132	interval	7 steps	1.03	1.03	0.99	1.00	1.02	0.99	1.01	1.03	1.02	1.36	NR PB	3.05	3.01	3.06	
wind	-0.9 m/s	velocity	5.36	8.87	8.87	9.23	9.14	8.96	9.23	9.05	8.87	8.96	10.31	8.44	8.99	9.11	8.96	
Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date	24-Jun-23	time	2.57	3.62	4.64	5.62	6.61	7.61	8.61	9.62	10.64	11.66	13.04	5 / 2				
reaction time	0.173	interval	7 steps	1.05	1.02	0.98	0.99	1.00	1.00	1.01	1.02	1.02	1.38		3.05	2.99	3.05	
wind	1.6 m/s	velocity	5.34	8.70	8.96	9.33	9.23	9.14	9.14	9.05	8.96	8.96	10.16	8.44	8.99	9.17	8.99	
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)			Omega Timing (2024) - diamond league race analysis															
date	25-Aug-24	time	2.35	3.34	4.34	5.31	6.30	7.30	8.30	9.33	10.37	11.44	13.04	6 / 1				
reaction time	0.157	interval	7 steps	0.99	1.00	0.97	0.99	1.00	1.00	1.03	1.04	1.07	1.60		2.96	2.99	3.14	
wind	1.1 m/s	velocity	5.84	9.23	9.14	9.42	9.23	9.14	9.14	8.87	8.79	8.54	8.76	8.44	9.26	9.17	8.73	
Schwarthoff, Florian (GER) (1968)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1995 German National Championships (Bremen, GER)			Graubner (2009) - http://www.fgs.uni-halle.de															
date	02-Jul-95	time	2.54	3.59	4.61	5.60	6.59	7.60	8.58	9.59	10.61	11.65	13.05	/ 1				
reaction time	0.118	interval		1.05	1.02	0.99	0.99	1.01	0.98	1.01	1.02	1.04	1.40	NR	3.06	2.98	3.07	
wind	-0.8 m/s	velocity	5.40	8.70	8.96	9.23	9.23	9.05	9.33	9.05	8.96	8.79	10.01	8.43	8.96	9.20	8.93	
Crear, Mark (USA) (1968)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1996 USA Olympic Trials (Atlanta, GA)			McNichols (2000) - Hurdle technique study through video analysis															
date	23-Jun-96	time	2.38	3.40	4.73	5.40	6.42	7.39	8.42	9.38	10.46	11.52	13.05	4 / 2				
reaction time		interval		1.02	1.33	0.67	1.02	0.97	1.03	0.96	1.08	1.06	1.53		3.02	3.02	3.10	
wind	0.9 m/s	velocity	5.76	8.96	6.87	13.64	8.96	9.42	8.87	9.52	8.46	8.62	9.16	8.43	9.08	9.08	8.85	
Jackson, Colin (GBR) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1997 IAAF World Championships (Athens, GRE)			Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997															
date	07-Aug-97	time	2.58	3.62	4.62	5.62	6.62	7.62	8.62	9.64	10.68	11.72	13.05	5 / 2				
reaction time	0.118	interval		1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.04	1.33		3.04	3.00	3.10	
wind	0.0 m/s	velocity	5.32	8.79	9.14	9.14	9.14	9.14	9.14	8.96	8.79	8.79	10.54	8.43	9.02	9.14	8.85	
Richardson, Jason (USA) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)			Henson (2020) - Athlete First: 2012 Aries Merritt world record season															
date	07-Sep-12	time	2.50	3.54	4.52	5.50	6.50	7.50	8.50	9.50	10.54	11.58	13.05	5 / 2				
reaction time	0.147	interval	7 steps	1.04	0.98	0.98	1.00	1.00	1.00	1.00	1.04	1.04	1.47		3.00	3.00	3.08	
wind	0.3 m/s	velocity	5.49	8.79	9.33	9.33	9.14	9.14	9.14	9.14	8.79	8.79	9.54	8.43	9.14	9.14	8.90	
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)			Henson (2020) - Athlete First: 2016 year end hurdle report															
date	06-May-16	time	2.50	3.54	4.54	5.54	6.52	7.50	8.50	9.54	10.56	11.62	13.05	4 / 1				
reaction time	0.131	interval		1.04	1.00	1.00	0.98	0.98	1.00	1.04	1.02	1.06	1.43		3.04	2.96	3.12	
wind	1.4 m/s	velocity	5.49	8.79	9.14	9.14	9.33	9.33	9.14	8.79	8.96	8.62	9.80	8.43	9.02	9.26	8.79	
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)			Henson (2020) - Athlete First: 2016 year end hurdle report															
date	16-Aug-16	time	2.44	3.50	4.52	5.54	6.54	7.54	8.56	9.60	10.60	11.62	13.05	5 / 1				
reaction time	0.142	interval		1.06	1.02	1.02	1.00	1.00	1.02	1.04	1.00	1.02	1.43		3.10	3.02	3.06	
wind	0.2 m/s	velocity	5.62	8.62	8.96	8.96	9.14	9.14	8.96	8.79	9.14	8.96	9.80	8.43	8.85	9.08	8.96	
Evry, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Meeting de Paris (Paris, FRA) (TV Analysis)			Henson (2020) - Athlete First: 2017 year end hurdle report															
date	01-Jul-17	time	2.44	3.46	4.50	5.50	6.48	7.50	8.54	9.54	10.58	11.66	13.05	8 / 1				

reaction time	0.133	interval	7 steps	1.02	1.04	1.00	0.98	1.02	1.04	1.00	1.04	1.08	1.39	PB	3.06	3.04	3.12
wind	-0.1 m/s	velocity	5.62	8.96	8.79	9.14	9.33	8.96	8.79	9.14	8.79	8.46	10.09	8.43	8.96	9.02	8.79

Ortega, Orlando (ESP) (1991)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Athletissima (Lausanne, SUI) (TV Analysis) <i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																
date	05-Jul-19	time	2.52	3.52	4.54	5.54	6.54	7.54	8.54	9.56	10.58	11.62	13.05	4 / 1		
reaction time	0.134	interval	7 steps	1.00	1.02	1.00	1.00	1.00	1.02	1.02	1.04	1.43		3.02	3.00	3.08
wind	1.0 m/s	velocity	5.44	9.14	8.96	9.14	9.14	9.14	8.96	8.96	8.79	9.80	8.43	9.08	9.14	8.90

Zhoya, Sasha (FRA) (2002)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 European U20 Championships (Tallinn, EST) (99.1cm) (TV Analysis) <i>Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record</i>																
date	17-Jul-21	time	2.48	3.48	4.48	5.48	6.48	7.48	8.48	9.48	10.52	11.52	13.05	4 / 1		
reaction time	0.196	interval	7 steps	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00	1.53	CR	3.00	3.00	3.04
wind	0.2 m/s	velocity	5.53	9.14	9.14	9.14	9.14	9.14	9.14	8.79	9.14	9.16	8.43	9.14	9.14	9.02

Holloway, Grant (USA) (1997)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis) <i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																
date	04-Sep-22	time	2.42	3.44	4.40	5.36	6.34	7.34	8.36	9.40	10.44	11.56	13.05	4 / 1		
reaction time	0.140	interval	7 steps	1.02	0.96	0.96	0.98	1.00	1.02	1.04	1.04	1.12	1.49	2.94	3.00	3.20
wind	0.6 m/s	velocity	5.67	8.96	9.52	9.52	9.33	9.14	8.96	8.79	8.16	9.41	8.43	9.33	9.14	8.57

Roberts, Daniel (USA) (1998)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis) <i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	09-Jul-23	time	2.46	3.47	4.47	5.47	6.47	7.47	8.48	9.51	10.55	11.63	13.05	6 / 1		
reaction time		interval		1.01	1.00	1.00	1.00	1.00	1.01	1.03	1.04	1.08	1.42	3.01	3.01	3.15
wind	-0.2 m/s	velocity	5.58	9.05	9.14	9.14	9.14	9.14	9.05	8.87	8.79	8.46	9.87	9.11	9.11	8.70

Simonelli, Lorenzo Ndele (ITA) (2002)

monelli, Lorenzo Ndele (ITA) (2002)												H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)												Henson (2024) - Athlete First: 2024 year end hurdle report															
date	08-Jun-24		time	2.53	3.55	4.56	5.56	6.56	7.56	8.56	9.57	10.62	11.64		13.05	5 / 1											
reaction time	0.145	interval	7 steps	1.02	1.01	1.00	1.00	1.00	1.00	1.01	1.05	1.02	1.41	NR PB				3.03	3.00	3.08							
wind	0.6 m/s	velocity	5.42	8.96	9.05	9.14	9.14	9.14	9.14	9.05	8.70	8.96	9.94	8.43				9.05	9.14	8.90							

Crittenden, Freddie (USA) (1994)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis) <i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																
date	27-Jun-24	time	2.53	3.56	4.56	5.57	6.56	7.55	8.56	9.56	10.58	11.62	13.05	7 / 1		
reaction time		interval		1.03	1.00	1.01	0.99	0.99	1.01	1.00	1.02	1.04	1.43	3.04	2.99	3.06
wind	-0.2 m/s	velocity	5.42	8.87	9.14	9.05	9.23	9.23	9.05	9.14	8.96	8.79	9.80	9.02	9.17	8.96

Broadbell, Rasheed (JAM) (2000)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL) <i>Omega Timing (2024) - diamond league race analysis</i>																
date	25-Aug-24	time	2.40	3.46	4.44	5.46	6.46	7.45	8.45	9.49	10.52	11.54	13.05	5 / 2		
reaction time	0.152	interval	7 steps	1.06	0.98	1.02	1.00	0.99	1.00	1.04	1.03	1.02	1.51	3.06	2.99	3.09
wind	1.1 m/s	velocity	5.72	8.62	9.33	8.96	9.14	9.23	9.14	8.79	8.87	8.96	9.28	8.96	9.17	8.87

Johnson, Allen (USA) (1971)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 Athletissima Meeting (Lausanne, SUI) <i>Xu (2004) - an analysis of Liu Xiang's technique in 100m hurdle final at the Athens Olympic Games</i>																
date	01-Jul-03	time	2.56	3.58	4.60	5.60	6.58	7.58	8.60	9.60	10.62	11.66	13.06	/ 1		
reaction time		interval		1.02	1.02	1.00	0.98	1.00	1.02	1.00	1.02	1.04	1.40	3.04	3.00	3.06
wind	0.0 m/s	velocity	5.36	8.96	8.96	9.14	9.33	9.14	8.96	9.14	8.96	8.79	10.01	9.02	9.14	8.96

Doucouré, Ladj (FRA) (1983)

Pucouré, Ladji (FRA) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2004 Olympic Games (Athens, GRE)													Liagone (2007) - Historique: Le 110m haies en chiffres					
date	26-Aug-04	time	2.48	3.50	4.49	5.48	6.48	7.46	8.48	9.48	10.50	11.56		13.06	5 / 1			
reaction time	0.200	interval		1.02	0.99	0.99	1.00	0.98	1.02	1.00	1.02	1.06	1.50	NR / PB		3.00	3.00	3.08
wind	0.0 m/s	velocity	5.53	8.96	9.23	9.23	9.14	9.33	8.96	9.14	8.96	8.62	9.35	8.42		9.14	9.14	8.90

Liu Xiang (CHN) (1983)

Xu Xiang (CHN) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2004 Chinese National Grand Prix (Tianjin, CHN)					Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles												
date	01-Aug-04	time	2.57	3.61	4.62	5.62	6.62	7.63	8.63	9.65	10.67	11.72	13.06	/ 1			
reaction time		interval		1.04	1.01	1.00	1.00	1.01	1.00	1.02	1.02	1.05	1.34	=PB	3.05	3.01	3.09
wind	-0.8 m/s	velocity	5.34	8.79	9.05	9.14	9.14	9.05	9.14	8.96	8.96	8.70	10.46	8.42	8.99	9.11	8.87

Richardson, Jason (USA) (1986)

chardson, Jason (USA) (1986)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																	
date	13-Jul-12	time	2.48	3.50	4.50	5.50	6.50	7.50	8.48	9.48	10.54	11.58	13.06	3 / 2			
reaction time	0.166	interval	7 steps	1.02	1.00	1.00	1.00	1.00	0.98	1.00	1.06	1.04	1.48	3.02	2.98	3.10	
wind	0.6 m/s	velocity	5.53	8.96	9.14	9.14	9.14	9.14	9.33	9.14	8.62	8.79	9.47	8.42	9.08	9.20	8.85

McLeod, Omar (JAM) (1994)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis) <i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>																
date	28-May-16	time	2.44	3.50	4.52	5.54	6.56	7.56	8.56	9.58	10.60	11.62	13.06	4 / 1		
reaction time		interval		1.06	1.02	1.02	1.02	1.00	1.00	1.02	1.02	1.02	1.44	3.10	3.02	3.06

wind	0.7 m/s	velocity	5.62	8.62	8.96	8.96	8.96	9.14	9.14	8.96	8.96	8.96	9.74	8.42		8.85	9.08	8.96
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2019 NCAA National Championships (Austin, TX) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	05-Jun-19	time	2.33	3.35	4.35	5.35	6.35	7.38	8.41	9.43	10.46	11.50		13.06	6 / 1			
reaction time	0.203	interval	1.02	1.00	1.00	1.00	1.03	1.03	1.02	1.03	1.03	1.04	1.56	PB		3.02	3.06	3.09
wind	0.9 m/s	velocity	5.89	8.96	9.14	9.14	9.14	8.87	8.87	8.96	8.87	8.79	8.99	8.42		9.08	8.96	8.87
Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese National Championships (Osaka, JPN)															<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>			
date	27-Jun-21	time	2.55	3.57	4.61	5.63	6.64	7.65	8.67	9.68	10.69	11.75		13.06	6 / 1			
reaction time	0.155	interval	7 steps	1.02	1.04	1.02	1.01	1.01	1.02	1.01	1.01	1.06	1.31	NR PB		3.08	3.04	3.08
wind	1.2 m/s	velocity	5.38	8.96	8.79	8.96	9.05	9.05	8.96	9.05	9.05	8.62	10.70	8.42		8.90	9.02	8.90
Zhoya, Sasha (FRA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 French National U20 Championships (Bondoufle, FRA) (99.1cm) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record</i>			
date	10-Jul-21	time	2.53	3.56	4.56	5.58	6.56	7.58	8.60	9.60	10.62	11.66		13.06	6 / 1			
reaction time	0.150	interval	7 steps	1.03	1.00	1.02	0.98	1.02	1.02	1.00	1.02	1.04	1.40			3.05	3.02	3.06
wind	2.2 m/s	velocity	5.42	8.87	9.14	8.96	9.33	8.96	8.96	9.14	8.96	8.79	10.01	8.42		8.99	9.08	8.96
Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	09-Sep-21	time	2.48	3.52	4.52	5.52	6.54	7.56	8.58	9.60	10.60	11.64		13.06	4 / 1			
reaction time	0.115	interval	1.04	1.00	1.00	1.02	1.02	1.02	1.02	1.00	1.04	1.42				3.04	3.06	3.06
wind	0.6 m/s	velocity	5.53	8.79	9.14	9.14	8.96	8.96	8.96	8.96	9.14	8.79	9.87	8.42		9.02	8.96	8.96
Levy, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	09-Sep-21	time	2.46	3.50	4.54	5.54	6.56	7.58	8.58	9.58	10.62	11.66		13.06	7 / 2			
reaction time	0.128	interval	7 steps	1.04	1.04	1.00	1.02	1.02	1.00	1.00	1.04	1.04	1.40			3.08	3.04	3.08
wind	0.6 m/s	velocity	5.58	8.79	8.79	9.14	8.96	8.96	9.14	9.14	8.79	8.79	10.01	8.42		8.90	9.02	8.90
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	12-Jun-22	time	2.35	3.35	4.33	5.33	6.30	7.28	8.30	9.35	10.38	11.52		13.06	6 / 2			
reaction time	0.116	interval	7 steps	1.00	0.98	1.00	0.97	0.98	1.02	1.05	1.03	1.14	1.54			2.98	2.97	3.22
wind	1.6 m/s	velocity	5.84	9.14	9.33	9.14	9.42	9.33	8.96	8.70	8.87	8.02	9.10	8.42		9.20	9.23	8.52
Broadbell, Rasheed (JAM) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	08-Sep-22	time	2.44	3.47	4.48	5.47	6.45	7.48	8.50	9.52	10.61	11.64		13.06	7 / 2			
reaction time	0.149	interval	7 steps	1.03	1.01	0.99	0.98	1.03	1.02	1.02	1.09	1.03	1.42			3.03	3.03	3.14
wind	-1.0 m/s	velocity	5.62	8.87	9.05	9.23	9.33	8.87	8.96	8.96	8.39	8.87	9.87	8.42		9.05	9.05	8.73
Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 London Athletics Meet (London, GBR)															<i>Omega Timing (2023) - diamond league race analysis</i>			
date	23-Jul-23	time	2.35	3.39	4.41	5.42	6.41	7.41	8.42	9.45	10.49	11.54		13.06	3 / 2			
reaction time	0.138	interval	7 steps	1.04	1.02	1.01	0.99	1.00	1.01	1.03	1.04	1.05	1.52			3.07	3.00	3.12
wind	1.3 m/s	velocity	5.84	8.79	8.96	9.05	9.23	9.14	9.05	8.87	8.79	8.70	9.22	8.42		8.93	9.14	8.79
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Prefontaine Classic (Eugene, OR)															<i>Omega Timing (2023) - diamond league race analysis</i>			
date	17-Sep-23	time	2.33	3.35	4.34	5.34	6.34	7.34	8.35	9.38	10.41	11.47		13.06	6 / 2			
reaction time	0.153	interval	7 steps	1.02	0.99	1.00	1.00	1.00	1.01	1.03	1.03	1.06	1.59			3.01	3.01	3.12
wind	0.9 m/s	velocity	5.89	8.96	9.23	9.14	9.14	9.14	9.05	8.87	8.87	8.62	8.82	8.42		9.11	9.11	8.79
Tinch, Cordell (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2025 Xiamen Diamond League (Xiamen, CHN)															<i>Omega Timing (2025) - diamond league race analysis</i>			
date	26-Apr-25	time	2.41	3.45	4.45	5.44	6.43	7.44	8.45	9.47	10.51	11.56		13.06	2 / 1			
reaction time	0.158	interval	7 steps	1.04	1.00	0.99	0.99	1.01	1.01	1.02	1.04	1.05	1.50			3.03	3.01	3.11
wind	0.3 m/s	velocity	5.69	8.79	9.14	9.23	9.23	9.05	9.05	8.96	8.79	8.70	9.35	8.42		9.05	9.11	8.82
Zhoya, Sasha (FRA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Short Hurdles - 2025 Grand Slam Track Miami (Miramar, FL) (TV Analysis)															<i>Henson (2025) - Athlete First: 2025 year end hurdle report</i>			
date	02-May-25	time	2.60	3.66	4.67	5.64	6.64	7.62	8.61	9.64	10.64	11.71		13.06	4 / 2			
reaction time	0.250	interval	7 steps	1.06	1.01	0.97	1.00	0.98	0.99	1.03	1.00	1.07	1.35	PB		3.04	2.97	3.10
wind	1.4 m/s	velocity	5.28	8.62	9.05	9.42	9.14	9.33	9.23	8.87	9.14	8.54	10.39	8.42		9.02	9.23	8.85
García, Anier (CUB) (1976)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1999 IAAF World Championships (Sevilla, ESP)															<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>			
date	25-Aug-99	time	2.52	3.53	4.54	5.53	6.53	7.52	8.51	9.53	10.59	11.65		13.07	3 / 2			
reaction time	0.158	interval	1.01	1.01	0.99	1.00	0.99	0.99	1.02	1.06	1.06	1.42	AR			3.01	2.98	3.14
wind	1.0 m/s	velocity	5.44	9.05	9.05	9.23	9.14	9.23	9.23	8.96	8.62	8.62	9.87	8.42		9.11	9.20	8.73

Doucouré, Ladj (FRA) (1983)																
FINAL	- 2005 IAAF World Championships (Helsinki, FIN)										Longuevre (2005) - Helsinki 2005 - Les haies: Cinq qualifiées et un titre mondial					
date	12-Aug-05	time	2.30	3.30	4.30	5.28	6.26	7.26	8.26	9.26	10.32	11.36		13.07	5 / 1	
reaction time	0.164	interval		1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.06	1.04	1.71		2.98	3.10
wind	-0.2 m/s	velocity	5.97	9.14	9.14	9.33	9.33	9.14	9.14	9.14	8.62	8.79	8.20	8.42	9.20	8.85
Richardson, Jason (USA) (1986)																
FINAL	- 2012 Herculis Meeting International D'Athlétisme (Monaco, MON) (TV Analysis)										Henson (2020) - Athlete First: 2012 Aries Merritt world record season					
date	20-Jul-12	time	2.50	3.52	4.52	5.52	6.50	7.50	8.48	9.48	10.52	11.56		13.07	4 / 2	
reaction time	0.162	interval	7 steps	1.02	1.00	1.00	0.98	1.00	0.98	1.00	1.04	1.04	1.51		3.02	3.08
wind	0.0 m/s	velocity	5.49	8.96	9.14	9.14	9.33	9.14	9.33	9.14	8.79	8.79	9.28	8.42	9.08	8.90
Merritt, Aries (USA) (1985)																
Heat 5	- 2012 Olympic Games (London, GBR) (TV Analysis)										Henson (2020) - Athlete First: 2012 Aries Merritt world record season					
date	07-Aug-12	time	2.46	3.50	4.48	5.50	6.50	7.50	8.50	9.50	10.50	11.58		13.07	7 / 1	
reaction time	0.132	interval	7 steps	1.04	0.98	1.02	1.00	1.00	1.00	1.00	1.00	1.08	1.49		3.04	3.08
wind	0.7 m/s	velocity	5.58	8.79	9.33	8.96	9.14	9.14	9.14	9.14	9.14	8.46	9.41	8.42	9.02	8.90
Shubenkov, Sergey (ANA) (1990)																
FINAL	- 2018 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)										Henson (2020) - Athlete First: 2018 year end hurdle report					
date	20-Jul-18	time	2.52	3.56	4.56	5.56	6.56	7.56	8.56	9.56	10.58	11.60		13.07	4 / 1	
reaction time	0.132	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.47		3.04	3.04
wind	-0.2 m/s	velocity	5.44	8.79	9.14	9.14	9.14	9.14	9.14	9.14	8.96	8.96	9.54	8.42	9.02	9.02
Roberts, Daniel (USA) (1998)																
FINAL	- 2019 South Eastern Conference Championships (Fayetteville, AR) (TV Analysis)										Henson (2020) - Athlete First: 2019 year end hurdle report					
date	11-May-19	time	2.53	3.56	4.58	5.60	6.60	7.58	8.60	9.62	10.66	11.72		13.07	4 / 1	
reaction time		interval		1.03	1.02	1.02	1.00	0.98	1.02	1.02	1.04	1.06	1.35	PB	3.07	3.12
wind	1.0 m/s	velocity	5.42	8.87	8.96	8.96	9.14	9.33	8.96	8.96	8.79	8.62	10.39	8.42	8.93	8.79
McLeod, Omar (JAM) (1994)																
FINAL	- 2019 ISTAF (Berlin, GER) (TV Analysis)										Henson (2020) - Athlete First: 2019 year end hurdle report					
date	01-Sep-19	time	2.46	3.46	4.46	5.50	6.50	7.50	8.52	9.58	10.62	11.68		13.07	5 / 1	
reaction time	0.130	interval		1.00	1.00	1.04	1.00	1.00	1.02	1.06	1.04	1.06	1.39		3.04	3.16
wind	0.8 m/s	velocity	5.58	9.14	9.14	8.79	9.14	9.14	8.96	8.62	8.79	8.62	10.09	8.42	9.02	8.68
Holloway, Grant (USA) (1997)																
FINAL	- 2021 Tom Jones Invitational (Gainesville, FL) (TV Analysis)										Henson (2021) - Athlete First: 2021 year end hurdle report					
date	17-Apr-21	time	2.50	3.52	4.49	5.47	6.45	7.44	8.42	9.47	10.53	11.59		13.07	6 / 1	
reaction time		interval	7 steps	1.02	0.97	0.98	0.98	0.99	0.98	1.05	1.06	1.06	1.48		2.97	3.17
wind	1.3 m/s	velocity	5.49	8.96	9.42	9.33	9.33	9.23	9.33	8.70	8.62	8.62	9.47	8.42	9.23	8.65
Allen, Devon (USA) (1994)																
FINAL	- 2021 Athletissima (Lausanne, SUI) (TV Analysis)										Henson (2021) - Athlete First: 2021 year end hurdle report					
date	26-Aug-21	time	2.48	3.48	4.52	5.56	6.56	7.56	8.56	9.56	10.56	11.62		13.07	5 / 1	
reaction time	0.140	interval		1.00	1.04	1.04	1.00	1.00	1.00	1.00	1.00	1.06	1.45		3.08	3.06
wind	2.5 m/s	velocity	5.53	9.14	8.79	8.79	9.14	9.14	9.14	9.14	9.14	8.62	9.67	8.42	8.90	8.96
Cunningham, Trey (USA) (1998)																
FINAL	- 2022 NCAA East Region Preliminary (Bloomington, IN) (TV Analysis)										Henson (2022) - Athlete First: 2022 year end hurdle report					
date	27-May-22	time	2.50	3.53	4.53	5.53	6.53	7.53	8.54	9.56	10.61	11.66		13.07	5 / 1	
reaction time		interval	7 steps	1.03	1.00	1.00	1.00	1.00	1.01	1.02	1.05	1.05	1.41	PB	3.03	3.12
wind	-1.5 m/s	velocity	5.49	8.87	9.14	9.14	9.14	9.14	9.05	8.96	8.70	8.70	9.94	8.42	9.05	8.79
Cunningham, Trey (USA) (1998)																
Semi-Final 2	- 2022 World Athletics Championships (Eugene, OR) (TV Analysis)										Henson (2022) - Athlete First: 2022 year end hurdle report					
date	17-Jul-22	time	2.48	3.50	4.50	5.50	6.50	7.53	8.53	9.56	10.60	11.66		13.07	3 / 1	
reaction time	0.120	interval	7 steps	1.02	1.00	1.00	1.00	1.03	1.00	1.03	1.04	1.06	1.41		3.02	3.13
wind	0.3 m/s	velocity	5.53	8.96	9.14	9.14	9.14	8.87	9.14	8.87	8.79	8.62	9.94	8.42	9.08	8.76
Crittenden, Freddie (USA) (1994)																
FINAL	- 2022 ISTAF (Berlin, GER) (TV Analysis)										Henson (2022) - Athlete First: 2022 year end hurdle report					
date	04-Sep-22	time	2.48	3.50	4.50	5.50	6.50	7.52	8.52	9.54	10.58	11.62		13.07	5 / 2	
reaction time	0.142	interval		1.02	1.00	1.00	1.00	1.02	1.00	1.02	1.04	1.04	1.45		3.02	3.10
wind	0.6 m/s	velocity	5.53	8.96	9.14	9.14	9.14	8.96	9.14	8.96	8.79	8.79	9.67	8.42	9.08	8.85
Izumiya, Shunsuke (JPN) (2000)																
FINAL	- 2023 Seiko Golden Grand Prix (Yokohama, JPN)										Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season					
date	21-May-23	time	2.53	3.58	4.58	5.58	6.60	7.61	8.63	9.64	10.67	11.72		13.07	6 / 1	
reaction time	0.125	interval	7 steps	1.05	1.00	1.00	1.02	1.01	1.02	1.01	1.03	1.05	1.35		3.05	3.09
wind	0.8 m/s	velocity	5.42	8.70	9.14	9.14	8.96	9.05	8.96	9.05	8.87	8.70	10.39	8.42	8.99	8.87

Edwards, Eric (USA) (2000)																
FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)																
date	21-May-23	time	2.53	3.56	4.56	5.56	6.56	7.56	8.56	9.60	10.64	11.70		13.07	2 / 2	
reaction time	0.122	interval		1.03	1.00	1.00	1.00	1.00	1.00	1.04	1.04	1.06	1.37		3.03	3.00
wind	4.0 m/s	velocity	5.42	8.87	9.14	9.14	9.14	9.14	9.14	8.79	8.79	8.62	10.23	8.42	9.05	9.14
Belocian, Wilhem (FRA) (1995)																
FINAL - 2023 French National Championships (Albi, FRA) (TV Analysis)																
date	29-Jul-23	time	2.46	3.50	4.50	5.50	6.48	7.50	8.52	9.52	10.56	11.60		13.07	5 / 2	
reaction time	0.168	interval		1.04	1.00	1.00	0.98	1.02	1.02	1.00	1.04	1.04	1.47		3.04	3.02
wind	2.3 m/s	velocity	5.58	8.79	9.14	9.14	9.33	8.96	8.96	9.14	8.79	8.79	9.54	8.42	9.02	9.08
Parchment, Hansle (JAM) (1990)																
FINAL - 2023 World Athletics Championships (Budapest, HUN)																
date	21-Aug-23	time	2.58	3.64	4.64	5.62	6.61	7.63	8.63	9.62	10.63	11.66		13.07	8 / 2	
reaction time	0.169	interval	7 steps	1.06	1.00	0.98	0.99	1.02	1.00	0.99	1.01	1.03	1.41		3.04	3.01
wind	0.0 m/s	velocity	5.32	8.62	9.14	9.33	9.23	8.96	9.14	9.23	9.05	8.87	9.94	8.42	9.02	9.11
Roberts, Daniel (USA) (1998)																
FINAL - 2023 Prefontaine Classic (Eugene, OR)																
date	17-Sep-23	time	2.34	3.37	4.37	5.38	6.39	7.40	8.42	9.46	10.50	11.55		13.07	3 / 3	
reaction time	0.149	interval		1.03	1.00	1.01	1.01	1.01	1.02	1.04	1.04	1.05	1.52		3.04	3.04
wind	0.9 m/s	velocity	5.86	8.87	9.14	9.05	9.05	9.05	8.96	8.79	8.79	8.70	9.22	8.42	9.02	9.02
Holloway, Grant (USA) (1997)																
FINAL - 2024 Atlanta City Games (Atlanta, GA) (Street Race) (TV Analysis)																
date	18-May-24	time	2.45	3.45	4.44	5.42	6.42	7.42	8.42	9.44	10.48	11.58		13.07	3 / 1	
reaction time	0.162	interval	7 steps	1.00	0.99	0.98	1.00	1.00	1.00	1.02	1.04	1.10	1.49		2.97	3.00
wind	-0.7 m/s	velocity	5.60	9.14	9.23	9.33	9.14	9.14	9.14	8.96	8.79	8.31	9.41	8.42	9.23	9.14
Britt, Jamal (USA) (1998)																
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																
date	24-Jun-24	time	2.53	3.56	4.62	5.63	6.61	7.60	8.60	9.62	10.64	11.70		13.07	4 / 1	
reaction time		interval	7 steps	1.03	1.06	1.01	0.98	0.99	1.00	1.02	1.02	1.06	1.37		3.10	2.97
wind	1.2 m/s	velocity	5.42	8.87	8.62	9.05	9.33	9.23	9.14	8.96	8.96	8.62	10.23	8.42	8.85	9.23
Muratake, Rachid (JPN) (2002)																
FINAL - 2024 Japanese National Championships (Niigata, JPN)																
date	30-Jun-24	time	2.58	3.60	4.61	5.62	6.60	7.60	8.61	9.63	10.66	11.70		13.07	7 / 1	
reaction time	0.162	interval	7 steps	1.02	1.01	1.01	0.98	1.00	1.01	1.02	1.03	1.04	1.37		3.04	2.99
wind	0.2 m/s	velocity	5.32	8.96	9.05	9.05	9.33	9.14	9.05	8.96	8.87	8.79	10.23	8.42	9.02	9.17
Olijar, Stanislav (LAT) (1979)																
FINAL - 2003 Athletissima Meeting (Lausanne, SUI)																
date	01-Jul-03	time	2.58	3.60	4.60	5.60	6.58	7.58	8.60	9.60	10.64	11.70		13.08	1 / 2	
reaction time		interval		1.02	1.00	1.00	0.98	1.00	1.02	1.00	1.04	1.06	1.38		3.02	3.00
wind	0.0 m/s	velocity	5.32	8.96	9.14	9.14	9.33	9.14	8.96	9.14	8.79	8.62	10.16	8.41	9.08	9.14
Trammell, Terrence (USA) (1978)																
FINAL - 2007 USATF National Championships (Indianapolis, IN)																
date	24-Jun-07	time	2.55	3.59	4.59	5.59	6.59	7.59	8.59	9.59	10.61	11.70		13.08	3 / 1	
reaction time		interval		1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.09	1.38			3.04	3.00
wind	0.5 m/s	velocity	5.38	8.79	9.14	9.14	9.14	9.14	9.14	9.14	8.96	8.39	10.16	8.41	9.02	9.14
Payne, David (USA) (1982)																
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)																
date	23-Sep-07	time	2.57	3.61	4.64	5.65	6.67	7.68	8.69	9.69	10.71	11.74		13.08	5 / 2	
reaction time	0.146	interval		1.04	1.03	1.01	1.02	1.01	1.01	1.00	1.02	1.03	1.34		3.08	3.04
wind	0.0 m/s	velocity	5.34	8.79	8.87	9.05	8.96	9.05	9.05	9.14	8.96	8.87	10.46	8.41	8.90	9.02
Porter, Jeff (USA) (1985)																
FINAL - 2012 USA Olympic Trials (Eugene, OR)																
date	30-Jun-12	time	2.40	3.42	4.43	5.42	6.44	7.44	8.44	9.47	10.51	11.53		13.08	4 / 3	
reaction time	0.157	interval		1.02	1.01	0.99	1.02	1.00	1.00	1.03	1.04	1.02	1.55		3.02	3.02
wind	1.2 m/s	velocity	5.72	8.96	9.05	9.23	8.96	9.14	9.14	8.87	8.79	8.96	9.05	8.41	9.08	9.08
Ortega, Orlando (ESP) (1991)																
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)																
date	09-Sep-16	time	2.50	3.54	4.57	5.57	6.57	7.57	8.57	9.59	10.61	11.64		13.08	5 / 1	
reaction time	0.145	interval	7 steps	1.04	1.03	1.00	1.00	1.00	1.00	1.02	1.02	1.03	1.44		3.07	3.00
wind	0.2 m/s	velocity	5.49	8.79	8.87	9.14	9.14	9.14	9.14	8.96	8.96	8.87	9.74	8.41	8.93	9.14
Shubenkov, Sergey (ANA) (1990)																

FINAL - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)

date	26-May-18	time	2.56	3.58	4.58	5.56	6.56	7.56	8.56	9.58	10.62	11.66		<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
reaction time	0.173	interval	7 steps	1.02	1.00	0.98	1.00	1.00	1.00	1.02	1.04	1.04	1.42			3.00	3.00	3.10
wind	3.0 m/s	velocity	5.36	8.96	9.14	9.33	9.14	9.14	9.14	8.96	8.79	8.79	9.87	8.41		9.14	9.14	8.85

Ortega, Orlando (ESP) (1991)

FINAL - 2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)													Henson (2020) - Athlete First: 2018 year end hurdle report					
date	18-Aug-18	time	2.48	3.52	4.54	5.54	6.52	7.52	8.52	9.54	10.56	11.58		13.08	6 / 1			
reaction time	0.139	interval	7 steps	1.04	1.02	1.00	0.98	1.00	1.00	1.02	1.02	1.02	1.50			3.06	2.98	3.06
wind	1.3 m/s	velocity	5.53	8.79	8.96	9.14	9.33	9.14	9.14	8.96	8.96	8.96	9.35	8.41		8.96	9.20	8.96

Roberts, Daniel (USA) (1998)

FINAL - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)													Henson (2020) - Athlete First: 2019 year end hurdle report				
date	24-Aug-19	time	2.46	3.48	4.50	5.52	6.52	7.52	8.54	9.56	10.58	11.66	13.08	3 / 1			
reaction time	0.161	interval		1.02	1.02	1.02	1.00	1.00	1.02	1.02	1.02	1.08	1.42		3.06	3.02	3.12
wind	0.8 m/s	velocity	5.58	8.96	8.96	8.96	9.14	9.14	8.96	8.96	8.96	8.46	9.87	8.41	8.96	9.08	8.79

McLeod, Omar (JAM) (1994)

Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)													CAA Hurdle Development (2019)				
date	02-Oct-19	time	2.51	3.54	4.54	5.54	6.58	7.59	8.61	9.65	10.70	11.76	13.08	5 / 1			
reaction time	0.141	interval		1.03	1.00	1.00	1.04	1.01	1.02	1.04	1.05	1.06	1.32		3.03	3.07	3.15
wind	0.9 m/s	velocity	5.47	8.87	9.14	9.14	8.79	9.05	8.96	8.79	8.70	8.62	10.62	8.41	9.05	8.93	8.70

McLeod, Omar (JAM) (1994)

FINAL - 2021 Fanny Blankers Koen Games (Hengelo, NED) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report				
date	06-Jun-21	time	2.37	3.43	4.48	5.50	6.47	7.47	8.54	9.56	10.58	11.66	13.08	5 / 1			
reaction time	interval		1.06	1.05	1.02	0.97	1.00	1.07	1.02	1.02	1.08	1.42			3.13	3.04	3.12
wind	1.7 m/s	velocity	5.79	8.62	8.70	8.96	9.42	9.14	8.54	8.96	8.96	8.46	9.87	8.41	8.76	9.02	8.79

Levy, Ronald (JAM) (1992)

Heat 1 - 2021 Jamaican National Championships (Kingston, JAM) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report					
date	26-Jun-21	time	2.53	3.53	4.56	5.56	6.53	7.53	8.53	9.53	10.56	11.60		13.08	5 / 2			
reaction time		interval	7 steps	1.00	1.03	1.00	0.97	1.00	1.00	1.00	1.03	1.04	1.48			3.03	2.97	3.07
wind	1.3 m/s	velocity	5.42	9.14	8.87	9.14	9.42	9.14	9.14	9.14	8.87	8.79	9.47	8.41		9.05	9.23	8.93

Holloway, Grant (USA) (1997)

FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report				
date	06-Jul-21	time	2.36	3.37	4.37	5.35	6.34	7.34	8.36	9.40	10.47	11.56	13.08	4 / 1			
reaction time	0.145	interval	7 steps	1.01	1.00	0.98	0.99	1.00	1.02	1.04	1.07	1.09	1.52		2.99	3.01	3.20
wind	-0.1 m/s	velocity	5.81	9.05	9.14	9.33	9.23	9.14	8.96	8.79	8.54	8.39	9.22	8.41	9.17	9.11	8.57

Allen, Devon (USA) (1994)

FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report				
date	28-Aug-21	time	2.52	3.54	4.56	5.56	6.56	7.56	8.58	9.58	10.60	11.62	13.08	5 / 2			
reaction time	0.141	interval		1.02	1.02	1.00	1.00	1.00	1.02	1.00	1.02	1.02	1.46		3.04	3.02	3.04
wind	0.7 m/s	velocity	5.44	8.96	8.96	9.14	9.14	9.14	8.96	9.14	8.96	8.96	9.60	8.41	9.02	9.08	9.02

Cunningham, Trey (USA) (1998)

FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	26-Jun-22	time	2.47	3.47	4.52	5.51	6.52	7.54	8.57	9.57	10.61	11.68	13.08	5 / 2			
reaction time		interval	7 steps	1.00	1.05	0.99	1.01	1.02	1.03	1.00	1.04	1.07	1.40		3.04	3.06	3.11
wind	1.2 m/s	velocity	5.55	9.14	8.70	9.23	9.05	8.96	8.87	9.14	8.79	8.54	10.01	8.41	9.02	8.96	8.82

Cunningham, Trey (USA) (1998)

Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</

Parchment, Hansle (JAM) (1990)

FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	10-Aug-22	time	2.50	3.53	4.53	5.53	6.53	7.53	8.53	9.56	10.56	11.60	13.08	5 / 3			
reaction time	0.128	interval	7 steps	1.03	1.00	1.00	1.00	1.00	1.00	1.03	1.00	1.04	1.48		3.03	3.00	3.07
wind	0.6 m/s	velocity	5.49	8.87	9.14	9.14	9.14	9.14	9.14	8.87	9.14	8.79	9.47	8.41	9.05	9.14	8.93

Britt, Jamal (USA) (1998)

FINAL - 2022 NACAC Championships (Freeport, BAH) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report						
date	20-Aug-22	time	2.48	3.53	4.53	5.55	6.55	7.55	8.57	9.60	10.62	11.67		13.08	7 / 2				
reaction time		interval	7 steps	1.05	1.00	1.02	1.00	1.00	1.02	1.03	1.02	1.05	1.41	PB			3.07	3.02	3.10
wind	0.3 m/s	velocity	5.53	8.70	9.14	8.96	9.14	9.14	8.96	8.87	8.96	8.70	9.94	8.41			8.93	9.08	8.85

Broadbell, Rasheed (JAM) (2000)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<i>Omega Timing (2023) - diamond league race analysis</i>															
date		time													

date		28-May-23	time	2.41	3.46	4.47	5.48	6.49	7.50	8.51	9.51	10.53	11.55	13.08	5 / 1				
reaction time		0.161	interval	7 steps	1.05	1.01	1.01	1.01	1.01	1.01	1.00	1.02	1.02	1.53		3.07	3.03	3.04	
wind		-1.3 m/s	velocity	5.69	8.70	9.05	9.05	9.05	9.05	9.05	9.14	8.96	8.96	9.16	8.41	8.93	9.05	9.02	
Tinch, Cordell (USA) (2000)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)				Henson (2023) - Athlete First: 2023 year end hurdle report															
date		09-Jul-23	time	2.47	3.49	4.50	5.50	6.48	7.48	8.50	9.52	10.55	11.62	13.08	3 / 2				
reaction time			interval	7 steps	1.02	1.01	1.00	0.98	1.00	1.02	1.02	1.03	1.07	1.46		3.03	3.00	3.12	
wind		-0.2 m/s	velocity	5.55	8.96	9.05	9.14	9.33	9.14	8.96	8.96	8.87	8.54	9.60	8.41	9.05	9.14	8.79	
Joseph, Jason (SUI) (1998)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Weltklasse (Zürich, SUI)				Omega Timing (2023) - diamond league race analysis															
date		31-Aug-23	time	2.40	3.46	4.46	5.45	6.45	7.45	8.46	9.46	10.49	11.54	13.08	5 / 1				
reaction time		0.137	interval	7 steps	1.06	1.00	0.99	1.00	1.00	1.01	1.00	1.03	1.05	1.54	NR PB	3.05	3.01	3.08	
wind		-0.1 m/s	velocity	5.72	8.62	9.14	9.23	9.14	9.14	9.05	9.14	8.87	8.70	9.10	8.41	8.99	9.11	8.90	
Simonelli, Lorenzo Ndele (ITA) (2002)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)				Omega Timing (2024) - diamond league race analysis															
date		12-Jul-24	time	2.38	3.44	4.46	5.46	6.46	7.47	8.47	9.49	10.51	11.56	13.08	3 / 2				
reaction time		0.140	interval	7 steps	1.06	1.02	1.00	1.00	1.01	1.00	1.02	1.02	1.05	1.52		3.08	3.01	3.09	
wind		-0.7 m/s	velocity	5.76	8.62	8.96	9.14	9.14	9.05	9.14	8.96	8.96	8.70	9.22	8.41	8.90	9.11	8.87	
Crear, Mark (USA) (1968)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1996 Olympic Games (Atlanta, GA)				Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016															
date		26-Jul-96	time	2.35	3.38	4.37	5.39	6.39	7.41	8.46	9.47	10.51	11.56	13.09	8 / 2				
reaction time		0.124	interval		1.03	0.99	1.02	1.00	1.02	1.05	1.01	1.04	1.05	1.53		3.04	3.07	3.10	
wind		0.8 m/s	velocity	5.84	8.87	9.23	8.96	9.14	8.96	8.70	9.05	8.79	8.70	9.16	8.40	9.02	8.93	8.85	
Liu Xiang (CHN) (1983)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Seiko Golden Grand Prix (Kawasaki, JPN)				Karube (2013) - the analysis of hurdle clearance and interval sprint in men's 110m sprint hurdle															
date		06-May-12	time	2.51	3.57	4.57	5.59	6.58	7.59	8.61	9.62	10.63	11.67	13.09	4 / 1				
reaction time			interval	7 steps	1.06	1.00	1.02	0.99	1.01	1.02	1.01	1.01	1.04	1.42		3.08	3.02	3.06	
wind		0.2 m/s	velocity	5.47	8.62	9.14	8.96	9.23	9.05	8.96	9.05	9.05	8.79	9.87	8.40	8.90	9.08	8.96	
Shubenkov, Sergey (RUS) (1990)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Herculis Meeting International D'Athlétisme (Monaco, MON) (TV Analysis)				Henson (2020) - Athlete First: 2012 Aries Merritt world record season															
date		20-Jul-12	time	2.46	3.50	4.52	5.54	6.54	7.52	8.52	9.54	10.56	11.60	13.09	7 / 3				
reaction time		0.143	interval		1.04	1.02	1.02	1.00	0.98	1.00	1.02	1.02	1.04	1.49	NR	3.08	2.98	3.08	
wind		0.0 m/s	velocity	5.58	8.79	8.96	8.96	9.14	9.33	9.14	8.96	8.96	8.79	9.41	8.40	8.90	9.20	8.90	
Oliver, David (USA) (1982)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Racers Grand Prix (Kingston, JAM) (TV Analysis)				Henson (2020) - Athlete First: 2016 year end hurdle report															
date		11-Jun-16	time	2.43	3.46	4.46	5.46	6.46	7.43	8.46	9.50	10.50	11.56	13.09	4 / 1				
reaction time			interval	7 steps	1.03	1.00	1.00	1.00	0.97	1.03	1.04	1.00	1.06	1.53		3.03	3.00	3.10	
wind		0.2 m/s	velocity	5.65	8.87	9.14	9.14	9.14	9.42	8.87	8.79	9.14	8.62	9.16	8.40	9.05	9.14	8.85	
Ortega, Orlando (ESP) (1991)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Spanish National Championships (Gijón, ESP) (TV Analysis)				Henson (2021) - Athlete First: 2016 year end hurdle report															
date		24-Jul-16	time	2.50	3.56	4.57	5.56	6.54	7.56	8.56	9.56	10.56	11.60	13.09	4 / 1				
reaction time		0.161	interval	7 steps	1.06	1.01	0.99	0.98	1.02	1.00	1.00	1.00	1.04	1.49		3.06	3.00	3.04	
wind		1.0 m/s	velocity	5.49	8.62	9.05	9.23	9.33	8.96	9.14	9.14	9.14	8.79	9.41	8.40	8.96	9.14	9.02	
McLeod, Omar (JAM) (1994)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)				Henson (2020) - Athlete First: 2017 year end hurdle report															
date		13-May-17	time	2.48	3.50	4.54	5.58	6.56	7.58	8.58	9.62	10.64	11.70	13.09	5 / 1				
reaction time		0.141	interval		1.02	1.04	1.04	0.98	1.02	1.00	1.04	1.02	1.06	1.39		3.10	3.00	3.12	
wind		0.5 m/s	velocity	5.53	8.96	8.79	8.79	9.33	8.96	9.14	8.79	8.96	8.62	10.09	8.40	8.85	9.14	8.79	
Ortega, Orlando (ESP) (1991)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)				Henson (2020) - Athlete First: 2017 year end hurdle report															
date		18-Jun-17	time	2.56	3.56	4.58	5.62	6.62	7.62	8.62	9.60	10.62	11.64	13.09	4 / 1				
reaction time		0.146	interval		1.00	1.02	1.04	1.00	1.00	1.00	0.98	1.02	1.02	1.45		3.06	3.00	3.02	
wind		3.5 m/s	velocity	5.36	9.14	8.96	8.79	9.14	9.14	9.14	9.33	8.96	8.96	9.67	8.40	8.96	9.14	9.08	
Darlen, Garfield (FRA) (1987)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)				Henson (2020) - Athlete First: 2017 year end hurdle report															
date		28-Jun-17	time	2.48	3.50	4.52	5.52	6.52	7.54	8.54	9.56	10.58	11.62	13.09	5 / 1				
reaction time		0.151	interval	7 steps	1.02	1.02	1.00	1.00	1.02	1.00	1.02	1.02	1.04	1.47	PB	3.04	3.02	3.08	
wind		0.6 m/s	velocity	5.53	8.96	8.96	9.14	9.14	8.96	9.14	8.96	8.96	8.79	9.54	8.40	9.02	9.08	8.90	
Merritt, Aries (USA) (1985)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Müller's Anniversary Games (London, GBR)				Henson (2020) - Athlete First: 2017 year end hurdle report															
date		09-Jul-17	time	2.52	3.56	4.58	5.56	6.58	7.58	8.58	9.58	10.62	11.62	13.09	4 / 1				

reaction time	0.134	interval	7 steps	1.04	1.02	0.98	1.02	1.00	1.00	1.00	1.04	1.00	1.47		3.04	3.02	3.04
wind	0.0 m/s	velocity	5.44	8.79	8.96	9.33	8.96	9.14	9.14	9.14	8.79	9.14	9.54	8.40	9.02	9.08	9.02

Shubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Meeting Città di Padova (Padova, ITA) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	02-Sep-18	time	2.56	3.58	4.60	5.58	6.56	7.56	8.56	9.56	10.56	11.60		13.09	4 / 1			
reaction time		interval	7 steps	1.02	1.02	0.98	0.98	1.00	1.00	1.00	1.00	1.04	1.49			3.02	2.98	3.04
wind	1.7 m/s	velocity	5.36	8.96	8.96	9.33	9.33	9.14	9.14	9.14	9.14	8.79	9.41	8.40		9.08	9.20	9.02

Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	06-Aug-21	time	2.40	3.40	4.40	5.40	6.40	7.38	8.40	9.44	10.50	11.58		13.09	4 / 2			
reaction time	0.136	interval	7 steps	1.00	1.00	1.00	1.00	0.98	1.02	1.04	1.06	1.08	1.51			3.00	3.00	3.18
wind	-0.5 m/s	velocity	5.72	9.14	9.14	9.14	9.14	9.33	8.96	8.79	8.62	8.46	9.28	8.40		9.14	9.14	8.62

Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	21-May-22	time	2.47	3.50	4.50	5.49	6.47	7.45	8.45	9.45	10.49	11.53		13.09	4 / 1			
reaction time	0.143	interval	7 steps	1.03	1.00	0.99	0.98	0.98	1.00	1.00	1.04	1.04	1.56			3.02	2.96	3.08
wind	0.7 m/s	velocity	5.55	8.87	9.14	9.23	9.33	9.33	9.14	9.14	8.79	8.79	8.99	8.40		9.08	9.26	8.90

Cunningham, Trey (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)			<i>USATF (2022) - Results powered by Karmarush.com</i>															
date	26-Jun-22	time	2.43	3.46	4.56	5.45	6.46	7.52	8.53	9.55	10.57	11.63		13.09	6 / 1			
reaction time		interval	7 steps	1.03	1.10	0.89	1.01	1.06	1.01	1.02	1.02	1.06	1.46			3.02	3.08	3.10
wind	0.1 m/s	velocity	5.65	8.87	8.31	10.27	9.05	8.62	9.05	8.96	8.96	8.62	9.60	8.40		9.08	8.90	8.85

Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	26-Jun-22	time	2.53	3.56	4.55	5.58	6.57	7.57	8.59	9.61	10.64	11.70		13.09	4 / 3			
reaction time		interval	7 steps	1.03	0.99	1.03	0.99	1.00	1.02	1.02	1.03	1.06	1.39			3.05	3.01	3.11
wind	1.2 m/s	velocity	5.42	8.87	9.23	8.87	9.23	9.14	8.96	8.96	8.87	8.62	10.09	8.40		8.99	9.11	8.82

Britt, Jamal (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	26-Jun-22	time	2.50	3.55	4.55	5.55	6.55	7.55	8.56	9.57	10.62	11.66		13.09	3 / 4			
reaction time		interval	7 steps	1.05	1.00	1.00	1.00	1.00	1.01	1.01	1.05	1.04	1.43	PB		3.05	3.01	3.10
wind	1.2 m/s	velocity	5.49	8.70	9.14	9.14	9.14	9.14	9.05	9.05	8.70	8.79	9.80	8.40		8.99	9.11	8.85

Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)			<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>															
date	17-Jul-22	time	2.60	3.64	4.65	5.65	6.63	7.62	8.63	9.63	10.67	11.72		13.09	5 / 2			
reaction time	0.101	interval	7 steps	1.04	1.01	1.00	0.98	0.99	1.01	1.00	1.04	1.05	1.37			3.05	2.98	3.09
wind	2.5 m/s	velocity	5.28	8.79	9.05	9.14	9.33	9.23	9.05	9.14	8.79	8.70	10.23	8.40		8.99	9.20	8.87

Dunning, Robert (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Adidas Atlanta City Games (Atlanta, GA) (street) (TV Analysis)			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>															
date	05-May-23	time	2.57	3.63	4.65	5.65	6.65	7.65	8.65	9.65	10.68	11.73		13.09	1 / 2			
reaction time	0.187	interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.00	1.00	1.03	1.05	1.36	PB		3.08	3.00	3.08
wind	0.0 m/s	velocity	5.34	8.62	8.96	9.14	9.14	9.14	9.14	9.14	8.87	8.70	10.31	8.40		8.90	9.14	8.90

Kwaou-Mathey, Just (FRA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Meeting de Paris (Paris, FRA)			<i>Omega Timing (2023) - diamond league race analysis</i>															
date	09-Jun-23	time	2.40	3.45	4.45	5.43	6.43	7.43	8.44	9.46	10.50	11.55		13.09	7 / 2			
reaction time	0.171	interval	7 steps	1.05	1.00	0.98	1.00	1.00	1.01	1.02	1.04	1.05	1.54	PB		3.03	3.01	3.11
wind	-0.5 m/s	velocity	5.72	8.70	9.14	9.33	9.14	9.14	9.05	8.96	8.79	8.70	9.10	8.40		9.05	9.11	8.82

Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 World Athletics Championships (Budapest, HUN)			<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>															
date	21-Aug-23	time	2.48	3.52	4.52	5.53	6.52	7.56	8.57	9.61	10.65	11.70		13.09	3 / 3			
reaction time	0.143	interval		1.04	1.00	1.01	0.99	1.04	1.01	1.04	1.04	1.05	1.39			3.05	3.04	3.13
wind	0.0 m/s	velocity	5.53	8.79	9.14	9.05	9.23	8.79	9.05	8.79	8.79	8.70	10.09	8.40		8.99	9.02	8.76

Scott, Ja'Qualon (USA) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)			<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>															
date	28-Jun-24	time	2.54	3.59	4.61	5.61	6.62	7.64	8.65	9.66	10.68	11.70		13.09	8 / 5			
reaction time		interval	7 steps	1.05	1.02	1.00	1.01	1.02	1.01	1.01	1.02	1.02	1.39	PB		3.07	3.04	3.05
wind	2.0 m/s	velocity	5.40	8.70	8.96	9.14	9.05	8.96	9.05	9.05	8.96	8.96	10.09	8.40		8.93	9.02	8.99

Bennett, Orlando (JAM) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)			<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	07-Aug-24	time	2.33	3.38	4.40	5.39	6.38	7.38	8.39	9.42	10.45	11.50		13.09	7 / 1			
reaction time	0.155	interval		1.05	1.02	0.99	0.99	1.00	1.01	1.03	1.03	1.05	1.59	PB		3.06	3.00	3.11

wind	0.6 m/s	velocity	5.89	8.70	8.96	9.23	9.23	9.14	9.05	8.87	8.87	8.70	8.82			8.40		8.96	9.14	8.82
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2024 Olympic Games (Paris, FRA)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season																	
date	08-Aug-24	time	2.45	3.53	4.53	5.53	6.58	7.59	8.61	9.63	10.65	11.70		13.09	4 / 2			3.08	3.08	3.09
reaction time	0.139	interval	7 steps	1.08	1.00	1.00	1.05	1.01	1.02	1.02	1.02	1.05	1.39					3.08	3.08	3.09
wind	-0.1 m/s	velocity	5.60	8.46	9.14	9.14	8.70	9.05	8.96	8.96	8.96	8.70	10.09	8.40				8.90	8.90	8.87
Broadbell, Rasheed (JAM) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2024 Olympic Games (Paris, FRA)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season																	
date	08-Aug-24	time	2.55	3.60	4.63	5.65	6.64	7.64	8.65	9.65	10.68	11.72		13.09	5 / 3			3.10	3.00	3.07
reaction time	0.144	interval	7 steps	1.05	1.03	1.02	0.99	1.00	1.01	1.00	1.03	1.04	1.37					3.10	3.00	3.07
wind	-0.1 m/s	velocity	5.38	8.70	8.87	8.96	9.23	9.14	9.05	9.14	8.87	8.79	10.23	8.40				8.85	9.14	8.93
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Short Hurdles - 2025 Grand Slam Track Miami (Miramar, FL) (TV Analysis)			Henson (2025) - Athlete First: 2025 year end hurdle report																	
date	02-May-25	time	2.57	3.60	4.60	5.60	6.60	7.60	8.61	9.64	10.67	11.71		13.09	6 / 3			3.03	3.01	3.10
reaction time	0.170	interval		1.03	1.00	1.00	1.00	1.00	1.01	1.03	1.03	1.04	1.38					3.03	3.01	3.10
wind	1.4 m/s	velocity	5.34	8.87	9.14	9.14	9.14	9.14	9.05	8.87	8.87	8.79	10.16	8.40				9.05	9.11	8.85
García, Anier (CUB) (1976)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2002 IAAF World Cup (Madrid, ESP)			Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas																	
date	21-Sep-02	time	2.47	3.49	4.50	5.50	6.50	7.51	8.52	9.52	10.56	11.61		13.10	9 / 1			3.03	3.02	3.09
reaction time	0.136	interval		1.02	1.01	1.00	1.00	1.01	1.01	1.00	1.04	1.05	1.49					3.03	3.02	3.09
wind	-2.2 m/s	velocity	5.55	8.96	9.05	9.14	9.14	9.05	9.05	9.14	8.79	8.70	9.41	8.40				9.05	9.08	8.87
Liu Xiang (CHN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2005 Chinese National Games (Nanjing, CHN)			Wang (2013) - analysis on the technical characteristics of Liu Xiang's and Shi Dongpeng's 110m Hurdles																	
date	20-Oct-05	time	2.60	3.63	4.65	5.64	6.65	7.65	8.65	9.67	10.69	11.71		13.10	/ 1			3.04	3.01	3.06
reaction time		interval		1.03	1.02	0.99	1.01	1.00	1.00	1.02	1.02	1.02	1.39					3.04	3.01	3.06
wind	0.4 m/s	velocity	5.28	8.87	8.96	9.23	9.05	9.14	9.14	8.96	8.96	8.96	10.09	8.40				9.02	9.11	8.96
Arnold, Dominique (USA) (1973)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2006 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2006)																	
date	25-Jun-06	time	2.55	3.59	4.57	5.56	6.56	7.57	8.56	9.59	10.61	11.68		13.10	/ 1			3.01	3.00	3.12
reaction time		interval		1.04	0.98	0.99	1.00	1.01	0.99	1.03	1.02	1.07	1.42					3.01	3.00	3.12
wind	-0.4 m/s	velocity	5.38	8.79	9.33	9.23	9.14	9.05	9.23	8.87	8.96	8.54	9.87	8.40				9.11	9.14	8.79
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)			Henson (2020) - Athlete First: 2016 year end hurdle report																	
date	06-May-16	time	2.56	3.62	4.64	5.64	6.64	7.64	8.64	9.64	10.66	11.70		13.10	7 / 2			3.08	3.00	3.06
reaction time	0.127	interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.40					3.08	3.00	3.06
wind	1.4 m/s	velocity	5.36	8.62	8.96	9.14	9.14	9.14	9.14	9.14	8.96	8.79	10.01	8.40				8.90	9.14	8.96
Robles, Dayron (CUB) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 3 - 2012 Olympic Games (London, GBR) (TV Analysis)			Henson (2020) - Athlete First: 2012 Aries Merritt world record season																	
date	08-Aug-12	time	2.48	3.48	4.48	5.46	6.46	7.46	8.50	9.54	10.58	11.62		13.10	7 / 1			2.98	3.04	3.12
reaction time	0.162	interval	7 steps	1.00	1.00	0.98	1.00	1.00	1.04	1.04	1.04	1.04	1.48					2.98	3.04	3.12
wind	0.1 m/s	velocity	5.53	9.14	9.14	9.33	9.14	9.14	8.79	8.79	8.79	8.79	9.47	8.40				9.20	9.02	8.79
Levy, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)			Henson (2020) - Athlete First: 2017 year end hurdle report																	
date	27-May-17	time	2.44	3.48	4.50	5.52	6.52	7.54	8.54	9.58	10.60	11.64		13.10	1 / 2			3.08	3.02	3.10
reaction time	0.151	interval	7 steps	1.04	1.02	1.02	1.00	1.02	1.00	1.04	1.02	1.04	1.46	PB				3.08	3.02	3.10
wind	0.9 m/s	velocity	5.62	8.79	8.96	8.96	9.14	8.96	9.14	8.79	8.96	8.79	9.60	8.40				8.90	9.08	8.85
Shubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)			Henson (2020) - Athlete First: 2017 year end hurdle report																	
date	18-Jun-17	time	2.52	3.58	4.56	5.58	6.58	7.56	8.56	9.54	10.60	11.66		13.10	5 / 2			3.06	2.98	3.10
reaction time	0.141	interval	7 steps	1.06	0.98	1.02	1.00	0.98	1.00	0.98	1.06	1.06	1.44					3.06	2.98	3.10
wind	3.5 m/s	velocity	5.44	8.62	9.33	8.96	9.14	9.33	9.14	9.33	8.62	8.62	9.74	8.40				8.96	9.20	8.85
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)			Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles																	
date	06-Aug-17	time	2.37	3.43	4.45	5.46	6.48	7.47	8.47	9.49	10.53	11.57		13.10	7 / 1			3.09	3.01	3.10
reaction time	0.135	interval		1.06	1.02	1.01	1.02	0.99	1.00	1.02	1.04	1.04	1.53					3.09	3.01	3.10
wind	0.2 m/s	velocity	5.79	8.62	8.96	9.05	8.96	9.23	9.14	8.96	8.79	8.79	9.16	8.40				8.87	9.11	8.85
Ortega, Orlando (ESP) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)			Henson (2020) - Athlete First: 2018 year end hurdle report																	
date	31-Aug-18	time	2.54	3.56	4.58	5.58	6.56	7.56	8.58	9.58	10.62	11.66		13.10	6 / 2			3.04	3.00	3.08
reaction time	0.124	interval	7 steps	1.02	1.02	1.00	0.98	1.00	1.02	1.00	1.04	1.04	1.44					3.04	3.00	3.08
wind	-0.1 m/s	velocity	5.40	8.96	8.96	9.14	9.33	9.14	8.96	9.14	8.79	8.79	9.74	8.40				9.02	9.14	8.90

Holloway, Grant (USA) (1997)																
Quarter-Final 1 - 2019 NCAA Championships - East Preliminary Round (Jacksonville, FL) (TV Analysis)											<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	25-May-19	time	2.36	3.36	4.36	5.36	6.36	7.36	8.38	9.40	10.44	11.50		13.10	6 / 1	
reaction time	0.158	interval	7 steps	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.06	1.60			3.00 3.02 3.12
wind	1.3 m/s	velocity	5.81	9.14	9.14	9.14	9.14	9.14	8.96	8.96	8.79	8.62	8.76	8.40		9.14 9.08 8.79
Holloway, Grant (USA) (1997)																
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)											<i>CAA Hurdle Development (2019)</i>					
date	02-Oct-19	time	2.50	3.50	4.46	5.43	6.40	7.39	8.40	9.42	10.48	11.62		13.10	5 / 1	
reaction time	0.166	interval	7 steps	1.00	0.96	0.97	0.97	0.99	1.01	1.02	1.06	1.14	1.48			2.93 2.97 3.22
wind	1.1 m/s	velocity	5.49	9.14	9.52	9.42	9.42	9.23	9.05	8.96	8.62	8.02	9.47	8.40		9.36 9.23 8.52
Holloway, Grant (USA) (1997)																
FINAL - 2019 IAAF World Championships (Doha, QAT)											<i>CAA Hurdle Development (2019)</i>					
date	02-Oct-19	time	2.46	3.46	4.44	5.41	6.41	7.40	8.42	9.44	10.50	11.60		13.10	6 / 1	
reaction time	0.152	interval	7 steps	1.00	0.98	0.97	1.00	0.99	1.02	1.02	1.06	1.10	1.50			2.95 3.01 3.18
wind	0.6 m/s	velocity	5.58	9.14	9.33	9.42	9.14	9.23	8.96	8.96	8.62	8.31	9.35	8.40		9.29 9.11 8.62
Allen, Devon (USA) (1994)																
Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)											<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	26-Jun-21	time	2.53	3.56	4.56	5.54	6.55	7.56	8.55	9.58	10.61	11.64		13.10	5 / 1	
reaction time	0.124	interval	7 steps	1.03	1.00	0.98	1.01	1.01	0.99	1.03	1.03	1.03	1.46			3.01 3.01 3.09
wind	1.2 m/s	velocity	5.42	8.87	9.14	9.33	9.05	9.05	9.23	8.87	8.87	8.87	9.60	8.40		9.11 9.11 8.87
Allen, Devon (USA) (1994)																
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)											<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	26-Jun-21	time	2.50	3.53	4.53	5.53	6.54	7.57	8.56	9.58	10.60	11.64		13.10	5 / 2	
reaction time	0.152	interval	7 steps	1.03	1.00	1.00	1.01	1.03	0.99	1.02	1.02	1.04	1.46			3.03 3.03 3.08
wind	0.4 m/s	velocity	5.49	8.87	9.14	9.14	9.05	8.87	9.23	8.96	8.96	8.79	9.60	8.40		9.05 9.05 8.90
Levy, Ronald (JAM) (1992)																
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)											<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	06-Aug-21	time	2.46	3.50	4.54	5.56	6.58	7.60	8.60	9.62	10.66	11.72		13.10	5 / 3	
reaction time	0.146	interval	7 steps	1.04	1.04	1.02	1.02	1.02	1.00	1.02	1.04	1.06	1.38			3.10 3.04 3.12
wind	-0.5 m/s	velocity	5.58	8.79	8.79	8.96	8.96	8.96	9.14	8.96	8.79	8.62	10.16	8.40		8.85 9.02 8.79
Cunningham, Trey (USA) (1998)																
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)											<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	26-Aug-22	time	2.47	3.44	4.44	5.42	6.38	7.38	8.40	9.46	10.52	11.62		13.10	3 / 2	
reaction time	0.140	interval	7 steps	0.97	1.00	0.98	0.96	1.00	1.02	1.06	1.06	1.10	1.48			2.95 2.98 3.22
wind	0.0 m/s	velocity	5.55	9.42	9.14	9.33	9.52	9.14	8.96	8.62	8.62	8.31	9.47	8.40		9.29 9.20 8.52
Joseph, Jason (SUI) (1998)																
FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)											<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	02-Jun-23	time	2.53	3.56	4.54	5.52	6.54	7.54	8.54	9.57	10.60	11.66		13.10	3 / 2	
reaction time	0.164	interval	7 steps	1.03	0.98	0.98	1.02	1.00	1.00	1.03	1.03	1.06	1.44	NR		2.99 3.02 3.12
wind	-0.2 m/s	velocity	5.42	8.87	9.33	9.33	8.96	9.14	9.14	8.87	8.87	8.62	9.74	8.40		9.17 9.08 8.79
Izumiya, Shunsuke (JPN) (2000)																
FINAL - 2023 Prefontaine Classic (Eugene, OR)											<i>Omega Timing (2023) - diamond league race analysis</i>					
date	17-Sep-23	time	2.34	3.38	4.38	5.40	6.41	7.41	8.44	9.48	10.51	11.55		13.10	7 / 4	
reaction time	0.136	interval	7 steps	1.04	1.00	1.02	1.01	1.00	1.03	1.04	1.03	1.04	1.55			3.06 3.04 3.11
wind	0.9 m/s	velocity	5.86	8.79	9.14	8.96	9.05	9.14	8.87	8.79	8.87	8.79	9.05	8.40		8.96 9.02 8.82
Tinch, Cordell (USA) (2000)																
FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)											<i>Omega Timing (2024) - diamond league race analysis</i>					
date	12-Jul-24	time	2.40	3.44	4.44	5.44	6.45	7.45	8.46	9.48	10.52	11.57		13.10	7 / 3	
reaction time	0.161	interval	7 steps	1.04	1.00	1.00	1.01	1.00	1.01	1.02	1.04	1.05	1.53			3.04 3.02 3.11
wind	-0.7 m/s	velocity	5.72	8.79	9.14	9.14	9.05	9.14	9.05	8.96	8.79	8.70	9.16	8.40		9.02 9.08 8.82
Roberts, Daniel (USA) (1998)																
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)											<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	07-Aug-24	time	2.29	3.34	4.36	5.37	6.37	7.38	8.40	9.43	10.46	11.52		13.10	8 / 2	
reaction time	0.143	interval	7 steps	1.05	1.02	1.01	1.00	1.01	1.02	1.03	1.03	1.06	1.58			3.08 3.03 3.12
wind	0.6 m/s	velocity	5.99	8.70	8.96	9.05	9.14	9.05	8.96	8.87	8.87	8.62	8.87	8.40		8.90 9.05 8.79
Broadbell, Rasheed (JAM) (2000)																
FINAL - 2024 Athletissima (Lausanne, SUI)											<i>Omega Timing (2024) - diamond league race analysis</i>					
date	22-Aug-24	time	2.36	3.43	4.45	5.45	6.46	7.47	8.49	9.51	10.53	11.57		13.10	3 / 1	
reaction time	0.138	interval	7 steps	1.07	1.02	1.00	1.01	1.01	1.02	1.02	1.02	1.04	1.53			3.09 3.04 3.08
wind	-0.1 m/s	velocity	5.81	8.54	8.96	9.14	9.05	9.05	8.96	8.96	8.96	8.79	9.16	8.40		8.87 9.02 8.90

Zhoya, Sasha (FRA) (2002)																
FINAL	- 2024 Weltklasse (Zürich, SUI)															
date	05-Sep-24	time			5.51	6.50	7.50	8.50	9.51	10.52	11.54		13.10		2 / 2	
reaction time	0.148	interval	7 steps			0.99	1.00	1.00	1.01	1.01	1.02	1.56	PB		2.99	3.04
wind	-0.3 m/s	velocity			7.47	9.23	9.14	9.14	9.05	9.05	8.96	8.99	8.40		9.17	9.02
Britt, Jamal (USA) (1998)																
Short Hurdles	- 2025 Grand Slam Track Miami (Miramar, FL) (TV Analysis)															
date	02-May-25	time	2.60	3.63	4.66	5.64	6.67	7.67	8.67	9.67	10.69	11.77	13.10		8 / 4	
reaction time	0.210	interval	7 steps	1.03	1.03	0.98	1.03	1.00	1.00	1.00	1.02	1.08	1.33		3.04	3.10
wind	1.4 m/s	velocity	5.28	8.87	8.87	9.33	8.87	9.14	9.14	9.14	8.96	8.46	10.54	8.40	9.02	8.85
Muratake, Rachid (JPN) (2002)																
FINAL	- 2025 Yangtze River Delta Athletics Diamond Gala (Keqiao, CHN)															
date	03-May-25	time	2.37	3.45	4.46	5.45	6.45	7.46	8.47	9.50	10.54	11.58	13.10		4 / 2	
reaction time	0.150	interval	7 steps	1.08	1.01	0.99	1.00	1.01	1.01	1.03	1.04	1.04	1.52		3.08	3.11
wind	0.6 m/s	velocity	5.79	8.46	9.05	9.23	9.14	9.05	9.05	8.87	8.79	8.79	9.22	8.40	8.90	8.82
Schwarthoff, Florian (GER) (1968)																
FINAL	- 1996 LIVE (Nurnberg, GER)															
date	07-Jun-96	time	2.57	3.62	4.62	5.62	6.62	7.64	8.65	9.67	10.69	11.73	13.11		/ 1	
reaction time	0.159	interval		1.05	1.00	1.00	1.02	1.01	1.02	1.02	1.04	1.04	1.38		3.05	3.08
wind	0.0 m/s	velocity	5.34	8.70	9.14	9.14	9.14	8.96	9.05	8.96	8.96	8.79	10.16	8.39	8.99	8.90
Jackson, Colin (GBR) (1967)																
FINAL	- 2002 European Championships (Munich, GER)															
date	10-Aug-02	time	2.57	3.59	4.59	5.59	6.59	7.61	8.63	9.66	10.71	11.77	13.11		/ 1	
reaction time	0.117	interval		1.02	1.00	1.00	1.02	1.02	1.03	1.05	1.06	1.34			3.02	3.14
wind	0.4 m/s	velocity	5.34	8.96	9.14	9.14	9.14	8.96	8.96	8.87	8.70	8.62	10.46	8.39	9.08	8.73
Oliver, David (USA) (1982)																
FINAL	- 2010 Colorful Daegu Meeting (Daegu, KOR)															
date	19-May-10	time	2.61	3.66	4.68	5.66	6.66	7.64	8.64	9.66	10.68	11.75	13.11		/ 1	
reaction time	0.170	interval	7 steps	1.05	1.02	0.98	1.00	0.98	1.00	1.02	1.02	1.07	1.36		3.05	3.11
wind	-0.2 m/s	velocity	5.26	8.70	8.96	9.33	9.14	9.33	9.14	8.96	8.96	8.54	10.31	8.39	8.99	8.82
Richardson, Jason (USA) (1986)																
FINAL	- 2012 Prefontaine Classic (Eugene, OR) (TV Analysis)															
date	02-Jun-12	time	2.52	3.56	4.56	5.56	6.56	7.56	8.56	9.58	10.62	11.66	13.11		4 / 3	
reaction time	0.159	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.45			3.04	3.10
wind	2.4 m/s	velocity	5.44	8.79	9.14	9.14	9.14	9.14	8.96	8.79	8.79	9.67	8.39		9.02	8.85
Ortega, Orlando (ESP) (1991)																
FINAL	- 2016 Athletissima (Lausanne, SUI) (TV Analysis)															
date	25-Aug-16	time	2.52	3.56	4.58	5.60	6.60	7.60	8.62	9.64	10.64	11.68	13.11		5 / 1	
reaction time	0.133	interval	7 steps	1.04	1.02	1.02	1.00	1.00	1.02	1.02	1.00	1.04	1.43		3.08	3.06
wind	0.5 m/s	velocity	5.44	8.79	8.96	8.96	9.14	9.14	8.96	8.96	9.14	8.79	9.80	8.39	8.90	8.96
Allen, Devon (USA) (1994)																
FINAL	- 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)															
date	27-May-17	time	2.48	3.52	4.54	5.54	6.56	7.56	8.58	9.60	10.60	11.64	13.11		5 / 3	
reaction time	0.131	interval		1.04	1.02	1.00	1.02	1.00	1.02	1.02	1.00	1.04	1.47		3.06	3.06
wind	0.9 m/s	velocity	5.53	8.79	8.96	9.14	8.96	9.14	8.96	8.96	9.14	8.79	9.54	8.39	8.96	8.96
Merritt, Aries (USA) (1985)																
FINAL	- 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)															
date	04-Jul-17	time	2.48	3.52	4.52	5.52	6.52	7.52	8.54	9.58	10.60	11.66	13.11		3 / 3	
reaction time	0.126	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.02	1.04	1.02	1.06	1.45		3.04	3.12
wind	0.3 m/s	velocity	5.53	8.79	9.14	9.14	9.14	9.14	8.96	8.79	8.96	8.62	9.67	8.39	9.02	8.79
Roberts, Daniel (USA) (1998)																
FINAL	- 2019 Athletissima (Lausanne, SUI) (TV Analysis)															
date	05-Jul-19	time	2.50	3.54	4.56	5.58	6.58	7.58	8.60	9.62	10.64	11.66	13.11		5 / 2	
reaction time	0.204	interval		1.04	1.02	1.02	1.00	1.00	1.02	1.02	1.02	1.02	1.45		3.08	3.06
wind	1.0 m/s	velocity	5.49	8.79	8.96	8.96	9.14	9.14	8.96	8.96	8.96	8.96	9.67	8.39	8.90	8.96
Ortega, Orlando (ESP) (1991)																
FINAL	- 2020 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)															
date	14-Aug-20	time	2.54	3.57	4.60	5.60	6.57	7.57	8.61	9.61	10.67	11.71	13.11		4 / 1	
reaction time	0.125	interval	7 steps	1.03	1.03	1.00	0.97	1.00	1.04	1.00	1.06	1.04	1.40		3.06	3.10
wind	0.8 m/s	velocity	5.40	8.87	8.87	9.14	9.42	9.14	8.79	9.14	8.62	8.79	10.01	8.39	8.96	8.85
Holloway, Grant (USA) (1997)																

Heat 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)

date	25-Jun-21	time	2.43	3.43	4.43	5.40	6.42	7.43	8.46	9.49	10.51	11.55
reaction time	0.175	interval	7 steps	1.00	1.00	0.97	1.02	1.01	1.03	1.03	1.02	1.04
wind	0.7 m/s	velocity	5.65	9.14	9.14	9.42	8.96	9.05	8.87	8.87	8.96	8.79

Henson (2021) - Athlete First: 2021 year end hurdle report

13.11 4 / 1

2.97 3.06 3.09
9.23 8.96 8.87**Roberts, Daniel (USA) (1998)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)

Henson (2021) - Athlete First: 2021 year end hurdle report

date	26-Jun-21	time	2.43	3.47	4.47	5.47	6.47	7.49	8.51	9.53	10.56	11.61
reaction time	0.201	interval		1.04	1.00	1.00	1.00	1.02	1.02	1.02	1.03	1.05
wind	0.4 m/s	velocity	5.65	8.79	9.14	9.14	9.14	8.96	8.96	8.96	8.87	8.70

13.11 6 / 3

3.04 3.04 3.10
9.02 9.02 8.85**Joseph, Jason (SUI) (1998)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 2021 Athletissima (Lausanne, SUI) (TV Analysis)

Henson (2021) - Athlete First: 2021 year end hurdle report

date	26-Aug-21	time	2.56	3.60	4.64	5.62	6.60	7.60	8.60	9.60	10.62	11.62
reaction time	0.149	interval	7 steps	1.04	1.04	0.98	0.98	1.00	1.00	1.00	1.02	1.00
wind	2.5 m/s	velocity	5.36	8.79	8.79	9.33	9.33	9.14	9.14	9.14	8.96	9.14

13.11 3 / 2

3.06 2.98 3.02
8.96 9.20 9.08**Levy, Ronald (JAM) (1992)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 2021 Boris Hanžeković Memorial (Zagreb, CRO) (TV Analysis)

Henson (2021) - Athlete First: 2021 year end hurdle report

date	14-Sep-21	time	2.48	3.52	4.52	5.52	6.50	7.50	8.50	9.53	10.56	11.63
reaction time	0.156	interval	7 steps	1.04	1.00	1.00	0.98	1.00	1.00	1.03	1.03	1.07
wind	0.7 m/s	velocity	5.53	8.79	9.14	9.14	9.33	9.14	9.14	8.87	8.87	8.54

13.11 4 / 2

3.04 2.98 3.13
9.02 9.20 8.76**Holloway, Grant (USA) (1997)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)

Henson (2022) - Athlete First: 2022 year end hurdle report

date	26-Aug-22	time	2.50	3.54	4.54	5.54	6.52	7.54	8.58	9.61	10.64	11.69
reaction time	0.122	interval	7 steps	1.04	1.00	1.00	0.98	1.02	1.04	1.03	1.03	1.05
wind	0.0 m/s	velocity	5.49	8.79	9.14	9.14	9.33	8.96	8.79	8.87	8.87	8.70

13.11 6 / 3

3.04 3.04 3.11
9.02 9.02 8.82**Roberts, Daniel (USA) (1998)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)

Omega Timing (2024) - diamond league race analysis

date	20-Apr-24	time	2.38	3.42	4.44	5.45	6.47	7.48	8.49	9.51	10.53	11.59
reaction time	0.156	interval	7 steps	1.04	1.02	1.01	1.02	1.01	1.01	1.02	1.02	1.06
wind	-0.3 m/s	velocity	5.76	8.79	8.96	9.05	8.96	9.05	9.05	8.96	8.96	8.62

13.11 6 / 1

3.07 3.04 3.10
8.93 9.02 8.85**McKoy, Mark (CAN) (1961)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 1992 Olympic Games (Barcelona, ESP)

Knight (1992) - 1992 Olympic report: the hurdling events

date	03-Aug-92	time	2.46	3.51	4.52	5.53	6.53	7.56	8.57	9.61	10.66	11.73
reaction time	0.155	interval		1.05	1.01	1.01	1.00	1.03	1.01	1.04	1.05	1.07
wind	0.8 m/s	velocity	5.58	8.70	9.05	9.05	9.14	8.87	9.05	8.79	8.70	8.54

13.12 4 / 1

3.07 3.04 3.16
8.93 9.02 8.68**Balzer, Falk (GER) (1973)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 1998 European Championships (Budapest, HUN)

Sanchez (1998) - Budapest '98: análisis de la carreras con villas

date	22-Aug-98	time	2.60	3.62	4.63	5.64	6.67	7.67	8.68	9.68	10.71	11.77
reaction time		interval		1.02	1.01	1.01	1.03	1.00	1.01	1.00	1.03	1.06
wind	1.5 m/s	velocity	5.28	8.96	9.05	9.05	8.87	9.14	9.05	9.14	8.87	8.62

13.12 6 / 2

3.04 3.04 3.09
9.02 9.02 8.87**Ross, Duane (USA) (1972)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 1999 IAAF World Championships (Sevilla, ESP)

Sanchez (1999) - Sevilla '99: análisis de la carreras con villas

date	25-Aug-99	time	2.47	3.49	4.51	5.53	6.52	7.54	8.56	9.58	10.61	11.68
reaction time	0.141	interval		1.02	1.02	1.02	0.99	1.02	1.02	1.02	1.03	1.07
wind	1.0 m/s	velocity	5.55	8.96	8.96	8.96	9.23	8.96	8.96	8.96	8.87	8.54

13.12 4 / 3

3.06 3.03 3.12
8.96 9.05 8.79**Johnson, Allen (USA) (1971)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 2003 IAAF World Championships (Paris, FRA)

Leynier (2003) - Paris 2003 - Haies: Le 110m haies

date	30-Aug-03	time	2.56	3.60	4.60	5.60	6.60	7.62	8.62	9.64	10.68	11.72
reaction time	0.159	interval		1.04	1.00	1.00	1.00	1.02	1.00	1.02	1.04	1.04
wind	0.3 m/s	velocity	5.36	8.79	9.14	9.14	9.14	8.96	9.14	8.96	8.79	8.79

13.12 4 / 1

3.04 3.02 3.10
9.02 9.08 8.85**Faulk, Dexter (USA) (1984)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 2012 Prefontaine Classic (Eugene, OR) (TV Analysis)

Henson (2020) - Athlete First: 2012 Aries Merritt world record season

date	02-Jun-12	time	2.52	3.56	4.58	5.60	6.60	7.60	8.62	9.64	10.66	11.74
reaction time	0.143	interval		1.04	1.02	1.02	1.00	1.00	1.02	1.02	1.02	1.08
wind	2.4 m/s	velocity	5.44	8.79	8.96	8.96	9.14	9.14	8.96	8.96	8.96	8.46

13.12 7 / 4

3.08 3.02 3.12
8.90 9.08 8.79**Parchment, Hansie (JAM) (1990)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)

Henson (2020) - Athlete First: 2012 Aries Merritt world record season

date	08-Aug-12	time	2.56	3.62	4.62	5.62	6.62	7.62	8.62	9.62	10.64	11.68
reaction time	0.172	interval	7 steps	1.06	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.44
wind	-0.3 m/s	velocity	5.36	8.62	9.14	9.14	9.14	9.14	9.14	8.96	8.79	9.74

13.12 7 / 3

3.06 3.00 3.06
8.96 9.14 8.96**Ortega, Orlando (ESP) (1991)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)

Henson (2020) - Athlete First: 2016 year end hurdle report

date	06-May-16	time	2.56	3.58	4.60	5.60	6.60	7.60	8.60	9.64	10.68	11.72	13.12	6 / 3				
reaction time	0.118	interval	7 steps	1.02	1.02	1.00	1.00	1.00	1.00	1.04	1.04	1.04	1.40	NR	3.04	3.00	3.12	
wind	1.4 m/s	velocity	5.36	8.96	8.96	9.14	9.14	9.14	9.14	8.79	8.79	8.79	10.01	8.38	9.02	9.14	8.79	
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Shanghai Golden Grand Prix (Shanghai, CHN)														Henson (2021) - Athlete First: 2016 year end hurdle report				
date	14-May-16	time	2.50	3.54	4.58	5.58	6.58	7.56	8.56	9.56	10.58	11.62	13.12	4 / 2				
reaction time	0.136	interval	7 steps	1.04	1.04	1.00	1.00	0.98	1.00	1.00	1.02	1.04	1.50		3.08	2.98	3.06	
wind	1.2 m/s	velocity	5.49	8.79	8.79	9.14	9.14	9.33	9.14	9.14	8.96	8.79	9.35	8.38	8.90	9.20	8.96	
Oliver, David (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Meeting International Mohammed VI D'Athlétisme (Rabat, MAR) (TV Analysis)														Henson (2020) - Athlete First: 2016 year end hurdle report				
date	22-May-16	time	2.46	3.48	4.48	5.50	6.50	7.52	8.54	9.54	10.58	11.62	13.12	7 / 1				
reaction time	0.152	interval	7 steps	1.02	1.00	1.02	1.00	1.02	1.02	1.00	1.04	1.04	1.50		3.04	3.04	3.08	
wind	1.4 m/s	velocity	5.58	8.96	9.14	8.96	9.14	8.96	8.96	9.14	8.79	8.79	9.35	8.38	9.02	9.02	8.90	
Bascou, Dimitri (FRA) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)														Henson (2021) - Athlete First: 2016 year end hurdle report				
date	15-Jul-16	time	2.44	3.48	4.48	5.46	6.44	7.46	8.48	9.52	10.56	11.64	13.12	6 / 2				
reaction time	0.136	interval	7 steps	1.04	1.00	0.98	0.98	1.02	1.02	1.04	1.04	1.08	1.48	PB	3.02	3.02	3.16	
wind	0.0 m/s	velocity	5.62	8.79	9.14	9.33	9.33	8.96	8.96	8.79	8.79	8.46	9.47	8.38	9.08	9.08	8.68	
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Athletissima (Lausanne, SUI) (TV Analysis)														Henson (2020) - Athlete First: 2016 year end hurdle report				
date	25-Aug-16	time	2.48	3.54	4.56	5.58	6.58	7.58	8.62	9.64	10.64	11.70	13.12	4 / 2				
reaction time	0.144	interval		1.06	1.02	1.02	1.00	1.00	1.04	1.02	1.00	1.06	1.42		3.10	3.04	3.08	
wind	0.5 m/s	velocity	5.53	8.62	8.96	8.96	9.14	9.14	8.79	8.96	9.14	8.62	9.87	8.38	8.85	9.02	8.90	
Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)														Henson (2020) - Athlete First: 2016 year end hurdle report				
date	09-Sep-16	time	2.48	3.50	4.50	5.50	6.50	7.50	8.50	9.54	10.57	11.64	13.12	6 / 2				
reaction time	0.160	interval	7 steps	1.02	1.00	1.00	1.00	1.00	1.00	1.04	1.03	1.07	1.48		3.02	3.00	3.14	
wind	0.2 m/s	velocity	5.53	8.96	9.14	9.14	9.14	9.14	9.14	8.79	8.87	8.54	9.47	8.38	9.08	9.14	8.73	
Levy, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)														Henson (2021) - Athlete First: 2018 year end hurdle report				
date	09-Sep-18	time	2.46	3.50	4.52	5.54	6.54	7.56	8.58	9.60	10.62	11.68	13.12	3 / 2				
reaction time	0.115	interval	7 steps	1.04	1.02	1.02	1.00	1.02	1.02	1.02	1.02	1.06	1.44		3.08	3.04	3.10	
wind	0.9 m/s	velocity	5.58	8.79	8.96	8.96	9.14	8.96	8.96	8.96	8.96	8.62	9.74	8.38	8.90	9.02	8.85	
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 South Eastern Conference Championships (Fayetteville, AR) (TV Analysis)														Henson (2020) - Athlete First: 2019 year end hurdle report				
date	11-May-19	time	2.53	3.53	4.53	5.53	6.50	7.50	8.50	9.53	10.58	11.68	13.12	5 / 2				
reaction time		interval	7 steps	1.00	1.00	1.00	0.97	1.00	1.00	1.03	1.05	1.10	1.44		3.00	2.97	3.18	
wind	1.0 m/s	velocity	5.42	9.14	9.14	9.14	9.42	9.14	9.14	8.87	8.70	8.31	9.74	8.38	9.14	9.23	8.62	
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)														CAA Hurdle Development (2019)				
date	18-May-19	time	2.52	3.56	4.58	5.56	6.56	7.58	8.60	9.62	10.68	11.76	13.12	4 / 1				
reaction time	0.149	interval		1.04	1.02	0.98	1.00	1.02	1.02	1.02	1.06	1.08	1.36		3.04	3.04	3.16	
wind	0.7 m/s	velocity	5.44	8.79	8.96	9.33	9.14	8.96	8.96	8.96	8.62	8.46	10.31	8.38	9.02	9.02	8.68	
Shubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)														Henson (2020) - Athlete First: 2019 year end hurdle report				
date	16-Jun-19	time	2.50	3.54	4.56	5.58	6.58	7.60	8.60	9.62	10.66	11.70	13.12	6 / 1				
reaction time	0.135	interval	7 steps	1.04	1.02	1.02	1.00	1.02	1.00	1.02	1.04	1.04	1.42		3.08	3.02	3.10	
wind	0.3 m/s	velocity	5.49	8.79	8.96	8.96	9.14	8.96	9.14	8.96	8.79	8.79	9.87	8.38	8.90	9.08	8.85	
Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)														CAA Hurdle Development (2019)				
date	02-Oct-19	time	2.55	3.60	4.61	5.61	6.62	7.62	8.62	9.65	10.68	11.73	13.12	6 / 2				
reaction time	0.163	interval	7 steps	1.05	1.01	1.00	1.01	1.00	1.00	1.03	1.03	1.05	1.39		3.06	3.01	3.11	
wind	0.9 m/s	velocity	5.38	8.70	9.05	9.14	9.05	9.14	9.14	8.87	8.87	8.70	10.09	8.38	8.96	9.11	8.82	
Zhoya, Sasha (FRA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2021 World Athletics U20 Championships (Nairobi, KEN) (99.1cm) (TV Analysis)														Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record				
date	20-Aug-21	time	2.43	3.50	4.50	5.50	6.50	7.50	8.50	9.52	10.54	11.58	13.12	4 / 1				
reaction time	0.175	interval	7 steps	1.07	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.54		3.07	3.00	3.08	
wind	0.3 m/s	velocity	5.65	8.54	9.14	9.14	9.14	9.14	9.14	8.96	8.96	8.79	9.10	8.38	8.93	9.14	8.90	
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Boris Hanžeković Memorial (Zagreb, CRO) (TV Analysis)														Henson (2021) - Athlete First: 2021 year end hurdle report				
date	14-Sep-21	time	2.50	3.55	4.55	5.54	6.53	7.52	8.53	9.54	10.56	11.63	13.12	6 / 3				

reaction time	0.141	interval	7 steps	1.05	1.00	0.99	0.99	0.99	1.01	1.01	1.02	1.07	1.49		3.04	2.99	3.10
wind	0.7 m/s	velocity	5.49	8.70	9.14	9.23	9.23	9.23	9.05	9.05	8.96	8.54	9.41	8.38	9.02	9.17	8.85

Holloway, Grant (USA) (1997)

Bilalayo, Grant (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)													Omega Timing (2023) - diamond league race analysis				
date	28-May-23	time	2.35	3.36	4.34	5.33	6.32	7.34	8.36	9.40	10.45	11.52	13.12	6 / 2			
reaction time	0.177	interval	7 steps	1.01	0.98	0.99	0.99	1.02	1.02	1.04	1.05	1.07	1.60		2.98	3.03	3.16
wind	-1.3 m/s	velocity	5.84	9.05	9.33	9.23	9.23	8.96	8.96	8.79	8.70	8.54	8.76	8.38	9.20	9.05	8.68

Allen, Devon (USA) (1994)

Ien, Devon (USA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report				
date	04-Jun-23	time	2.56	3.61	4.62	5.63	6.62	7.62	8.64	9.68	10.72	11.78	13.12	5 / 2			
reaction time	0.137	interval	7 steps	1.05	1.01	1.01	0.99	1.00	1.02	1.04	1.04	1.06	1.34		3.07	3.01	3.14
wind	0.4 m/s	velocity	5.36	8.70	9.05	9.05	9.23	9.14	8.96	8.79	8.79	8.62	10.46	8.38	8.93	9.11	8.73

Parchment, Hansle (JAM) (1990)

Archamb, Hansle (JAM) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Jamaican National Championships (Kingston, JAM) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report				
date	09-Jul-23	time	2.53	3.58	4.60	5.58	6.56	7.56	8.54	9.56	10.58	11.62	13.12	4 / 2			
reaction time		interval	7 steps	1.05	1.02	0.98	0.98	1.00	0.98	1.02	1.02	1.04	1.50		3.05	2.96	3.08
wind	0.7 m/s	velocity	5.42	8.70	8.96	9.33	9.33	9.14	9.33	8.96	8.96	8.79	9.35	8.38	8.99	9.26	8.90

Holloway, Grant (USA) (1997)

Bilal Yaw, Grant (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)													Omega Timing (2023) - diamond league race analysis				
date	02-Sep-23	time	2.32	3.34	4.32	5.30	6.29	7.28	8.28	9.31	10.36	11.43	13.12	6 / 3			
reaction time	0.141	interval	7 steps	1.02	0.98	0.98	0.99	0.99	1.00	1.03	1.05	1.07	1.69		2.98	2.98	3.15
wind	0.0 m/s	velocity	5.91	8.96	9.33	9.33	9.23	9.23	9.14	8.87	8.70	8.54	8.30	8.38	9.20	9.20	8.70

Joseph, Jason (SUI) (1998)

seph, Jason (SUI) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Prefontaine Classic (Eugene, OR)													Omega Timing (2023) - diamond league race analysis				
date	17-Sep-23	time	2.43	3.49	4.52	5.52	6.51	7.50	8.51	9.52	10.54	11.57	13.12	8 / 5			
reaction time	0.156	interval	7 steps	1.06	1.03	1.00	0.99	0.99	1.01	1.01	1.02	1.03	1.55		3.09	2.99	3.06
wind	0.9 m/s	velocity	5.65	8.62	8.87	9.14	9.23	9.23	9.05	9.05	8.96	8.87	9.05	8.38	8.87	9.17	8.96

Roberts, Daniel (USA) (1998)

berts, Daniel (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)													Omega Timing (2024) - diamond league race analysis				
date	27-Apr-24	time	2.49	3.53	4.55	5.55	6.55	7.55	8.56	9.62	10.67	11.71	13.12	4 / 1			
reaction time	0.147	interval	7 steps	1.04	1.02	1.00	1.00	1.00	1.01	1.06	1.05	1.04	1.41		3.06	3.01	3.15
wind	0.8 m/s	velocity	5.51	8.79	8.96	9.14	9.14	9.14	9.05	8.62	8.70	8.79	9.94	8.38	8.96	9.11	8.70

Cunningham, Trey (USA) (1998)

Jningham, Trey (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report				
date	24-Jun-24	time	2.50	3.56	4.54	5.54	6.54	7.55	8.57	9.59	10.62	11.73	13.12	3 / 1			
reaction time		interval	7 steps	1.06	0.98	1.00	1.00	1.01	1.02	1.02	1.03	1.11	1.39		3.04	3.03	3.16
wind	1.8 m/s	velocity	5.49	8.62	9.33	9.14	9.14	9.05	8.96	8.96	8.87	8.23	10.09	8.38	9.02	9.05	8.68

Ross, Duane (USA) (1972)

Ass, Duane (USA) (1972)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Quarter-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)												Sanchez (1999) - Sevilla '99: análisis de la carreras con villas					
date	23-Aug-99	time	2.52	3.55	4.56	5.57	6.56	7.58	8.58	9.59	10.63	11.68	13.13	5 / 1			
reaction time	0.139	interval		1.03	1.01	1.01	0.99	1.02	1.00	1.01	1.04	1.05	1.45	PB	3.05	3.01	3.10
wind	-0.4 m/s	velocity	5.44	8.87	9.05	9.05	9.23	8.96	9.14	9.05	8.79	8.70	9.67	8.38	8.99	9.11	8.85

Oliver, David (USA) (1982)

iver, David (USA) (1982)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Golden Grand Prix (Shanghai, CHN) (TV Analysis)												Henson (2020) - Athlete First: 2012 Aries Merritt world record season					
date	19-May-12	time	2.50	3.52	4.50	5.50	6.50	7.48	8.50	9.52	10.56	11.62	13.13	7 / 2			
reaction time	0.192	interval	7 steps	1.02	0.98	1.00	1.00	0.98	1.02	1.02	1.04	1.06	1.51		3.00	3.00	3.12
wind	0.4 m/s	velocity	5.49	8.96	9.33	9.14	9.14	9.33	8.96	8.96	8.79	8.62	9.28	8.38	9.14	9.14	8.79

Oliver, David (USA) (1982)

iver, David (USA) (1982)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Prefontaine Classic (Eugene, OR) (TV Analysis)												Henson (2020) - Athlete First: 2012 Aries Merritt world record season					
date	02-Jun-12	time	2.52	3.56	4.56	5.56	6.54	7.56	8.60	9.60	10.64	11.72	13.13	6 / 5			
reaction time	0.171	interval	7 steps	1.04	1.00	1.00	0.98	1.02	1.04	1.00	1.04	1.08	1.41		3.04	3.04	3.12
wind	2.4 m/s	velocity	5.44	8.79	9.14	9.14	9.33	8.96	8.79	9.14	8.79	8.46	9.94	8.38	9.02	9.02	8.79

Richardson, Jason (USA) (1986)

Chardson, Jason (USA) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2012 Olympic Games (London, GBR) (TV Analysis)												Henson (2020) - Athlete First: 2012 Aries Merritt world record season					
date	08-Aug-12	time	2.46	3.50	4.50	5.48	6.46	7.44	8.44	9.46	10.50	11.54	13.13	5 / 1			
reaction time	0.160	interval	7 steps	1.04	1.00	0.98	0.98	0.98	1.00	1.02	1.04	1.04	1.59		3.02	2.96	3.10
wind	-0.5 m/s	velocity	5.58	8.79	9.14	9.33	9.33	9.33	9.14	8.96	8.79	8.79	8.82	8.38	9.08	9.26	8.85

Wilson, Ryan (USA) (1980)

Nison, Ryan (USA) (1980)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)														Henson (2021) - Athlete First: major championships report			
date	12-Aug-13	time	2.52	3.56	4.56	5.54	6.52	7.50	8.50	9.52	10.54	11.62	13.13	9 / 2			
reaction time	0.167	interval	7 steps	1.04	1.00	0.98	0.98	0.98	1.00	1.02	1.02	1.08	1.51		3.02	2.96	3.12

wind	0.3 m/s	velocity	5.44	8.79	9.14	9.33	9.33	9.33	9.14	8.96	8.96	8.46	9.28	8.38		9.08	9.26	8.79	
Ortega, Orlando (ESP) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Meeting International Mohammed VI D'Athlétisme (Rabat, MAR) (TV Analysis)														Henson (2020) - Athlete First: 2016 year end hurdle report					
date	22-May-16	time	2.50	3.54	4.54	5.52	6.52	7.54	8.56	9.60	10.62	11.66		13.13	6 / 2		3.02	3.04	3.10
reaction time	0.150	interval	7 steps	1.04	1.00	0.98	1.00	1.02	1.02	1.04	1.02	1.04	1.47						
wind	1.4 m/s	velocity	5.49	8.79	9.14	9.33	9.14	8.96	8.96	8.79	8.96	8.79	9.54	8.38		9.08	9.02	8.85	
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)														Henson (2020) - Athlete First: 2017 year end hurdle report					
date	27-May-17	time	2.48	3.50	4.52	5.52	6.54	7.54	8.56	9.58	10.62	11.66		13.13	6 / 4		3.04	3.04	3.10
reaction time	0.132	interval	7 steps	1.02	1.02	1.00	1.02	1.00	1.02	1.02	1.04	1.04	1.47						
wind	0.9 m/s	velocity	5.53	8.96	8.96	9.14	8.96	9.14	8.96	8.96	8.79	8.79	9.54	8.38		9.02	9.02	8.85	
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														Henson (2020) - Athlete First: 2017 year end hurdle report					
date	08-Jun-17	time	2.44	3.48	4.48	5.48	6.50	7.50	8.54	9.56	10.60	11.66		13.13	7 / 1		3.04	3.06	3.12
reaction time	0.132	interval	7 steps	1.04	1.00	1.00	1.02	1.00	1.04	1.02	1.04	1.06	1.47						
wind	-0.3 m/s	velocity	5.62	8.79	9.14	9.14	8.96	9.14	8.79	8.96	8.79	8.62	9.54	8.38		9.02	8.96	8.79	
Levy, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Jamaican National Championships (Kingston, JAM) (TV Analysis)														Henson (2020) - Athlete First: 2017 year end hurdle report					
date	24-Jun-17	time	2.43	3.46	4.48	5.50	6.50	7.50	8.52	9.53	10.56	11.62		13.13	5 / 2		3.07	3.02	3.10
reaction time		interval	7 steps	1.03	1.02	1.02	1.00	1.00	1.02	1.01	1.03	1.06	1.51						
wind	0.7 m/s	velocity	5.65	8.87	8.96	8.96	9.14	9.14	8.96	9.05	8.87	8.62	9.28	8.38		8.93	9.08	8.85	
Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)														Henson (2020) - Athlete First: 2018 year end hurdle report					
date	26-May-18	time	2.52	3.56	4.58	5.60	6.60	7.60	8.62	9.66	10.68	11.72		13.13	8 / 3		3.08	3.02	3.10
reaction time	0.122	interval		1.04	1.02	1.02	1.00	1.00	1.02	1.04	1.02	1.04	1.41						
wind	3.0 m/s	velocity	5.44	8.79	8.96	8.96	9.14	9.14	8.96	8.79	8.96	8.79	9.94	8.38		8.90	9.08	8.85	
Levy, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)														Henson (2020) - Athlete First: 2018 year end hurdle report					
date	22-Jul-18	time	2.48	3.52	4.56	5.54	6.56	7.56	8.56	9.58	10.62	11.70		13.13	5 / 1		3.06	3.02	3.14
reaction time	0.134	interval	7 steps	1.04	1.04	0.98	1.02	1.00	1.00	1.02	1.04	1.08	1.43						
wind	0.2 m/s	velocity	5.53	8.79	8.79	9.33	8.96	9.14	9.14	8.96	8.79	8.46	9.80	8.38		8.96	9.08	8.73	
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Quarter-Final 3 - 2019 NCAA Championships - East Preliminary Round (Jacksonville, FL) (TV Analysis)														Henson (2020) - Athlete First: 2019 year end hurdle report					
date	25-May-19	time	2.36	3.40	4.40	5.44	6.48	7.48	8.50	9.54	10.56	11.62		13.13	5 / 1		3.08	3.06	3.12
reaction time		interval		1.04	1.00	1.04	1.04	1.00	1.02	1.04	1.02	1.06	1.51						
wind	1.5 m/s	velocity	5.81	8.79	9.14	8.79	8.79	9.14	8.96	8.79	8.96	8.62	9.28	8.38		8.90	8.96	8.79	
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														Henson (2024) - Athlete First: 2021 year end hurdle report					
date	04-Aug-21	time	2.44	3.45	4.44	5.44	6.44	7.44	8.49	9.52	10.57	11.64		13.13	4 / 1		3.00	3.05	3.15
reaction time	0.130	interval	7 steps	1.01	0.99	1.00	1.00	1.00	1.05	1.03	1.05	1.07	1.49						
wind	-0.1 m/s	velocity	5.62	9.05	9.23	9.14	9.14	9.14	8.70	8.87	8.70	8.54	9.41	8.38		9.14	8.99	8.70	
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)														Henson (2022) - Athlete First: 2022 year end hurdle report					
date	26-Aug-22	time	2.60	3.64	4.64	5.64	6.64	7.64	8.64	9.64	10.67	11.71		13.13	4 / 4		3.04	3.00	3.07
reaction time	0.151	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.03	1.04	1.42						
wind	0.0 m/s	velocity	5.28	8.79	9.14	9.14	9.14	9.14	9.14	9.14	8.87	8.79	9.87	8.38		9.02	9.14	8.93	
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Prefontaine Classic (Eugene, OR)														Omega Timing (2024) - diamond league race analysis					
date	25-May-24	time	2.36	3.43	4.45	5.46	6.46	7.48	8.51	9.54	10.57	11.62		13.13	4 / 2		3.10	3.05	3.11
reaction time	0.148	interval	7 steps	1.07	1.02	1.01	1.00	1.02	1.03	1.03	1.03	1.05	1.51						
wind	-0.1 m/s	velocity	5.81	8.54	8.96	9.05	9.14	8.96	8.87	8.87	8.87	8.70	9.28	8.38		8.85	8.99	8.82	
Cunningham, Trey (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)														Omega Timing (2024) - diamond league race analysis					
date	12-Jul-24	time	2.38	3.41	4.40	5.39	6.39	7.40	8.43	9.47	10.51	11.56		13.13	4 / 4		3.01	3.04	3.13
reaction time	0.134	interval	7 steps	1.03	0.99	0.99	1.00	1.01	1.03	1.04	1.04	1.05	1.57						
wind	-0.7 m/s	velocity	5.76	8.87	9.23	9.23	9.14	9.05	8.87	8.79	8.79	8.70	8.93	8.38		9.11	9.02	8.76	
Ross, Duane (USA) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)														Sanchez (1999) - Sevilla '99: análisis de la carreras con villas					
date	24-Aug-99	time	2.53	3.56	4.56	5.58	6.57	7.56	8.59	9.60	10.63	11.68		13.14	3 / 1		3.05	3.01	3.09
reaction time	0.151	interval		1.03	1.00	1.02	0.99	0.99	1.03	1.01	1.03	1.05	1.46						
wind	0.0 m/s	velocity	5.42	8.87	9.14	8.96	9.23	9.23	8.87	9.05	8.87	8.70	9.60	8.37		8.99	9.11	8.87	

Trammell, Terrence (USA) (1978)																
FINAL - 2006 USATF National Championships (Indianapolis, IN)																
date	25-Jun-06	time	2.57	3.62	4.62	5.62	6.64	7.64	8.64	9.68	10.71	11.75		13.14	/ 2	
reaction time		interval		1.05	1.00	1.00	1.02	1.00	1.00	1.04	1.03	1.04	1.39		3.05	3.02
wind	-0.4 m/s	velocity	5.34	8.70	9.14	9.14	8.96	9.14	9.14	8.79	8.87	8.79	10.09	8.37	8.99	9.08
Liu Xiang (CHN) (1983)																
FINAL - 2007 Osaka Grand Prix (Osaka, JPN)																
date	05-May-07	time	2.43	3.49	4.51	5.50	6.50	7.50	8.51	9.53	10.55	11.58		13.14	/ 1	
reaction time		interval		1.06	1.02	0.99	1.00	1.00	1.01	1.02	1.02	1.03	1.56		3.07	3.01
wind	0.8 m/s	velocity	5.65	8.62	8.96	9.23	9.14	9.14	9.05	8.96	8.96	8.87	8.99	8.37	8.93	9.11
Brathwaite, Ryan (BAR) (1988)																
FINAL - 2009 IAAF World Championships (Berlin, GER)																
date	20-Aug-09	time	2.54	3.60	4.61	5.60	6.59	7.60	8.62	9.65	10.70	11.74		13.14	4 / 1	
reaction time		interval		1.06	1.01	0.99	0.99	1.01	1.02	1.03	1.05	1.04	1.40	NR	3.06	3.02
wind	0.1 m/s	velocity	5.40	8.62	9.05	9.23	9.23	9.05	8.96	8.87	8.70	8.79	10.01	8.37	8.96	9.08
Robles, Dayron (CUB) (1986)																
FINAL - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)																
date	29-Aug-11	time	2.40	3.45	4.47	5.47	6.47	7.47	8.47	9.51	10.54	11.64		13.14	5 / 1	
reaction time		interval		1.05	1.02	1.00	1.00	1.00	1.00	1.04	1.03	1.10	1.50	DQ	3.07	3.00
wind	-1.1 m/s	velocity	5.72	8.70	8.96	9.14	9.14	9.14	9.14	8.79	8.87	8.31	9.35	8.37	8.93	9.14
Hicks, Antwon (USA) (1983)																
FINAL - 2012 USA Olympic Trials (Eugene, OR)																
date	30-Jun-12	time	2.37	3.44	4.44	5.44	6.44	7.44	8.46	9.47	10.51	11.56		13.14	2 / 4	
reaction time		interval		1.07	1.00	1.00	1.00	1.00	1.02	1.01	1.04	1.05	1.58		3.07	3.02
wind	1.2 m/s	velocity	5.79	8.54	9.14	9.14	9.14	9.14	8.96	9.05	8.79	8.70	8.87	8.37	8.93	9.08
Merritt, Aries (USA) (1985)																
Heat 2 - 2012 AVIVA Grand Prix (London, GBR) (TV Analysis)																
date	13-Jul-12	time	2.48	3.52	4.52	5.52	6.52	7.54	8.56	9.58	10.60	11.66		13.14	4 / 1	
reaction time		interval		1.04	1.00	1.00	1.00	1.02	1.02	1.02	1.02	1.06	1.48		3.04	3.04
wind	-0.9 m/s	velocity	5.53	8.79	9.14	9.14	9.14	8.96	8.96	8.96	8.96	8.62	9.47	8.37	9.02	9.02
Oliver, David (USA) (1982)																
FINAL - 2012 Herculis Meeting International D'Athlétisme (Monaco, MON) (TV Analysis)																
date	20-Jul-12	time	2.46	3.50	4.52	5.54	6.52	7.52	8.54	9.54	10.58	11.64		13.14	6 / 4	
reaction time		interval		1.04	1.02	1.02	0.98	1.00	1.02	1.00	1.04	1.06	1.50		3.08	3.00
wind	0.0 m/s	velocity	5.58	8.79	8.96	8.96	9.33	9.14	8.96	9.14	8.79	8.62	9.35	8.37	8.90	9.14
Parchment, Hansle (JAM) (1990)																
Semi-Final 3 - 2012 Olympic Games (London, GBR) (TV Analysis)																
date	08-Aug-12	time	2.54	3.58	4.62	5.62	6.62	7.62	8.62	9.62	10.64	11.66		13.14	5 / 2	
reaction time		interval		1.04	1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.48	NR	3.08	3.00
wind	0.1 m/s	velocity	5.40	8.79	8.79	9.14	9.14	9.14	9.14	9.14	8.96	8.96	9.47	8.37	8.90	9.14
Parchment, Hansle (JAM) (1990)																
FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)																
date	07-Sep-12	time	2.56	3.62	4.62	5.60	6.60	7.58	8.58	9.60	10.62	11.66		13.14	4 / 3	
reaction time		interval		1.06	1.00	0.98	1.00	0.98	1.00	1.02	1.02	1.04	1.48		3.04	2.98
wind	0.3 m/s	velocity	5.36	8.62	9.14	9.33	9.14	9.33	9.14	8.96	8.96	8.79	9.47	8.37	9.02	9.20
Pozzi, Andy (GBR) (1992)																
FINAL - 2017 Meeting de Paris (Paris, FRA) (TV Analysis)																
date	01-Jul-17	time	2.48	3.50	4.50	5.48	6.48	7.48	8.50	9.54	10.58	11.66		13.14	3 / 2	
reaction time		interval		1.02	1.00	0.98	1.00	1.00	1.02	1.04	1.04	1.08	1.48	PB	3.00	3.02
wind	-0.1 m/s	velocity	5.53	8.96	9.14	9.33	9.14	9.14	8.96	8.79	8.79	8.46	9.47	8.37	9.14	9.08
Shubenkov, Sergey (ANA) (1990)																
FINAL - 2017 IAAF World Championships (London, GBR)																
date	07-Aug-17	time	2.41	3.45	4.45	5.46	6.45	7.46	8.47	9.48	10.52	11.57		13.14	2 / 2	
reaction time		interval		1.04	1.00	1.01	0.99	1.01	1.01	1.01	1.04	1.05	1.57		3.05	3.01
wind	0.0 m/s	velocity	5.69	8.79	9.14	9.05	9.23	9.05	9.05	9.05	8.79	8.70	8.93	8.37	8.99	9.11
Shubenkov, Sergey (ANA) (1990)																
FINAL - 2017 Memorial van Damme (Brussels, BEL) (TV Analysis)																
date	01-Sep-17	time	2.56	3.60	4.60	5.60	6.58	7.56	8.58	9.58	10.62	11.66		13.14	5 / 1	
reaction time		interval		1.04	1.00	1.00	0.98	0.98	1.02	1.00	1.04	1.04	1.48		3.04	2.98
wind	0.5 m/s	velocity	5.36	8.79	9.14	9.14	9.33	9.33	8.96	9.14	8.79	8.79	9.47	8.37	9.02	9.20

Ortega, Orlando (ESP) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)			Henson (2020) - Athlete First: 2019 year end hurdle report															
date	24-Aug-19	time	2.50	3.52	4.54	5.54	6.52	7.56	8.58	9.62	10.66	11.70		13.14	6 / 2			
reaction time	0.132	interval	7 steps	1.02	1.02	1.00	0.98	1.04	1.02	1.04	1.04	1.04	1.44			3.04	3.04	3.12
wind	0.8 m/s	velocity	5.49	8.96	8.96	9.14	9.33	8.79	8.96	8.79	8.79	8.79	9.74	8.37		9.02	9.02	8.79
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)			Henson (2020) - Athlete First: 2020 year end hurdle report															
date	14-Aug-20	time	2.52	3.54	4.54	5.54	6.54	7.54	8.57	9.57	10.61	11.68		13.14	5 / 2			
reaction time	0.125	interval	7 steps	1.02	1.00	1.00	1.00	1.00	1.03	1.00	1.04	1.07	1.46	=PB		3.02	3.03	3.11
wind	0.8 m/s	velocity	5.44	8.96	9.14	9.14	9.14	9.14	8.87	9.14	8.79	8.54	9.60	8.37		9.08	9.05	8.82
Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report															
date	06-Aug-21	time	2.52	3.56	4.58	5.60	6.58	7.62	8.62	9.66	10.70	11.72		13.14	6 / 4			
reaction time	0.133	interval		1.04	1.02	1.02	0.98	1.04	1.00	1.04	1.04	1.02	1.42			3.08	3.02	3.10
wind	-0.5 m/s	velocity	5.44	8.79	8.96	8.96	9.33	8.79	9.14	8.79	8.79	8.96	9.87	8.37		8.90	9.08	8.85
Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)			USATF (2022) - Results powered by Karmarush.com															
date	26-Jun-22	time	2.45	3.52	4.55	5.54	6.55	7.61	8.55	9.61	10.63	11.64		13.14	5 / 2			
reaction time		interval	7 steps	1.07	1.03	0.99	1.01	1.06	0.94	1.06	1.02	1.01	1.50			3.09	3.01	3.09
wind	0.1 m/s	velocity	5.60	8.54	8.87	9.23	9.05	8.62	9.72	8.62	8.96	9.05	9.35	8.37		8.87	9.11	8.87
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report															
date	26-Jun-22	time	2.53	3.53	4.55	5.57	6.57	7.57	8.57	9.61	10.64	11.68		13.14	2 / 5			
reaction time		interval		1.00	1.02	1.02	1.00	1.00	1.00	1.04	1.03	1.04	1.46	PB		3.04	3.00	3.11
wind	1.2 m/s	velocity	5.42	9.14	8.96	8.96	9.14	9.14	9.14	8.79	8.87	8.79	9.60	8.37		9.02	9.14	8.82
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report															
date	16-Jul-22	time	2.43	3.46	4.46	5.43	6.43	7.43	8.46	9.50	10.53	11.63		13.14	1 / 1			
reaction time	0.147	interval	7 steps	1.03	1.00	0.97	1.00	1.00	1.03	1.04	1.03	1.10	1.51			3.00	3.03	3.17
wind	0.4 m/s	velocity	5.65	8.87	9.14	9.42	9.14	9.14	8.87	8.79	8.87	8.31	9.28	8.37		9.14	9.05	8.65
Martinez, Asier (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report															
date	17-Aug-22	time	2.56	3.60	4.60	5.60	6.62	7.62	8.64	9.66	10.68	11.74		13.14	4 / 1			
reaction time	0.149	interval	7 steps	1.04	1.00	1.00	1.02	1.00	1.02	1.02	1.02	1.06	1.40	PB		3.04	3.04	3.10
wind	-0.2 m/s	velocity	5.36	8.79	9.14	9.14	8.96	9.14	8.96	8.96	8.96	8.62	10.01	8.37		9.02	9.02	8.85
Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report															
date	17-Aug-22	time	2.52	3.54	4.58	5.58	6.56	7.58	8.60	9.62	10.64	11.70		13.14	5 / 2			
reaction time	0.167	interval	7 steps	1.02	1.04	1.00	0.98	1.02	1.02	1.02	1.02	1.06	1.44			3.06	3.02	3.10
wind	-0.2 m/s	velocity	5.44	8.96	8.79	9.14	9.33	8.96	8.96	8.96	8.96	8.62	9.74	8.37		8.96	9.08	8.85
Britt, Jamal (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Adidas Atlanta City Games (Atlanta, GA) (street) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date	05-May-23	time	2.52	3.57	4.60	5.60	6.60	7.60	8.62	9.65	10.68	11.73		13.14	4 / 3			
reaction time	0.188	interval	7 steps	1.05	1.03	1.00	1.00	1.00	1.02	1.03	1.03	1.05	1.41			3.08	3.02	3.11
wind	0.0 m/s	velocity	5.44	8.70	8.87	9.14	9.14	9.14	8.96	8.87	8.87	8.70	9.94	8.37		8.90	9.08	8.82
Britt, Jamal (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Meeting de Paris (Paris, FRA)			Omega Timing (2023) - diamond league race analysis															
date	09-Jun-23	time	2.37	3.43	4.46	5.46	6.47	7.47	8.48	9.50	10.52	11.57		13.14	5 / 3			
reaction time	0.141	interval	7 steps	1.06	1.03	1.00	1.01	1.00	1.01	1.02	1.02	1.05	1.57			3.09	3.02	3.09
wind	-0.5 m/s	velocity	5.79	8.62	8.87	9.14	9.05	9.14	9.05	8.96	8.96	8.70	8.93	8.37		8.87	9.08	8.87
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Meeting de Paris (Paris, FRA)			Omega Timing (2023) - diamond league race analysis															
date	09-Jun-23	time	2.30	3.34	4.34	5.34	6.35	7.39	8.42	9.46	10.49	11.54		13.14	4 / 3			
reaction time	0.154	interval		1.04	1.00	1.00	1.01	1.04	1.03	1.04	1.03	1.05	1.60			3.04	3.08	3.12
wind	-0.5 m/s	velocity	5.97	8.79	9.14	9.14	9.05	8.79	8.87	8.79	8.87	8.70	8.76	8.37		9.02	8.90	8.79
Bascou, Dimitri (FRA) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 French National Championships (Albi, FRA) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date	29-Jul-23	time	2.54	3.58	4.58	5.56	6.54	7.54	8.54	9.58	10.66	11.70		13.14	3 / 2			
reaction time	0.162	interval	7 steps	1.04	1.00	0.98	0.98	1.00	1.00	1.04	1.08	1.04	1.44			3.02	2.98	3.16
wind	5.3 m/s	velocity	5.40	8.79	9.14	9.33	9.33	9.14	9.14	8.79	8.46	8.79	9.74	8.37		9.08	9.20	8.68
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	24-Jun-24	time	2.47	3.53	4.57	5.56	6.56	7.56	8.58	9.62	10.66	11.72		13.14	5 / 2			
reaction time		interval	7 steps	1.06	1.04	0.99	1.00	1.00	1.02	1.04	1.04	1.06	1.42			3.09	3.02	3.14
wind	1.2 m/s	velocity	5.55	8.62	8.79	9.23	9.14	9.14	8.96	8.79	8.79	8.62	9.87	8.37		8.87	9.08	8.73

Holloway, Grant (USA) (1997)**FINAL** - 2024 Athletissima (Lausanne, SUI)*Omega Timing (2024) - diamond league race analysis*

date	22-Aug-24	time	2.32	3.35	4.34	5.32	6.31	7.30	8.31	9.34	10.41	11.51		13.14	6 / 2			
reaction time	0.146	interval	7 steps	1.03	0.99	0.98	0.99	0.99	1.01	1.03	1.07	1.10	1.63			3.00	2.99	3.20
wind	-0.1 m/s	velocity	5.91	8.87	9.23	9.33	9.23	9.23	9.05	8.87	8.54	8.31	8.60	8.37		9.14	9.17	8.57

Muratake, Rachid (JPN) (2002)**FINAL** - 2025 Xiamen Diamond League (Xiamen, CHN)*Omega Timing (2025) - diamond league race analysis*

date	26-Apr-25	time	2.40	3.47	4.48	5.47	6.48	7.48	8.49	9.52	10.55	11.60		13.14	3 / 2			
reaction time	0.167	interval	7 steps	1.07	1.01	0.99	1.01	1.00	1.01	1.03	1.03	1.05	1.54			3.07	3.02	3.11
wind	0.3 m/s	velocity	5.72	8.54	9.05	9.23	9.05	9.14	9.05	8.87	8.87	8.70	9.10	8.37		8.93	9.08	8.82

Garcia, Anier (CUB) (1976)**FINAL** - 2001 ISTAF (Berlin, GER)*Graubner (2009) - <http://www.fgs.uni-halle.de>*

date	31-Aug-09	time	2.57	3.60	4.61	5.60	6.61	7.64	8.66	9.68	10.69	11.76		13.15	5 / 2			
reaction time	0.168	interval		1.03	1.01	0.99	1.01	1.03	1.02	1.02	1.01	1.07	1.39			3.03	3.06	3.10
wind	1.0 m/s	velocity	5.34	8.87	9.05	9.23	9.05	8.87	8.96	8.96	9.05	8.54	10.09	8.37		9.05	8.96	8.85

Ames, Brendan (USA) (1988)**FINAL** - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm)*USATF Men's Hurdle Development (2007)*

date	21-Jun-07	time	2.59	3.67	4.70	5.69	6.67	7.66	8.64	9.63	10.64	11.68		13.15	/ 1			
reaction time		interval		1.08	1.03	0.99	0.98	0.99	0.98	0.99	1.01	1.04	1.47			3.10	2.95	3.04
wind	2.7 m/s	velocity	5.30	8.46	8.87	9.23	9.33	9.23	9.33	9.23	9.05	8.79	9.54	8.37		8.85	9.29	9.02

Trammell, Terrence (USA) (1978)**FINAL** - 2007 IAAF World Athletics Final (Stuttgart, GER)*Graubner (2007) - <http://www.fgs.uni-halle.de>*

date	23-Sep-07	time	2.53	3.57	4.59	5.58	6.59	7.61	8.63	9.67	10.71	11.75		13.15	3 / 3			
reaction time	0.140	interval		1.04	1.02	0.99	1.01	1.02	1.02	1.04	1.04	1.04	1.40			3.05	3.05	3.12
wind	0.0 m/s	velocity	5.42	8.79	8.96	9.23	9.05	8.96	8.96	8.79	8.79	8.79	10.01	8.37		8.99	8.99	8.79

Trammell, Terrence (USA) (1978)**FINAL** - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	20-Aug-09	time	2.56	3.60	4.61	5.60	6.60	7.62	8.63	9.66	10.71	11.77		13.15	5 / 2			
reaction time	0.141	interval		1.04	1.01	0.99	1.00	1.02	1.01	1.03	1.05	1.06	1.38			3.04	3.03	3.14
wind	0.1 m/s	velocity	5.36	8.79	9.05	9.23	9.14	8.96	9.05	8.87	8.70	8.62	10.16	8.37		9.02	9.05	8.73

Payne, David (USA) (1982)**FINAL** - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	20-Aug-09	time	2.54	3.58	4.61	5.61	6.62	7.64	8.66	9.69	10.74	11.78		13.15	3 / 3			
reaction time	0.122	interval		1.04	1.03	1.00	1.01	1.02	1.02	1.03	1.05	1.04	1.37			3.07	3.05	3.12
wind	0.1 m/s	velocity	5.40	8.79	8.87	9.14	9.05	8.96	8.96	8.87	8.70	8.79	10.23	8.37		8.93	8.99	8.79

Ortega, Orlando (ESP) (1991)**FINAL** - 2017 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	13-May-17	time	2.50	3.56	4.58	5.58	6.58	7.58	8.60	9.60	10.64	11.70		13.15	6 / 2			
reaction time	0.136	interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.02	1.00	1.04	1.06	1.45			3.08	3.02	3.10
wind	0.5 m/s	velocity	5.49	8.62	8.96	9.14	9.14	9.14	8.96	9.14	8.79	8.62	9.67	8.37		8.90	9.08	8.85

Darien, Garfield (FRA) (1987)**FINAL** - 2017 Meeting de Paris (Paris, FRA) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	01-Jul-17	time	2.50	3.54	4.56	5.56	6.54	7.58	8.58	9.60	10.62	11.68		13.15	7 / 3			
reaction time	0.121	interval	7 steps	1.04	1.02	1.00	0.98	1.04	1.00	1.02	1.02	1.06	1.47			3.06	3.02	3.10
wind	-0.1 m/s	velocity	5.49	8.79	8.96	9.14	9.33	8.79	9.14	8.96	8.96	8.62	9.54	8.37		8.96	9.08	8.85

Baji, Balázs (HUN) (1989)**FINAL** - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	04-Jul-17	time	2.50	3.56	4.56	5.56	6.56	7.56	8.58	9.58	10.62	11.66		13.15	2 / 4			
reaction time	0.139	interval	7 steps	1.06	1.00	1.00	1.00	1.00	1.02	1.00	1.04	1.04	1.49	NR PB		3.06	3.02	3.08
wind	0.3 m/s	velocity	5.49	8.62	9.14	9.14	9.14	9.14	8.96	9.14	8.79	8.79	9.41	8.37		8.96	9.08	8.90

Ortega, Orlando (ESP) (1991)**Heat 5** - 2019 IAAF World Championships (Doha, QAT)*Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season*

date	30-Sep-19	time	2.58	3.63	4.63	5.63	6.63	7.64	8.63	9.66	10.68	11.74		13.15	9 / 1			
reaction time	0.140	interval	7 steps	1.05	1.00	1.00	1.00	1.01	0.99	1.03	1.02	1.06	1.41			3.05	3.00	3.11
wind	-0.5 m/s	velocity	5.32	8.70	9.14	9.14	9.14	9.05	9.23	8.87	8.96	8.62	9.94	8.37		8.99	9.14	8.82

Shubenkov, Sergey (ANA) (1990)**FINAL** - 2019 IAAF World Championships (Doha, QAT)*CAA Hurdle Development (2019)*

date	20-Sep-19	time	2.58	3.63	4.63	5.63	6.63	7.64	8.63	9.66	10.68	11.74		13.15	9 / 1			
reaction time	0.140	interval	7 steps	1.05	1.00	1.00	1.00	1.01	0.99	1.03	1.02	1.06	1.41			3.05	3.00	3.11
wind	-0.5 m/s	velocity	5.32	8.70	9.14	9.14	9.14	9.05	9.23	8.87	8.96	8.62	9.94	8.37		8.99	9.14	8.82

date	02-Oct-19	time	2.62	3.66	4.66	5.66	6.65	7.66	8.67	9.68	10.74	11.79	13.15	9 / 2				
reaction time	0.150	interval	7 steps	1.04	1.00	1.00	0.99	1.01	1.01	1.01	1.06	1.05	1.36		3.04	3.01	3.12	
wind	0.6 m/s	velocity	5.24	8.79	9.14	9.14	9.23	9.05	9.05	9.05	8.62	8.70	10.31	8.37	9.02	9.11	8.79	
Ortega, Orlando (ESP) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)														Henson (2020) - Athlete First: 2020 year end hurdle report				
date	03-Sep-20	time	2.49	3.55	4.61	5.59	6.60	7.57	8.55	9.62	10.67	11.70	13.15	5 / 1				
reaction time	0.214	interval	7 steps	1.06	1.06	0.98	1.01	0.97	0.98	1.07	1.05	1.03	1.45		3.10	2.96	3.15	
wind	-0.3 m/s	velocity	5.51	8.62	8.62	9.33	9.05	9.42	9.33	8.54	8.70	8.87	9.67	8.37	8.85	9.26	8.70	
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														Henson (2020) - Athlete First: 2020 year end hurdle report				
date	17-Sep-20	time	2.50	3.54	4.52	5.52	6.52	7.52	8.54	9.58	10.62	11.68	13.15	4 / 1				
reaction time	0.128	interval	7 steps	1.04	0.98	1.00	1.00	1.00	1.02	1.04	1.04	1.06	1.47		3.02	3.02	3.14	
wind	0.1 m/s	velocity	5.49	8.79	9.33	9.14	9.14	9.14	8.96	8.79	8.79	8.62	9.54	8.37	9.08	9.08	8.73	
Mallett, Aaron (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)														Henson (2020) - Athlete First: 2020 year end hurdle report				
date	25-Sep-20	time	2.46	3.50	4.52	5.52	6.52	7.54	8.56	9.58	10.60	11.64	13.15	4 / 1				
reaction time	0.149	interval		1.04	1.02	1.00	1.00	1.02	1.02	1.02	1.02	1.04	1.51	PB	3.06	3.04	3.08	
wind	0.3 m/s	velocity	5.58	8.79	8.96	9.14	9.14	8.96	8.96	8.96	8.96	8.79	9.28	8.37	8.96	9.02	8.90	
Ortega, Orlando (ESP) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)														Henson (2021) - Athlete First: 2021 year end hurdle report				
date	06-Jul-21	time	2.47	3.50	4.54	5.54	6.54	7.54	8.56	9.57	10.58	11.63	13.15	5 / 2				
reaction time	0.134	interval	7 steps	1.03	1.04	1.00	1.00	1.00	1.02	1.01	1.01	1.05	1.52		3.07	3.02	3.07	
wind	-0.1 m/s	velocity	5.55	8.87	8.79	9.14	9.14	9.14	8.96	9.05	9.05	8.70	9.22	8.37	8.93	9.08	8.93	
Edwards Jr., Eric (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)														Henson (2022) - Athlete First: 2022 year end hurdle report				
date	10-Jun-22	time	2.44	3.47	4.47	5.46	6.46	7.46	8.47	9.49	10.53	11.61	13.15	6 / 2				
reaction time		interval		1.03	1.00	0.99	1.00	1.00	1.01	1.02	1.04	1.08	1.54	PB	3.02	3.01	3.14	
wind	0.0 m/s	velocity	5.62	8.87	9.14	9.23	9.14	9.14	9.05	8.96	8.79	8.46	9.10	8.37	9.08	9.11	8.73	
Zhoya, Sasha (FRA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														Henson (2023) - Athlete First: 2023 year end hurdle report				
date	21-Aug-23	time	2.50	3.53	4.56	5.56	6.58	7.58	8.62	9.64	10.66	11.73	13.15	7 / 2				
reaction time	0.129	interval	7 steps	1.03	1.03	1.00	1.02	1.00	1.04	1.02	1.02	1.07	1.42	PB	3.06	3.06	3.11	
wind	-0.2 m/s	velocity	5.49	8.87	8.87	9.14	8.96	9.14	8.79	8.96	8.96	8.54	9.87	8.37	8.96	8.96	8.82	
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Prefontaine Classic (Eugene, OR)														Omega Timing (2023) - diamond league race analysis				
date	17-Sep-23	time	2.39	3.45	4.46	5.46	6.47	7.47	8.47	9.49	10.54	11.60	13.15	4 / 6				
reaction time	0.146	interval		1.06	1.01	1.00	1.01	1.00	1.00	1.02	1.05	1.06	1.55		3.07	3.01	3.13	
wind	0.9 m/s	velocity	5.74	8.62	9.05	9.14	9.05	9.14	9.14	8.96	8.70	8.62	9.05	8.37	8.93	9.11	8.76	
Scott, Ja'Qualon (USA) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														Henson (2024) - Athlete First: 2024 year end hurdle report				
date	24-Jun-24	time	2.55	3.60	4.63	5.66	6.66	7.66	8.65	9.68	10.73	11.80	13.15	2 / 3				
reaction time		interval	7 steps	1.05	1.03	1.03	1.00	1.00	0.99	1.03	1.05	1.07	1.35	PB	3.11	2.99	3.15	
wind	1.2 m/s	velocity	5.38	8.70	8.87	8.87	9.14	9.14	9.23	8.87	8.70	8.54	10.39	8.37	8.82	9.17	8.70	
Murray, Cameron (USA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														Henson (2024) - Athlete First: 2024 year end hurdle report				
date	28-Jun-24	time	2.56	3.60	4.61	5.63	6.64	7.65	8.66	9.68	10.72	11.76	13.15	1 / 6				
reaction time		interval	7 steps	1.04	1.01	1.02	1.01	1.01	1.01	1.02	1.04	1.04	1.39	PB	3.07	3.03	3.10	
wind	2.0 m/s	velocity	5.36	8.79	9.05	8.96	9.05	9.05	9.05	8.96	8.79	8.79	10.09	8.37	8.93	9.05	8.85	
Muratake, Rachid (JPN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2024 Meeting de Paris (Paris, FRA)														Omega Timing (2024) - diamond league race analysis				
date	07-Jul-24	time	2.41	3.46	4.47	5.48	6.48	7.49	8.51	9.54	10.59	11.64	13.15	6 / 1				
reaction time	0.149	interval	7 steps	1.05	1.01	1.01	1.00	1.01	1.02	1.03	1.05	1.05	1.51		3.07	3.03	3.13	
wind	0.1 m/s	velocity	5.69	8.70	9.05	9.05	9.14	9.05	8.96	8.87	8.70	8.70	9.28	8.37	8.93	9.05	8.76	
Zhoya, Sasha (FRA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Meeting de Paris (Paris, FRA)														Omega Timing (2024) - diamond league race analysis				
date	07-Jul-24	time	2.40	3.44	4.46	5.45	6.45	7.45	8.47	9.50	10.53	11.58	13.15	8 / 1				
reaction time	0.142	interval	7 steps	1.04	1.02	0.99	1.00	1.00	1.02	1.03	1.03	1.05	1.57	=PB	3.05	3.02	3.11	
wind	-0.6 m/s	velocity	5.72	8.79	8.96	9.23	9.14	9.14	8.96	8.87	8.87	8.70	8.93	8.37	8.99	9.08	8.82	
Cunningham, Trey (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Meeting de Paris (Paris, FRA)														Omega Timing (2024) - diamond league race analysis				
date	07-Jul-24	time	2.35	3.38	4.39	5.38	6.39	7.41	8.43	9.46	10.52	11.59	13.15	5 / 2				

reaction time	0.148	interval	7 steps	1.03	1.01	0.99	1.01	1.02	1.02	1.03	1.06	1.07	1.56			3.03	3.05	3.16
wind	-0.6 m/s	velocity	5.84	8.87	9.05	9.23	9.05	8.96	8.96	8.87	8.62	8.54	8.99	8.37		9.05	8.99	8.68

Crittenden, Freddie (USA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Weltklasse (Zürich, SUI)													Omega Timing (2024) - diamond league race analysis					
date	05-Sep-24	time	2.39	3.44	4.44	5.44	6.45	7.47	8.49	9.50	10.54	11.59	13.15	7 / 3				
reaction time	0.127	interval		1.05	1.00	1.00	1.01	1.02	1.02	1.01	1.04	1.05	1.56			3.05	3.05	3.10
wind	-0.3 m/s	velocity	5.74	8.70	9.14	9.14	9.05	8.96	8.96	9.05	8.79	8.70	8.99	8.37		8.99	8.99	8.85

Richardson, Jason (USA) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)													Henson (2021) - Athlete First: major championships report				
date	29-Aug-11	time	2.50	3.53	4.55	5.54	6.54	7.54	8.55	9.57	10.61	11.66	13.16	3 / ~~2~~ 1			
reaction time	0.178	interval	7 steps	1.03	1.02	0.99	1.00	1.00	1.01	1.02	1.04	1.05	1.50		3.04	3.01	3.11
wind	-1.1 m/s	velocity	5.49	8.87	8.96	9.23	9.14	9.14	9.05	8.96	8.79	8.70	9.35	8.36	9.02	9.11	8.82

Richardson, Jason (USA) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Golden Grand Prix (Shanghai, CHN) (TV Analysis)												Henson (2020) - Athlete First: 2012 Aries Merritt world record season						
date	19-May-12	time	2.48	3.52	4.54	5.54	6.52	7.54	8.56	9.56	10.60	11.66	13.16	4 / 3				
reaction time	0.168	interval	7 steps	1.04	1.02	1.00	0.98	1.02	1.02	1.00	1.04	1.06	1.50			3.06	3.02	3.10
wind	0.4 m/s	velocity	5.53	8.79	8.96	9.14	9.33	8.96	8.96	9.14	8.79	8.62	9.35	8.36		8.96	9.08	8.85

Oliver, David (USA) (1982)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)													Henson (2020) - Athlete First: 2016 year end hurdle report				
date	06-May-16	time	2.52	3.56	4.56	5.56	6.58	7.60	8.62	9.64	10.68	11.76	13.16	3 / 4			
reaction time	0.140	interval	7 steps	1.04	1.00	1.00	1.02	1.02	1.02	1.02	1.04	1.08	1.40		3.04	3.06	3.14
wind	1.4 m/s	velocity	5.44	8.79	9.14	9.14	8.96	8.96	8.96	8.96	8.79	8.46	10.01	8.36	9.02	8.96	8.73

McLeod, Omar (JAM) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)												Henson (2020) - Athlete First: 2018 year end hurdle report						
date	12-May-18	time	2.52	3.58	4.60	5.60	6.60	7.62	8.64	9.66	10.68	11.74		13.16	5 / 1			
reaction time	0.119	interval		1.06	1.02	1.00	1.00	1.02	1.02	1.02	1.02	1.06	1.42			3.08	3.04	3.10
wind	0.2 m/s	velocity	5.44	8.62	8.96	9.14	9.14	8.96	8.96	8.96	8.96	8.62	9.87	8.36		8.90	9.02	8.85

Thomas, Damion (JAM) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN) (99cm)										Koyama (2018) - research on athlete performance and technique- 2018 data book							
date	12-Jul-18	time	2.58	3.63	4.66	5.69	6.70	7.76	8.79	9.86	10.92	11.98	13.16	6 / 1			
reaction time	0.186	interval		1.05	1.03	1.03	1.01	1.06	1.03	1.07	1.06	1.06	1.18		3.11	3.10	3.19
wind	0.3 m/s	velocity	5.32	8.70	8.87	8.87	9.05	8.62	8.87	8.54	8.62	8.62	11.88	8.36	8.82	8.85	8.60

Ortega, Orlando (ESP) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)														CAA Hurdle Development (2019)			
date	02-Oct-19	time	2.58	3.63	4.63	5.67	6.66	7.67	8.68	9.69	10.74	11.77	13.16	4 / 1			
reaction time	0.131	interval	7 steps	1.05	1.00	1.04	0.99	1.01	1.01	1.01	1.05	1.03	1.39		3.09	3.01	3.09
wind	0.6 m/s	velocity	5.32	8.70	9.14	8.79	9.23	9.05	9.05	9.05	8.70	8.87	10.09	8.36	8.87	9.11	8.87

Kanai, Taio (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)												Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season						
date	29-Apr-21	time	2.51	3.54	4.55	5.56	6.58	7.60	8.62	9.67	10.70	11.75	13.16	4 / 1				
reaction time		interval	7 steps	1.03	1.01	1.01	1.02	1.02	1.02	1.05	1.03	1.05	1.41	NR PB		3.05	3.06	3.13
wind	1.7 m/s	velocity	5.47	8.87	9.05	9.05	8.96	8.96	8.96	8.70	8.87	8.70	9.94	8.36		8.99	8.96	8.76

Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report						
date	06-Aug-21	time	2.48	3.52	4.54	5.54	6.54	7.56	8.56	9.58	10.62	11.70		13.16	8 / 5				
reaction time	0.120	interval	7 steps	1.04	1.02	1.00	1.00	1.02	1.00	1.02	1.04	1.08	1.46				3.06	3.02	3.14
wind	-0.5 m/s	velocity	5.53	8.79	8.96	9.14	9.14	8.96	9.14	8.96	8.79	8.46	9.60	8.36			8.96	9.08	8.73

Roberts, Daniel (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report				
date	28-Aug-21	time	2.46	3.50	4.52	5.54	6.52	7.56	8.58	9.58	10.62	11.68	13.16	2 / 3			
reaction time	0.169	interval		1.04	1.02	1.02	0.98	1.04	1.02	1.00	1.04	1.06	1.48		3.08	3.04	3.10
wind	0.7 m/s	velocity	5.58	8.79	8.96	8.96	9.33	8.79	8.96	9.14	8.79	8.62	9.47	8.36	8.90	9.02	8.85

Allen, Devon (USA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report					
date	18-Jun-22	time	2.50	3.54	4.56	5.56	6.56	7.60	8.60	9.64	10.70	11.76	13.16	5 / 1				
reaction time	0.138	interval	7 steps	1.04	1.02	1.00	1.00	1.04	1.00	1.04	1.06	1.06	1.40			3.06	3.04	3.16
wind	-0.2 m/s	velocity	5.49	8.79	8.96	9.14	9.14	8.79	9.14	8.79	8.62	8.62	10.01	8.36		8.96	9.02	8.68

Izumiya, Shunsuke (JPN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)												Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season						
date	21-Aug-23	time	2.56	3.63	4.63	5.65	6.68	7.70	8.72	9.75	10.76	11.83	13.16	6 / 1				
reaction time	0.129	interval	7 steps	1.07	1.00	1.02	1.03	1.02	1.02	1.03	1.01	1.07	1.33			3.09	3.07	3.11

wind	-0.2 m/s	velocity	5.36	8.54	9.14	8.96	8.87	8.96	8.96	8.87	9.05	8.54	10.54	8.36		8.87	8.93	8.82	
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 World Athletics Championships (Budapest, HUN)			Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season																
date	21-Aug-23	time	2.54	3.57	4.59	5.59	6.61	7.62	8.64	9.68	10.71	11.76		13.16	4 / 4		3.05	3.05	3.12
reaction time	0.140	interval		1.03	1.02	1.00	1.02	1.01	1.02	1.04	1.03	1.05	1.40				8.99	8.99	8.79
wind	0.0 m/s	velocity	5.40	8.87	8.96	9.14	8.96	9.05	8.96	8.79	8.87	8.70	10.01	8.36					
Tinch, Cordell (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)			Omega Timing (2024) - diamond league race analysis																
date	20-Apr-24	time	2.44	3.48	4.49	5.50	6.50	7.50	8.51	9.53	10.57	11.63		13.16	3 / 2		3.06	3.01	3.12
reaction time	0.176	interval	7 steps	1.04	1.01	1.01	1.00	1.00	1.01	1.02	1.04	1.06	1.53				8.96	9.11	8.79
wind	-0.3 m/s	velocity	5.62	8.79	9.05	9.05	9.14	9.14	9.05	8.96	8.79	8.62	9.16	8.36					
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Prefontaine Classic (Eugene, OR)			Omega Timing (2024) - diamond league race analysis																
date	25-May-24	time	2.42	3.47	4.48	5.47	6.47	7.48	8.50	9.53	10.57	11.62		13.16	8 / 3		3.05	3.03	3.12
reaction time	0.140	interval		1.05	1.01	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.54				8.99	9.05	8.79
wind	-0.1 m/s	velocity	5.67	8.70	9.05	9.23	9.14	9.05	8.96	8.87	8.79	8.70	9.10	8.36					
Llopis, Enrique (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)			Henson (2024) - Athlete First: 2024 year end hurdle report																
date	08-Jun-24	time	2.57	3.58	4.58	5.59	6.58	7.59	8.60	9.62	10.65	11.75		13.16	7 / 2		3.02	3.01	3.15
reaction time	0.144	interval	7 steps	1.01	1.00	1.01	0.99	1.01	1.01	1.02	1.03	1.10	1.41	PB			9.08	9.11	8.70
wind	0.6 m/s	velocity	5.34	9.05	9.14	9.05	9.23	9.05	9.05	8.96	8.87	8.31	9.94	8.36					
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)			Henson (2024) - Athlete First: 2024 year end hurdle report																
date	24-Jun-24	time	2.56	3.58	4.58	5.58	6.60	7.60	8.63	9.64	10.67	11.72		13.16	2 / 1		3.02	3.05	3.09
reaction time		interval		1.02	1.00	1.00	1.02	1.00	1.03	1.01	1.03	1.05	1.44				9.08	8.99	8.87
wind	-0.3 m/s	velocity	5.36	8.96	9.14	9.14	8.96	9.14	8.87	9.05	8.87	8.70	9.74	8.36					
Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Meeting de Paris (Paris, FRA)			Omega Timing (2024) - diamond league race analysis																
date	07-Jul-24	time	2.32	3.37	4.40	5.44	6.47	7.48	8.49	9.50	10.53	11.59		13.16	6 / 3		3.12	3.05	3.10
reaction time	0.145	interval	7 steps	1.05	1.03	1.04	1.03	1.01	1.01	1.01	1.03	1.06	1.57				8.79	8.99	8.85
wind	-0.6 m/s	velocity	5.91	8.70	8.87	8.79	8.87	9.05	9.05	9.05	8.87	8.62	8.93	8.36					
Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2024 Meeting de Paris (Paris, FRA)			Omega Timing (2024) - diamond league race analysis																
date	07-Jul-24	time	2.36	3.43	4.45	5.46	6.47	7.50	8.52	9.54	10.58	11.61		13.16	7 / 1		3.10	3.06	3.09
reaction time	0.137	interval	7 steps	1.07	1.02	1.01	1.01	1.03	1.02	1.02	1.04	1.03	1.55				8.85	8.96	8.87
wind	0.4 m/s	velocity	5.81	8.54	8.96	9.05	9.05	8.87	8.96	8.96	8.79	8.87	9.05	8.36					
Zhoya, Sasha (FRA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Memorial van damme (Brussels, BEL)			Omega Timing (2024) - diamond league race analysis																
date	13-Sep-24	time	2.43	3.48	4.50	5.50	6.50	7.51	8.54	9.56	10.59	11.63		13.16	6 / 1		3.07	3.04	3.09
reaction time	0.150	interval	7 steps	1.05	1.02	1.00	1.00	1.01	1.03	1.02	1.03	1.04	1.53				8.93	9.02	8.87
wind	0.4 m/s	velocity	5.65	8.70	8.96	9.14	9.14	9.05	8.87	8.96	8.87	8.79	9.16	8.36					
Schwarthoff, Florian (GER) (1968)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1996 Olympic Games (Atlanta, GA)			Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																
date	26-Jul-96	time	2.38	3.46	4.44	5.43	6.44	7.44	8.44	9.49	10.54	11.61		13.17	3 / 3		3.05	3.01	3.17
reaction time	0.164	interval	7 steps	1.08	0.98	0.99	1.01	1.00	1.00	1.05	1.05	1.07	1.56				8.99	9.11	8.65
wind	0.8 m/s	velocity	5.76	8.46	9.33	9.23	9.05	9.14	9.14	8.70	8.70	8.54	8.99	8.35					
Liu Xiang (CHN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2003 Athletissima Meeting (Lausanne, SUI)			Xu (2004) - an analysis of Liu Xiang's technique in 100m hurdle final at the Athens Olympic Games																
date	01-Jul-03	time	2.57	3.61	4.63	5.63	6.65	7.65	8.67	9.69	10.73	11.79		13.17	1 / 3		3.06	3.04	3.12
reaction time		interval		1.04	1.02	1.00	1.02	1.00	1.02	1.02	1.04	1.06	1.38				8.96	9.02	8.79
wind	0.0 m/s	velocity	5.34	8.79	8.96	9.14	8.96	9.14	8.96	8.96	8.79	8.62	10.16	8.35					
Arnold, Dominique (USA) (1973)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2007)																
date	24-Jun-07	time	2.62	3.67	4.70	5.69	6.69	7.69	8.69	9.69	10.71	11.73		13.17	5 / 2		3.07	3.00	3.04
reaction time		interval		1.05	1.03	0.99	1.00	1.00	1.00	1.00	1.02	1.02	1.44				8.93	9.14	9.02
wind	0.5 m/s	velocity	5.24	8.70	8.87	9.23	9.14	9.14	9.14	9.14	8.96	8.96	9.74	8.35					
Payne, David (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2008 Olympic Games (Beijing, CHN)			Tsiokanos (2018) - race pattern of men's 110m hurdles- time analysis of olympic hurdle performance																
date	21-Aug-08	time	2.58	3.62	4.64	5.65	6.68	7.67	8.69	9.73	10.76	11.80		13.17	5 / 2		3.07	3.04	3.11
reaction time	0.175	interval		1.04	1.02	1.01	1.03	0.99	1.02	1.04	1.03	1.04	1.37				8.93	9.02	8.82
wind	0.1 m/s	velocity	5.32	8.79	8.96	9.05	8.87	9.23	8.96	8.79	8.87	8.79	10.23	8.35					

Oliver, David (USA) (1982)																
FINAL	- 2012 USA Olympic Trials (Eugene, OR)															
date	30-Jun-12	time	2.43	3.45	4.47	5.47	6.45	7.44	8.44	9.45	10.51	11.58		13.17	3 / 5	
reaction time	0.165	interval	7 steps	1.02	1.02	1.00	0.98	0.99	1.00	1.01	1.06	1.07	1.59		3.04	2.97
wind	1.2 m/s	velocity	5.65	8.96	8.96	9.14	9.33	9.23	9.14	9.05	8.62	8.54	8.82	8.35	9.02	9.23
Thomas, Mikel (TTO) (1987)																
FINAL	- 2015 Pan American Games (Toronto, CAN)															
date	24-Jul-15	time	2.57	3.62	4.63	5.64	6.65	7.66	8.69	9.71	10.75	11.83		13.17	8 / 2	
reaction time	0.160	interval	7 steps	1.05	1.01	1.01	1.01	1.01	1.03	1.02	1.04	1.08	1.34	NR	3.07	3.05
wind	0.8 m/s	velocity	5.34	8.70	9.05	9.05	9.05	9.05	8.87	8.96	8.79	8.46	10.46	8.35	8.93	8.99
Martinot Lagarde, Pascal (FRA) (199)																
FINAL	- 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)															
date	28-Aug-15	time	2.48	3.52	4.56	5.56	6.56	7.56	8.56	9.60	10.64	11.72		13.17	2 / 4	
reaction time	0.150	interval	7 steps	1.04	1.04	1.00	1.00	1.00	1.00	1.04	1.04	1.08	1.45		3.08	3.00
wind	0.2 m/s	velocity	5.53	8.79	8.79	9.14	9.14	9.14	9.14	8.79	8.79	8.46	9.67	8.35	8.90	9.14
Bascou, Dimitri (FRA) (1987)																
FINAL	- 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)															
date	28-Aug-15	time	2.48	3.50	4.52	5.56	6.56	7.58	8.60	9.64	10.68	11.72		13.17	5 / 5	
reaction time	0.137	interval	7 steps	1.02	1.02	1.04	1.00	1.02	1.02	1.04	1.04	1.04	1.45		3.08	3.04
wind	0.2 m/s	velocity	5.53	8.96	8.96	8.79	9.14	8.96	8.96	8.79	8.79	8.79	9.67	8.35	8.90	9.02
Martinot Lagarde, Pascal (FRA) (199)																
FINAL	- 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)															
date	15-Jul-16	time	2.44	3.50	4.52	5.54	6.56	7.56	8.56	9.58	10.60	11.68		13.17	4 / 3	
reaction time	0.132	interval	7 steps	1.06	1.02	1.02	1.02	1.00	1.00	1.02	1.02	1.08	1.49		3.10	3.02
wind	0.0 m/s	velocity	5.62	8.62	8.96	8.96	8.96	9.14	9.14	8.96	8.96	8.46	9.41	8.35	8.85	9.08
Ortega, Orlando (ESP) (1991)																
FINAL	- 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)															
date	16-Aug-16	time	2.56	3.62	4.64	5.64	6.64	7.64	8.64	9.68	10.70	11.74		13.17	7 / 2	
reaction time	0.127	interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.00	1.04	1.02	1.04	1.43		3.08	3.00
wind	0.2 m/s	velocity	5.36	8.62	8.96	9.14	9.14	9.14	9.14	8.79	8.96	8.79	9.80	8.35	8.90	9.14
Ortega, Orlando (ESP) (1991)																
FINAL	- 2017 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)															
date	08-Jun-17	time	2.58	3.62	4.64	5.66	6.68	7.66	8.68	9.70	10.72	11.76		13.17	6 / 2	
reaction time	0.152	interval	7 steps	1.04	1.02	1.02	1.02	0.98	1.02	1.02	1.02	1.04	1.41		3.08	3.02
wind	-0.3 m/s	velocity	5.32	8.79	8.96	8.96	8.96	9.33	8.96	8.96	8.96	8.79	9.94	8.35	8.90	9.08
Darien, Garfield (FRA) (1987)																
Semi-Final 1	- 2017 IAAF World Championships (London, GBR)															
date	06-Aug-17	time	2.34	3.39	4.41	5.43	6.45	7.45	8.45	9.48	10.52	11.57		13.17	6 / 2	
reaction time	0.125	interval	7 steps	1.05	1.02	1.02	1.02	1.00	1.00	1.03	1.04	1.05	1.60		3.09	3.02
wind	0.2 m/s	velocity	5.86	8.70	8.96	8.96	8.96	9.14	9.14	8.87	8.79	8.70	8.76	8.35	8.87	9.08
Ortega, Orlando (ESP) (1991)																
FINAL	- 2017 Memorial van Damme (Brussels, BEL) (TV Analysis)															
date	01-Sep-17	time	2.54	3.62	4.62	5.62	6.62	7.64	8.64	9.66	10.68	11.72		13.17	7 / 2	
reaction time	0.102	interval	7 steps	1.08	1.00	1.00	1.00	1.02	1.00	1.02	1.02	1.04	1.45		3.08	3.02
wind	0.5 m/s	velocity	5.40	8.46	9.14	9.14	9.14	8.96	9.14	8.96	8.96	8.79	9.67	8.35	8.90	9.08
Ortega, Orlando (ESP) (1991)																
FINAL	- 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)															
date	12-May-18	time	2.52	3.58	4.60	5.60	6.62	7.64	8.64	9.64	10.68	11.72		13.17	8 / 2	
reaction time	0.135	interval	7 steps	1.06	1.02	1.00	1.02	1.02	1.00	1.00	1.04	1.04	1.45		3.08	3.04
wind	0.2 m/s	velocity	5.44	8.62	8.96	9.14	8.96	8.96	9.14	9.14	8.79	8.79	9.67	8.35	8.90	9.02
Ortega, Orlando (ESP) (1991)																
FINAL	- 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)															
date	26-May-18	time	2.54	3.60	4.62	5.62	6.62	7.64	8.64	9.66	10.66	11.72		13.17	5 / 4	
reaction time	0.158	interval	7 steps	1.06	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.06	1.45		3.08	3.02
wind	3.0 m/s	velocity	5.40	8.62	8.96	9.14	9.14	8.96	9.14	8.96	9.14	8.62	9.67	8.35	8.90	9.08
Xie Wenjun (CHN) (1990)																
FINAL	- 2019 Shanghai Diamond League (Shanghai, CHN)															
date	18-May-19	time	2.58	3.62	4.62	5.64	6.62	7.64	8.64	9.68	10.70	11.78		13.17	3 / 2	
reaction time	0.145	interval	7 steps	1.04	1.00	1.02	0.98	1.02	1.00	1.04	1.02	1.08	1.39	PB	3.06	3.00
wind	0.7 m/s	velocity	5.32	8.79	9.14	8.96	9.33	8.96	9.14	8.79	8.96	8.46	10.09	8.35	8.96	9.14

Crittenden, Freddie (USA) (1994)																
FINAL - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)																
date	24-Aug-19	time	2.52	3.54	4.56	5.56	6.56	7.58	8.58	9.62	10.66	11.70		13.17	1 / 3	
reaction time	0.150	interval		1.02	1.02	1.00	1.00	1.02	1.00	1.04	1.04	1.04	1.47	PB	3.04	3.02
wind	0.8 m/s	velocity	5.44	8.96	8.96	9.14	9.14	8.96	9.14	8.79	8.79	8.79	9.54	8.35	9.02	8.79
McLeod, Omar (JAM) (1994)																
Heat 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)																
date	30-Sep-19	time	2.52	3.54	4.56	5.56	6.58	7.60	8.62	9.66	10.70	11.76		13.17	9 / 1	
reaction time	0.132	interval		1.02	1.02	1.00	1.02	1.02	1.02	1.04	1.04	1.06	1.41		3.04	3.06
wind	0.2 m/s	velocity	5.44	8.96	8.96	9.14	8.96	8.96	8.96	8.79	8.79	8.62	9.94	8.35	9.02	8.73
Pozzi, Andy (GBR) (1992)																
FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)																
date	11-Aug-20	time	2.57	3.57	4.57	5.57	6.57	7.57	8.59	9.61	10.65	11.71		13.17	6 / 1	
reaction time	0.149	interval	7 steps	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.06	1.46		3.00	3.02
wind	1.1 m/s	velocity	5.34	9.14	9.14	9.14	9.14	9.14	8.96	8.96	8.79	8.62	9.60	8.35	9.14	8.79
Levy, Ronald (JAM) (1992)																
Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	03-Aug-21	time	2.47	3.62	4.62	5.62	6.62	7.60	8.62	9.65	10.69	11.74		13.17	4 / 1	
reaction time	0.129	interval	7 steps	1.15	1.00	1.00	1.00	0.98	1.02	1.03	1.04	1.05	1.43		3.15	3.00
wind	0.0 m/s	velocity	5.55	7.95	9.14	9.14	9.14	9.33	8.96	8.87	8.79	8.70	9.80	8.35	8.70	8.79
Martinot Lagarde, Pascal (FRA) (199)																
FINAL - 2021 Athletissima (Lausanne, SUI) (TV Analysis)																
date	26-Aug-21	time	2.52	3.54	4.56	5.56	6.56	7.56	8.60	9.62	10.68	11.72		13.17	2 / 3	
reaction time	0.149	interval	7 steps	1.02	1.02	1.00	1.00	1.00	1.04	1.02	1.06	1.04	1.45		3.04	3.04
wind	2.5 m/s	velocity	5.44	8.96	8.96	9.14	9.14	9.14	8.79	8.96	8.62	8.79	9.67	8.35	9.02	8.79
Parchment, Hansle (JAM) (1990)																
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)																
date	09-Sep-21	time	2.50	3.52	4.54	5.52	6.54	7.54	8.54	9.56	10.60	11.68		13.17	5 / 3	
reaction time	0.132	interval	7 steps	1.02	1.02	0.98	1.02	1.00	1.02	1.02	1.04	1.08	1.49		3.02	3.02
wind	0.6 m/s	velocity	5.49	8.96	8.96	9.33	8.96	9.14	9.14	8.96	8.79	8.46	9.41	8.35	9.08	8.73
McLeod, Omar (JAM) (1994)																
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)																
date	21-May-22	time	2.40	3.47	4.47	5.47	6.47	7.45	8.49	9.53	10.58	11.66		13.17	5 / 2	
reaction time	0.132	interval		1.07	1.00	1.00	1.00	0.98	1.04	1.04	1.05	1.08	1.51		3.07	3.02
wind	0.7 m/s	velocity	5.72	8.54	9.14	9.14	9.14	9.33	8.79	8.79	8.70	8.46	9.28	8.35	8.93	8.65
Roberts, Daniel (USA) (1998)																
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)																
date	12-Jun-22	time	2.40	3.43	4.45	5.47	6.50	7.52	8.52	9.56	10.60	11.67		13.17	4 / 3	
reaction time	0.156	interval		1.03	1.02	1.02	1.03	1.02	1.00	1.04	1.04	1.07	1.50	PB	3.07	3.05
wind	1.6 m/s	velocity	5.72	8.87	8.96	8.96	8.87	8.96	9.14	8.79	8.79	8.54	9.35	8.35	8.93	8.70
Roberts, Daniel (USA) (1998)																
Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)																
date	26-Jun-22	time	2.40	3.45	4.55	5.43	6.46	7.52	8.54	9.57	10.60	11.65	13.17	13.17	6 / 2	
reaction time		interval		1.05	1.10	0.88	1.03	1.06	1.02	1.03	1.03	1.05	1.52		3.03	3.11
wind	0.4 m/s	velocity	5.72	8.70	8.31	10.39	8.87	8.62	8.96	8.87	8.87	8.70	9.22	8.35	9.05	8.82
Parchment, Hansle (JAM) (1990)																
Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																
date	16-Jul-22	time	2.53	3.56	4.63	5.63	6.66	7.66	8.66	9.66	10.66	11.70		13.17	4 / 1	
reaction time	0.153	interval	7 steps	1.03	1.07	1.00	1.03	1.00	1.00	1.00	1.00	1.04	1.47		3.10	3.03
wind	0.2 m/s	velocity	5.42	8.87	8.54	9.14	8.87	9.14	9.14	9.14	9.14	8.79	9.54	8.35	8.85	9.05
Martinez, Asier (ESP) (2000)																
FINAL - 2022 World Athletics Championships (Eugene, OR)																
date	17-Jul-22	time	2.62	3.70	4.72	5.73	6.73	7.74	8.75	9.75	10.78	11.83		13.17	8 / 3	
reaction time	0.126	interval	7 steps	1.08	1.02	1.01	1.00	1.01	1.01	1.00	1.03	1.05	1.34	PB	3.11	3.02
wind	1.2 m/s	velocity	5.24	8.46	8.96	9.05	9.14	9.05	9.05	9.14	8.87	8.70	10.46	8.35	8.82	8.90
Crittenden, Freddie (USA) (1994)																
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																
date	21-Aug-23	time	2.54	3.58	4.58	5.58	6.61	7.60	8.63	9.68	10.68	11.73		13.17	6 / 1	
reaction time	0.156	interval		1.04	1.00	1.00	1.03	0.99	1.03	1.05	1.00	1.05	1.44		3.04	3.05
wind	-0.1 m/s	velocity	5.40	8.79	9.14	9.14	8.87	9.23	8.87	8.70	9.14	8.70	9.74	8.35	9.02	8.85
Belocian, Wilhem (FRA) (1995)																

FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)*Omega Timing (2023) - diamond league race analysis*

02-Sep-23														02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23		02-Sep-23	

Izumiya, Shunsuke (JPN) (2000)**FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)***Omega Timing (2024) - diamond league race analysis*

date	20-Apr-24	time	2.41	3.46	4.48	5.48	6.48	7.48	8.50	9.53	10.58	11.63	Energy (kJ/mol) (2024) - unknown league (not analyzed)						
reaction time	0.172	interval	7 steps	1.05	1.02	1.00	1.00	1.00	1.02	1.03	1.05	1.05	1.54	13.17	4 / 3		3.07	3.02	3.13
wind	-0.3 m/s	velocity	5.69	8.70	8.96	9.14	9.14	9.14	8.96	8.87	8.70	8.70	9.10	8.35			8.93	9.08	8.76

Llopis, Enrique (ESP) (2000)**Semi-Final 1 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	07-Aug-24	time	2.41	3.46	4.48	5.48	6.48	7.47	8.49	9.52	10.55	11.61	13.17	5 / 2				
reaction time	0.138	interval	7 steps	1.05	1.02	1.00	1.00	0.99	1.02	1.03	1.03	1.06	1.56			3.07	3.01	3.12
wind	0.1 m/s	velocity	5.69	8.70	8.96	9.14	9.14	9.23	8.96	8.87	8.87	8.62	8.99	8.35		8.93	9.11	8.79

Kováč, Igor (SVK) (1969)**FINAL - 1997 IAAF World Championships (Athens, GRE)***Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997*

date	07-Aug-97	time	2.62	3.68	4.70	5.72	6.72	7.74	8.78	9.78	10.82	11.86	13.18	1 / 3				
reaction time	0.161	interval		1.06	1.02	1.02	1.00	1.02	1.04	1.00	1.04	1.04	1.32			3.10	3.06	3.08
wind	0.0 m/s	velocity	5.24	8.62	8.96	8.96	9.14	8.96	8.79	9.14	8.79	8.79	10.62	8.35		8.85	8.96	8.90

García, Anier (CUB) (1976)**Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)***Sanchez (1999) - Sevilla '99: análisis de la carreras con villas*

date	24-Aug-99	time	2.51	3.55	4.55	5.55	6.55	7.54	8.56	9.60	10.64	11.72	13.18		5 / 1			
reaction time	0.139	interval		1.04	1.00	1.00	1.00	0.99	1.02	1.04	1.04	1.08	1.46			3.04	3.01	3.16
wind	0.0 m/s	velocity	5.47	8.79	9.14	9.14	9.14	9.23	8.96	8.79	8.79	8.46	9.60	8.35		9.02	9.11	8.68

Doucouré, Ladj (FRA) (1983)**Heat 1 - 2004 Olympic Games (Athens, GRE)***Liagonne (2007) - Historique: Le 110m haies en chiffres*

date													24-Aug-04		time		2.52	3.56	4.55	5.54	6.54	7.54	8.55	9.56	10.60	11.64	13.18		8 / 1		
reaction time													0.205		interval			1.04	0.99	0.99	1.00	1.00	1.01	1.01	1.04	1.04	1.54	NR / PB		3.02 3.01 3.09	
wind													1.5 m/s		velocity		5.44	8.79	9.23	9.23	9.14	9.14	9.05	9.05	8.79	8.79	9.10	8.35		9.08 9.11 8.87	

Trammell, Terrence (USA) (1978)**FINAL - 2004 Olympic Games (Athens, GRE)***Ruiz (2004) - las carreras con vallas de juegos olimpicos de atenas '04*

date													27-Aug-04		time		2.40	3.42	4.43	5.45	6.45	7.45	8.48	9.50	10.54	11.60	13.18		6 / 2				
reaction time		0.154		interval				1.02	1.01	1.02	1.00	1.00	1.03	1.02	1.04	1.06	1.58							3.05	3.03	3.12							
wind		0.3 m/s		velocity		5.72	8.96	9.05	8.96	9.14	9.14	8.87	8.96	8.79	8.62	8.87	8.35					8.99	9.05	8.79									

Oliver, David (USA) (1982)**FINAL - 2007 USATF National Championships (Indianapolis, IN)***USATF Men's Hurdle Development (2007)*

date	24-Jun-07	time	2.65	3.67	4.72	5.72	6.72	7.72	8.74	9.73	10.76	11.78	13.18	6 / 3				
reaction time		interval		1.02	1.05	1.00	1.00	1.00	1.02	0.99	1.03	1.02	1.40		3.07	3.02	3.04	
wind	0.5 m/s	velocity	5.18	8.96	8.70	9.14	9.14	9.14	8.96	9.23	8.87	8.96	10.01	8.35	8.93	9.08	9.02	

Moore, Anwar (USA) (1979)**FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)***Graubner (2007) - <http://www.fgs.uni-halle.de>*

date	23-Sep-07	time	2.59	3.65	4.66	5.67	6.67	7.67	8.68	9.70	10.73	11.80		13.18	7 / 4				
reaction time	0.161	interval		1.06	1.01	1.01	1.00	1.00	1.01	1.02	1.03	1.07	1.38				3.08	3.01	3.12
wind	0.0 m/s	velocity	5.30	8.62	9.05	9.05	9.14	9.14	9.05	8.96	8.87	8.54	10.16	8.35			8.90	9.11	8.79

Oliver, David (USA) (1982)**FINAL - 2008 Olympic Games (Beijing, CHN)***Tsiokanos (2018) - race pattern of men's 110m hurdles- time analysis of olympic hurdle performance*

date	21-Aug-08	time	2.58	3.64	4.67	5.66	6.68	7.68	8.67	9.73	10.76	11.80		13.18	7 / 3				
reaction time	0.158	interval		1.06	1.03	0.99	1.02	1.00	0.99	1.06	1.03	1.04	1.38				3.08	3.01	3.13
wind	0.1 m/s	velocity	5.32	8.62	8.87	9.23	8.96	9.14	9.23	8.62	8.87	8.79	10.16	8.35			8.90	9.11	8.76

Faulk, Dexter (USA) (1984)**FINAL - 2009 ISTAF (Berlin, GER)***Graubner (2009) - <http://www.fgs.uni-halle.de>*

date	14-Jun-09	time	2.55	3.61	4.63	5.66	6.69	7.70	8.75	9.77	10.81	11.86		13.18	4 / 1				
reaction time	0.147	interval		1.06	1.02	1.03	1.03	1.01	1.05	1.02	1.04	1.05	1.32	PB			3.11	3.09	3.11
wind	0.7 m/s	velocity	5.38	8.62	8.96	8.87	8.87	9.05	8.70	8.96	8.79	8.70	10.62	8.35			8.82	8.87	8.82

Brathwaite, Ryan (BAR) (1988)**Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	20-Aug-09	time	2.57	3.59	4.62	5.63	6.63	7.63	8.65	9.69	10.73	11.79		13.18	4 / 1				
reaction time	0.169	interval		1.02	1.03	1.01	1.00	1.00	1.02	1.04	1.04	1.06	1.39	NR			3.06	3.02	3.14
wind	0.6 m/s	velocity	5.34	8.96	8.87	9.05	9.14	9.14	8.96	8.79	8.79	8.62	10.09	8.35			8.96	9.08	8.73

Wilson, Ryan (USA) (1980)**FINAL - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)***Henson (2020) - Athlete First: 2012 Aries Merritt world record season*

date	13-Jul-12	time	2.52	3.56	4.60	5.58	6.56	7.56	8.58	9.60	10.64	11.70		13.18		7 / 3			
reaction time	0.153	interval	7 steps	1.04	1.04	0.98	0.98	1.00	1.02	1.02	1.04	1.06	1.48				3.06	3.00	3.12
wind	0.6 m/s	velocity	5.44	8.79	8.79	9.33	9.33	9.14	8.96	8.96	8.79	8.62	9.47	8.35			8.96	9.14	8.79
Leod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)			Henson (2021) - Athlete First: major championships report																
date	28-Aug-15	time	2.44	3.46	4.48	5.52	6.54	7.58	8.62	9.66	10.72	11.78		13.18		6 / 6			
reaction time	0.135	interval		1.02	1.02	1.04	1.02	1.04	1.04	1.04	1.06	1.06	1.40				3.08	3.10	3.16
wind	0.2 m/s	velocity	5.62	8.96	8.96	8.79	8.96	8.79	8.79	8.79	8.62	8.62	10.01	8.35			8.90	8.85	8.68
ubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Meeting de Paris (Paris, FRA) (TV Analysis)			Henson (2020) - Athlete First: 2017 year end hurdle report																
date	01-Jul-17	time	2.56	3.60	4.58	5.58	6.56	7.58	8.58	9.60	10.66	11.76		13.18		4 / 4			
reaction time	0.125	interval	7 steps	1.04	0.98	1.00	0.98	1.02	1.00	1.02	1.06	1.10	1.42				3.02	3.00	3.18
wind	0.3 m/s	velocity	5.36	8.79	9.33	9.14	9.33	8.96	9.14	8.96	8.62	8.31	9.87	8.35			9.08	9.14	8.62
y, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Meeting de Paris (Paris, FRA) (TV Analysis)			Henson (2020) - Athlete First: 2018 year end hurdle report																
date	30-Jun-18	time	2.46	3.50	4.54	5.58	6.58	7.58	8.60	9.62	10.70	11.76		13.18		3 / 1			
reaction time	0.123	interval	7 steps	1.04	1.04	1.04	1.00	1.00	1.02	1.02	1.08	1.06	1.42				3.12	3.02	3.16
wind	1.5 m/s	velocity	5.58	8.79	8.79	8.79	9.14	9.14	8.96	8.96	8.46	8.62	9.87	8.35			8.79	9.08	8.68
tega, Orlando (ESP) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)			Henson (2020) - Athlete First: 2018 year end hurdle report																
date	20-Jul-18	time	2.48	3.56	4.56	5.56	6.58	7.60	8.60	9.64	10.66	11.70		13.18		5 / 2			
reaction time	0.129	interval	7 steps	1.08	1.00	1.00	1.02	1.02	1.00	1.04	1.02	1.04	1.48				3.08	3.04	3.10
wind	-0.2 m/s	velocity	5.53	8.46	9.14	9.14	8.96	8.96	9.14	8.79	8.96	8.79	9.47	8.35			8.90	9.02	8.85
ubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)			CAA Hurdle Development (2019)																
date	02-Oct-19	time	2.62	3.66	4.68	5.68	6.68	7.68	8.68	9.70	10.74	11.78		13.18		6 / 2			
reaction time	0.129	interval	7 steps	1.04	1.02	1.00	1.00	1.00	1.00	1.02	1.04	1.04	1.40				3.06	3.00	3.10
wind	1.1 m/s	velocity	5.24	8.79	8.96	9.14	9.14	9.14	9.14	8.96	8.79	8.79	10.01	8.35			8.96	9.14	8.85
artnot Lagarde, Pascal (FRA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 IAAF World Championships (Doha, QAT)			CAA Hurdle Development (2019)																
date	02-Oct-19	time	2.55	3.59	4.61	5.61	6.61	7.63	8.64	9.65	10.69	11.75		13.18		7 / 3			
reaction time	0.161	interval	7 steps	1.04	1.02	1.00	1.00	1.02	1.01	1.01	1.04	1.06	1.43				3.06	3.03	3.11
wind	0.6 m/s	velocity	5.38	8.79	8.96	9.14	9.14	8.96	9.05	9.05	8.79	8.62	9.80	8.35			8.96	9.05	8.82
locian, Wilhem (FRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)			Henson (2020) - Athlete First: 2020 year end hurdle report																
date	14-Aug-20	time	2.54	3.57	4.60	5.60	6.60	7.61	8.64	9.67	10.71	11.77		13.18		6 / 3			
reaction time	0.134	interval		1.03	1.03	1.00	1.00	1.01	1.03	1.03	1.04	1.06	1.41	PB			3.06	3.04	3.13
wind	0.8 m/s	velocity	5.40	8.87	8.87	9.14	9.14	9.05	8.87	8.87	8.79	8.62	9.94	8.35			8.96	9.02	8.76
en, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			Henson (2024) - Athlete First: 2021 year end hurdle report																
date	04-Aug-21	time	2.56	3.64	4.64	5.65	6.65	7.65	8.68	9.71	10.73	11.79		13.18		5 / 1			
reaction time	0.121	interval		1.08	1.00	1.01	1.00	1.00	1.03	1.03	1.02	1.06	1.39				3.09	3.03	3.11
wind	0.1 m/s	velocity	5.36	8.46	9.14	9.05	9.14	9.14	8.87	8.87	8.96	8.62	10.09	8.35			8.87	9.05	8.82
nnett, Orlando (JAM) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 NACAC Championships (Freeport, BAH) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report																
date	20-Aug-22	time	2.47	3.53	4.56	5.55	6.55	7.55	8.57	9.62	10.64	11.69		13.18		6 / 3			
reaction time		interval		1.06	1.03	0.99	1.00	1.00	1.02	1.05	1.02	1.05	1.49	PB			3.08	3.02	3.12
wind	0.3 m/s	velocity	5.55	8.62	8.87	9.23	9.14	9.14	8.96	8.70	8.96	8.70	9.41	8.35			8.90	9.08	8.79
lloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report																
date	20-Aug-23	time	2.45	3.47	4.47	5.47	6.47	7.47	8.50	9.57	10.63	11.68		13.18		5 / 1			
reaction time	0.153	interval	7 steps	1.02	1.00	1.00	1.00	1.00	1.03	1.07	1.06	1.05	1.50				3.02	3.03	3.18
wind	-0.6 m/s	velocity	5.60	8.96	9.14	9.14	9.14	9.14	8.87	8.54	8.62	8.70	9.35	8.35			9.08	9.05	8.62
rchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report																
date	21-Aug-23	time	2.52	3.55	4.55	5.53	6.56	7.56	8.60	9.63	10.66	11.73		13.18		5 / 2			
reaction time	0.138	interval	7 steps	1.03	1.00	0.98	1.03	1.00	1.04	1.03	1.03	1.07	1.45				3.01	3.07	3.13
wind	-0.1 m/s	velocity	5.44	8.87	9.14	9.33	8.87	9.14	8.79	8.87	8.87	8.54	9.67	8.35			9.11	8.93	8.76
oya, Sasha (FRA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)			Omega Timing (2024) - diamond league race analysis																
date	30-Aug-24	time	2.40	3.49	4.53	5.54	6.55	7.55	8.56	9.57	10.60	11.63		13.18		6 / 1			

WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified DV=Drug Violation

reaction time	0.151	interval	7 steps	1.09	1.04	1.01	1.01	1.00	1.01	1.01	1.03	1.03	1.55		3.14	3.02	3.07
wind	0.4 m/s	velocity	5.72	8.39	8.79	9.05	9.05	9.14	9.05	9.05	8.87	8.87	9.05	8.35	8.73	9.08	8.93

Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Weltklasse (Zürich, SUI)														Omega Timing (2024) - diamond league race analysis				
date	05-Sep-24	time	2.45	3.50	4.52	5.54	6.55	7.57	8.58	9.59	10.61	11.63		13.18	8 / 4			
reaction time	0.131	interval	7 steps	1.05	1.02	1.02	1.01	1.02	1.01	1.01	1.02	1.02	1.55			3.09	3.04	3.05
wind	-0.3 m/s	velocity	5.60	8.70	8.96	8.96	9.05	8.96	9.05	9.05	8.96	8.96	9.05	8.35		8.87	9.02	8.99

Roberts, Daniel (USA) (1998)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Weltklasse (Zürich, SUI)																<i>Omega Timing (2024) - diamond league race analysis</i>			
date	05-Sep-24	time	2.36	3.41	4.43	5.44	6.45	7.48	8.50	9.53	10.56	11.61						5 / 5	
reaction time	0.154	interval	7 steps	1.05	1.02	1.01	1.01	1.03	1.02	1.03	1.03	1.05	1.57				3.08	3.06	3.11
wind	-0.3 m/s	velocity	5.81	8.70	8.96	9.05	9.05	8.87	8.96	8.87	8.87	8.70	8.93	8.35			8.90	8.96	8.82

Jackson, Colin (GBR) (1967)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1996 Olympic Games (Atlanta, GA)																<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>			
date	26-Jul-96	time	2.36	3.42	4.42	5.48	6.43	7.40	8.48	9.54	10.56	11.62						5 / 4	
reaction time	0.133	interval		1.06	1.00	1.06	0.95	0.97	1.08	1.06	1.02	1.06	1.57				3.12	3.00	3.14
wind	0.8 m/s	velocity	5.81	8.62	9.14	8.62	9.62	9.42	8.46	8.62	8.96	8.62	8.93	8.34			8.79	9.14	8.73

Jackson, Colin (GBR) (1967)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 1999 IAAF World Championships (Sevilla, ESP)																<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>			
date	23-Aug-99	time	2.49	3.50	4.50	5.50	6.51	7.52	8.55	9.57	10.61	11.67						1 / 1	
reaction time	0.115	interval		1.01	1.00	1.00	1.01	1.01	1.03	1.02	1.04	1.06	1.52				3.01	3.05	3.12
wind	-0.5 m/s	velocity	5.51	9.05	9.14	9.14	9.05	9.05	8.87	8.96	8.79	8.62	9.22	8.34			9.11	8.99	8.79

Jackson, Colin (GBR) (1967)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)																<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>			
date	24-Aug-99	time	2.50	3.52	4.53	5.54	6.54	7.56	8.57	9.60	10.66	11.72						6 / 2	
reaction time	0.110	interval		1.02	1.01	1.01	1.00	1.02	1.01	1.03	1.06	1.06	1.47				3.04	3.03	3.15
wind	0.0 m/s	velocity	5.49	8.96	9.05	9.05	9.14	8.96	9.05	8.87	8.62	8.62	9.54	8.34			9.02	9.05	8.70

Payne, David (USA) (1982)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2007 IAAF World Championships (Osaka, JPN)																<i>Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles</i>			
date	30-Aug-07	time	2.61	3.66	4.68	5.68	6.68	7.68	8.71	9.73	10.76	11.83						7 / 1	
reaction time	0.166	interval		1.05	1.02	1.00	1.00	1.00	1.03	1.02	1.03	1.07	1.36				3.07	3.03	3.12
wind	-0.4 m/s	velocity	5.26	8.70	8.96	9.14	9.14	9.14	8.87	8.96	8.87	8.54	10.31	8.34			8.93	9.05	8.79

Shi Dongpeng (CHN) (1984)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 IAAF World Championships (Osaka, JPN)																<i>Xiao (2014) - development process of the characterisitcs about 110m hurdle training in China</i>			
date	31-Aug-07	time	2.59	3.62	4.63	5.62	6.60	7.57	8.57	9.57	10.59	11.62						6 / 5	
reaction time	0.150	interval		1.03	1.01	0.99	0.98	0.97	1.00	1.00	1.02	1.03	1.57	PB			3.03	2.95	3.05
wind	1.7 m/s	velocity	5.30	8.87	9.05	9.23	9.33	9.42	9.14	9.14	8.96	8.87	8.93	8.34			9.05	9.29	8.99

Porter, Jeff (USA) (1985)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)																<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>			
date	20-Jul-12	time	2.46	3.50	4.53	5.53	6.55	7.55	8.55	9.58	10.62	11.71						3 / 5	
reaction time	0.153	interval		1.04	1.03	1.00	1.02	1.00	1.00	1.03	1.04	1.09	1.48				3.07	3.02	3.16
wind	0.0 m/s	velocity	5.58	8.79	8.87	9.14	8.96	9.14	9.14	8.87	8.79	8.39	9.47	8.34			8.93	9.08	8.68

Pozzi, Andy (GBR) (1992)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)																<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	27-May-17	time	2.46	3.48	4.48	5.50	6.50	7.50	8.50	9.52	10.54	11.62						2 / 5	
reaction time	0.145	interval	7 steps	1.02	1.00	1.02	1.00	1.00	1.00	1.02	1.02	1.08	1.57	=PB			3.04	3.00	3.12
wind	0.9 m/s	velocity	5.58	8.96	9.14	8.96	9.14	9.14	9.14	8.96	8.96	8.46	8.93	8.34			9.02	9.14	8.79

Parchment, Hansle (JAM) (1990)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Jamaican National Championships (Kingston, JAM) (TV Analysis)																<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	24-Jun-17	time	2.50	3.55	4.57	5.57	6.57	7.57	8.57	9.57	10.60	11.63						8 / 3	
reaction time		interval	7 steps	1.05	1.02	1.00	1.00	1.00	1.00	1.03	1.03	1.56					3.07	3.00	3.06
wind	0.7 m/s	velocity	5.49	8.70	8.96	9.14	9.14	9.14	9.14	8.87	8.87	8.99	8.34				8.93	9.14	8.96

Izumiya, Shunsuke (JPN) (2000)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Japanese U20 National Championships (Nagoya, JPN) (99cm)																<i>Shibayama (2021) race analysis of men's 110m hurdles in the 2021 season</i>			
date	19-Oct-18	time	2.53	3.57	4.61	5.64	6.63	7.66	8.68	9.71	10.75	11.81						6 / 1	
reaction time	0.123	interval		1.04	1.04	1.03	0.99	1.03	1.02	1.03	1.04	1.06	1.38	NJR PB			3.11	3.04	3.13
wind	-0.6 m/s	velocity	5.42	8.79	8.79	8.87	9.23	8.87	8.96	8.87	8.79	8.62	10.16	8.34			8.82	9.02	8.76

Holloway, Grant (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)													Henson (2020) - Athlete First: 2020 year end hurdle report				
date	14-Aug-20	time	2.50	3.50	4.50	5.50	6.50	7.50	8.54	9.57	10.64	11.74	13.19	3 / 4			
reaction time	0.163	interval	7 steps	1.00	1.00	1.00	1.00	1.00	1.04	1.03	1.07	1.10	1.45		3.00	3.04	3.20

wind	0.8 m/s	velocity	5.49	9.14	9.14	9.14	9.14	9.14	8.79	8.87	8.54	8.31	9.67	8.34		9.14	9.02	8.57
Shubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	06-Jul-21	time	2.50	3.53	4.54	5.56	6.55	7.54	8.54	9.57	10.61	11.64		13.19	6 / 3			
reaction time	0.150	interval	7 steps	1.03	1.01	1.02	0.99	0.99	1.00	1.03	1.04	1.03	1.55			3.06	2.98	3.10
wind	-0.1 m/s	velocity	5.49	8.87	9.05	8.96	9.23	9.23	9.14	8.87	8.79	8.87	9.05	8.34		8.96	9.20	8.85
Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	02-Jun-23	time	2.56	3.61	4.65	5.65	6.65	7.65	8.66	9.68	10.72	11.76		13.19	5 / 3			
reaction time	0.136	interval	7 steps	1.05	1.04	1.00	1.00	1.00	1.01	1.02	1.04	1.04	1.43			3.09	3.01	3.10
wind	-0.2 m/s	velocity	5.36	8.70	8.79	9.14	9.14	9.14	9.05	8.96	8.79	8.79	9.80	8.34		8.87	9.11	8.85
Britt, Jamal (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	24-Jun-23	time	2.52	3.57	4.60	5.61	6.61	7.65	8.67	9.71	10.74	11.79		13.19	7 / 3			
reaction time	0.169	interval	7 steps	1.05	1.03	1.01	1.00	1.04	1.02	1.04	1.03	1.05	1.40			3.09	3.06	3.12
wind	1.6 m/s	velocity	5.44	8.70	8.87	9.05	9.14	8.79	8.96	8.79	8.87	8.70	10.01	8.34		8.87	8.96	8.79
Bennett, Orlando (JAM) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Jamaican National Championships (Kingston, JAM) (TV Analysis)															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	09-Jul-23	time	2.50	3.56	4.58	5.60	6.58	7.58	8.60	9.60	10.63	11.70		13.19	6 / 3			
reaction time		interval		1.06	1.02	1.02	0.98	1.00	1.02	1.00	1.03	1.07	1.49			3.10	3.00	3.10
wind	0.7 m/s	velocity	5.49	8.62	8.96	8.96	9.33	9.14	8.96	9.14	8.87	8.54	9.41	8.34		8.85	9.14	8.85
Kwaou-Mathey, Just (FRA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 French National Championships (Albi, FRA) (TV Analysis)															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	29-Jul-23	time	2.54	3.56	4.56	5.56	6.58	7.60	8.60	9.64	10.70	11.74		13.19	3 / 3			
reaction time	0.206	interval	7 steps	1.02	1.00	1.00	1.02	1.02	1.00	1.04	1.06	1.04	1.45			3.02	3.04	3.14
wind	2.3 m/s	velocity	5.40	8.96	9.14	9.14	8.96	8.96	9.14	8.79	8.62	8.79	9.67	8.34		9.08	9.02	8.73
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	21-Aug-23	time	2.46	3.48	4.52	5.54	6.56	7.60	8.62	9.63	10.66	11.70		13.19	5 / 2			
reaction time	0.144	interval		1.02	1.04	1.02	1.02	1.04	1.02	1.01	1.03	1.04	1.49			3.08	3.08	3.08
wind	-0.2 m/s	velocity	5.58	8.96	8.79	8.96	8.96	8.79	8.96	9.05	8.87	8.79	9.41	8.34		8.90	8.90	8.90
Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 World Athletics Championships (Budapest, HUN)															<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>			
date	21-Aug-23	time	2.55	3.58	4.61	5.65	6.66	7.68	8.69	9.73	10.78	11.85		13.19	6 / 5			
reaction time	0.143	interval	7 steps	1.03	1.03	1.04	1.01	1.02	1.01	1.04	1.05	1.07	1.34			3.10	3.04	3.16
wind	0.0 m/s	velocity	5.38	8.87	8.87	8.79	9.05	8.96	9.05	8.79	8.70	8.54	10.46	8.34		8.85	9.02	8.68
Muratake, Rachid (JPN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)															<i>Omega Timing (2023) - diamond league race analysis</i>			
date	02-Sep-23	time	2.37	3.42	4.43	5.44	6.46	7.47	8.51	9.54	10.59	11.65		13.19	2 / 5			
reaction time	0.153	interval	7 steps	1.05	1.01	1.01	1.02	1.01	1.04	1.03	1.05	1.06	1.54			3.07	3.07	3.14
wind	0.0 m/s	velocity	5.79	8.70	9.05	9.05	8.96	9.05	8.79	8.87	8.70	8.62	9.10	8.34		8.93	8.93	8.73
Luff, Darius (USA) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	07-Jun-24	time	2.53	3.57	4.60	5.60	6.60	7.61	8.64	9.67	10.71	11.77		13.19	6 / 1			
reaction time		interval		1.04	1.03	1.00	1.00	1.01	1.03	1.03	1.04	1.06	1.42	PB		3.07	3.04	3.13
wind	0.1 m/s	velocity	5.42	8.79	8.87	9.14	9.14	9.05	8.87	8.87	8.79	8.62	9.87	8.34		8.93	9.02	8.76
Tinch, Cordell (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	27-Jun-24	time	2.50	3.54	4.56	5.57	6.57	7.57	8.57	9.58	10.64	11.71		13.19	6 / 2			
reaction time		interval	7 steps	1.04	1.02	1.01	1.00	1.00	1.00	1.01	1.06	1.07	1.48			3.07	3.00	3.14
wind	0.3 m/s	velocity	5.49	8.79	8.96	9.05	9.14	9.14	9.05	8.62	8.54	9.47	8.34			8.93	9.14	8.73
Beard, Dylan (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	24-Jun-24	time	2.48	3.50	4.53	5.53	6.53	7.54	8.57	9.60	10.63	11.76		13.19	4 / 2			
reaction time		interval		1.02	1.03	1.00	1.00	1.01	1.03	1.03	1.03	1.13	1.43			3.05	3.04	3.19
wind	1.8 m/s	velocity	5.53	8.96	8.87	9.14	9.14	9.05	8.87	8.87	8.87	8.09	9.80	8.34		8.99	9.02	8.60
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	07-Aug-24	time	2.46	3.51	4.51	5.53	6.52	7.51	8.52	9.54	10.59	11.64		13.19	3 / 3			
reaction time	0.148	interval	7 steps	1.05	1.00	1.02	0.99	0.99	1.01	1.02	1.05	1.05	1.55			3.07	2.99	3.12
wind	0.1 m/s	velocity	5.58	8.70	9.14	8.96	9.23	9.23	9.05	8.96	8.70	8.70	9.05	8.34		8.93	9.17	8.79

Caristan, Stéphane (FRA) (1964)																
FINAL	- 1986 European Championships (Stuttgart, FRG)	<i>Hommel (1988) - nsa photosequence 4 - 110m hurdles - stephane caristan (FRA)</i>														
date	30-Aug-86	time	2.59	3.62	4.63	5.62	6.63	7.66	8.66	9.72	10.76	11.86		13.20	3 / 1	
reaction time		interval		1.03	1.01	0.99	1.01	1.03	1.00	1.06	1.04	1.10	1.34	CR / NR		3.03 3.04 3.20
wind	2.0 m/s	velocity	5.30	8.87	9.05	9.23	9.05	8.87	9.14	8.62	8.79	8.31	10.46	8.33		9.05 9.02 8.57
Foster, Greg (USA) (1958)																
Heat 1	- 1987 IAAF World Championships (Rome, ITA)	<i>Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics</i>														
date	01-Sep-87	time	2.60	3.63	4.64	5.64	6.64	7.62	8.63	9.67	10.72	11.79		13.20	8 / 1	
reaction time		interval		1.03	1.01	1.00	1.00	0.98	1.01	1.04	1.05	1.07	1.41	CR		3.04 2.99 3.16
wind	1.4 m/s	velocity	5.28	8.87	9.05	9.14	9.14	9.33	9.05	8.79	8.70	8.54	9.94	8.33		9.02 9.17 8.68
Valle, Emilio (CUB) (1967)																
FINAL	- 1996 Olympic Games (Atlanta, GA)	<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>														
date	26-Jul-96	time	2.36	3.44	4.46	5.46	6.48	7.49	8.50	9.54	10.58	11.61		13.20	7 / 5	
reaction time	0.179	interval		1.08	1.02	1.00	1.02	1.01	1.01	1.04	1.04	1.03	1.59			3.10 3.04 3.11
wind	0.8 m/s	velocity	5.81	8.46	8.96	9.14	8.96	9.05	9.05	8.79	8.79	8.87	8.82	8.33		8.85 9.02 8.82
Schwarthoff, Florian (GER) (1968)																
FINAL	- 1997 European Cup (Munich, GER)	<i>Jung (2003) - http://www.fgs.uni-halle.de</i>														
date	22-Jun-97	time	2.56	3.62	4.63	5.63	6.63	7.66	8.69	9.70	10.74	11.80		13.20	1 / 1	
reaction time		interval	7 steps	1.06	1.01	1.00	1.00	1.03	1.03	1.01	1.04	1.06	1.40			3.07 3.06 3.11
wind	0.2 m/s	velocity	5.36	8.62	9.05	9.14	9.14	8.87	8.87	9.05	8.79	8.62	10.01	8.33		8.93 8.96 8.82
Schwarthoff, Florian (GER) (1968)																
FINAL	- 1997 IAAF World Championships (Athens, GRE)	<i>Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>														
date	07-Aug-97	time	2.58	3.64	4.64	5.66	6.68	7.70	8.72	9.74	10.78	11.84		13.20	3 / 4	
reaction time	0.141	interval	7 steps	1.06	1.00	1.02	1.02	1.02	1.02	1.04	1.06	1.06	1.36			3.08 3.06 3.12
wind	0.2 m/s	velocity	5.32	8.62	9.14	8.96	8.96	8.96	8.96	8.96	8.79	8.62	10.31	8.33		8.90 8.96 8.79
Korving, Robin (NED) (1974)																
FINAL	- 1998 European Championships (Budapest, HUN)	<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>														
date	22-Aug-98	time	2.60	3.62	4.66	5.67	6.68	7.70	8.70	9.72	10.77	11.81		13.20	5 / 3	
reaction time		interval		1.02	1.04	1.01	1.01	1.02	1.00	1.02	1.05	1.04	1.39	NR		3.07 3.03 3.11
wind	1.5 m/s	velocity	5.28	8.96	8.79	9.05	9.05	8.96	9.14	8.96	8.70	8.79	10.09	8.33		8.93 9.05 8.82
García, Anier (CUB) (1976)																
Quarter-Final 1	- 1999 IAAF World Championships (Sevilla, ESP)	<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>														
date	23-Aug-99	time	2.54	3.57	4.58	5.58	6.58	7.58	8.59	9.62	10.68	11.74		13.20	3 / 2	
reaction time	0.169	interval		1.03	1.01	1.00	1.00	1.00	1.01	1.03	1.06	1.06	1.46			3.04 3.01 3.15
wind	-0.4 m/s	velocity	5.40	8.87	9.05	9.14	9.14	9.14	9.05	8.87	8.62	8.62	9.60	8.33		9.02 9.11 8.70
Trammell, Terrence (USA) (1978)																
FINAL	- 2003 IAAF World Championships (Paris, FRA)	<i>Xu (2004) - analysis on the hurdling techniques of the excellence chinese male 110m hurdle athletes</i>														
date	30-Aug-03	time	2.57	3.61	4.63	5.63	6.63	7.63	8.65	9.67	10.73	11.79		13.20	6 / 2	
reaction time	0.140	interval		1.04	1.02	1.00	1.00	1.00	1.02	1.02	1.06	1.06	1.41			3.06 3.02 3.14
wind	0.3 m/s	velocity	5.34	8.79	8.96	9.14	9.14	9.14	8.96	8.96	8.62	8.62	9.94	8.33		8.96 9.08 8.73
García, Anier (CUB) (1976)																
FINAL	- 2004 Olympic Games (Athens, GRE)	<i>Ruiz (2004) - las carreras con vallas de juegos olímpicos de atenas '04</i>														
date	27-Aug-04	time	2.47	3.51	4.53	5.55	6.55	7.55	8.57	9.61	10.65	11.69		13.20	7 / 3	
reaction time	0.169	interval		1.04	1.02	1.02	1.00	1.00	1.02	1.04	1.04	1.04	1.51			3.08 3.02 3.12
wind	0.3 m/s	velocity	5.55	8.79	8.96	8.96	9.14	9.14	8.96	8.79	8.79	8.79	9.28	8.33		8.90 9.08 8.79
Carter, Deuce (JAM) (1990)																
FINAL	- 2016 Racers Grand Prix (Kingston, JAM) (TV Analysis)	<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>														
date	11-Jun-16	time	2.46	3.50	4.50	5.50	6.48	7.48	8.50	9.56	10.58	11.66		13.20	2 / 2	
reaction time		interval	7 steps	1.04	1.00	1.00	0.98	1.00	1.02	1.06	1.02	1.08	1.54	PB		3.04 3.00 3.16
wind	0.2 m/s	velocity	5.58	8.79	9.14	9.14	9.33	9.14	8.96	8.62	8.96	8.46	9.10	8.33		9.02 9.14 8.68
Bascou, Dimitri (FRA) (1987)																
FINAL	- 2016 London Anniversary Games (London, GBR) (TV Analysis)	<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>														
date	23-Jul-16	time	2.50	3.53	4.56	5.56	6.58	7.60	8.62	9.64	10.68	11.74		13.20	5 / 1	
reaction time	0.103	interval	7 steps	1.03	1.03	1.00	1.02	1.02	1.02	1.02	1.04	1.06	1.46			3.06 3.06 3.12
wind	-1.0 m/s	velocity	5.49	8.87	8.87	9.14	8.96	8.96	8.96	8.96	8.79	8.62	9.60	8.33		8.96 8.96 8.79
Merritt, Aries (USA) (1985)																
FINAL	- 2017 Galà dei Castelli (Bellinzona, SUI)	<i>(2017.07.18) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>														
date	18-Jul-17	time	2.57	3.61	4.64	5.64	6.64	7.66	8.67	9.70	10.73	11.77		13.20	4 / 1	
reaction time		interval	7 steps	1.04	1.03	1.00	1.00	1.02	1.01	1.03	1.03	1.04	1.43			3.07 3.03 3.10
wind	-0.6 m/s	velocity	5.34	8.79	8.87	9.14	9.14	8.96	9.05	8.87	8.87	8.79	9.80	8.33		8.93 9.05 8.85

Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Memorial van Damme (Brussels, BEL) (TV Analysis)																		
Henson (2020) - Athlete First: 2017 year end hurdle report																		
date	01-Sep-17	time	2.48	3.52	4.54	5.54	6.54	7.54	8.58	9.60	10.62	11.68		13.20	6 / 3			
reaction time	0.133	interval	7 steps	1.04	1.02	1.00	1.00	1.00	1.04	1.02	1.02	1.06	1.52			3.06	3.04	3.10
wind	0.5 m/s	velocity	5.53	8.79	8.96	9.14	9.14	9.14	8.79	8.96	8.96	8.62	9.22	8.33		8.96	9.02	8.85
Martinot Lagarde, Pascal (FRA) (199			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)																		
Henson (2020) - Athlete First: 2018 year end hurdle report																		
date	20-Jul-18	time	2.46	3.50	4.52	5.52	6.52	7.52	8.56	9.60	10.64	11.70		13.20	6 / 3			
reaction time	0.157	interval	7 steps	1.04	1.02	1.00	1.00	1.00	1.04	1.04	1.04	1.06	1.50			3.06	3.04	3.14
wind	-0.2 m/s	velocity	5.58	8.79	8.96	9.14	9.14	9.14	8.79	8.79	8.79	8.62	9.35	8.33		8.96	9.02	8.73
Xie Wenjun (CHN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 CAA Shanghai Training Base Permit Meeting (Shanghai, CHN)																		
Shanghai Sport Institute (2020) - competition analysis																		
date	19-Jul-20	time	2.69	3.70	4.70	5.71	6.70	7.70	8.72	9.75	10.77	11.82		13.20	/ 1			
reaction time	0.157	interval	7 steps	1.01	1.00	1.01	0.99	1.00	1.02	1.03	1.02	1.05	1.38			3.02	3.01	3.10
wind	2.5 m/s	velocity	5.10	9.05	9.14	9.05	9.23	9.14	8.96	8.87	8.96	8.70	10.16	8.33		9.08	9.11	8.85
Belocian, Wilhem (FRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)																		
Henson (2020) - Athlete First: 2020 year end hurdle report																		
date	13-Sep-20	time	2.50	3.51	4.49	5.50	6.48	7.53	8.57	9.59	10.63	11.67		13.20	4 / 1			
reaction time	0.156	interval		1.01	0.98	1.01	0.98	1.05	1.04	1.02	1.04	1.04	1.53			3.00	3.07	3.10
wind	0.0 m/s	velocity	5.49	9.05	9.33	9.05	9.33	8.70	8.79	8.96	8.79	8.79	9.16	8.33		9.14	8.93	8.85
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)																		
Henson (2022) - Athlete First: 2022 year end hurdle report																		
date	10-Aug-22	time	2.43	3.46	4.50	5.50	6.53	7.53	8.56	9.56	10.63	11.73		13.20	3 / 4			
reaction time	0.157	interval		1.03	1.04	1.00	1.03	1.00	1.03	1.00	1.07	1.10	1.47			3.07	3.06	3.17
wind	0.6 m/s	velocity	5.65	8.87	8.79	9.14	8.87	9.14	8.87	9.14	8.54	8.31	9.54	8.33		8.93	8.96	8.65
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 Meeting de Paris (Paris, FRA)																		
Omega Timing (2023) - diamond league race analysis																		
date	09-Jun-23	time	2.30	3.30	4.30	5.30	6.30	7.30	8.30	9.40	10.40	11.50		13.20	6 / 1			
reaction time	0.147	interval	7 steps	1.00	1.00	1.00	1.00	1.00	1.00	1.10	1.00	1.10	1.70			3.00	3.00	3.20
wind	-0.6 m/s	velocity	5.97	9.14	9.14	9.14	9.14	9.14	9.14	8.31	9.14	8.31	8.25	8.33		9.14	9.14	8.57
Belocian, Wilhem (FRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Meeting de Paris (Paris, FRA)																		
Omega Timing (2023) - diamond league race analysis																		
date	09-Jun-23	time	2.35	3.40	4.42	5.43	6.45	7.47	8.50	9.53	10.57	11.62		13.20	8 / 5			
reaction time	0.142	interval		1.05	1.02	1.01	1.02	1.02	1.03	1.03	1.04	1.05	1.58			3.08	3.07	3.12
wind	-0.5 m/s	velocity	5.84	8.70	8.96	9.05	8.96	8.96	8.87	8.87	8.79	8.70	8.87	8.33		8.90	8.93	8.79
Tharp, Jakobe (USA) (2005)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)																		
Henson (2024) - Athlete First: 2024 year end hurdle report																		
date	07-Jun-24	time	2.57	3.60	4.67	5.67	6.70	7.71	8.74	9.76	10.78	11.81		13.20	5 / 2			
reaction time		interval		1.03	1.07	1.00	1.03	1.01	1.03	1.02	1.02	1.03	1.39			3.10	3.07	3.07
wind	0.1 m/s	velocity	5.34	8.87	8.54	9.14	8.87	9.05	8.87	8.96	8.96	8.87	10.09	8.33		8.85	8.93	8.93
Cunningham, Trey (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2024 Meeting de Paris (Paris, FRA)																		
Omega Timing (2024) - diamond league race analysis																		
date	07-Jul-24	time	2.42	3.48	4.51	5.52	6.52	7.53	8.56	9.59	10.63	11.69		13.20	4 / 2			
reaction time	0.165	interval	7 steps	1.06	1.03	1.01	1.00	1.01	1.03	1.03	1.04	1.06	1.51			3.10	3.04	3.13
wind	0.1 m/s	velocity	5.67	8.62	8.87	9.05	9.14	9.05	8.87	8.87	8.79	8.62	9.28	8.33		8.85	9.02	8.76
Llopis, Enrique (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Olympic Games (Paris, FRA)																		
Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season																		
date	08-Aug-24	time	2.59	3.64	4.65	5.65	6.65	7.66	8.67	9.69	10.73	11.80		13.20	3 / 3			
reaction time	0.144	interval	7 steps	1.05	1.01	1.00	1.00	1.01	1.01	1.02	1.04	1.07	1.40			3.06	3.02	3.13
wind	-0.1 m/s	velocity	5.30	8.70	9.05	9.14	9.14	9.05	9.05	8.96	8.79	8.54	10.01	8.33		8.96	9.08	8.76
Muratake, Rachid (JPN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Weltklasse (Zürich, SUI)																		
Omega Timing (2024) - diamond league race analysis																		
date	05-Sep-24	time	2.43	3.48	4.49	5.49	6.49	7.51	8.53	9.57	10.61	11.66		13.20	3 / 6			
reaction time	0.161	interval	7 steps	1.05	1.01	1.00	1.00	1.02	1.02	1.04	1.04	1.05	1.54			3.06	3.04	3.13
wind	-0.3 m/s	velocity	5.65	8.70	9.05	9.14	9.14	8.96	8.96	8.79	8.79	8.70	9.10	8.33		8.96	9.02	8.76
Foster, Greg (USA) (1958)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1987 IAAF World Championships (Rome, ITA)																		
Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics																		
date	03-Sep-87	time	2.60	3.64	4.64	5.64	6.64	7.65	8.67	9.72	10.76	11.81		13.21	3 / 1			
reaction time		interval		1.04	1.00	1.00	1.00	1.01	1.02	1.05	1.04	1.05	1.40			3.04	3.03	3.14
wind	0.5 m/s	velocity	5.28	8.79	9.14	9.14	9.14	9.05	8.96	8.70	8.79	8.70	10.01	8.33		9.02	9.05	8.73
Valle, Emilio (CUB) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

FINAL - 1989 IAAF World Cup (Barcelona, ESP)*Gill (1990) - atletismo (I) carreras y marcha*

date	10-Sep-89	time	2.59	3.65	4.67	5.71	6.70	7.70	8.72	9.73	10.77	11.83		13.21	5 / 3			
reaction time		interval		1.06	1.02	1.04	0.99	1.00	1.02	1.01	1.04	1.06	1.38			3.12	3.01	3.11
wind	2.6 m/s	velocity	5.30	8.62	8.96	8.79	9.23	9.14	8.96	9.05	8.79	8.62	10.16	8.33		8.79	9.11	8.82

Swift, Eugene (USA) (1964)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1996 USA Olympic Trials (Atlanta, GA)*McNichols (2000) - Hurdle technique study through video analysis*

date	23-Jun-96	time	2.38	3.43	4.46	5.44	6.43	7.52	8.54	9.55	10.62	11.66		13.21	7 / 3			
reaction time		interval		1.05	1.03	0.98	0.99	1.09	1.02	1.01	1.07	1.04	1.55	PB		3.06	3.10	3.12
wind	0.9 m/s	velocity	5.76	8.70	8.87	9.33	9.23	8.39	8.96	9.05	8.54	8.79	9.05	8.33		8.96	8.85	8.79

Jackson, Colin (GBR) (1967)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Quarter-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)*Sanchez (1999) - Sevilla '99: análisis de la carreras con villas*

date	23-Aug-99	time	2.50	3.52	4.53	5.53	6.52	7.53	8.54	9.57	10.63	11.71		13.21	6 / 1			
reaction time	0.117	interval		1.02	1.01	1.00	0.99	1.01	1.01	1.03	1.06	1.08	1.50			3.03	3.01	3.17
wind	-0.2 m/s	velocity	5.49	8.96	9.05	9.14	9.23	9.05	9.05	8.87	8.62	8.46	9.35	8.33		9.05	9.11	8.65

Arnold, Dominique (USA) (1973)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2001 ISTAF (Berlin, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date	31-Aug-09	time	2.58	3.60	4.63	5.67	6.68	7.67	8.69	9.70	10.74	11.80		13.21	3 / 3			
reaction time	0.167	interval		1.02	1.03	1.04	1.01	0.99	1.02	1.01	1.04	1.06	1.41			3.09	3.02	3.11
wind	1.0 m/s	velocity	5.32	8.96	8.87	8.79	9.05	9.23	8.96	9.05	8.79	8.62	9.94	8.33		8.87	9.08	8.82

Jackson, Colin (GBR) (1967)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 2 - 2002 European Championships (Munich, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date	10-Aug-02	time	2.58	3.62	4.64	5.66	6.66	7.68	8.70	9.73	10.76	11.82		13.21	/ 1			
reaction time	0.112	interval		1.04	1.02	1.02	1.00	1.02	1.02	1.03	1.03	1.06	1.39			3.08	3.04	3.12
wind	0.8 m/s	velocity	5.32	8.79	8.96	8.96	9.14	8.96	8.96	8.87	8.87	8.62	10.09	8.33		8.90	9.02	8.79

Wignall, Maurice (JAM) (1976)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2004 Olympic Games (Athens, GRE)*Ruiz (2004) - las carreras con vallas de juegos olímpicos de atenas '04*

date	27-Aug-04	time	2.47	3.50	4.53	5.55	6.55	7.56	8.60	9.64	10.67	11.73		13.21	5 / 4			
reaction time	0.164	interval		1.03	1.03	1.02	1.00	1.01	1.04	1.04	1.03	1.06	1.48			3.08	3.05	3.13
wind	0.3 m/s	velocity	5.55	8.87	8.87	8.96	9.14	9.05	8.79	8.79	8.87	8.62	9.47	8.33		8.90	8.99	8.76

Olijar, Stanislav (LAT) (1979)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2004 Olympic Games (Athens, GRE)*Ruiz (2004) - las carreras con vallas de juegos olímpicos de atenas '04*

date	27-Aug-04	time	2.49	3.52	4.54	5.55	6.56	7.56	8.57	9.61	10.67	11.74		13.21	2 / 5			
reaction time	0.174	interval		1.03	1.02	1.01	1.01	1.00	1.01	1.04	1.06	1.07	1.47			3.06	3.02	3.17
wind	0.3 m/s	velocity	5.51	8.87	8.96	9.05	9.05	9.14	9.05	8.79	8.62	8.54	9.54	8.33		8.96	9.08	8.65

Liu Xiang (CHN) (1983)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2007 Golden Grand Prix (Shanghai, CHN)*Ma (2008) - analysis of Liu Xiang's time characteristic in men's 110m hurdles during golden grand prix in Shanghai*

date	28-Sep-07	time	2.26	3.22	4.36	5.44	6.40	7.42	8.29	9.32	10.42	11.46		13.21	/ 3			
reaction time	0.164	interval		0.96	1.14	1.08	0.96	1.02	0.87	1.03	1.10	1.04	1.75			3.18	2.85	3.17
wind	-0.4 m/s	velocity	6.07	9.52	8.02	8.46	9.52	8.96	10.51	8.87	8.31	8.79	8.01	8.33		8.62	9.62	8.65

Wilson, Ryan (USA) (1980)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2009 ISTAF (Berlin, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date	14-Jun-09	time	2.59	3.64	4.65	5.66	6.65	7.69	8.71	9.73	10.77	11.83		13.21	6 / 2			
reaction time	0.171	interval		1.05	1.01	1.01	0.99	1.04	1.02	1.02	1.04	1.06	1.38			3.07	3.05	3.12
wind	0.7 m/s	velocity	5.30	8.70	9.05	9.05	9.23	8.79	8.96	8.96	8.79	8.62	10.16	8.33		8.93	8.99	8.79

Merritt, Aries (USA) (1985)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 Colorful Daegu Meeting (Daegu, KOR) (TV Analysis)*Henson (2021) - Athlete First: 2012 Aries Merritt world record season*

date	16-May-12	time	2.53	3.60	4.60	5.60	6.60	7.60	8.64	9.67				13.21	3 / 1			
reaction time	0.165	interval		1.07	1.00	1.00	1.00	1.00	1.04	1.03						3.07	3.04	
wind	-0.4 m/s	velocity	5.42	8.54	9.14	9.14	9.14	9.14	8.79	8.87				8.33		8.93	9.02	

Shubenkov, Sergey (RUS) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)*Henson (2020) - Athlete First: 2012 Aries Merritt world record season*

date	07-Sep-12	time	2.52	3.56	4.56	5.58	6.58	7.58	8.62	9.66	10.70	11.78		13.21	1 / 4			
reaction time	0.165	interval		1.04	1.00	1.02	1.00	1.00	1.04	1.04	1.04	1.08	1.43			3.06	3.04	3.16
wind	0.3 m/s	velocity	5.44	8.79	9.14	8.96	9.14	9.14	8.79	8.79	8.79	8.46	9.80	8.33		8.96	9.02	8.68

Oliver, David (USA) (1982)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)*Henson (2020) - Athlete First: 2012 Aries Merritt world record season*

date	07-Sep-12	time	2.52	3.56	4.58	5.56	6.56	7.58	8.58	9.60	10.62	11.72		13.21	2 / 5			
reaction time	0.171	interval		1.04	1.02	0.98	1.00	1.02	1.00	1.02	1.02	1.10	1.49			3.04	3.02	3.14
wind	0.3 m/s	velocity	5.44	8.79	8.96	9.33	9.14	8.96	9.14	8.96	8.96	8.31	9.41	8.33		9.02	9.08	8.73

Carter, Deuce (JAM) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2016 Jamaican National Championships (Kingston, JAM) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

[illegible]

reaction time	0.142	interval	7 steps	1.03	1.03	1.02	1.03	0.91	1.12	1.05	1.06	1.06	1.38		3.08	3.06	3.17
wind	-1.2 m/s	velocity	5.44	8.87	8.87	8.96	8.87	10.04	8.16	8.70	8.62	8.62	10.16	8.33	8.90	8.96	8.65

Brathwaite, Shane (BAR) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)			<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>											13.21	8 / 3			
date	17-Jul-22	time	2.55	3.58	4.60	5.60	6.59	7.60	8.63	9.65	10.71	11.76						
reaction time	0.115	interval	7 steps	1.03	1.02	1.00	0.99	1.01	1.03	1.02	1.06	1.05	1.45			3.05	3.03	3.13
wind	2.5 m/s	velocity	5.38	8.87	8.96	9.14	9.23	9.05	8.87	8.96	8.62	8.70	9.67	8.33		8.99	9.05	8.76

Zhoya, Sasha (FRA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>											13.21	2 / 5			
date	10-Aug-22	time	2.50	3.53	4.56	5.56	6.56	7.56	8.60	9.63	10.66	11.73						
reaction time	0.138	interval	7 steps	1.03	1.03	1.00	1.00	1.00	1.04	1.03	1.03	1.07	1.48			3.06	3.04	3.13
wind	0.6 m/s	velocity	5.49	8.87	8.87	9.14	9.14	9.14	8.79	8.87	8.87	8.54	9.47	8.33		8.96	9.02	8.76

Britt, Jamal (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 Meeting de Paris (Paris, FRA)			<i>Omega Timing (2023) - diamond league race analysis</i>											13.21	4 / 2			
date	09-Jun-23	time	2.37	3.42	4.45	5.46	6.47	7.49	8.53	9.56	10.61	11.66						
reaction time	0.136	interval	7 steps	1.05	1.03	1.01	1.01	1.02	1.04	1.03	1.05	1.05	1.55			3.09	3.07	3.13
wind	-0.6 m/s	velocity	5.79	8.70	8.87	9.05	9.05	8.96	8.79	8.87	8.70	8.70	9.05	8.33		8.87	8.93	8.76

Iribarne, Roger (CUB) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)			<i>Omega Timing (2023) - diamond league race analysis</i>											13.21	2 / 1			
date	16-Jul-23	time	2.40	3.45	4.47	5.48	6.48	7.49	8.52	9.55	10.59	11.66						
reaction time	0.157	interval	7 steps	1.05	1.02	1.01	1.00	1.01	1.03	1.03	1.04	1.07	1.55	PB		3.08	3.04	3.14
wind	0.3 m/s	velocity	5.72	8.70	8.96	9.05	9.14	9.05	8.87	8.87	8.79	8.54	9.05	8.33		8.90	9.02	8.73

Tinch, Cordell (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Prefontaine Classic (Eugene, OR)			<i>Omega Timing (2023) - diamond league race analysis</i>											13.21	2 / 7			
date	17-Sep-23	time	2.36	3.41	4.41	5.41	6.41	7.42	8.43	9.47	10.52	11.60						
reaction time	0.148	interval	7 steps	1.05	1.00	1.00	1.00	1.01	1.01	1.04	1.05	1.08	1.61			3.05	3.02	3.17
wind	0.9 m/s	velocity	5.81	8.70	9.14	9.14	9.14	9.05	9.05	8.79	8.70	8.46	8.71	8.33		8.99	9.08	8.65

Dickson, Michael (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)			<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>											13.21	5 / 7			
date	28-Jun-24	time	2.54	3.60	4.64	5.64	6.64	7.66	8.68	9.71	10.75	11.80						
reaction time		interval	7 steps	1.06	1.04	1.00	1.00	1.02	1.02	1.03	1.04	1.05	1.41			3.10	3.04	3.12
wind	2.0 m/s	velocity	5.40	8.62	8.79	9.14	9.14	8.96	8.96	8.87	8.79	8.70	9.94	8.33		8.85	9.02	8.79

Llopis, Enrique (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Meeting de Paris (Paris, FRA)			<i>Omega Timing (2024) - diamond league race analysis</i>											13.21	1 / 4			
date	07-Jul-24	time	2.39	3.47	4.47	5.49	6.49	7.50	8.52	9.55	10.58	11.63						
reaction time	0.146	interval	7 steps	1.08	1.00	1.02	1.00	1.01	1.02	1.03	1.03	1.05	1.58			3.10	3.03	3.11
wind	-0.6 m/s	velocity	5.74	8.46	9.14	8.96	9.14	9.05	8.96	8.87	8.87	8.70	8.87	8.33		8.85	9.05	8.82

Beard, Dylan (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Meeting de Paris (Paris, FRA)			<i>Omega Timing (2024) - diamond league race analysis</i>											13.21	3 / 5			
date	07-Jul-24	time	2.39	3.44	4.45	5.46	6.46	7.45	8.46	9.48	10.53	11.60						
reaction time	0.156	interval		1.05	1.01	1.01	1.00	0.99	1.01	1.02	1.05	1.07	1.61			3.07	3.00	3.14
wind	-0.6 m/s	velocity	5.74	8.70	9.05	9.05	9.14	9.23	9.05	8.96	8.70	8.54	8.71	8.33		8.93	9.14	8.73

Broadbell, Rasheed (JAM) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)			<i>Paris 2024 Olympic Games - Results Book (2024)</i>											13.21	6 / 1			
date	07-Aug-24	time	2.38	3.44	4.48	5.51	6.53	7.54	8.56	9.59	10.64	11.69						
reaction time	0.151	interval	7 steps	1.06	1.04	1.03	1.02	1.01	1.02	1.03	1.05	1.05	1.52			3.13	3.05	3.13
wind	-0.1 m/s	velocity	5.76	8.62	8.79	8.87	8.96	9.05	8.96	8.87	8.70	8.70	9.22	8.33		8.76	8.99	8.76

Muratake, Rachid (JPN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Olympic Games (Paris, FRA)			<i>Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season</i>											13.21	9 / 5			
date	08-Aug-24	time	2.59	3.63	4.66	5.65	6.66	7.68	8.69	9.73	10.75	11.83						
reaction time	0.161	interval	7 steps	1.04	1.03	0.99	1.01	1.02	1.01	1.04	1.02	1.08	1.38			3.06	3.04	3.14
wind	-0.1 m/s	velocity	5.30	8.79	8.87	9.23	9.05	8.96	9.05	8.79	8.96	8.46	10.16	8.33		8.96	9.02	8.73

Dees, Tony (USA) (1963)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1999 IAAF World Championships (Sevilla, ESP)			<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>											13.22	8 / 4			
date	25-Aug-99	time	2.47	3.51	4.53	5.52	6.53	7.53	8.56	9.58	10.64	11.72						
reaction time	0.148	interval		1.04	1.02	0.99	1.01	1.00	1.03	1.02	1.06	1.08	1.50			3.05	3.04	3.16
wind	1.0 m/s	velocity	5.55	8.79	8.96	9.23	9.05	9.14	8.87	8.96	8.62	8.46	9.35	8.32		8.99	9.02	8.68

Olijar, Stanislav (LAT) (1979)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 European Championships (Munich, GER)			<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>											13.22	1 / 2			
date	10-Aug-02	time	2.59	3.61	4.63	5.62	6.63	7.63	8.65	9.67	10.73	11.78						
reaction time	0.157	interval		1.02	1.02	0.99	1.01	1.00	1.02	1.02	1.06	1.05	1.44			3.03	3.03	3.13

wind	0.4 m/s	velocity	5.30	8.96	8.96	9.23	9.05	9.14	8.96	8.96	8.62	8.70	9.74	8.32			9.05	9.05	8.76	
Liu Xiang (CHN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2006 Osaka Grand Prix (Osaka, JPN)													Akirabun (2007) - speed analysis of the 100m and hurdles with a laser system							
date	06-May-06	time	2.42	3.48	4.49	5.50	6.51	7.53	8.55	9.58	10.60	11.67		13.22	/ 1					
reaction time		interval		1.06	1.01	1.01	1.01	1.02	1.02	1.03	1.02	1.07	1.55			3.08	3.05	3.12		
wind	1.2 m/s	velocity	5.67	8.62	9.05	9.05	9.05	8.96	8.96	8.87	8.96	8.54	9.05	8.32		8.90	8.99	8.79		
Wilson, Ryan (USA) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2006 USATF National Championships (Indianapolis, IN)													USATF Men's Hurdle Development (2006)							
date	25-Jun-06	time	2.62	3.65	4.66	5.66	6.66	7.64	8.64	9.68	10.71	11.76		13.22	/ 3					
reaction time		interval		1.03	1.01	1.00	1.00	0.98	1.00	1.04	1.03	1.05	1.46			3.04	2.98	3.12		
wind	-0.4 m/s	velocity	5.24	8.87	9.05	9.14	9.14	9.33	9.14	8.79	8.87	8.70	9.60	8.32		9.02	9.20	8.79		
Payne, David (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2007 USATF National Championships (Indianapolis, IN)													USATF Men's Hurdle Development (2007)							
date	24-Jun-07	time	2.59	3.65	4.65	5.69	6.71	7.72	8.74	9.76	10.81	11.86		13.22	4 / 4					
reaction time		interval		1.06	1.00	1.04	1.02	1.01	1.02	1.02	1.05	1.05	1.36			3.10	3.05	3.12		
wind	0.5 m/s	velocity	5.30	8.62	9.14	8.79	8.96	9.05	8.96	8.96	8.70	8.70	10.31	8.32		8.85	8.99	8.79		
Oliver, David (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)													Graubner (2009) - http://www.fgs.uni-halle.de							
date	14-Sep-08	time	2.65	3.66	4.67	5.68	6.69	7.69	8.71	9.74	10.79	11.84		13.22	6 / 1					
reaction time	0.181	interval		1.01	1.01	1.01	1.01	1.00	1.02	1.03	1.05	1.05	1.38			3.03	3.03	3.13		
wind	-1.3 m/s	velocity	5.18	9.05	9.05	9.05	9.05	9.14	8.96	8.87	8.70	8.70	10.16	8.32		9.05	9.05	8.76		
Payne, David (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2009 ISTAF (Berlin, GER)													Graubner (2009) - http://www.fgs.uni-halle.de							
date	14-Jun-09	time	2.59	3.63	4.66	5.68	6.69	7.71	8.74	9.78	10.83	11.87		13.22	3 / 3					
reaction time	0.181	interval		1.04	1.03	1.02	1.01	1.02	1.03	1.04	1.05	1.04	1.35			3.09	3.06	3.13		
wind	0.7 m/s	velocity	5.30	8.79	8.87	8.96	9.05	8.96	8.87	8.79	8.70	8.79	10.39	8.32		8.87	8.96	8.76		
Oliver, David (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2012 Colorful Daegu Meeting (Daegu, KOR) (TV Analysis)													Henson (2021) - Athlete First: 2012 Aries Merritt world record season							
date	16-May-12	time	2.56	3.60	4.60	5.60	6.60	7.60	8.64	9.67	10.71		13.22	5 / 2						
reaction time	0.180	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.04	1.03	1.04					3.04	3.04			
wind	-0.4 m/s	velocity	5.36	8.79	9.14	9.14	9.14	9.14	8.79	8.87	8.79		8.32			9.02	9.02			
Ortega, Orlando (ESP) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)													Henson (2020) - Athlete First: 2016 year end hurdle report							
date	02-Jun-16	time	2.56	3.60	4.64	5.66	6.66	7.66	8.66	9.68	10.70	11.74		13.22	7 / 1					
reaction time		interval	7 steps	1.04	1.04	1.02	1.00	1.00	1.00	1.02	1.02	1.04	1.48			3.10	3.00	3.08		
wind	0.6 m/s	velocity	5.36	8.79	8.79	8.96	9.14	9.14	9.14	8.96	8.96	8.79	9.47	8.32		8.85	9.14	8.90		
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2016 USA Olympic Trials (Eugene, OR)													Henson (2020) - Athlete First: 2016 year end hurdle report							
date	09-Jul-16	time	2.47	3.49	4.49	5.49	6.47	7.47	8.49	9.54	10.60	11.66		13.22	1 / 4					
reaction time	0.155	interval	7 steps	1.02	1.00	1.00	0.98	1.00	1.02	1.05	1.06	1.06	1.56			3.02	3.00	3.17		
wind	1.0 m/s	velocity	5.55	8.96	9.14	9.14	9.33	9.14	8.96	8.70	8.62	8.62	8.99	8.32		9.08	9.14	8.65		
Shubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)													Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles							
date	06-Aug-17	time	2.46	3.52	4.54	5.54	6.55	7.55	8.56	9.58	10.62	11.70		13.22	9 / 3					
reaction time	0.160	interval	7 steps	1.06	1.02	1.00	1.01	1.00	1.01	1.02	1.04	1.08	1.52			3.08	3.02	3.14		
wind	0.2 m/s	velocity	5.58	8.62	8.96	9.14	9.05	9.14	9.05	8.96	8.79	8.46	9.22	8.32		8.90	9.08	8.73		
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2018 Meeting de Paris (Paris, FRA) (TV Analysis)													Henson (2020) - Athlete First: 2018 year end hurdle report							
date	30-Jun-18	time	2.54	3.58	4.62	5.62	6.62	7.62	8.62	9.66	10.66	11.74		13.22	6 / 2					
reaction time	0.160	interval	7 steps	1.04	1.04	1.00	1.00	1.00	1.00	1.04	1.00	1.08	1.48			3.08	3.00	3.12		
wind	1.5 m/s	velocity	5.40	8.79	8.79	9.14	9.14	9.14	9.14	8.79	9.14	8.46	9.47	8.32		8.90	9.14	8.79		
Levy, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)													Henson (2020) - Athlete First: 2018 year end hurdle report							
date	18-Aug-18	time	2.42	3.54	4.56	5.58	6.58	7.58	8.62	9.62	10.66	11.72		13.22	3 / 2					
reaction time	0.132	interval	7 steps	1.12	1.02	1.02	1.00	1.00	1.04	1.00	1.04	1.06	1.50			3.16	3.04	3.10		
wind	1.3 m/s	velocity	5.67	8.16	8.96	8.96	9.14	9.14	8.79	9.14	8.79	8.62	9.35	8.32		8.68	9.02	8.85		
Levy, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)													Henson (2020) - Athlete First: 2019 year end hurdle report							
date	24-Aug-19	time	2.52	3.56	4.60	5.62	6.64	7.66	8.70	9.70	10.74	11.78		13.22	8 / 4					
reaction time	0.151	interval	7 steps	1.04	1.04	1.02	1.02	1.02	1.04	1.00	1.04	1.04	1.44			3.10	3.08	3.08		
wind	0.8 m/s	velocity	5.44	8.79	8.79	8.96	8.96	8.96	8.79	9.14	8.79	8.79	9.74	8.32		8.85	8.90	8.90		

Ortega, Orlando (ESP) (1991)																
FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)																
date	06-Sep-19	time	2.52	3.56	4.58	5.60	6.58	7.58	8.60	9.64	10.68	11.72		13.22	5 / 1	
reaction time	0.126	interval	7 steps	1.04	1.02	1.02	0.98	1.00	1.02	1.04	1.04	1.04	1.50			3.08 3.00 3.12
wind	0.0 m/s	velocity	5.44	8.79	8.96	8.96	9.33	9.14	8.96	8.79	8.79	8.79	9.35	8.32		8.90 9.14 8.79
Holloway, Grant (USA) (1997)																
Heat 4 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)																
date	30-Sep-19	time	2.38	3.38	4.34	5.32	6.32	7.30	8.32	9.36	10.42	11.56		13.22	8 / 1	
reaction time	0.160	interval	7 steps	1.00	0.96	0.98	1.00	0.98	1.02	1.04	1.06	1.14	1.66			2.94 3.00 3.24
wind	0.4 m/s	velocity	5.76	9.14	9.52	9.33	9.14	9.33	8.96	8.79	8.62	8.02	8.45	8.32		9.33 9.14 8.46
Xie Wenjun (CHN) (1990)																
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)																
date	02-Oct-19	time	2.56	3.60	4.63	5.64	6.66	7.67	8.68	9.69	10.73	11.78		13.22	7 / 3	
reaction time	0.137	interval	7 steps	1.04	1.03	1.01	1.02	1.01	1.01	1.01	1.04	1.05	1.44			3.08 3.04 3.10
wind	0.9 m/s	velocity	5.36	8.79	8.87	9.05	8.96	9.05	9.05	9.05	8.79	8.70	9.74	8.32		8.90 9.02 8.85
Holloway, Grant (USA) (1997)																
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)																
date	19-Aug-20	time	2.36	3.37	4.34	5.34	6.31	7.34	8.34	9.44	10.51	11.64		13.22	3 / 2	
reaction time	0.141	interval	7 steps	1.01	0.97	1.00	0.97	1.03	1.00	1.10	1.07	1.13	1.58			2.98 3.00 3.30
wind	0.3 m/s	velocity	5.81	9.05	9.42	9.14	9.42	8.87	9.14	8.31	8.54	8.09	8.87	8.32		9.20 9.14 8.31
Levy, Ronald (JAM) (1992)																
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)																
date	13-Jul-21	time	2.54	3.60	4.64	5.66	6.66	7.68	8.70	9.70	10.76	11.82		13.22	4 / 1	
reaction time	0.150	interval	7 steps	1.06	1.04	1.02	1.00	1.02	1.02	1.00	1.06	1.06	1.40			3.12 3.04 3.12
wind	0.8 m/s	velocity	5.40	8.62	8.79	8.96	9.14	8.96	8.96	9.14	8.62	8.62	10.01	8.32		8.79 9.02 8.79
Roberts, Daniel (USA) (1998)																
Heat 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)																
date	25-Jun-21	time	2.46	3.50	4.53	5.53	6.53	7.53	8.56	9.60	10.63	11.70		13.22	1 / 1	
reaction time	0.182	interval		1.04	1.03	1.00	1.00	1.00	1.03	1.04	1.03	1.07	1.52			3.07 3.03 3.14
wind	1.5 m/s	velocity	5.58	8.79	8.87	9.14	9.14	9.14	8.87	8.79	8.87	8.54	9.22	8.32		8.93 9.05 8.73
Kanai, Taio (JPN) (1995)																
FINAL - 2021 Japanese National Championships (Osaka, JPN)																
date	27-Jun-21	time	2.52	3.55	4.56	5.59	6.61	7.63	8.66	9.72	10.76	11.82		13.22	9 / 2	
reaction time	0.141	interval	7 steps	1.03	1.01	1.03	1.02	1.02	1.03	1.06	1.04	1.06	1.40			3.07 3.07 3.16
wind	1.2 m/s	velocity	5.44	8.87	9.05	8.87	8.96	8.96	8.87	8.62	8.79	8.62	10.01	8.32		8.93 8.93 8.68
Martinez, Asier (ESP) (2000)																
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	06-Aug-21	time	2.56	3.60	4.64	5.66	6.66	7.68	8.70	9.72	10.76	11.80		13.22	2 / 6	
reaction time	0.155	interval	7 steps	1.04	1.04	1.02	1.00	1.02	1.02	1.02	1.04	1.04	1.42	PB		3.10 3.04 3.10
wind	-0.5 m/s	velocity	5.36	8.79	8.79	8.96	9.14	8.96	8.96	8.96	8.79	8.79	9.87	8.32		8.85 9.02 8.85
Britt, Jamal (USA) (1998)																
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)																
date	12-Jun-22	time	2.43	3.52	4.53	5.55	6.55	7.58	8.62	9.65	10.72	11.76		13.22	3 / 4	
reaction time	0.139	interval	7 steps	1.09	1.01	1.02	1.00	1.03	1.04	1.03	1.07	1.04	1.46	PB		3.12 3.07 3.14
wind	1.6 m/s	velocity	5.65	8.39	9.05	8.96	9.14	8.87	8.79	8.87	8.54	8.79	9.60	8.32		8.79 8.93 8.73
Allen, Devon (USA) (1994)																
FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)																
date	16-Jun-22	time	2.52	3.56	4.57	5.58	6.56	7.58	8.60	9.62	10.70	11.80		13.22	5 / 1	
reaction time	0.140	interval	7 steps	1.04	1.01	1.01	0.98	1.02	1.02	1.02	1.08	1.10	1.42			3.06 3.02 3.20
wind	-1.2 m/s	velocity	5.44	8.79	9.05	9.05	9.33	8.96	8.96	8.96	8.46	8.31	9.87	8.32		8.96 9.08 8.57
Czykier, Damian (POL) (1992)																
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																
date	17-Jul-22	time	2.56	3.58	4.60	5.60	6.60	7.58	8.60	9.63	10.70	11.78		13.22	6 / 4	
reaction time	0.135	interval	7 steps	1.02	1.02	1.00	1.00	0.98	1.02	1.03	1.07	1.08	1.44			3.04 3.00 3.18
wind	2.5 m/s	velocity	5.36	8.96	8.96	9.14	9.14	9.33	8.96	8.87	8.54	8.46	9.74	8.32		9.02 9.14 8.62
Izumiya, Shunsuke (JPN) (2000)																
FINAL - 2023 Athletissima (Lausanne, SUI)																
date	30-Jun-23	time	2.33	3.40	4.42	5.45	6.46	7.47	8.50	9.55	10.60	11.67		13.22	4 / 1	
reaction time	0.101	interval	7 steps	1.07	1.02	1.03	1.01	1.01	1.03	1.05	1.05	1.07	1.55			3.12 3.05 3.17
wind	-1.0 m/s	velocity	5.89	8.54	8.96	8.87	9.05	9.05	8.87	8.70	8.70	8.54	9.05	8.32		8.79 8.99 8.65

Mason, Tyler (JAM) (1995)																
FINAL - 2023 Jamaican National Championships (Kingston, JAM) (TV Analysis)																
date	09-Jul-23	time	2.53	3.58	4.62	5.62	6.60	7.60	8.62	9.65	10.67	11.72	13.22	5 / 4		
reaction time		interval	7 steps	1.05	1.04	1.00	0.98	1.00	1.02	1.03	1.02	1.05	1.50		3.09	3.00
wind	0.7 m/s	velocity	5.42	8.70	8.79	9.14	9.33	9.14	8.96	8.87	8.96	8.70	9.35	8.32	8.87	9.14
Muratake, Rachid (JPN) (2002)																
FINAL - 2024 Seiko Golden Grand Prix (Tokyo, JPN)																
date	19-May-24	time	2.60	3.65	4.65	5.68	6.68	7.69	8.73	9.75	10.80	11.83	13.22	6 / 1		
reaction time	0.144	interval	7 steps	1.05	1.00	1.03	1.00	1.01	1.04	1.02	1.05	1.03	1.39		3.08	3.05
wind	-0.6 m/s	velocity	5.28	8.70	9.14	8.87	9.14	9.05	8.79	8.96	8.70	8.87	10.09	8.32	8.90	8.99
Xu Zhuoyi (CHN) (2003)																
FINAL - 2024 Fuse Sprint (Tottori, JPN)																
date	02-Jun-24	time	2.61	3.65	4.70	5.72	6.72	7.74	8.75	9.76	10.79	11.83	13.22	7 / 1		
reaction time	0.163	interval	7 steps	1.04	1.05	1.02	1.00	1.02	1.01	1.01	1.03	1.04	1.39	=PB	3.11	3.03
wind	1.3 m/s	velocity	5.26	8.79	8.70	8.96	9.14	8.96	9.05	9.05	8.87	8.79	10.09	8.32	8.82	9.05
Obasuyi, Michael (BEL) (1999)																
Heat 1 - 2024 Meeting de Paris (Paris, FRA)																
date	07-Jul-24	time	2.43	3.50	4.53	5.53	6.54	7.56	8.58	9.60	10.64	11.68	13.22	7 / 3		
reaction time	0.129	interval	7 steps	1.07	1.03	1.00	1.01	1.02	1.02	1.04	1.04	1.04	1.54		3.10	3.05
wind	0.1 m/s	velocity	5.65	8.54	8.87	9.14	9.05	8.96	8.96	8.96	8.79	8.79	9.10	8.32	8.85	8.99
Muratake, Rachid (JPN) (2002)																
Heat 1 - 2024 Olympic Games (Paris, FRA)																
date	04-Aug-24	time	2.58	3.62	4.63	5.65	6.66	7.66	8.69	9.73	10.78	11.85	13.22	8 / 1		
reaction time	0.139	interval	7 steps	1.04	1.01	1.02	1.01	1.00	1.03	1.04	1.05	1.07	1.37		3.07	3.04
wind	0.1 m/s	velocity	5.32	8.79	9.05	8.96	9.05	9.14	8.87	8.79	8.70	8.54	10.23	8.32	8.93	9.02
Simonelli, Lorenzo Ndele (ITA) (2002)																
FINAL - 2024 Memorial van damme (Brussels, BEL)																
date	13-Sep-24	time	2.39	3.44	4.46	5.49	6.49	7.51	8.52	9.55	10.60	11.65	13.22	4 / 2		
reaction time	0.136	interval	7 steps	1.05	1.02	1.03	1.00	1.02	1.01	1.03	1.05	1.05	1.57		3.10	3.03
wind	0.4 m/s	velocity	5.74	8.70	8.96	8.87	9.14	8.96	9.05	8.87	8.70	8.70	8.93	8.32	8.85	9.05
Swift, Eugene (USA) (1964)																
FINAL - 1996 Olympic Games (Atlanta, GA)																
date	26-Jul-96	time	2.36	3.42	4.44	5.47	6.48	7.47	8.46	9.50	10.55	11.62	13.23	4 / 6		
reaction time	0.151	interval		1.06	1.02	1.03	1.01	0.99	0.99	1.04	1.05	1.07	1.61		3.11	2.99
wind	0.8 m/s	velocity	5.81	8.62	8.96	8.87	9.05	9.23	9.23	8.79	8.70	8.54	8.71	8.31	8.82	9.17
Schwarthoff, Florian (GER) (1968)																
FINAL - 1998 European Championships (Budapest, HUN)																
date	22-Aug-98	time	2.59	3.64	4.68	5.68	6.70	7.70	8.71	9.75	10.78	11.83	13.23	4 / 4		
reaction time		interval		1.05	1.04	1.00	1.02	1.00	1.01	1.04	1.03	1.05	1.40		3.09	3.03
wind	1.5 m/s	velocity	5.30	8.70	8.79	9.14	8.96	9.14	9.05	8.79	8.87	8.70	10.01	8.31	8.87	9.05
Liu Xiang (CHN) (1983)																
FINAL - 2003 IAAF World Championships (Paris, FRA)																
date	30-Aug-03	time	2.58	3.63	4.65	5.65	6.67	7.68	8.70	9.74	10.80	11.85	13.23	5 / 3		
reaction time	0.140	interval		1.05	1.02	1.00	1.02	1.01	1.02	1.04	1.06	1.05	1.38		3.07	3.05
wind	0.3 m/s	velocity	5.32	8.70	8.96	9.14	8.96	9.05	8.96	8.79	8.62	8.70	10.16	8.31	8.93	8.99
Liu Xiang (CHN) (1983)																
FINAL - 2005 Chinese National Grand Prix (Zhongshan, CHN)																
date	24-Apr-05	time	2.43	3.52	4.56	5.58	6.59	7.59	8.60	9.65	10.71	11.79	13.23	/ 1		
reaction time		interval		1.10	1.04	1.02	1.01	1.00	1.01	1.05	1.06	1.08	1.45		3.15	3.02
wind	1.4 m/s	velocity	5.66	8.35	8.79	9.00	9.05	9.14	9.05	8.69	8.60	8.50	9.70	8.31	8.70	9.08
Moore, Anwar (USA) (1979)																
FINAL - 2007 USATF National Championships (Indianapolis, IN)																
date	24-Jun-07	time	2.62	3.67	4.70	5.72	6.72	7.71	8.70	9.74	10.78	11.85	13.23	8 / 5		
reaction time		interval		1.05	1.03	1.02	1.00	0.99	0.99	1.04	1.04	1.07	1.38		3.10	2.98
wind	0.5 m/s	velocity	5.24	8.70	8.87	8.96	9.14	9.23	9.23	8.79	8.79	8.54	10.16	8.31	8.85	9.20
Trammell, Terrence (USA) (1978)																
Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)																
date	30-Aug-07	time	2.55	3.58	4.60	5.62	6.62	7.64	8.64	9.67	10.72	11.79	13.23	7 / 1		
reaction time	0.223	interval		1.03	1.02	1.02	1.00	1.02	1.00	1.03	1.05	1.07	1.44		3.07	3.02
wind	0.4 m/s	velocity	5.38	8.87	8.96	8.96	9.14	8.96	9.14	8.87	8.70	8.54	9.74	8.31	8.93	9.08
Faulk, Dexter (USA) (1984)																

FINAL - 2012 USA Olympic Trials (Eugene, OR)

date	30-Jun-12	time	2.42	3.46	4.48	5.50	6.56	7.60	8.62	9.64	10.69	11.74	<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>		13.23	8 / 6			
reaction time	0.142	interval		1.04	1.02	1.02	1.06	1.04	1.02	1.02	1.05	1.05	1.49				3.08	3.12	3.12
wind	1.2 m/s	velocity	5.67	8.79	8.96	8.96	8.62	8.79	8.96	8.96	8.70	8.70	9.41	8.31			8.90	8.79	8.79

Richardson, Jason (USA) (1986)

Heat 2 - 2012 AVIVA Grand Prix (London, GBR) (TV Analysis)												Henson (2021) - Athlete First: 2012 Aries Merritt world record season					
date	13-Jul-12	time	2.48	3.54	4.56	5.58	6.60	7.62	8.64	9.66	10.68	11.76	13.23	3 / 2			
reaction time	0.161	interval	7 steps	1.06	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.08	1.47	3.10 3.06 3.12			
wind	-0.9 m/s	velocity	5.53	8.62	8.96	8.96	8.96	8.96	8.96	8.96	8.96	8.46	9.54	8.31	8.85 8.96 8.79		

Brathwaite, Ryan (BAR) (1988)

Semi-Final 2 - 2012 Olympic Games (London, GBR) (TV Analysis)												Henson (2020) - Athlete First: 2012 Aries Merritt world record season					
date	08-Aug-12	time	2.48	3.50	4.52	5.52	6.52	7.54	8.56	9.58	10.60	11.70	13.23	4 / 2			
reaction time	0.159	interval		1.02	1.02	1.00	1.00	1.02	1.02	1.02	1.02	1.10	1.53		3.04	3.04	3.14
wind	0.1 m/s	velocity	5.53	8.96	8.96	9.14	9.14	8.96	8.96	8.96	8.96	8.31	9.16	8.31	9.02	9.02	8.73

Xie Wenjun (CHN) (1990)

FINAL - 2014 Golden Grand Prix (Shanghai, CHN)										Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles							
date	18-May-14	time	2.54	3.60	4.62	5.62	6.62	7.64	8.66	9.70	10.74	11.82	13.23	/ 1			
reaction time	0.136	interval		1.06	1.02	1.00	1.00	1.02	1.02	1.04	1.04	1.08	1.41	PB	3.08	3.04	3.16
wind	-0.5 m/s	velocity	5.40	8.62	8.96	9.14	9.14	8.96	8.96	8.79	8.79	8.46	9.94	8.31	8.90	9.02	8.68

Baji, Balázs (HUN) (1989)

FINAL - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)													Henson (2020) - Athlete First: 2017 year end hurdle report				
date	28-Jun-17	time	2.52	3.56	4.58	5.60	6.60	7.60	8.62	9.64	10.68	11.74	13.23	6 / 2			
reaction time	0.152	interval	7 steps	1.04	1.02	1.02	1.00	1.00	1.02	1.02	1.04	1.06	1.49	NR PB	3.08	3.02	3.12
wind	0.6 m/s	velocity	5.44	8.79	8.96	8.96	9.14	9.14	8.96	8.96	8.79	8.62	9.41	8.31	8.90	9.08	8.79

Ortega, Orlando (ESP) (1991)

Semi-Final 1 - 2017 IAAF World Championships (London, GBR)										Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles							
date	06-Aug-17	time	2.45	3.51	4.54	5.56	6.60	7.61	8.60	9.62	10.66	11.71	13.23	4 / 4			
reaction time	0.148	interval		1.06	1.03	1.02	1.04	1.01	0.99	1.02	1.04	1.05	1.52		3.11	3.04	3.11
wind	0.2 m/s	velocity	5.60	8.62	8.87	8.96	8.79	9.05	9.23	8.96	8.79	8.70	9.22	8.31	8.82	9.02	8.82

Baji, Balázs (HUN) (1989)

Semi-Final 3 - 2017 IAAF World Championships (London, GBR)										Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles							
date	06-Aug-17	time	2.34	3.40	4.44	5.46	6.48	7.50	8.51	9.54	10.57	11.63	13.23	5 / 1			
reaction time	0.120	interval	7 steps	1.06	1.04	1.02	1.02	1.02	1.01	1.03	1.03	1.06	1.60		3.12	3.05	3.12
wind	0.3 m/s	velocity	5.86	8.62	8.79	8.96	8.96	8.96	9.05	8.87	8.87	8.62	8.76	8.31	8.79	8.99	8.79

Constantino, Gabriel (BRA) (1995)

FINAL - 2018 Meeting International de Montreuil (Montreuil, FRA) (TV Analysis)													Henson (2020) - Athlete First: 2018 year end hurdle report				
date	19-Jun-18	time	2.64	3.66	4.68	5.68	6.68	7.68	8.70	9.74	10.78	11.86	13.23	1 / 2			
reaction time	0.165	interval	7 steps	1.02	1.02	1.00	1.00	1.00	1.02	1.04	1.04	1.08	1.37	AR PB	3.04	3.02	3.16
wind	0.5 m/s	velocity	5.20	8.96	8.96	9.14	9.14	9.14	8.96	8.79	8.79	8.46	10.23	8.31	9.02	9.08	8.68

Allen, Devon (USA) (1994)

FINAL - 2018 Meeting de Paris (Paris, FRA) (TV Analysis)													Henson (2020) - Athlete First: 2018 year end hurdle report				
date	30-Jun-18	time	2.52	3.56	4.60	5.64	6.64	7.68	8.70	9.70	10.72	11.76	13.23	1 / 3			
reaction time	0.123	interval		1.04	1.04	1.04	1.00	1.04	1.02	1.00	1.02	1.04	1.47		3.12	3.06	3.06
wind	1.5 m/s	velocity	5.44	8.79	8.79	8.79	9.14	8.79	8.96	9.14	8.96	8.79	9.54	8.31	8.79	8.96	8.96

Roberts, Daniel (USA) (1998)

FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)													Henson (2020) - Athlete First: 2019 year end hurdle report				
date	28-Jul-19	time	2.46	3.50	4.54	5.57	6.57	7.60	8.61	9.64	10.67	11.73	13.23	4 / 1			
reaction time		interval		1.04	1.04	1.03	1.00	1.03	1.01	1.03	1.03	1.06	1.50		3.11	3.04	3.12
wind	-0.8 m/s	velocity	5.58	8.79	8.79	8.87	9.14	8.87	9.05	8.87	8.87	8.62	9.35	8.31	8.82	9.02	8.79

Mallett, Aaron (USA) (1994)

FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)													Henson (2020) - Athlete First: 2020 year end hurdle report				
date	17-Sep-20	time	2.52	3.58	4.60	5.62	6.66	7.68	8.68	9.70	10.72	11.78	13.23	3 / 2			
reaction time	0.149	interval		1.06	1.02	1.02	1.04	1.02	1.00	1.02	1.02	1.06	1.45	PB	3.10	3.06	3.10
wind	0.1 m/s	velocity	5.44	8.62	8.96	8.96	8.79	8.96	9.14	8.96	8.96	8.62	9.67	8.31	8.85	8.96	8.85

Cunningham, Trey (USA) (1998)

Heat 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report				
date	25-Jun-21	time	2.43	3.46	4.50	5.50	6.50	7.50	8.56	9.60	10.66	11.73	13.23	3 / 2			
reaction time	0.162	interval	7 steps	1.03	1.04	1.00	1.00	1.00	1.06	1.04	1.06	1.07	1.50	PB	3.07	3.06	3.17
wind	1.5 m/s	velocity	5.65	8.87	8.79	9.14	9.14	9.14	8.62	8.79	8.62	8.54	9.35	8.31	8.93	8.96	8.65

Parchment, Hansle (JAM) (1990)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)										<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					

date	03-Aug-21	time	2.51	3.56	4.59	5.59	6.59	7.59	8.61	9.63	10.64	11.70		13.23	7 / 2			
reaction time	0.155	interval	7 steps	1.05	1.03	1.00	1.00	1.00	1.02	1.02	1.01	1.06	1.53			3.08	3.02	3.09
wind	-0.1 m/s	velocity	5.47	8.70	8.87	9.14	9.14	9.14	8.96	8.96	9.05	8.62	9.16	8.31		8.90	9.08	8.87
Levy, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>															
date	04-Aug-21	time	2.47	3.55	4.58	5.58	6.60	7.64	8.65	9.66	10.69	11.72		13.23	7 / 1			
reaction time	0.154	interval	7 steps	1.08	1.03	1.00	1.02	1.04	1.01	1.01	1.03	1.03	1.51			3.11	3.07	3.07
wind	0.3 m/s	velocity	5.55	8.46	8.87	9.14	8.96	8.79	9.05	9.05	8.87	8.87	9.28	8.31		8.82	8.93	8.93
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>															
date	04-Aug-21	time	2.61	3.64	4.64	5.64	6.64	7.62	8.61	9.68	10.69	11.73		13.23	6 / 2			
reaction time	0.145	interval	7 steps	1.03	1.00	1.00	1.00	0.98	0.99	1.07	1.01	1.04	1.50			3.03	2.97	3.12
wind	-0.1 m/s	velocity	5.26	8.87	9.14	9.14	9.14	9.33	9.23	8.54	9.05	8.79	9.35	8.31		9.05	9.23	8.79
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Athletissima (Lausanne, SUI) (TV Analysis)			<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	26-Aug-21	time	2.48	3.52	4.56	5.56	6.58	7.60	8.62	9.66	10.72	11.78		13.23	7 / 4			
reaction time	0.178	interval		1.04	1.04	1.00	1.02	1.02	1.02	1.04	1.06	1.06	1.45			3.08	3.06	3.16
wind	2.5 m/s	velocity	5.53	8.79	8.79	9.14	8.96	8.96	8.96	8.79	8.62	8.62	9.67	8.31		8.90	8.96	8.68
Pereira, Rafael (BRA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	16-Jul-22	time	2.50	3.56	4.63	5.63	6.63	7.63	8.66	9.66	10.70	11.76		13.23	6 / 2			
reaction time	0.140	interval		1.06	1.07	1.00	1.00	1.00	1.03	1.00	1.04	1.06	1.47			3.13	3.03	3.10
wind	0.2 m/s	velocity	5.49	8.62	8.54	9.14	9.14	9.14	8.87	9.14	8.79	8.62	9.54	8.31		8.76	9.05	8.85
Belocian, Wilhem (FRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>															
date	21-Aug-23	time	2.50	3.52	4.53	5.53	6.55	7.56	8.60	9.63	10.72	11.77		13.23	4 / 3			
reaction time	0.140	interval	7 steps	1.02	1.01	1.00	1.02	1.01	1.04	1.03	1.09	1.05	1.46			3.03	3.07	3.17
wind	-0.1 m/s	velocity	5.49	8.96	9.05	9.14	8.96	9.05	8.79	8.87	8.39	8.70	9.60	8.31		9.05	8.93	8.65
Edwards, Eric (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>															
date	24-Jun-23	time	2.50	3.54	4.59	5.61	6.62	7.64	8.67	9.71	10.76	11.83		13.23	8 / 4			
reaction time	0.127	interval		1.04	1.05	1.02	1.01	1.02	1.03	1.04	1.05	1.07	1.40			3.11	3.06	3.16
wind	1.6 m/s	velocity	5.49	8.79	8.70	8.96	9.05	8.96	8.87	8.79	8.70	8.54	10.01	8.31		8.82	8.96	8.68
Joseph, Jason (SUI) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Athletissima (Lausanne, SUI)			<i>Omega Timing (2023) - diamond league race analysis</i>															
date	30-Jun-23	time	2.40	3.47	4.49	5.50	6.50	7.50	8.52	9.58	10.63	11.68		13.23	5 / 2			
reaction time	0.153	interval	7 steps	1.07	1.02	1.01	1.00	1.00	1.02	1.06	1.05	1.05	1.55			3.10	3.02	3.16
wind	-1.0 m/s	velocity	5.72	8.54	8.96	9.05	9.14	9.14	8.96	8.62	8.70	8.70	9.05	8.31		8.85	9.08	8.68
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>															
date	09-Jul-23	time	2.53	3.57	4.60	5.60	6.60	7.61	8.63	9.66	10.73	11.77		13.23	7 / 3			
reaction time		interval		1.04	1.03	1.00	1.00	1.01	1.02	1.03	1.07	1.04	1.46			3.07	3.03	3.14
wind	-0.2 m/s	velocity	5.42	8.79	8.87	9.14	9.14	9.05	8.96	8.87	8.54	8.79	9.60	8.31		8.93	9.05	8.73
Belocian, Wilhem (FRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>															
date	21-Aug-23	time	2.50	3.52	4.53	5.53	6.55	7.56	8.60	9.63	10.72	11.77		13.23	4 / 3			
reaction time	0.140	interval		1.02	1.01	1.00	1.02	1.01	1.04	1.03	1.09	1.05	1.46			3.03	3.07	3.17
wind	-0.1 m/s	velocity	5.49	8.96	9.05	9.14	8.96	9.05	8.79	8.87	8.39	8.70	9.60	8.31		9.05	8.93	8.65
Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)			<i>Omega Timing (2024) - diamond league race analysis</i>															
date	27-Apr-24	time	2.57	3.62	4.65	5.67	6.65	7.65	8.72	9.76	10.81	11.87		13.23	3 / 2			
reaction time	0.146	interval	7 steps	1.05	1.03	1.02	0.98	1.00	1.07	1.04	1.05	1.06	1.36			3.10	3.05	3.15
wind	0.8 m/s	velocity	5.34	8.70	8.87	8.96	9.33	9.14	8.54	8.79	8.70	8.62	10.31	8.31		8.85	8.99	8.70
Murray, Cameron (USA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)			<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>															
date	24-Jun-24	time	2.55	3.60	4.63	5.66	6.65	7.63	8.66	9.68	10.73	11.80		13.23	7 / 4			
reaction time		interval	7 steps	1.05	1.03	1.03	0.99	0.98	1.03	1.02	1.05	1.07	1.43			3.11	3.00	3.14
wind	1.2 m/s	velocity	5.38	8.70	8.87	8.87	9.23	9.33	8.87	8.96	8.70	8.54	9.80	8.31		8.82	9.14	8.73
Scott, Ja'Qualon (USA) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)			<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>															
date	27-Jun-24	time	2.57	3.60	4.62	5.62	6.63	7.65	8.67	9.70	10.72	11.78		13.23	6 / 2			

reaction time		interval	7 steps	1.03	1.02	1.00	1.01	1.02	1.02	1.03	1.02	1.06	1.45			3.05	3.05	3.11
wind	-0.2 m/s	velocity	5.34	8.87	8.96	9.14	9.05	8.96	8.96	8.87	8.96	8.62	9.67	8.31		8.99	8.99	8.82

Llopis, Enrique (ESP) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2024 Meeting de Paris (Paris, FRA)													Omega Timing (2024) - diamond league race analysis					
date	07-Jul-24	time	2.46	3.52	4.51	5.54	6.54	7.55	8.57	9.60	10.63	11.67	13.23	3 / 4				
reaction time	0.144	interval	7 steps	1.06	0.99	1.03	1.00	1.01	1.02	1.03	1.03	1.04	1.56			3.08	3.03	3.10
wind	0.1 m/s	velocity	5.58	8.62	9.23	8.87	9.14	9.05	8.96	8.87	8.87	8.79	8.99	8.31		8.90	9.05	8.85

Crittenden, Freddie (USA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)					
date	07-Aug-24	time	2.37	3.43	4.47	5.49	6.50	7.52	8.56	9.58	10.63	11.66	13.23	2 / 2				
reaction time	0.139	interval		1.06	1.04	1.02	1.01	1.02	1.04	1.02	1.05	1.03	1.57			3.12	3.07	3.10
wind	-0.1 m/s	velocity	5.79	8.62	8.79	8.96	9.05	8.96	8.79	8.96	8.70	8.87	8.93	8.31		8.79	8.93	8.85

Parchment, Hansle (JAM) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Athletissima (Lausanne, SUI)													Omega Timing (2024) - diamond league race analysis					
date	22-Aug-24	time	2.44	3.49	4.49	5.49	6.49	7.49	8.49	9.50	10.55	11.63	13.23	7 / 3				
reaction time	0.154	interval	7 steps	1.05	1.00	1.00	1.00	1.00	1.00	1.01	1.05	1.08	1.60			3.05	3.00	3.14
wind	-0.1 m/s	velocity	5.62	8.70	9.14	9.14	9.14	9.14	9.14	9.05	8.70	8.46	8.76	8.31		8.99	9.14	8.73

Milburn, Rodney (USA) (1950)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1972 Olympic Games (Munich, FRG)												Kay (1972) - BAAB Munich Technical Report						
date	07-Sep-72	time	2.5	3.5	4.5	5.6	6.6	7.6	8.6	9.6	10.6	11.7	13.24	5 / 1				
reaction time		interval		1.00	1.00	1.10	1.00	1.00	1.00	1.00	1.00	1.10	1.54			3.10	3.00	3.10
wind	0.3 m/s	velocity	5.49	9.14	9.14	8.31	9.14	9.14	9.14	9.14	9.14	8.31	9.10	8.31		8.85	9.14	8.85

Dees, Tony (USA) (1963)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1992 Olympic Games (Barcelona, ESP)												Knight (1992) - 1992 Olympic report: the hurdling events						
date	03-Aug-92	time	2.53	3.56	4.56	5.57	6.59	7.60	8.64	9.69	10.78	11.85	13.24	7 / 2				
reaction time	0.159	interval		1.03	1.00	1.01	1.02	1.01	1.04	1.05	1.09	1.07	1.39			3.04	3.07	3.21
wind	0.8 m/s	velocity	5.42	8.87	9.14	9.05	8.96	9.05	8.79	8.70	8.39	8.54	10.09	8.31		9.02	8.93	8.54

Olijar, Stanislav (LAT) (1979)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2006 European Championships (Göteborg, SWE) (TV Analysis)													Graubner (2009) - http://www.fgs.uni-halle.de				
date	12-Aug-06	time	2.64	3.68	4.70	5.71	6.69	7.68	8.70	9.72	10.76	11.84	13.24	1 / 1			
reaction time	0.151	interval		1.04	1.02	1.01	0.98	0.99	1.02	1.02	1.04	1.08	1.40		3.07	2.99	3.14
wind	-1.0 m/s	velocity	5.20	8.79	8.96	9.05	9.33	9.23	8.96	8.96	8.79	8.46	10.01	8.31	8.93	9.17	8.73

Merritt, Aries (USA) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 USATF National Championships (Indianapolis, IN)															USATF Men's Hurdle Development (2007)		
date	24-Jun-07	time	2.65	3.72	4.74	5.76	6.76	7.77	8.76	9.79	10.83	11.85	13.24	7 / 6			
reaction time		interval		1.07	1.02	1.02	1.00	1.01	0.99	1.03	1.04	1.02	1.39		3.11	3.00	3.09
wind	0.5 m/s	velocity	5.18	8.54	8.96	8.96	9.14	9.05	9.23	8.87	8.79	8.96	10.09	8.31	8.82	9.14	8.87

Doucouré, Ladji (FRA) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2008 Olympic Games (Beijing, CHN)										Tsiokanos (2018) - race pattern of men's 110m hurdles- time analysis of olympic hurdle performance								
date	21-Aug-08	time	2.58	3.64	4.66	5.68	6.69	7.68	8.69	9.73	10.78	11.84	13.24	8 / 4				
reaction time	0.170	interval		1.06	1.02	1.02	1.01	0.99	1.01	1.04	1.05	1.06	1.40			3.10	3.01	3.15
wind	0.1 m/s	velocity	5.32	8.62	8.96	8.96	9.05	9.23	9.05	8.79	8.70	8.62	10.01	8.31		8.85	9.11	8.70

Trammell, Terrence (USA) (1978)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)										Graubner (2009) - biomechanical analyses at the 12th IAAF world championships							
date	20-Aug-09	time	2.54	3.58	4.59	5.61	6.62	7.65	8.68	9.71	10.76	11.83	13.24	6 / 1			
reaction time	0.160	interval		1.04	1.01	1.02	1.01	1.03	1.03	1.03	1.05	1.07	1.41		3.07	3.07	3.15
wind	0.9 m/s	velocity	5.40	8.79	9.05	8.96	9.05	8.87	8.87	8.87	8.70	8.54	9.94	8.31	8.93	8.93	8.70

Payne, David (USA) (1982)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)										Graubner (2009) - biomechanical analyses at the 12th IAAF world championships							
date	20-Aug-09	time	2.60	3.65	4.68	5.69	6.71	7.75	8.78	9.80	10.83	11.89	13.24	7 / 2			
reaction time	0.151	interval		1.05	1.03	1.01	1.02	1.04	1.03	1.02	1.03	1.06	1.35		3.09	3.09	3.11
wind	0.6 m/s	velocity	5.28	8.70	8.87	9.05	8.96	8.79	8.87	8.96	8.87	8.62	10.39	8.31	8.87	8.87	8.82

Wilson, Ryan (USA) (1980)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 USA Olympic Trials (Eugene, OR)												Henson (2020) - Athlete First: 2012 Aries Merritt world record season					
date	30-Jun-12	time	2.43	3.45	4.45	5.42	6.40	7.39	8.37	9.47	10.54	11.61	13.24	7 / 7			
reaction time	0.179	interval	7 steps	1.02	1.00	0.97	0.98	0.99	0.98	1.10	1.07	1.07	1.63		2.99	2.95	3.24
wind	1.2 m/s	velocity	5.65	8.96	9.14	9.42	9.33	9.23	9.33	8.31	8.54	8.54	8.60	8.31	9.17	9.29	8.46

Fourie, Lehann (RSA) (1987)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)													Henson (2020) - Athlete First: 2012 Aries Merritt world record season					
date	07-Sep-12	time	2.48	3.52	4.52	5.52	6.52	7.54	8.58	9.60	10.62	11.70	13.24	3 / 6				
reaction time	0.133	interval	7 steps	1.04	1.00	1.00	1.00	1.02	1.04	1.02	1.02	1.08	1.54	AR		3.04	3.06	3.12

wind	0.3 m/s	velocity	5.53	8.79	9.14	9.14	9.14	8.96	8.79	8.96	8.96	8.46	9.10	8.31		9.02	8.96	8.79	
Shubenkov, Sergey (RUS) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)															<i>Henson (2021) - Athlete First: major championships report</i>				
date	12-Aug-13	time	2.56	3.58	4.58	5.56	6.58	7.62	8.66	9.68	10.72	11.80		13.24	5 / 3		3.00	3.10	3.14
reaction time	0.154	interval	1.02	1.00	0.98	1.02	1.04	1.04	1.02	1.04	1.08	1.44					9.14	8.85	8.73
wind	0.3 m/s	velocity	5.36	8.96	9.14	9.33	8.96	8.79	8.79	8.96	8.79	8.46	9.74	8.31					
Bascou, Dimitri (FRA) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)															<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	16-Aug-16	time	2.50	3.52	4.54	5.56	6.56	7.62	8.66	9.72	10.76	11.80		13.24	6 / 3		3.06	3.10	3.14
reaction time	0.131	interval	7 steps	1.02	1.02	1.02	1.00	1.06	1.04	1.06	1.04	1.04	1.44				8.96	8.85	8.73
wind	0.2 m/s	velocity	5.49	8.96	8.96	8.96	9.14	8.62	8.79	8.62	8.79	8.79	9.74	8.31					
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)															<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	29-Apr-17	time	2.50	3.53	4.53	5.53	6.50	7.53	8.53	9.55	10.60	11.66		13.24	3 / 2		3.03	3.00	3.13
reaction time		interval	7 steps	1.03	1.00	1.00	0.97	1.03	1.00	1.02	1.05	1.06	1.58				9.05	9.14	8.76
wind	1.8 m/s	velocity	5.49	8.87	9.14	9.14	9.42	8.87	9.14	8.96	8.70	8.62	8.87	8.31					
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)															<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	08-Jun-17	time	2.48	3.52	4.52	5.52	6.52	7.50	8.52	9.58	10.62	11.74		13.24	5 / 4		3.04	3.00	3.22
reaction time	0.119	interval	7 steps	1.04	1.00	1.00	1.00	0.98	1.02	1.06	1.04	1.12	1.50				9.02	9.14	8.52
wind	-0.3 m/s	velocity	5.53	8.79	9.14	9.14	9.14	9.33	8.96	8.62	8.79	8.16	9.35	8.31					
Alkana, Antonio (RSA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Meeting de Paris (Paris, FRA) (TV Analysis)															<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	01-Jul-17	time	2.52	3.56	4.56	5.58	6.58	7.60	8.62	9.66	10.70	11.78		13.24	1 / 5		3.06	3.04	3.16
reaction time	0.139	interval		1.04	1.00	1.02	1.00	1.02	1.02	1.04	1.04	1.08	1.46				8.96	9.02	8.68
wind	-0.1 m/s	velocity	5.44	8.79	9.14	8.96	9.14	8.96	8.96	8.79	8.79	8.46	9.60	8.31					
Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Memorial van Damme (Brussels, BEL) (TV Analysis)															<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	01-Sep-17	time	2.52	3.58	4.62	5.62	6.66	7.68	8.72	9.74	10.78	11.82		13.24	4 / 4		3.10	3.10	3.10
reaction time	0.122	interval		1.06	1.04	1.00	1.04	1.02	1.04	1.02	1.04	1.04	1.42				8.85	8.85	8.85
wind	0.5 m/s	velocity	5.44	8.62	8.79	9.14	8.79	8.96	8.79	8.96	8.79	8.79	9.87	8.31					
Ortega, Orlando (ESP) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	30-Jun-19	time	2.55	3.60	4.62	5.63	6.62	7.64	8.68	9.70	10.75	11.80		13.24	4 / 1		3.08	3.05	3.12
reaction time	0.163	interval	7 steps	1.05	1.02	1.01	0.99	1.02	1.04	1.02	1.05	1.05	1.44				8.90	8.99	8.79
wind	0.3 m/s	velocity	5.38	8.70	8.96	9.05	9.23	8.96	8.79	8.96	8.70	8.70	9.74	8.31					
Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	24-Aug-19	time	2.50	3.54	4.56	5.56	6.56	7.58	8.58	9.62	10.66	11.76		13.24	2 / 5		3.06	3.02	3.18
reaction time	0.165	interval	7 steps	1.04	1.02	1.00	1.00	1.02	1.00	1.04	1.04	1.10	1.48				8.96	9.08	8.62
wind	0.8 m/s	velocity	5.49	8.79	8.96	9.14	9.14	8.96	9.14	8.79	8.79	8.31	9.47	8.31					
Xie Wenjun (CHN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)															<i>CAA Hurdle Development (2020)</i>				
date	16-Sep-20	time	2.57	3.62	4.65	5.68	6.69	7.71	8.73	9.75	10.78	11.83		13.24	5 / 1		3.11	3.05	3.10
reaction time	0.162	interval	7 steps	1.05	1.03	1.03	1.01	1.02	1.02	1.02	1.03	1.05	1.41				8.82	8.99	8.85
wind	0.4 m/s	velocity	5.34	8.70	8.87	8.87	9.05	8.96	8.96	8.96	8.87	8.70	9.94	8.31					
Manga, Aurel (FRA) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)															<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
date	03-Aug-21	time	2.45	3.52	4.53	5.57	6.61	7.61	8.61	9.64	10.72	11.78		13.24	8 / 1		3.12	3.04	3.17
reaction time	0.154	interval	7 steps	1.07	1.01	1.04	1.04	1.00	1.00	1.03	1.08	1.06	1.46	=PB			8.79	9.02	8.65
wind	-0.2 m/s	velocity	5.60	8.54	9.05	8.79	8.79	9.14	9.14	8.87	8.46	8.62	9.60	8.31					
Manga, Aurel (FRA) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)															<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
date	04-Aug-21	time	2.52	3.57	4.60	5.64	6.64	7.65	8.66	9.71	10.72	11.79		13.24	6 / 2		3.12	3.02	3.13
reaction time	0.151	interval	7 steps	1.05	1.03	1.04	1.00	1.01	1.01	1.05	1.01	1.07	1.45	=PB			8.79	9.08	8.76
wind	0.1 m/s	velocity	5.44	8.70	8.87	8.79	9.14	9.05	9.05	8.70	9.05	8.54	9.67	8.31					
Levy, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	28-Aug-21	time	2.48	3.54	4.58	5.60	6.60	7.62	8.64	9.68	10.72	11.78		13.24	4 / 4		3.12	3.04	3.14
reaction time	0.144	interval	7 steps	1.06	1.04	1.02	1.00	1.02	1.02	1.04	1.04	1.06	1.46				8.79	9.02	8.73
wind	0.7 m/s	velocity	5.53	8.62	8.79	8.96	9.14	8.96	8.96	8.79	8.79	8.62	9.60	8.31					

Parchment, Hansle (JAM) (1990)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)														Omega Timing (2023) - diamond league race analysis															
date	28-May-23	time	2.48	3.52	4.52	5.53	6.52	7.52	8.53	9.55	10.58	11.65	13.24	4 / 3															
reaction time	0.157	interval	7 steps	1.04	1.00	1.01	0.99	1.00	1.01	1.02	1.03	1.07	1.59			3.05	3.00	3.12											
wind	-1.3 m/s	velocity	5.53	8.79	9.14	9.05	9.23	9.14	9.05	8.96	8.87	8.54	8.82	8.31		8.99	9.14	8.79											
Lemonious, Phillip (JAM) (1998)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)														Henson (2023) - Athlete First: 2023 year end hurdle report															
date	09-Jun-23	time	2.50	3.54	4.57	5.57	6.60	7.61	8.65	9.69	10.72	11.76	13.24	5 / 1															
reaction time		interval	7 steps	1.04	1.03	1.00	1.03	1.01	1.04	1.04	1.03	1.04	1.48			3.07	3.08	3.11											
wind	1.8 m/s	velocity	5.49	8.79	8.87	9.14	8.87	9.05	8.79	8.79	8.87	8.79	9.47	8.31		8.93	8.90	8.82											
Roberts, Daniel (USA) (1998)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)														Omega Timing (2023) - diamond league race analysis															
date	16-Jul-23	time	2.33	3.39	4.42	5.44	6.46	7.49	8.51	9.55	10.59	11.64	13.24	5 / 1															
reaction time	0.146	interval		1.06	1.03	1.02	1.02	1.03	1.02	1.04	1.04	1.05	1.60			3.11	3.07	3.13											
wind	-0.2 m/s	velocity	5.89	8.62	8.87	8.96	8.96	8.87	8.96	8.79	8.79	8.70	8.76	8.31		8.82	8.93	8.76											
Mendy, Louis François (SEN) (1999)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														Henson (2023) - Athlete First: 2023 year end hurdle report															
date	20-Aug-23	time	2.56	3.60	4.60	5.61	6.61	7.64	8.66	9.72	10.76	11.83	13.24	6 / 1															
reaction time	0.176	interval		1.04	1.00	1.01	1.00	1.03	1.02	1.06	1.04	1.07	1.41			3.05	3.05	3.17											
wind	0.0 m/s	velocity	5.36	8.79	9.14	9.05	9.14	8.87	8.96	8.62	8.79	8.54	9.94	8.31		8.99	8.99	8.65											
Roberts, Daniel (USA) (1998)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)														Omega Timing (2024) - diamond league race analysis															
date	25-Aug-24	time	2.32	3.40	4.40	5.40	6.42	7.43	8.47	9.51	10.57	11.65	13.24	8 / 3															
reaction time	0.154	interval	7 steps	1.08	1.00	1.00	1.02	1.01	1.04	1.04	1.06	1.08	1.59			3.08	3.07	3.18											
wind	1.1 m/s	velocity	5.91	8.46	9.14	9.14	8.96	9.05	8.79	8.79	8.62	8.46	8.82	8.31		8.90	8.93	8.62											
Crittenden, Freddie (USA) (1994)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Memorial van damme (Brussels, BEL)														Omega Timing (2024) - diamond league race analysis															
date	13-Sep-24	time	2.41	3.49	4.51	5.54	6.57	7.56	8.59	9.61	10.65	11.71	13.24	3 / 3															
reaction time	0.141	interval		1.08	1.02	1.03	1.03	0.99	1.03	1.02	1.04	1.06	1.53			3.13	3.05	3.12											
wind	0.4 m/s	velocity	5.69	8.46	8.96	8.87	8.87	9.23	8.87	8.96	8.79	8.62	9.16	8.31		8.76	8.99	8.79											
Liu Junxi (CHN) (2003)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2025 Xiamen Diamond League (Xiamen, CHN)														Omega Timing (2025) - diamond league race analysis															
date	26-Apr-25	time	2.39	3.45	4.47	5.49	6.51	7.53	8.54	9.58	10.60	11.65	13.24	1 / 3															
reaction time	0.159	interval	7 steps	1.06	1.02	1.02	1.02	1.01	1.04	1.02	1.05	1.59	PB			3.10	3.05	3.11											
wind	0.3 m/s	velocity	5.74	8.62	8.96	8.96	8.96	8.96	9.05	8.79	8.96	8.70	8.82	8.31		8.85	8.99	8.82											
Beard, Dylan (USA) (1998)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Short Hurdles - 2025 Grand Slam Track Miami (Miramar, FL) (TV Analysis)														Henson (2025) - Athlete First: 2025 year end hurdle report															
date	02-May-25	time	2.60	3.65	4.63	5.60	6.60	7.61	8.61	9.64	10.71	11.78	13.24	7 / 5															
reaction time	0.120	interval		1.05	0.98	0.97	1.00	1.01	1.00	1.03	1.07	1.07	1.46			3.00	3.01	3.17											
wind	1.4 m/s	velocity	5.28	8.70	9.33	9.42	9.14	9.05	9.14	8.87	8.54	8.54	9.60	8.31		9.14	9.11	8.65											
Broadbell, Rasheed (JAM) (2000)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2025 Yangtze River Delta Athletics Diamond Gala (Keqiao, CHN)														Omega Timing (2025) - diamond league race analysis															
date	03-May-25	time	2.43	3.49	4.52	5.54	6.54	7.54	8.57	9.61	10.63	11.67	13.24	6 / 3															
reaction time	0.168	interval	7 steps	1.06	1.03	1.02	1.00	1.00	1.03	1.04	1.02	1.04	1.57			3.11	3.03	3.10											
wind	0.6 m/s	velocity	5.65	8.62	8.87	8.96	9.14	9.14	8.87	8.79	8.96	8.79	8.93	8.31		8.82	9.05	8.85											
Liu Xiang (CHN) (1983)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2007 IAAF World Championships (Osaka, JPN)														Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles															
date	30-Aug-07	time	2.63	3.65	4.67	5.67	6.69	7.69	8.71	9.74	10.77	11.82	13.25	6 / 2															
reaction time	0.158	interval		1.02	1.02	1.00	1.02	1.00	1.02	1.03	1.03	1.05	1.43			3.04	3.04	3.11											
wind	-1.0 m/s	velocity	5.22	8.96	8.96	9.14	8.96	9.14	8.96	8.87	8.87	8.70	9.80	8.30		9.02	9.02	8.82											
Payne, David (USA) (1982)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 USA Olympic Trials (Eugene, OR)														USATF Hurdle Development (2008)															
date	06-Jul-08	time	2.55	3.64	4.65	5.69	6.71	7.72	8.74	9.75	10.79	11.86	13.25	5 / 3															
reaction time	0.161	interval		1.09	1.01	1.04	1.02	1.01	1.02	1.01	1.04	1.07	1.39			3.14	3.05	3.12											
wind	3.5 m/s	velocity	5.38	8.39	9.05	8.79	8.96	9.05	8.96	9.05	8.79	8.54	10.09	8.30		8.73	8.99	8.79											
Bascou, Dimitri (FRA) (1987)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 European Championships (Amsterdam, NED)														(2016.07.09) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	09-Jul-16	time	2.53	3.56	4.58	5.59	6.60	7.62	8.65	9.71	10.78	11.86	13.25	7 / 1															
reaction time	0.141	interval	7 steps	1.03	1.02	1.01	1.01	1.02	1.03	1.06	1.07	1.08	1.39			3.06	3.06	3.21											
wind	0.0 m/s	velocity	5.42	8.87	8.96	9.05	9.05	8.96	8.87	8.62	8.54	8.46	10.09	8.30		8.96	8.96	8.54											

Bascou, Dimitri (FRA) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Athletissima (Lausanne, SUI) (TV Analysis)			Henson (2020) - Athlete First: 2016 year end hurdle report															
date	25-Aug-16	time	2.48	3.52	4.54	5.56	6.56	7.56	8.58	9.62	10.68	11.76		13.25	6 / 3			
reaction time	0.139	interval	7 steps	1.04	1.02	1.02	1.00	1.00	1.02	1.04	1.06	1.08	1.49			3.08	3.02	3.18
wind	0.5 m/s	velocity	5.53	8.79	8.96	8.96	9.14	9.14	8.96	8.79	8.62	8.46	9.41	8.30		8.90	9.08	8.62
Belocian, Wilhem (FRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Athletissima (Lausanne, SUI) (TV Analysis)			Henson (2020) - Athlete First: 2016 year end hurdle report															
date	25-Aug-16	time	2.48	3.50	4.50	5.52	6.52	7.54	8.56	9.60	10.66	11.74		13.25	7 / 4			
reaction time	0.126	interval		1.02	1.00	1.02	1.00	1.02	1.02	1.04	1.06	1.08	1.51	PB		3.04	3.04	3.18
wind	0.5 m/s	velocity	5.53	8.96	9.14	8.96	9.14	8.96	8.96	8.79	8.62	8.46	9.28	8.30		9.02	9.02	8.62
Trajkovic, Milan (CYP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)			Henson (2020) - Athlete First: 2017 year end hurdle report															
date	09-Jul-17	time	2.52	3.58	4.60	5.60	6.62	7.64	8.66	9.70	10.74	11.80		13.25	5 / 2			
reaction time	0.157	interval	7 steps	1.06	1.02	1.00	1.02	1.02	1.02	1.04	1.04	1.06	1.45	NR PB		3.08	3.06	3.14
wind	0.0 m/s	velocity	5.44	8.62	8.96	9.14	8.96	8.96	8.96	8.79	8.79	8.62	9.67	8.30		8.90	8.96	8.73
Brathwaite, Shane (BAR) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)			Henson (2020) - Athlete First: 2017 year end hurdle report															
date	18-Jun-17	time	2.48	3.56	4.56	5.58	6.60	7.64	8.66	9.68	10.72	11.78		13.25	1 / 3			
reaction time	0.134	interval	7 steps	1.08	1.00	1.02	1.02	1.04	1.02	1.02	1.04	1.06	1.47			3.10	3.08	3.12
wind	3.5 m/s	velocity	5.53	8.46	9.14	8.96	8.96	8.79	8.96	8.96	8.79	8.62	9.54	8.30		8.85	8.90	8.79
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2017 IAAF World Championships (London, GBR)			Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles															
date	06-Aug-17	time	2.36	3.41	4.44	5.46	6.48	7.50	8.52	9.55	10.59	11.65		13.25	7 / 2			
reaction time	0.117	interval		1.05	1.03	1.02	1.02	1.02	1.02	1.03	1.04	1.06	1.60			3.10	3.06	3.13
wind	0.3 m/s	velocity	5.81	8.70	8.87	8.96	8.96	8.96	8.96	8.87	8.79	8.62	8.76	8.30		8.85	8.96	8.76
Levy, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Athletissima (Lausanne, SUI) (TV Analysis)			Henson (2020) - Athlete First: 2019 year end hurdle report															
date	05-Jul-19	time	2.46	3.50	4.52	5.50	6.50	7.50	8.50	9.52	10.68	11.72		13.25	6 / 3			
reaction time	0.138	interval	7 steps	1.04	1.02	0.98	1.00	1.00	1.00	1.02	1.16	1.04	1.53			3.04	3.00	3.22
wind	1.0 m/s	velocity	5.58	8.79	8.96	9.33	9.14	9.14	9.14	8.96	7.88	8.79	9.16	8.30		9.02	9.14	8.52
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Athlete Night Games (Fukui, JPN)			(2019) - http://tfdata-store.com/2019/09/03/post-1615/															
date	17-Aug-19	time	2.54	3.57	4.59	5.62	6.63	7.65	8.68	9.72	10.77	11.82		13.25	4 / 1			
reaction time		interval		1.03	1.02	1.03	1.01	1.02	1.03	1.04	1.05	1.05	1.43	NR		3.08	3.06	3.14
wind	1.1 m/s	velocity	5.40	8.87	8.96	8.87	9.05	8.96	8.87	8.79	8.70	8.70	9.80	8.30		8.90	8.96	8.73
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)			Henson (2020) - Athlete First: 2019 year end hurdle report															
date	24-Aug-19	time	2.44	3.44	4.44	5.44	6.42	7.44	8.44	9.50	10.58	11.66		13.25	5 / 6			
reaction time	0.162	interval	7 steps	1.00	1.00	1.00	0.98	1.02	1.00	1.06	1.08	1.08	1.59			3.00	3.00	3.22
wind	0.8 m/s	velocity	5.62	9.14	9.14	9.14	9.33	8.96	9.14	8.62	8.46	8.46	8.82	8.30		9.14	9.14	8.52
Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 ISTAF (Berlin, GER) (TV Analysis)			Henson (2020) - Athlete First: 2019 year end hurdle report															
date	01-Sep-19	time	2.53	3.56	4.58	5.58	6.58	7.62	8.63	9.65	10.70	11.78		13.25	7 / 2			
reaction time	0.158	interval	7 steps	1.03	1.02	1.00	1.00	1.04	1.01	1.02	1.05	1.08	1.47			3.05	3.05	3.15
wind	0.8 m/s	velocity	5.42	8.87	8.96	9.14	9.14	8.79	9.05	8.96	8.70	8.46	9.54	8.30		8.99	8.99	8.70
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report															
date	10-Jun-21	time	2.48	3.52	4.50	5.50	6.52	7.54	8.56	9.60	10.64	11.74		13.25	3 / 2			
reaction time	0.113	interval	7 steps	1.04	0.98	1.00	1.02	1.02	1.02	1.04	1.04	1.10	1.51			3.02	3.06	3.18
wind	-0.1 m/s	velocity	5.53	8.79	9.33	9.14	8.96	8.96	8.96	8.79	8.79	8.31	9.28	8.30		9.08	8.96	8.62
Dunning, Robert (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report															
date	11-Jun-21	time	2.53	3.57	4.60	5.62	6.60	7.63	8.63	9.65	10.69	11.75		13.25	2 / 1			
reaction time	0.161	interval	7 steps	1.04	1.03	1.02	0.98	1.03	1.00	1.02	1.04	1.06	1.50			3.09	3.01	3.12
wind	-0.6 m/s	velocity	5.42	8.79	8.87	8.96	9.33	8.87	9.14	8.96	8.79	8.62	9.35	8.30		8.87	9.11	8.79
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report															
date	26-Jun-21	time	2.46	3.53	4.53	5.53	6.55	7.56	8.55	9.61	10.63	11.72		13.25	4 / 2			
reaction time	0.179	interval		1.07	1.00	1.00	1.02	1.01	0.99	1.06	1.02	1.09	1.53			3.07	3.02	3.17
wind	1.2 m/s	velocity	5.58	8.54	9.14	9.14	8.96	9.05	9.23	8.62	8.96	8.39	9.16	8.30		8.93	9.08	8.65
Levy, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)

date	06-Jul-21	time	2.43	3.46	4.52	5.57	6.59	7.61	8.65	9.68	10.70	11.74
reaction time	0.140	interval	7 steps	1.03	1.06	1.05	1.02	1.02	1.04	1.03	1.02	1.04
wind	-0.1 m/s	velocity	5.65	8.87	8.62	8.70	8.96	8.96	8.79	8.87	8.96	8.79

Henson (2021) - Athlete First: 2021 year end hurdle report

13.25 3 / 4

3.14 3.08 3.09
8.73 8.90 8.87**Martinot Lagarde, Pascal (FRA) (199)****Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)**

date	04-Aug-21	time	2.52	3.57	4.58	5.58	6.59	7.62	8.67	9.71	10.72	11.76
reaction time	0.155	interval	7 steps	1.05	1.01	1.00	1.01	1.03	1.05	1.04	1.01	1.04
wind	0.3 m/s	velocity	5.44	8.70	9.05	9.14	9.05	8.87	8.70	8.79	9.05	8.79

Henson (2024) - Athlete First: 2021 year end hurdle report

13.25 4 / 2

3.06 3.09 3.09
8.96 8.87 8.87**Pereira, Rafael (BRA) (1997)****FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)**

date	18-Jun-22	time	2.50	3.54	4.56	5.56	6.58	7.58	8.60	9.62	10.68	11.76
reaction time	0.141	interval		1.04	1.02	1.00	1.02	1.00	1.02	1.02	1.06	1.08
wind	-0.2 m/s	velocity	5.49	8.79	8.96	9.14	8.96	9.14	8.96	8.96	8.62	8.46

Henson (2022) - Athlete First: 2022 year end hurdle report

13.25 4 / 2

3.06 3.04 3.16
8.96 9.02 8.68**Britt, Jamal (USA) (1998)****Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)**

date	26-Jun-22	time	2.51	3.53	4.57	5.60	6.61	7.64	8.65	9.72	10.67	11.77
reaction time		interval	7 steps	1.02	1.04	1.03	1.01	1.03	1.01	1.07	0.95	1.10
wind	0.1 m/s	velocity	5.47	8.96	8.79	8.87	9.05	8.87	9.05	8.54	9.62	8.31

USATF (2022) - Results powered by Karmarush.com

13.25 7 / 3

3.09 3.05 3.12
8.87 8.99 8.79**Kwaou-Mathey, Just (FRA) (1999)****Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)**

date	17-Jul-22	time	2.60	3.63	4.65	5.65	6.67	7.67	8.67	9.70	10.76	11.83
reaction time	0.148	interval	7 steps	1.03	1.02	1.00	1.02	1.00	1.03	1.06	1.07	1.42
wind	2.5 m/s	velocity	5.28	8.87	8.96	9.14	8.96	9.14	8.87	8.62	8.54	9.87

Henson (2022) - Athlete First: 2022 year end hurdle report

13.25 4 / 5

3.05 3.02 3.16
8.99 9.08 8.68**Roberts, Daniel (USA) (1998)****FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)**

date	04-Sep-22	time	2.50	3.52	4.54	5.56	6.56	7.60	8.62	9.66	10.70	11.78
reaction time	0.145	interval		1.02	1.02	1.02	1.00	1.04	1.02	1.04	1.04	1.08
wind	0.6 m/s	velocity	5.49	8.96	8.96	8.96	9.14	8.79	8.96	8.79	8.46	9.54

Henson (2022) - Athlete First: 2022 year end hurdle report

13.25 6 / 3

3.06 3.06 3.16
8.96 8.96 8.68**Izumiya, Shunsuke (JPN) (2000)****FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)**

date	07-May-23	time	2.61	3.65	4.68	5.70	6.71	7.71	8.77	9.78	10.84	11.91
reaction time	0.138	interval	7 steps	1.04	1.03	1.02	1.01	1.00	1.06	1.01	1.06	1.07
wind	-0.3 m/s	velocity	5.26	8.79	8.87	8.96	9.05	9.14	8.62	9.05	8.62	8.54

Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season

13.25 6 / 1

3.09 3.07 3.14
8.87 8.93 8.73**Takayama, Shunya (JPN) (1994)****FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)**

date	21-May-23	time	2.56	3.60	4.60	5.62	6.64	7.65	8.69	9.72	10.76	11.83
reaction time	0.144	interval		1.04	1.00	1.02	1.02	1.01	1.04	1.03	1.04	1.07
wind	0.8 m/s	velocity	5.36	8.79	9.14	8.96	8.96	9.05	8.79	8.87	8.79	8.54

Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season

13.25 5 / 2

3.06 3.07 3.14
8.96 8.93 8.73**Allen, Devon (USA) (1994)****FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)**

date	28-May-23	time	2.38	3.45	4.47	5.48	6.49	7.51	8.54	9.57	10.62	11.68
reaction time	0.152	interval	7 steps	1.07	1.02	1.01	1.01	1.02	1.03	1.03	1.05	1.06
wind	-1.3 m/s	velocity	5.76	8.54	8.96	9.05	9.05	8.96	8.87	8.87	8.70	8.62

Omega Timing (2023) - diamond league race analysis

13.25 3 / 4

3.10 3.06 3.14
8.85 8.96 8.73**Kwaou-Mathey, Just (FRA) (1999)****Heat 2 - 2023 Meeting de Paris (Paris, FRA)**

date	09-Jun-23	time	2.40	3.46	4.47	5.47	6.47	7.48	8.51	9.55	10.61	11.67
reaction time	0.171	interval	7 steps	1.06	1.01	1.00	1.00	1.01	1.03	1.04	1.06	1.06
wind	-0.6 m/s	velocity	5.72	8.62	9.05	9.14	9.14	9.05	8.87	8.79	8.62	8.62

Omega Timing (2023) - diamond league race analysis

13.25 5 / 3

3.07 3.04 3.16
8.93 9.02 8.68**Iribarne, Roger (CUB) (1996)****FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)**

date	16-Jul-23	time	2.37	3.42	4.45	5.46	6.47	7.49	8.52	9.56	10.61	11.68
reaction time	0.147	interval	7 steps	1.05	1.03	1.01	1.01	1.02	1.03	1.04	1.05	1.07
wind	0.3 m/s	velocity	5.79	8.70	8.87	9.05	9.05	8.96	8.87	8.79	8.70	8.54

Omega Timing (2023) - diamond league race analysis

13.25 4 / 1

3.09 3.06 3.16
8.87 8.96 8.68**Britt, Jamal (USA) (1998)****FINAL - 2023 London Athletics Meet (London, GBR)**

date	23-Jul-23	time	2.39	3.46	4.50	5.50	6.51	7.52	8.54	9.57	10.62	11.68
reaction time	0.145	interval	7 steps	1.07	1.04	1.00	1.01	1.01	1.02	1.03	1.05	1.06
wind	1.3 m/s	velocity	5.74	8.54	8.79	9.14	9.05	9.05	8.96	8.87	8.70	8.62

Omega Timing (2023) - diamond league race analysis

13.25 6 / 3

3.11 3.04 3.14
8.82 9.02 8.73**Zhoya, Sasha (FRA) (2002)****FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)**

Omega Timing (2024) - diamond league race analysis

date	12-Jul-24	time	2.42	3.49	4.52	5.55	6.57	7.59	8.62	9.64	10.68	11.72	13.25	5 / 5				
reaction time	0.137	interval	7 steps	1.07	1.03	1.03	1.02	1.02	1.03	1.02	1.04	1.04	1.53		3.13	3.07	3.10	
wind	-0.7 m/s	velocity	5.67	8.54	8.87	8.87	8.96	8.96	8.87	8.96	8.79	8.79	9.16	8.30	8.76	8.93	8.85	
Pierce, Jack (USA) (1962)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1992 Olympic Games (Barcelona, ESP)			Knight (1992) - 1992 Olympic report: the hurdling events															
date	03-Aug-92	time	2.60	3.66	4.69	5.70	6.75	7.78	8.81	9.84	10.89	11.92	13.26	6 / 3				
reaction time	0.173	interval		1.06	1.03	1.01	1.05	1.03	1.03	1.03	1.05	1.03	1.34		3.10	3.11	3.11	
wind	0.8 m/s	velocity	5.28	8.62	8.87	9.05	8.70	8.87	8.87	8.87	8.70	8.87	10.46	8.30	8.85	8.82	8.82	
Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 French National Championships (Albi, FRA) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date	29-Jul-23	time	2.52	3.56	4.58	5.60	6.60	7.62	8.64	9.66	10.70	11.76	13.25	2 / 4				
reaction time	0.180	interval	7 steps	1.04	1.02	1.02	1.00	1.02	1.02	1.02	1.04	1.06	1.49		3.08	3.04	3.12	
wind	2.3 m/s	velocity	5.44	8.79	8.96	8.96	9.14	8.96	8.96	8.96	8.79	8.62	9.41	8.30	8.90	9.02	8.79	
Joseph, Jason (SUI) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date	21-Aug-23	time	2.56	3.66	4.68	5.70	6.72	7.73	8.73	9.73	10.77	11.80	13.25	8 / 4				
reaction time	0.163	interval	7 steps	1.10	1.02	1.02	1.02	1.01	1.00	1.00	1.04	1.03	1.45		3.14	3.03	3.07	
wind	-0.1 m/s	velocity	5.36	8.31	8.96	8.96	8.96	9.05	9.14	9.14	8.79	8.87	9.67	8.30	8.73	9.05	8.93	
Beard, Dylan (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2024 Meeting de Paris (Paris, FRA)			Omega Timing (2024) - diamond league race analysis															
date	07-Jul-24	time	2.39	3.44	4.45	5.44	6.44	7.44	8.47	9.51	10.57	11.65	13.25	3 / 2				
reaction time	0.164	interval		1.05	1.01	0.99	1.00	1.00	1.03	1.04	1.06	1.08	1.60		3.05	3.03	3.18	
wind	0.4 m/s	velocity	5.74	8.70	9.05	9.23	9.14	9.14	8.87	8.79	8.62	8.46	8.76	8.30	8.99	9.05	8.62	
Jarrett, Tony (GBR) (1968)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1992 Olympic Games (Barcelona, ESP)			Knight (1992) - 1992 Olympic report: the hurdling events															
date	03-Aug-92	time	2.63	3.69	4.71	5.72	6.75	7.78	8.79	9.82	10.88	11.93	13.26	8 / 4				
reaction time	0.163	interval		1.06	1.02	1.01	1.03	1.03	1.01	1.03	1.06	1.05	1.33		3.09	3.07	3.14	
wind	0.8 m/s	velocity	5.22	8.62	8.96	9.05	8.87	8.87	9.05	8.87	8.62	8.70	10.54	8.30	8.87	8.93	8.73	
Philibert, Dan (FRA) (1970)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1997 IAAF World Championships (Athens, GRE)			Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997															
date	07-Aug-97	time	2.62	3.70	4.70	5.70	6.70	7.72	8.74	9.76	10.82	11.86	13.26	6 / 5				
reaction time	0.118	interval		1.08	1.00	1.00	1.00	1.02	1.02	1.02	1.06	1.04	1.40	PB	3.08	3.04	3.12	
wind	0.0 m/s	velocity	5.24	8.46	9.14	9.14	9.14	8.96	8.96	8.96	8.62	8.79	10.01	8.30	8.90	9.02	8.79	
Balzer, Falk (GER) (1973)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1999 IAAF World Championships (Sevilla, ESP)			Sanchez (1999) - Sevilla '99: análisis de la carreras con villas															
date	25-Aug-99	time	2.60	3.64	4.65	5.67	6.69	7.71	8.71	9.72	10.76	11.84	13.26	2 / 5				
reaction time	0.153	interval		1.04	1.01	1.02	1.02	1.00	1.01	1.01	1.04	1.08	1.42		3.07	3.04	3.13	
wind	1.0 m/s	velocity	5.28	8.79	9.05	8.96	8.96	8.96	9.14	9.05	8.79	8.46	9.87	8.30	8.93	9.02	8.76	
Trammell, Terrence (USA) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2007 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2007)															
date	24-Jun-07	time	2.59	3.64	4.65	5.69	6.71	7.72	8.73	9.78	10.82	11.86	13.26	2 / 1				
reaction time		interval		1.05	1.01	1.04	1.02	1.01	1.01	1.05	1.04	1.04	1.40		3.10	3.04	3.13	
wind	-0.9 m/s	velocity	5.30	8.70	9.05	8.79	8.96	9.05	9.05	8.70	8.79	8.79	10.01	8.30	8.85	9.02	8.76	
Robles, Dayron (CUB) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 Colorful Daegu Meeting (Daegu, KOR)			Hong (2018) - performance of men's 110m hurdles using rhythmic units															
date	19-May-10	time	2.69	3.76	4.76	5.74	6.76	7.76	8.76	9.78	10.83	11.88	13.26	1 / 2				
reaction time	0.216	interval	7 steps	1.07	1.00	0.98	1.02	1.00	1.00	1.02	1.05	1.05	1.38		3.05	3.02	3.12	
wind	-0.2 m/s	velocity	5.10	8.54	9.14	9.33	8.96	9.14	9.14	8.96	8.70	8.70	10.16	8.30	8.99	9.08	8.79	
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Golden Grand Prix (Shanghai, CHN)			Feng (2016) - Liu Xiang's seven-step starting: discussion on the key issues of 110m hurdles technical training															
date	19-May-12	time	2.34	3.38	4.42	5.46	6.50	7.54	8.58	9.62	10.66	11.70	13.26	6 / 4				
reaction time	0.142	interval		1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.56		3.12	3.12	3.12	
wind	0.4 m/s	velocity	5.86	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.99	8.30	8.79	8.79	8.79	
Ortega, Orlando (ESP) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2012 Olympic Games (London, GBR) (TV Analysis)			Henson (2020) - Athlete First: 2012 Aries Merritt world record season															
date	08-Aug-12	time	2.52	3.56	4.60	5.60	6.60	7.62	8.62	9.62	10.66	11.74	13.26	6 / 2				
reaction time	0.151	interval	7 steps	1.04	1.04	1.00	1.00	1.02	1.00	1.00	1.04	1.08	1.52		3.08	3.02	3.12	
wind	-0.5 m/s	velocity	5.44	8.79	8.79	9.14	9.14	8.96	9.14	9.14	8.79	8.46	9.22	8.30	8.90	9.08	8.79	
Wilson, Ryan (USA) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)			Henson (2020) - Athlete First: 2012 Aries Merritt world record season															
date	07-Sep-12	time	2.52	3.56	4.56	5.56	6.58	7.60	8.64	9.66	10.70	11.76	13.26	8 / 7				

reaction time	0.144	interval	7 steps	1.04	1.00	1.00	1.02	1.02	1.04	1.02	1.04	1.06	1.50		3.04	3.08	3.12
wind	0.3 m/s	velocity	5.44	8.79	9.14	9.14	8.96	8.96	8.79	8.96	8.79	8.62	9.35	8.30	9.02	8.90	8.79

Brathwaite, Shane (BAR) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)			<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles</i>															
date	06-Aug-17	time	2.40	3.44	4.46	5.49	6.52	7.53	8.56	9.61	10.65	11.72		13.26	5 / 1			
reaction time	0.179	interval	7 steps	1.04	1.02	1.03	1.03	1.01	1.03	1.05	1.04	1.07	1.54			3.09	3.07	3.16
wind	0.6 m/s	velocity	5.72	8.79	8.96	8.87	8.87	9.05	8.87	8.70	8.79	8.54	9.10	8.30		8.87	8.93	8.68

Levy, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	26-May-18	time	2.56	3.60	4.62	5.64	6.66	7.70	8.74	9.76	10.80	11.82		13.26	2 / 5			
reaction time	0.171	interval	7 steps	1.04	1.02	1.02	1.02	1.04	1.04	1.02	1.04	1.02	1.44			3.08	3.10	3.08
wind	3.0 m/s	velocity	5.36	8.79	8.96	8.96	8.96	8.79	8.79	8.96	8.79	8.96	9.74	8.30		8.90	8.85	8.90

Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)			<i>Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season</i>															
date	19-May-19	time	2.53	3.60	4.62	5.66	6.71	7.72	8.74	9.79	10.84	11.93		13.26	3 / 1			
reaction time	0.121	interval		1.07	1.02	1.04	1.05	1.01	1.02	1.05	1.05	1.09	1.33			3.13	3.08	3.19
wind	2.9 m/s	velocity	5.42	8.54	8.96	8.79	8.70	9.05	8.96	8.70	8.70	8.39	10.54	8.30		8.76	8.90	8.60

Shubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	06-Jun-19	time	2.61	3.66	4.68	5.67	6.68	7.69	8.71	9.73	10.75	11.83		13.26	5 / 1			
reaction time	0.132	interval	7 steps	1.05	1.02	0.99	1.01	1.01	1.02	1.02	1.02	1.08	1.43			3.06	3.04	3.12
wind	0.4 m/s	velocity	5.26	8.70	8.96	9.23	9.05	9.05	8.96	8.96	8.96	8.46	9.80	8.30		8.96	9.02	8.79

Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)			<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	25-Jun-21	time	2.50	3.53	4.56	5.63	6.63	7.63	8.66	9.73	10.73	11.76		13.26	3 / 1			
reaction time	0.139	interval		1.03	1.03	1.07	1.00	1.00	1.03	1.07	1.00	1.03	1.50			3.13	3.03	3.10
wind	0.5 m/s	velocity	5.49	8.87	8.87	8.54	9.14	9.14	8.87	8.54	9.14	8.87	9.35	8.30		8.76	9.05	8.85

Dickson, Michael (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)			<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	25-Jun-21	time	2.53	3.57	4.60	5.66	6.66	7.66	8.70	9.73	10.73	11.78		13.26	2 / 2			
reaction time	0.208	interval	7 steps	1.04	1.03	1.06	1.00	1.00	1.04	1.03	1.00	1.05	1.48	PB		3.13	3.04	3.08
wind	0.5 m/s	velocity	5.42	8.79	8.87	8.62	9.14	9.14	8.79	8.87	9.14	8.70	9.47	8.30		8.76	9.02	8.90

Zeller, Joshua (GBR) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	10-Jun-22	time	2.50	3.57	4.59	5.61	6.61	7.62	8.64	9.66	10.69	11.73		13.26	7 / 3			
reaction time		interval		1.07	1.02	1.02	1.00	1.01	1.02	1.02	1.03	1.04	1.53			3.11	3.03	3.09
wind	0.0 m/s	velocity	5.49	8.54	8.96	8.96	9.14	9.05	8.96	8.96	8.87	8.79	9.16	8.30		8.82	9.05	8.87

Martinez, Asier (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	17-Jul-22	time	2.66	3.70	4.74	5.76	6.80	7.80	8.83	9.83	10.83	11.87		13.26	6 / 2			
reaction time	0.141	interval	7 steps	1.04	1.04	1.02	1.04	1.00	1.03	1.00	1.00	1.04	1.39			3.10	3.07	3.04
wind	0.3 m/s	velocity	5.16	8.79	8.79	8.96	8.79	9.14	8.87	9.14	9.14	8.79	10.09	8.30		8.85	8.93	9.02

Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	10-Aug-22	time	2.46	3.53	4.53	5.53	6.53	7.56	8.60	9.63	10.66	11.76		13.26	8 / 6			
reaction time	0.137	interval	7 steps	1.07	1.00	1.00	1.00	1.03	1.04	1.03	1.03	1.10	1.50			3.07	3.07	3.16
wind	0.6 m/s	velocity	5.58	8.54	9.14	9.14	9.14	8.87	8.79	8.87	8.87	8.31	9.35	8.30		8.93	8.93	8.68

Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	04-Sep-22	time	2.50	3.54	4.58	5.60	6.62	7.66	8.68	9.74	10.78	11.88		13.26	8 / 4			
reaction time	0.129	interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.02	1.06	1.04	1.10	1.38			3.10	3.08	3.20
wind	0.6 m/s	velocity	5.49	8.79	8.79	8.96	8.96	8.79	8.96	8.62	8.79	8.31	10.16	8.30		8.85	8.90	8.57

Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	08-Sep-22	time	2.53	3.60	4.64	5.64	6.64	7.64	8.65	9.67	10.71	11.75		13.26	5 / 3			
reaction time	0.153	interval	7 steps	1.07	1.04	1.00	1.00	1.00	1.01	1.02	1.04	1.04	1.51			3.11	3.01	3.10
wind	-1.0 m/s	velocity	5.42	8.54	8.79	9.14	9.14	9.14	9.05	8.96	8.79	8.79	9.28	8.30		8.82	9.11	8.85

Ojora, Tade (GBR) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Trackwired Arkansas Grand Prix (Fayetteville, AR) (TV Analysis)			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>															
date	23-May-23	time	2.58	3.65	4.67	5.69	6.69	7.69	8.67	9.70	10.76	11.82		13.26	6 / 2			
reaction time		interval	7 steps	1.07	1.02	1.02	1.00	1.00	0.98	1.03	1.06	1.06	1.44	PB		3.11	2.98	3.15

wind	1.3 m/s	velocity	5.32	8.54	8.96	8.96	9.14	9.14	9.33	8.87	8.62	8.62	9.74	8.30		8.82	9.20	8.70
Britt, Jamal (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date	02-Jun-23	time	2.48	3.56	4.54	5.56	6.60	7.62	8.65	9.72	10.77	11.83		13.26	7 / 4			
reaction time	0.134	interval	7 steps	1.08	0.98	1.02	1.04	1.02	1.03	1.07	1.05	1.06	1.43			3.08	3.09	3.18
wind	-0.2 m/s	velocity	5.53	8.46	9.33	8.96	8.79	8.96	8.87	8.54	8.70	8.62	9.80	8.30		8.90	8.87	8.62
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Meeting de Paris (Paris, FRA)			Omega Timing (2023) - diamond league race analysis															
date	09-Jun-23	time	2.37	3.43	4.46	5.48	6.49	7.52	8.55	9.58	10.62	11.68		13.26	2 / 6			
reaction time	0.136	interval		1.06	1.03	1.02	1.01	1.03	1.03	1.03	1.04	1.06	1.58			3.11	3.07	3.13
wind	-0.5 m/s	velocity	5.79	8.62	8.87	8.96	9.05	8.87	8.87	8.87	8.79	8.62	8.87	8.30		8.82	8.93	8.76
Wilson, De'vion (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date	09-Jun-23	time	2.50	3.57	4.60	5.64	6.64	7.64	8.65	9.69	10.72	11.78		13.26	2 / 2			
reaction time		interval	7 steps	1.07	1.03	1.04	1.00	1.00	1.01	1.04	1.03	1.06	1.48	PB		3.14	3.01	3.13
wind	1.8 m/s	velocity	5.49	8.54	8.87	8.79	9.14	9.14	9.05	8.79	8.87	8.62	9.47	8.30		8.73	9.11	8.76
Dickson, Michael (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date	24-Jun-23	time	2.53	3.59	4.61	5.63	6.64	7.67	8.71	9.74	10.78	11.85		13.26	1 / 5			
reaction time	0.212	interval	7 steps	1.06	1.02	1.02	1.01	1.03	1.04	1.03	1.04	1.07	1.41			3.10	3.08	3.14
wind	1.6 m/s	velocity	5.42	8.62	8.96	8.96	9.05	8.87	8.79	8.87	8.79	8.54	9.94	8.30		8.85	8.90	8.73
Edwards, Eric (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date	09-Jul-23	time	2.53	3.58	4.60	5.60	6.62	7.65	8.68	9.71	10.75	11.81		13.26	1 / 4			
reaction time		interval		1.05	1.02	1.00	1.02	1.03	1.03	1.03	1.04	1.06	1.45			3.07	3.08	3.13
wind	-0.2 m/s	velocity	5.42	8.70	8.96	9.14	8.96	8.87	8.87	8.87	8.79	8.62	9.67	8.30		8.93	8.90	8.76
Kwaou-Mathey, Just (FRA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)			Omega Timing (2023) - diamond league race analysis															
date	16-Jul-23	time	2.39	3.46	4.50	5.53	6.55	7.57	8.59	9.62	10.65	11.71		13.26	7 / 2			
reaction time	0.157	interval	7 steps	1.07	1.04	1.03	1.02	1.02	1.02	1.03	1.03	1.06	1.55			3.14	3.06	3.12
wind	0.3 m/s	velocity	5.74	8.54	8.79	8.87	8.96	8.96	8.96	8.87	8.87	8.62	9.05	8.30		8.73	8.96	8.79
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 London Athletics Meet (London, GBR)			Omega Timing (2023) - diamond league race analysis															
date	23-Jul-23	time	2.41	3.45	4.44	5.43	6.44	7.45	8.46	9.49	10.56	11.63		13.26	4 / 4			
reaction time	0.135	interval	7 steps	1.04	0.99	0.99	1.01	1.01	1.01	1.03	1.07	1.07	1.63			3.02	3.03	3.17
wind	1.3 m/s	velocity	5.69	8.79	9.23	9.23	9.05	9.05	9.05	8.87	8.54	8.54	8.60	8.30		9.08	9.05	8.65
Zhoya, Sasha (FRA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 World Athletics Championships (Budapest, HUN)			Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season															
date	21-Aug-23	time	2.60	3.64	4.66	5.68	6.69	7.72	8.75	9.75	10.78	11.86		13.26	7 / 6			
reaction time	0.166	interval	7 steps	1.04	1.02	1.02	1.01	1.03	1.03	1.00	1.03	1.08	1.40			3.08	3.07	3.11
wind	0.0 m/s	velocity	5.28	8.79	8.96	8.96	9.05	8.87	8.87	9.14	8.87	8.46	10.01	8.30		8.90	8.93	8.82
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)			Omega Timing (2023) - diamond league race analysis															
date	02-Sep-23	time	2.42	3.48	4.49	5.49	6.50	7.51	8.53	9.56	10.61	11.66		13.26	7 / 6			
reaction time	0.148	interval		1.06	1.01	1.00	1.01	1.01	1.02	1.03	1.05	1.05	1.60			3.07	3.04	3.13
wind	0.0 m/s	velocity	5.67	8.62	9.05	9.14	9.05	9.05	8.96	8.87	8.70	8.70	8.76	8.30		8.93	9.02	8.76
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)			Omega Timing (2024) - diamond league race analysis															
date	27-Apr-24	time	2.54	3.62	4.65	5.65	6.65	7.65	8.66	9.69	10.74	11.80		13.26	5 / 3			
reaction time	0.143	interval	7 steps	1.08	1.03	1.00	1.00	1.00	1.01	1.03	1.05	1.06	1.46			3.11	3.01	3.14
wind	0.8 m/s	velocity	5.40	8.46	8.87	9.14	9.14	9.14	9.05	8.87	8.70	8.62	9.60	8.30		8.82	9.11	8.73
Tinch, Cordell (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)			Omega Timing (2024) - diamond league race analysis															
date	27-Apr-24	time	2.54	3.60	4.64	5.64	6.66	7.67	8.67	9.71	10.77	11.84		13.26	6 / 4			
reaction time	0.151	interval	7 steps	1.06	1.04	1.00	1.02	1.01	1.00	1.04	1.06	1.07	1.42			3.10	3.03	3.17
wind	0.8 m/s	velocity	5.40	8.62	8.79	9.14	8.96	9.05	9.14	8.79	8.62	8.54	9.87	8.30		8.85	9.05	8.65
Cunningham, Trey (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)			Henson (2024) - Athlete First: 2024 year end hurdle report															
date	27-Jun-24	time	2.53	3.56	4.58	5.57	6.59	7.59	8.63	9.68	10.73	11.83		13.26	4 / 3			
reaction time		interval	7 steps	1.03	1.02	0.99	1.02	1.00	1.04	1.05	1.05	1.10	1.43			3.04	3.06	3.20
wind	-0.2 m/s	velocity	5.42	8.87	8.96	9.23	8.96	9.14	8.79	8.70	8.70	8.31	9.80	8.30		9.02	8.96	8.57

Joseph, Jason (SUI) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2024 Olympic Games (Paris, FRA)														Paris 2024 Olympic Games - Results Book (2024)				
date	04-Aug-24	time	2.48	3.56	4.58	5.57	6.56	7.56	8.56	9.61	10.66	11.70		13.26	6 / 1			
reaction time	0.170	interval	7 steps	1.08	1.02	0.99	0.99	1.00	1.00	1.05	1.05	1.04	1.56			3.09	2.99	3.14
wind	0.3 m/s	velocity	5.53	8.46	8.96	9.23	9.23	9.14	9.14	8.70	8.70	8.79	8.99	8.30		8.87	9.17	8.73
Muratake, Rachid (JPN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)														Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season				
date	07-Aug-24	time	2.60	3.65	4.68	5.70	6.70	7.73	8.75	9.78	10.82	11.88		13.26	4 / 4			
reaction time	0.160	interval	7 steps	1.05	1.03	1.02	1.00	1.03	1.02	1.03	1.04	1.06	1.38			3.10	3.05	3.13
wind	0.1 m/s	velocity	5.28	8.70	8.87	8.96	9.14	8.87	8.96	8.87	8.79	8.62	10.16	8.30		8.85	8.99	8.76
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Athletissima (Lausanne, SUI)														Omega Timing (2024) - diamond league race analysis				
date	22-Aug-24	time	2.32	3.36	4.37	5.38	6.38	7.40	8.42	9.46	10.51	11.61		13.26	5 / 4			
reaction time	0.164	interval	7 steps	1.04	1.01	1.01	1.00	1.02	1.02	1.04	1.05	1.10	1.65			3.06	3.04	3.19
wind	-0.1 m/s	velocity	5.91	8.79	9.05	9.05	9.14	8.96	8.96	8.79	8.70	8.31	8.50	8.30		8.96	9.02	8.60
Simonelli, Lorenzo Ndele (ITA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Athletissima (Lausanne, SUI)														Omega Timing (2024) - diamond league race analysis				
date	22-Aug-24	time	2.37	3.43	4.46	5.48	6.50	7.51	8.54	9.58	10.63	11.69		13.26	4 / 5			
reaction time	0.136	interval	7 steps	1.06	1.03	1.02	1.02	1.01	1.03	1.04	1.05	1.06	1.57			3.11	3.06	3.15
wind	-0.1 m/s	velocity	5.79	8.62	8.87	8.96	8.96	9.05	8.87	8.79	8.70	8.62	8.93	8.30		8.82	8.96	8.70
Payne, David (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2007 IAAF World Championships (Osaka, JPN)														Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles				
date	29-Aug-07	time	2.62	3.69	4.71	5.71	6.73	7.75	8.77	9.80	10.83	11.86		13.27	3 / 2			
reaction time	0.163	interval		1.07	1.02	1.00	1.02	1.02	1.02	1.03	1.03	1.03	1.41			3.09	3.06	3.09
wind	0.6 m/s	velocity	5.24	8.54	8.96	9.14	8.96	8.96	8.96	8.87	8.87	8.87	9.94	8.29		8.87	8.96	8.87
Doucouré, Ladj (FRA) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)														Graubner (2007) - http://www.fgs.uni-halle.de				
date	23-Sep-07	time	2.61	3.65	4.67	5.69	6.70	7.72	8.74	9.77	10.81	11.87		13.27	1 / 5			
reaction time	0.160	interval		1.04	1.02	1.02	1.01	1.02	1.02	1.03	1.04	1.06	1.40			3.08	3.05	3.13
wind	0.0 m/s	velocity	5.26	8.79	8.96	8.96	9.05	8.96	8.96	8.87	8.79	8.62	10.01	8.29		8.90	8.99	8.76
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 USA Olympic Trials (Eugene, OR)														USATF Hurdle Development (2008)				
date	06-Jul-08	time	2.59	3.65	4.70	5.74	6.74	7.76	8.79	9.83	10.84	11.89		13.27	1 / 4			
reaction time	0.136	interval		1.06	1.05	1.04	1.00	1.02	1.03	1.04	1.01	1.05	1.38			3.15	3.05	3.10
wind	3.5 m/s	velocity	5.30	8.62	8.70	8.79	9.14	8.96	8.87	8.79	9.05	8.70	10.16	8.29		8.70	8.99	8.85
Liu Xiang (CHN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)														Henson (2021) - Athlete First: major championships report				
date	29-Aug-11	time	2.48	3.52	4.52	5.52	6.52	7.51	8.51	9.52	10.54	11.62		13.27	6 / 3-2			
reaction time	0.164	interval	7 steps	1.04	1.00	1.00	1.00	0.99	1.00	1.01	1.02	1.08	1.65			3.04	2.99	3.11
wind	-1.1 m/s	velocity	5.53	8.79	9.14	9.14	9.14	9.23	9.14	9.05	8.96	8.46	8.50	8.29		9.02	9.17	8.82
Darien, Garfield (FRA) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Herculis Meeting International D'Athlétisme (Monaco, MON) (TV Analysis)														Henson (2020) - Athlete First: 2012 Aries Merritt world record season				
date	20-Jul-12	time	2.48	3.54	4.54	5.56	6.56	7.58	8.60	9.64	10.71	11.81		13.27	2 / 6			
reaction time	0.161	interval		1.06	1.00	1.02	1.00	1.02	1.02	1.04	1.07	1.10	1.46			3.08	3.04	3.21
wind	0.0 m/s	velocity	5.53	8.62	9.14	8.96	9.14	8.96	8.96	8.79	8.54	8.31	9.60	8.29		8.90	9.02	8.54
Richardson, Jason (USA) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)														Henson (2021) - Athlete First: major championships report				
date	12-Aug-13	time	2.56	3.56	4.56	5.58	6.58	7.58	8.60	9.62	10.64	11.68		13.27	7 / 4			
reaction time	0.158	interval	7 steps	1.00	1.00	1.02	1.00	1.00	1.02	1.02	1.02	1.04	1.59			3.02	3.02	3.08
wind	0.3 m/s	velocity	5.36	9.14	9.14	8.96	9.14	9.14	8.96	8.96	8.96	8.79	8.82	8.29		9.08	9.08	8.90
Brathwaite, Shane (BAR) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)														Henson (2020) - Athlete First: 2017 year end hurdle report				
date	09-Jul-17	time	2.52	3.60	4.60	5.62	6.64	7.66	8.70	9.74	10.80	11.84		13.27	8 / 3			
reaction time	0.135	interval	7 steps	1.08	1.00	1.02	1.02	1.02	1.04	1.04	1.06	1.04	1.43			3.10	3.08	3.14
wind	0.0 m/s	velocity	5.44	8.46	9.14	8.96	8.96	8.96	8.79	8.79	8.62	8.79	9.80	8.29		8.85	8.90	8.73
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)														Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles				
date	06-Aug-17	time	2.48	3.56	4.58	5.61	6.63	7.61	8.63	9.66	10.68	11.73		13.27	7 / 2			
reaction time	0.181	interval	7 steps	1.08	1.02	1.03	1.02	0.98	1.02	1.03	1.02	1.05	1.54			3.13	3.02	3.10
wind	0.6 m/s	velocity	5.53	8.46	8.96	8.87	8.96	9.33	8.96	8.87	8.96	8.70	9.10	8.29		8.76	9.08	8.85

Allen, Devon (USA) (1994)																
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)																
date	06-Aug-17	time	2.29	3.35	4.37	5.40	6.42	7.47	8.50	9.54	10.58	11.65	13.27	4 / 3		
reaction time	0.126	interval		1.06	1.02	1.03	1.02	1.05	1.03	1.04	1.04	1.07	1.62		3.11	3.10
wind	0.6 m/s	velocity	5.99	8.62	8.96	8.87	8.96	8.70	8.87	8.79	8.79	8.54	8.65	8.29	8.82	8.70
Shubenkov, Sergey (ANA) (1990)																
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)																
date	12-May-18	time	2.52	3.58	4.62	5.66	6.68	7.70	8.72	9.76	10.78	11.82	13.27	6 / 3		
reaction time	0.148	interval	7 steps	1.06	1.04	1.04	1.02	1.02	1.02	1.04	1.02	1.04	1.45		3.14	3.10
wind	0.2 m/s	velocity	5.44	8.62	8.79	8.79	8.96	8.96	8.96	8.79	8.96	8.79	9.67	8.29	8.73	8.85
Merritt, Aries (USA) (1985)																
FINAL - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)																
date	26-May-18	time	2.52	3.58	4.60	5.60	6.62	7.64	8.66	9.70	10.74	11.80	13.27	7 / 6		
reaction time	0.144	interval	7 steps	1.06	1.02	1.00	1.02	1.02	1.02	1.04	1.04	1.06	1.47		3.08	3.14
wind	3.0 m/s	velocity	5.44	8.62	8.96	9.14	8.96	8.96	8.96	8.79	8.79	8.62	9.54	8.29	8.90	8.73
Baji, Balázs (HUN) (1989)																
FINAL - 2018 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)																
date	02-Jul-18	time	2.48	3.54	4.56	5.58	6.58	7.62	8.64	9.68	10.72	11.76	13.27	2 / 2		
reaction time	0.143	interval	7 steps	1.06	1.02	1.02	1.00	1.04	1.02	1.04	1.04	1.04	1.51		3.10	3.12
wind	0.6 m/s	velocity	5.53	8.62	8.96	8.96	9.14	8.79	8.96	8.79	8.79	8.79	9.28	8.29	8.85	8.79
Martinot Lagarde, Pascal (FRA) (199)																
FINAL - 2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)																
date	18-Aug-18	time	2.46	3.52	4.56	5.56	6.54	7.58	8.58	9.60	10.62	11.70	13.27	7 / 3		
reaction time	0.166	interval	7 steps	1.06	1.04	1.00	0.98	1.04	1.00	1.02	1.02	1.08	1.57		3.10	3.12
wind	1.3 m/s	velocity	5.58	8.62	8.79	9.14	9.33	8.79	9.14	8.96	8.96	8.46	8.93	8.29	8.85	8.79
Crittenden, Freddie (USA) (1994)																
FINAL - 2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)																
date	18-Aug-18	time	2.46	3.50	4.54	5.56	6.58	7.60	8.60	9.62	10.66	11.74	13.27	2 / 4		
reaction time	0.128	interval		1.04	1.04	1.02	1.02	1.02	1.00	1.02	1.04	1.08	1.53	PB	3.10	3.14
wind	1.3 m/s	velocity	5.58	8.79	8.79	8.96	8.96	8.96	9.14	8.96	8.79	8.46	9.16	8.29	8.85	8.73
Ortega, Orlando (ESP) (1991)																
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)																
date	21-May-19	time	2.57	3.63	4.65	5.68	6.68	7.72	8.74	9.78	10.81	11.87	13.27	5 / 1		
reaction time	0.145	interval	7 steps	1.06	1.02	1.03	1.00	1.04	1.02	1.04	1.03	1.06	1.40		3.11	3.13
wind	0.1 m/s	velocity	5.34	8.62	8.96	8.87	9.14	8.79	8.96	8.79	8.87	8.62	10.01	8.29	8.82	8.76
Shubenkov, Sergey (ANA) (1990)																
Heat 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)																
date	30-Sep-19	time	2.52	3.52	4.54	5.54	6.54	7.54	8.58	9.62	10.68	11.74	13.27	6 / 1		
reaction time	0.138	interval	7 steps	1.00	1.02	1.00	1.00	1.00	1.04	1.04	1.06	1.06	1.53		3.02	3.16
wind	0.5 m/s	velocity	5.44	9.14	8.96	9.14	9.14	9.14	8.79	8.79	8.62	8.62	9.16	8.29	9.08	8.68
Kanai, Taio (JPN) (1995)																
FINAL - 2020 Athlete Night Games (Fukui, JPN)																
date	29-Aug-20	time	2.55	3.60	4.63	5.65	6.66	7.70	8.73	9.78	10.83	11.90	13.27	5 / 1		
reaction time		interval	7 steps	1.05	1.03	1.02	1.01	1.04	1.03	1.05	1.05	1.07	1.37	PB	3.10	3.17
wind	1.4 m/s	velocity	5.38	8.70	8.87	8.96	9.05	8.79	8.87	8.70	8.70	8.54	10.23	8.29	8.85	8.65
Belocian, Wilhem (FRA) (1995)																
FINAL - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)																
date	03-Sep-20	time	2.52	3.57	4.57	5.55	6.60	7.61	8.62	9.66	10.70	11.75	13.27	6 / 2		
reaction time	0.211	interval		1.05	1.00	0.98	1.05	1.01	1.01	1.04	1.04	1.05	1.52		3.03	3.13
wind	-0.3 m/s	velocity	5.44	8.70	9.14	9.33	8.70	9.05	9.05	8.79	8.79	8.70	9.22	8.29	9.05	8.76
Britt, Jamal (USA) (1998)																
Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)																
date	26-Jun-21	time	2.47	3.53	4.55	5.55	6.57	7.58	8.62	9.67	10.73	11.81	13.27	3 / 3		
reaction time	0.147	interval	7 steps	1.06	1.02	1.00	1.02	1.01	1.04	1.05	1.06	1.08	1.46	PB	3.08	3.19
wind	1.8 m/s	velocity	5.55	8.62	8.96	9.14	8.96	9.05	8.79	8.70	8.62	8.46	9.60	8.29	8.90	8.60
Martinez, Asier (ESP) (2000)																
Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	04-Aug-21	time	2.57	3.59	4.63	5.65	6.67	7.70	8.76	9.80	10.83	11.83	13.27	6 / 3		
reaction time	0.150	interval	7 steps	1.02	1.04	1.02	1.02	1.03	1.06	1.04	1.03	1.00	1.44	PB	3.08	3.07
wind	0.3 m/s	velocity	5.34	8.96	8.79	8.96	8.96	8.87	8.62	8.79	8.87	9.14	9.74	8.29	8.90	8.93
Kwaou-Mathey, Just (FRA) (1999)																

FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)

date	18-Jun-22	time	2.56	3.60	4.62	5.62	6.62	7.66	8.66	9.70	10.74	11.80
reaction time	0.169	interval	7 steps	1.04	1.02	1.00	1.00	1.04	1.00	1.04	1.04	1.06
wind	-0.2 m/s	velocity	5.36	8.79	8.96	9.14	9.14	8.79	9.14	8.79	8.79	8.62

Henson (2022) - Athlete First: 2022 year end hurdle report

13.27 2 / 3

3.06 3.04 3.14
8.96 9.02 8.73**Dunning, Robert (USA) (1997)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)

Henson (2022) - Athlete First: 2022 year end hurdle report

date	26-Jun-22	time	2.53	3.55	4.57	5.59	6.61	7.61	8.61	9.64	10.67	11.74
reaction time		interval	7 steps	1.02	1.02	1.02	1.02	1.00	1.00	1.03	1.03	1.07
wind	1.2 m/s	velocity	5.42	8.96	8.96	8.96	8.96	9.14	9.14	8.87	8.87	8.54

13.27 9 / 6

3.06 3.02 3.13
8.96 9.08 8.76**Broadbell, Rasheed (JAM) (2000)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

Henson (2022) - Athlete First: 2022 year end hurdle report

date	17-Jul-22	time	2.50	3.53	4.60	5.66	6.66	7.66	8.70	9.73	10.83	11.87
reaction time	0.129	interval	7 steps	1.03	1.07	1.06	1.00	1.00	1.04	1.03	1.10	1.04
wind	0.3 m/s	velocity	5.49	8.87	8.54	8.62	9.14	9.14	8.79	8.87	8.31	8.79

13.27 4 / 3

3.16 3.04 3.17
8.68 9.02 8.65**Kwaou-Mathey, Just (FRA) (1999)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)

Omega Timing (2023) - diamond league race analysis

date	16-Jul-23	time	2.47	3.56	4.59	5.60	6.61	7.62	8.63	9.65	10.68	11.72
reaction time	0.169	interval	7 steps	1.09	1.03	1.01	1.01	1.01	1.02	1.03	1.04	1.55
wind	0.3 m/s	velocity	5.55	8.39	8.87	9.05	9.05	9.05	8.96	8.87	8.79	9.05

13.27 6 / 2

3.13 3.03 3.09
8.76 9.05 8.87**Ojora, Tade (GBR) (1999)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 2023 London Athletics Meet (London, GBR)

Omega Timing (2023) - diamond league race analysis

date	23-Jul-23	time	2.42	3.51	4.54	5.54	6.54	7.55	8.57	9.61	10.66	11.70
reaction time	0.148	interval	7 steps	1.09	1.03	1.00	1.00	1.01	1.02	1.04	1.05	1.04
wind	1.3 m/s	velocity	5.67	8.39	8.87	9.14	9.14	9.05	8.96	8.79	8.70	8.79

13.27 8 / 5

3.12 3.03 3.13
8.79 9.05 8.76**Scott, Ja'Qualon (USA) (2001)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)

Henson (2024) - Athlete First: 2024 year end hurdle report

date	07-Jun-24	time	2.60	3.67	4.70	5.74	6.77	7.81	8.84	9.86	10.88	11.91
reaction time		interval	7 steps	1.07	1.03	1.04	1.03	1.04	1.03	1.02	1.02	1.03
wind	0.1 m/s	velocity	5.28	8.54	8.87	8.79	8.87	8.79	8.87	8.96	8.96	8.87

13.27 3 / 3

3.14 3.10 3.07
8.73 8.85 8.93**Murray, Cameron (USA) (1999)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)

Henson (2024) - Athlete First: 2024 year end hurdle report

date	27-Jun-24	time	2.57	3.60	4.64	5.67	6.69	7.72	8.75	9.79	10.81	11.88
reaction time		interval	7 steps	1.03	1.04	1.03	1.02	1.03	1.03	1.04	1.02	1.07
wind	0.3 m/s	velocity	5.34	8.87	8.79	8.87	8.96	8.87	8.87	8.79	8.96	8.54

13.27 8 / 3

3.10 3.08 3.13
8.85 8.90 8.76**Simonelli, Lorenzo Ndele (ITA) (2002)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

Heat 4 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	04-Aug-24	time	2.36	3.43	4.46	5.44	6.44	7.46	8.48	9.55	10.60	11.68
reaction time	0.151	interval	7 steps	1.07	1.03	0.98	1.00	1.02	1.02	1.07	1.05	1.08
wind	0.3 m/s	velocity	5.81	8.54	8.87	9.33	9.14	8.96	8.96	8.54	8.70	8.46

13.27 7 / 2

3.08 3.04 3.20
8.90 9.02 8.57**Izumiya, Shunsuke (JPN) (2000)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

Heat 4 - 2024 Olympic Games (Paris, FRA)

Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season

date	04-Aug-24	time	2.58	3.63	4.67	5.69	6.72	7.74	8.75	9.80	10.83	11.91
reaction time	0.150	interval	7 steps	1.05	1.04	1.02	1.03	1.02	1.01	1.05	1.03	1.08
wind	0.3 m/s	velocity	5.32	8.70	8.79	8.96	8.87	8.96	9.05	8.70	8.87	8.46

13.27 9 / 3

3.11 3.06 3.16
8.82 8.96 8.68**Martinez, Asier (ESP) (2000)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)

Omega Timing (2024) - diamond league race analysis

date	30-Aug-24	time	2.45	3.52	4.53	5.53	6.54	7.57	8.59	9.62	10.66	11.71
reaction time	0.157	interval	7 steps	1.07	1.01	1.00	1.01	1.03	1.02	1.03	1.04	1.05
wind	0.4 m/s	velocity	5.60	8.54	9.05	9.14	9.05	8.87	8.96	8.87	8.79	8.70

13.27 2 / 2

3.08 3.06 3.12
8.90 8.96 8.79**Tinch, Cordell (USA) (2000)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 2024 Memorial van damme (Brussels, BEL)

Omega Timing (2024) - diamond league race analysis

date	13-Sep-24	time	2.40	3.47	4.48	5.47	6.47	7.47	8.49	9.54	10.61	11.69
reaction time	0.147	interval	7 steps	1.07	1.01	0.99	1.00	1.00	1.02	1.05	1.07	1.08
wind	0.4 m/s	velocity	5.72	8.54	9.05	9.23	9.14	9.14	8.96	8.70	8.54	8.46

13.27 7 / 4

3.07 3.02 3.20
8.93 9.08 8.57**Caristan, Stéphane (FRA) (1964)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

Semi-Final 1 - 1986 European Championships (Stuttgart, FRG)

Hommel (1988) - nsa photosequence 4 - 110m hurdles - stephane caristan (FRA)

date	29-Aug-86	time	2.59	3.59	4.61	5.65	6.67	7.69	8.71	9.75	10.81	11.85
reaction time		interval		1.00	1.02	1.04	1.02	1.02	1.02	1.04	1.06	1.04
wind	0.9 m/s	velocity	5.30	9.14	8.96	8.79	8.96	8.96	8.96	8.79	8.62	8.79

13.28 / 1

3.06 3.06 3.14
8.96 8.96 8.73**Jackson, Colin (GBR) (1967)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

FINAL - 1988 Olympic Games (Seoul, KOR)

Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988

date	26-Sep-88	time	2.57	3.61	4.65	5.67	6.70	7.72	8.75	9.79	10.82	11.87	13.28	1 / 2			
reaction time	0.131	interval		1.04	1.04	1.02	1.03	1.02	1.03	1.04	1.03	1.05	1.41		3.10	3.08	3.12
wind	1.5 m/s	velocity	5.34	8.79	8.79	8.96	8.87	8.96	8.87	8.79	8.87	8.70	9.94	8.28	8.85	8.90	8.79
Brown, Steve (USA) (1969)																	
FINAL - 1996 USA Olympic Trials (Atlanta, GA)																	
<i>McNichols (2000) - Hurdle technique study through video analysis</i>																	
date	23-Jun-96	time	2.40	3.46	4.46	5.44	6.44	7.52	8.58	9.63	10.66	11.72	13.28	8 / 4			
reaction time		interval		1.06	1.00	0.98	1.00	1.08	1.06	1.05	1.03	1.06	1.56		3.04	3.14	3.14
wind	0.9 m/s	velocity	5.72	8.62	9.14	9.33	9.14	8.46	8.62	8.70	8.87	8.62	8.99	8.28	9.02	8.73	8.73
Jackson, Colin (GBR) (1967)																	
FINAL - 1997 European Cup (Munich, GER)																	
<i>Jung (2003) - http://www.fgs.uni-halle.de</i>																	
date	22-Jun-97	time	2.57	3.60	4.62	5.62	6.62	7.64	8.68	9.72	10.77	11.85	13.28	1 / 2			
reaction time		interval		1.03	1.02	1.00	1.00	1.02	1.04	1.04	1.05	1.08	1.43		3.05	3.06	3.17
wind	0.2 m/s	velocity	5.34	8.87	8.96	9.14	9.14	8.96	8.79	8.79	8.70	8.46	9.80	8.28	8.99	8.96	8.65
Trammell, Terrence (USA) (1978)																	
FINAL - 2000 ISTAF (Berlin, GER)																	
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
date	01-Sep-00	time	2.54	3.59	4.62	5.63	6.66	7.68	8.72	9.74	10.78	11.85	13.28	1 / 1			
reaction time	0.154	interval		1.05	1.03	1.01	1.03	1.02	1.04	1.02	1.04	1.07	1.43		3.09	3.09	3.13
wind	-0.4 m/s	velocity	5.40	8.70	8.87	9.05	8.87	8.96	8.79	8.96	8.79	8.54	9.80	8.28	8.87	8.87	8.76
Brown, Joel (USA) (1980)																	
FINAL - 2005 USATF National Championships (Carson, CA)																	
<i>USATF Women's Sprint Development (2005)</i>																	
date	24-Jun-05	time	2.61	3.67	4.71	5.73	6.74	7.78	8.80	9.81	10.86	11.91	13.28	4 / 4			
reaction time		interval		1.06	1.04	1.02	1.01	1.04	1.02	1.01	1.05	1.05	1.37		3.12	3.07	3.11
wind	0.2 m/s	velocity	5.26	8.62	8.79	8.96	9.05	8.79	8.96	9.05	8.70	8.70	10.23	8.28	8.79	8.93	8.82
Payne, David (USA) (1982)																	
Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)																	
<i>USATF Men's Hurdle Development (2007)</i>																	
date	24-Jun-07	time	2.57	3.64	4.65	5.69	6.69	7.72	8.76	9.78	10.82	11.88	13.28	4 / 1			
reaction time		interval		1.07	1.01	1.04	1.00	1.03	1.04	1.02	1.04	1.06	1.40		3.12	3.07	3.12
wind	-0.6 m/s	velocity	5.34	8.54	9.05	8.79	9.14	8.87	8.79	8.96	8.79	8.62	10.01	8.28	8.79	8.93	8.79
Wilson, Ryan (USA) (1980)																	
Heat 2 - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)																	
<i>Henson (2021) - Athlete First: 2012 Aries Merritt world record season</i>																	
date	13-Jul-12	time	2.56	3.60	4.60	5.60	6.60	7.62	8.64	9.68	10.72	11.78	13.28	5 / 3			
reaction time	0.157	interval	7 steps	1.04	1.00	1.00	1.00	1.02	1.02	1.04	1.04	1.06	1.50		3.04	3.04	3.14
wind	-0.9 m/s	velocity	5.36	8.79	9.14	9.14	9.14	8.96	8.96	8.79	8.79	8.62	9.35	8.28	9.02	9.02	8.73
Riley, Andrew (JAM) (1988)																	
FINAL - 2012 Herculis Meeting International D'Athlétisme (Monaco, MON) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																	
date	20-Jul-12	time	2.46	3.50	4.53	5.55	6.57	7.64	8.67	9.71	10.72	11.81	13.28	8 / 7			
reaction time	0.138	interval		1.04	1.03	1.02	1.02	1.07	1.03	1.04	1.01	1.09	1.47		3.09	3.12	3.14
wind	0.0 m/s	velocity	5.58	8.79	8.87	8.96	8.96	8.54	8.87	8.79	9.05	8.39	9.54	8.28	8.87	8.79	8.73
Fourie, Lehann (RSA) (1987)																	
Semi-Final 3 - 2012 Olympic Games (London, GBR) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																	
date	08-Aug-12	time	2.44	3.52	4.54	5.56	6.56	7.58	8.58	9.64	10.70	11.78	13.28	6 / 3			
reaction time	0.139	interval	7 steps	1.08	1.02	1.02	1.00	1.02	1.00	1.06	1.06	1.08	1.50		3.12	3.02	3.20
wind	0.1 m/s	velocity	5.62	8.46	8.96	8.96	9.14	8.96	9.14	8.62	8.62	8.46	9.35	8.28	8.79	9.08	8.57
Oliver, David (USA) (1982)																	
FINAL - 2012 AVIVA Grand Prix (Birmingham, GBR) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																	
date	26-Aug-12	time	2.50	3.53	4.56	5.59	6.59	7.62	8.64	9.68	10.74	11.78	13.28	4 / 3			
reaction time	0.154	interval	7 steps	1.03	1.03	1.03	1.00	1.03	1.02	1.04	1.06	1.04	1.50		3.09	3.05	3.14
wind	-0.9 m/s	velocity	5.49	8.87	8.87	8.87	9.14	8.87	8.96	8.79	8.62	8.79	9.35	8.28	8.87	8.99	8.73
Xie Wenjun (CHN) (1990)																	
FINAL - 2013 Golden Grand Prix (Shanghai, CHN)																	
<i>Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles</i>																	
date	18-May-13	time	2.54	3.60	4.63	5.64	6.68	7.70	8.74	9.77	10.81	11.87	13.28	1 / 3			
reaction time	0.137	interval		1.06	1.03	1.01	1.04	1.02	1.04	1.03	1.04	1.06	1.41		3.10	3.10	3.13
wind	-0.5 m/s	velocity	5.40	8.62	8.87	9.05	8.79	8.96	8.79	8.87	8.79	8.62	9.94	8.28	8.85	8.85	8.76
Alkana, Antonio (RSA) (1990)																	
FINAL - 2016 Meeting International Mohammed VI D'Athlétisme (Rabat, MAR) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																	
date	22-May-16	time	2.48	3.52	4.52	5.52	6.52	7.56	8.58	9.62	10.68	11.78	13.28	9 / 3			
reaction time	0.129	interval		1.04	1.00	1.00	1.00	1.04	1.02	1.04	1.06	1.10	1.50		3.04	3.06	3.20
wind	1.4 m/s	velocity	5.53	8.79	9.14	9.14	9.14	8.79	8.96	8.79	8.62	8.31	9.35	8.28	9.02	8.96	8.57
Eaton, Jarret (USA) (1989)																	
FINAL - 2016 Racers Grand Prix (Kingston, JAM) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																	
date	11-Jun-16	time	2.43	3.46	4.46	5.48	6.50	7.50	8.53	9.56	10.63	11.70	13.28	5 / 3			

reaction time		interval	7 steps	1.03	1.00	1.02	1.02	1.00	1.03	1.03	1.07	1.07	1.58			3.05	3.05	3.17
wind	0.2 m/s	velocity	5.65	8.87	9.14	8.96	8.96	9.14	8.87	8.87	8.54	8.54	8.87	8.28		8.99	8.99	8.65

Richardson, Jason (USA) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)																		
date	09-Jul-16	time	2.56	3.60	4.60	5.60	6.60	7.64	8.64	9.67	10.71	11.76		13.28	7 / 5			
reaction time	0.212	interval	7 steps	1.04	1.00	1.00	1.00	1.04	1.00	1.03	1.04	1.05	1.52			3.04	3.04	3.12
wind	1.0 m/s	velocity	5.36	8.79	9.14	9.14	9.14	8.79	9.14	8.87	8.79	8.70	9.22	8.28		9.02	9.02	8.79

Baji, Balázs (HUN) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 IAAF World Championships (London, GBR)																		
date	07-Aug-17	time	2.39	3.47	4.49	5.52	6.54	7.56	8.58	9.61	10.66	11.71		13.28	5 / 3			
reaction time	0.122	interval	7 steps	1.08	1.02	1.03	1.02	1.02	1.02	1.03	1.05	1.05	1.57			3.13	3.06	3.13
wind	0.0 m/s	velocity	5.74	8.46	8.96	8.87	8.96	8.96	8.96	8.87	8.70	8.70	8.93	8.28		8.76	8.96	8.76

Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)																		
date	06-Aug-17	time	2.35	3.39	4.40	5.43	6.44	7.43	8.45	9.48	10.51	11.62		13.28	6 / 4			
reaction time	0.137	interval	7 steps	1.04	1.01	1.03	1.01	0.99	1.02	1.03	1.03	1.11	1.66			3.08	3.02	3.17
wind	0.6 m/s	velocity	5.84	8.79	9.05	8.87	9.05	9.23	8.96	8.87	8.87	8.23	8.45	8.28		8.90	9.08	8.65

Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Meeting International de Montreuil (Montreuil, FRA) (TV Analysis)																		
date	19-Jun-18	time	2.58	3.62	4.66	5.68	6.68	7.68	8.70	9.72	10.74	11.86		13.28	4 / 3			
reaction time	0.156	interval	7 steps	1.04	1.04	1.02	1.00	1.00	1.02	1.02	1.02	1.12	1.42			3.10	3.02	3.16
wind	0.5 m/s	velocity	5.32	8.79	8.79	8.96	9.14	9.14	8.96	8.96	8.96	8.16	9.87	8.28		8.85	9.08	8.68

Shubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)																		
date	18-May-19	time	2.60	3.66	4.68	5.66	6.66	7.68	8.74	9.76	10.82	11.90		13.28	5 / 3			
reaction time	0.126	interval	7 steps	1.06	1.02	0.98	1.00	1.02	1.06	1.02	1.06	1.08	1.38			3.06	3.08	3.16
wind	0.7 m/s	velocity	5.28	8.62	8.96	9.33	9.14	8.96	8.62	8.96	8.62	8.46	10.16	8.28		8.96	8.90	8.68

Ortega, Orlando (ESP) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)																		
date	18-May-19	time	2.58	3.62	4.64	5.64	6.66	7.68	8.70	9.74	10.80	11.86		13.28	6 / 4			
reaction time	0.154	interval	7 steps	1.04	1.02	1.00	1.02	1.02	1.02	1.04	1.06	1.06	1.42			3.06	3.06	3.16
wind	0.7 m/s	velocity	5.32	8.79	8.96	9.14	8.96	8.96	8.96	8.79	8.62	8.62	9.87	8.28		8.96	8.96	8.68

McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)																		
date	21-May-19	time	2.55	3.57	4.58	5.60	6.64	7.66	8.71	9.75	10.79	11.89		13.28	6 / 2			
reaction time	0.152	interval		1.02	1.01	1.02	1.04	1.02	1.05	1.04	1.04	1.10	1.39			3.05	3.11	3.18
wind	0.1 m/s	velocity	5.38	8.96	9.05	8.96	8.79	8.96	8.70	8.79	8.79	8.31	10.09	8.28		8.99	8.82	8.62

Xie Wenjun (CHN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)																		
date	21-Jul-19	time	2.46	3.53	4.55	5.57	6.58	7.59	8.63	9.66	10.69	11.72		13.28	5 / 1			
reaction time	0.135	interval	7 steps	1.07	1.02	1.02	1.01	1.01	1.04	1.03	1.03	1.03	1.56			3.11	3.06	3.09
wind	0.4 m/s	velocity	5.58	8.54	8.96	8.96	9.05	9.05	8.79	8.87	8.87	8.87	8.99	8.28		8.82	8.96	8.87

Belocian, Wilhem (FRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)																		
date	21-Jul-19	time	2.43	3.46	4.48	5.50	6.50	7.53	8.56	9.58	10.61	11.66		13.28	6 / 2			
reaction time	0.125	interval		1.03	1.02	1.02	1.00	1.03	1.03	1.02	1.03	1.05	1.62			3.07	3.06	3.10
wind	0.4 m/s	velocity	5.65	8.87	8.96	8.96	9.14	8.87	8.87	8.96	8.87	8.70	8.65	8.28		8.93	8.96	8.85

Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																		
date	03-Aug-21	time	2.49	3.52	4.55	5.57	6.63	7.69	8.69	9.72	10.82	11.86		13.28	6 / 2			
reaction time	0.122	interval	7 steps	1.03	1.03	1.02	1.06	1.06	1.00	1.03	1.10	1.04	1.42			3.08	3.12	3.17
wind	-0.2 m/s	velocity	5.51	8.87	8.87	8.96	8.62	8.62	9.14	8.87	8.31	8.79	9.87	8.28		8.90	8.79	8.65

Cunningham, Trey (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																		
date	16-Jul-22	time	2.50	3.53	4.56	5.56	6.58	7.60	8.63	9.66	10.76	11.80		13.28	4 / 1			
reaction time	0.115	interval	7 steps	1.03	1.03	1.00	1.02	1.02	1.03	1.03	1.10	1.04	1.48			3.06	3.07	3.17
wind	-0.5 m/s	velocity	5.49	8.87	8.87	9.14	8.96	8.96	8.87	8.87	8.31	8.79	9.47	8.28		8.96	8.93	8.65

Hayles, Jaheem (JAM) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)																		
date	09-Jun-23	time	2.57	3.62	4.66	5.70	6.71	7.72	8.74	9.77	10.79	11.84		13.28	9 / 3			
reaction time		interval		1.05	1.04	1.04	1.01	1.01	1.02	1.03	1.02	1.05	1.44	PB		3.13	3.04	3.10

wind	1.8 m/s	velocity	5.34	8.70	8.79	8.79	9.05	9.05	8.96	8.87	8.96	8.70	9.74	8.28		8.76	9.02	8.85
Nomoto, Syuusei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Fuse Sprint (Tottori, JPN)			<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>															
date	25-Jun-23	time	2.53	3.58	4.64	5.66	6.69	7.71	8.76	9.80	10.84	11.90		13.28	7 / 1			
reaction time	0.148	interval	7 steps	1.05	1.06	1.02	1.03	1.02	1.05	1.04	1.04	1.06	1.38	PB		3.13	3.10	3.14
wind	1.1 m/s	velocity	5.42	8.70	8.62	8.96	8.87	8.96	8.70	8.79	8.79	8.62	10.16	8.28		8.76	8.85	8.73
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Fuse Sprint (Tottori, JPN)			<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>															
date	25-Jun-23	time	2.54	3.55	4.58	5.59	6.62	7.63	8.68	9.73	10.79	11.86		13.28	4 / 2			
reaction time	0.136	interval		1.01	1.03	1.01	1.03	1.01	1.05	1.05	1.06	1.07	1.42			3.05	3.09	3.18
wind	1.1 m/s	velocity	5.40	9.05	8.87	9.05	8.87	9.05	8.70	8.70	8.62	8.54	9.87	8.28		8.99	8.87	8.62
Mason, Tyler (JAM) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)			<i>Omega Timing (2023) - diamond league race analysis</i>															
date	16-Jul-23	time	2.40	3.46	4.49	5.52	6.53	7.57	8.60	9.64	10.67	11.71		13.28	4 / 2			
reaction time	0.152	interval	7 steps	1.06	1.03	1.03	1.01	1.04	1.03	1.04	1.03	1.04	1.57			3.12	3.08	3.11
wind	-0.2 m/s	velocity	5.72	8.62	8.87	8.87	9.05	8.79	8.87	8.79	8.87	8.79	8.93	8.28		8.79	8.90	8.82
Joseph, Jason (SUI) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 World Athletics Championships (Budapest, HUN)			<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>															
date	21-Aug-23	time	2.56	3.58	4.57	5.59	6.61	7.66	8.70	9.75	10.78	11.84		13.28	9 / 7			
reaction time	0.143	interval	7 steps	1.02	0.99	1.02	1.02	1.05	1.04	1.05	1.03	1.06	1.44			3.03	3.11	3.14
wind	0.0 m/s	velocity	5.36	8.96	9.23	8.96	8.96	8.70	8.79	8.70	8.87	8.62	9.74	8.28		9.05	8.82	8.73
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Prefontaine Classic (Eugene, OR)			<i>Omega Timing (2024) - diamond league race analysis</i>															
date	25-May-24	time	2.51	3.56	4.59	5.59	6.59	7.59	8.60	9.61	10.64	11.70		13.28	6 / 4			
reaction time	0.151	interval	7 steps	1.05	1.03	1.00	1.00	1.00	1.01	1.01	1.03	1.06	1.58			3.08	3.01	3.10
wind	-0.1 m/s	velocity	5.47	8.70	8.87	9.14	9.14	9.14	9.05	9.05	8.87	8.62	8.87	8.28		8.90	9.11	8.85
Wilson, De'vion (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)			<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>															
date	28-Jun-24	time	2.56	3.64	4.67	5.71	6.72	7.74	8.76	9.78	10.81	11.86		13.28	9 / 8			
reaction time		interval	7 steps	1.08	1.03	1.04	1.01	1.02	1.02	1.02	1.03	1.05	1.42			3.15	3.05	3.10
wind	2.0 m/s	velocity	5.36	8.46	8.87	8.79	9.05	8.96	8.96	8.96	8.87	8.70	9.87	8.28		8.70	8.99	8.85
Llopis, Enrique (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2024 Olympic Games (Paris, FRA)			<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	04-Aug-24	time	2.41	3.48	4.51	5.51	6.51	7.51	8.53	9.56	10.61	11.67		13.28	9 / 2			
reaction time	0.143	interval	7 steps	1.07	1.03	1.00	1.00	1.00	1.02	1.03	1.05	1.06	1.61			3.10	3.02	3.14
wind	0.1 m/s	velocity	5.69	8.54	8.87	9.14	9.14	9.14	8.96	8.87	8.70	8.62	8.71	8.28		8.85	9.08	8.73
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)			<i>Omega Timing (2024) - diamond league race analysis</i>															
date	30-Aug-24	time	2.38	3.44	4.49	5.52	6.52	7.53	8.55	9.59	10.64	11.70		13.28	9 / 3			
reaction time	0.151	interval		1.06	1.05	1.03	1.00	1.01	1.02	1.04	1.05	1.06	1.58			3.14	3.03	3.15
wind	0.4 m/s	velocity	5.76	8.62	8.70	8.87	9.14	9.05	8.96	8.79	8.70	8.62	8.87	8.28		8.73	9.05	8.70
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2025 Xiamen Diamond League (Xiamen, CHN)			<i>Omega Timing (2025) - diamond league race analysis</i>															
date	26-Apr-25	time	2.43	3.50	4.52	5.53	6.55	7.56	8.58	9.61	10.63	11.70		13.28	7 / 4			
reaction time	0.150	interval		1.07	1.02	1.01	1.02	1.01	1.02	1.03	1.02	1.07	1.58			3.10	3.05	3.12
wind	0.3 m/s	velocity	5.65	8.54	8.96	9.05	8.96	9.05	8.96	8.87	8.96	8.54	8.87	8.28		8.85	8.99	8.79
Ridgeon, Jon (GBR) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1987 IAAF World Championships (Rome, ITA)			<i>Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics</i>															
date	03-Sep-87	time	2.60	3.64	4.70	5.72	6.76	7.79	8.82	9.88	10.93	11.96		13.29	6 / 2			
reaction time		interval		1.04	1.06	1.02	1.04	1.03	1.03	1.06	1.05	1.03	1.33			3.12	3.10	3.14
wind	0.5 m/s	velocity	5.28	8.79	8.62	8.96	8.79	8.87	8.87	8.62	8.70	8.87	10.54	8.28		8.79	8.85	8.73
Schwarthoff, Florian (GER) (1968)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1992 Olympic Games (Barcelona, ESP)			<i>Knight (1992) - 1992 Olympic report: the hurdling events</i>															
date	03-Aug-92	time	2.56	3.57	4.61	5.61	6.61	7.64	8.69	9.74	10.81	11.87		13.29	5 / 5			
reaction time	0.175	interval	7 steps	1.01	1.04	1.00	1.00	1.03	1.05	1.05	1.07	1.06	1.42			3.05	3.08	3.18
wind	0.8 m/s	velocity	5.36	9.05	8.79	9.14	9.14	8.87	8.70	8.70	8.54	8.62	9.87	8.28		8.99	8.90	8.62
Kohutek, Artur (POL) (1971)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1998 European Championships (Budapest, HUN)			<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>															
date	22-Aug-98	time	2.60	3.62	4.65	5.67	6.67	7.70	8.72	9.73	10.75	11.83		13.29	7 / 5			
reaction time		interval		1.02	1.03	1.02	1.00	1.03	1.02	1.01	1.02	1.08	1.46			3.07	3.05	3.11
wind	1.5 m/s	velocity	5.28	8.96	8.87	8.96	9.14	8.87	8.96	9.05	8.96	8.46	9.60	8.28		8.93	8.99	8.82

Oliver, David (USA) (1982)																
Semi-Final 2 - 2007 USATF National Championships (Indianapolis, IN)																
date	24-Jun-07	time	2.65	3.70	4.74	5.74	6.76	7.76	8.79	9.81	10.88	11.93	13.29	Lane / Place	4 / 2	
reaction time	0.194	interval	1.05	1.04	1.00	1.02	1.00	1.03	1.02	1.07	1.05	1.05			3.09	3.14
wind	-0.9 m/s	velocity	5.18	8.70	8.79	9.14	8.96	9.14	8.87	8.96	8.54	8.70	10.31	8.28	8.87	8.73
Wilson, Ryan (USA) (1980)																
FINAL - 2012 Prefontaine Classic (Eugene, OR) (TV Analysis)																
date	02-Jun-12	time	2.62	3.66	4.68	5.68	6.68	7.70	8.74	9.76	10.80	11.88	13.29	Lane / Place	8 / 6	
reaction time	0.152	interval	7 steps	1.04	1.02	1.00	1.00	1.02	1.04	1.02	1.04	1.08	1.41		3.06	3.14
wind	2.4 m/s	velocity	5.24	8.79	8.96	9.14	9.14	8.96	8.79	8.96	8.79	8.46	9.94	8.28	8.96	8.73
Martinot Lagarde, Pascal (FRA) (199)																
Heat 1 - 2014 European Championships (Zurich, SUI)																
date	13-Aug-14	time	2.56	3.59	4.60	5.56	6.54	7.58	8.60	9.64	10.68	11.76	13.29	Lane / Place	3 / 1	
reaction time	0.152	interval	7 steps	1.03	1.01	0.96	0.98	1.04	1.02	1.04	1.04	1.08	1.53		3.00	3.16
wind	-0.7 m/s	velocity	5.36	8.87	9.05	9.52	9.33	8.79	8.96	8.79	8.79	8.46	9.16	8.28	9.14	8.68
Shubenkov, Sergey (RUS) (1990)																
Heat 4 - 2014 European Championships (Zurich, SUI)																
date	13-Aug-14	time	2.63	3.68	4.71	5.74	6.75	7.77	8.81	9.85	10.90	11.94	13.29	Lane / Place	8 / 1	
reaction time	0.145	interval	1.05	1.03	1.03	1.01	1.02	1.04	1.04	1.05	1.04	1.05	1.35		3.11	3.13
wind	0.7 m/s	velocity	5.22	8.70	8.87	8.87	9.05	8.96	8.79	8.79	8.70	8.79	10.39	8.28	8.82	8.76
Martinot Lagarde, Pascal (FRA) (199)																
FINAL - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)																
date	02-Jun-16	time	2.50	3.54	4.56	5.58	6.58	7.58	8.62	9.68	10.70	11.78	13.29	Lane / Place	5 / 2	
reaction time	0.145	interval	7 steps	1.04	1.02	1.02	1.00	1.00	1.04	1.06	1.02	1.08	1.51		3.08	3.16
wind	0.6 m/s	velocity	5.49	8.79	8.96	8.96	9.14	9.14	8.79	8.62	8.96	8.46	9.28	8.28	8.90	8.68
Martinot Lagarde, Pascal (FRA) (199)																
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)																
date	16-Aug-16	time	2.46	3.50	4.52	5.54	6.56	7.56	8.60	9.66	10.72	11.80	13.29	Lane / Place	4 / 4	
reaction time	0.142	interval	7 steps	1.04	1.02	1.02	1.02	1.00	1.04	1.06	1.06	1.08	1.49		3.08	3.20
wind	0.2 m/s	velocity	5.58	8.79	8.96	8.96	8.96	9.14	8.79	8.62	8.62	8.46	9.41	8.28	8.90	8.57
Merritt, Aries (USA) (1985)																
FINAL - 2017 Müller Grand Prix (Birmingham, GBR) (TV Analysis)																
date	20-Aug-17	time	2.48	3.52	4.54	5.52	6.56	7.60	8.62	9.66	10.70	11.78	13.29	Lane / Place	6 / 1	
reaction time	0.127	interval	7 steps	1.04	1.02	0.98	1.04	1.04	1.02	1.04	1.04	1.08	1.51		3.04	3.16
wind	-0.6 m/s	velocity	5.53	8.79	8.96	9.33	8.79	8.79	8.96	8.79	8.79	8.46	9.28	8.28	9.02	8.68
Allen, Devon (USA) (1994)																
FINAL - 2018 Athletissima (Lausanne, SUI) (TV Analysis)																
date	05-Jul-18	time	2.57	3.59	4.63	5.63	6.64	7.68	8.70	9.72	10.80	11.87	13.29	Lane / Place	4 / 2	
reaction time	0.121	interval	1.02	1.04	1.00	1.01	1.04	1.02	1.02	1.08	1.07	1.42			3.06	3.17
wind	0.6 m/s	velocity	5.34	8.96	8.79	9.14	9.05	8.79	8.96	8.96	8.46	8.54	9.87	8.28	8.96	8.65
Pozzi, Andy (GBR) (1992)																
FINAL - 2019 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)																
date	06-Jun-19	time	2.53	3.55	4.56	5.55	6.55	7.60	8.63	9.68	10.73	11.80	13.29	Lane / Place	7 / 2	
reaction time	0.139	interval	7 steps	1.02	1.01	0.99	1.00	1.05	1.03	1.05	1.05	1.07	1.49		3.02	3.17
wind	0.4 m/s	velocity	5.42	8.96	9.05	9.23	9.14	8.70	8.87	8.70	8.70	8.54	9.41	8.28	9.08	8.65
Belocian, Wilhem (FRA) (1995)																
FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)																
date	30-Jun-19	time	2.56	3.60	4.63	5.63	6.63	7.65	8.68	9.70	10.76	11.83	13.29	Lane / Place	2 / 2	
reaction time	0.151	interval	1.04	1.03	1.00	1.00	1.02	1.03	1.02	1.06	1.07	1.46			3.07	3.15
wind	0.3 m/s	velocity	5.36	8.79	8.87	9.14	9.14	8.96	8.87	8.96	8.62	8.54	9.60	8.28	8.93	8.70
McLeod, Omar (JAM) (1994)																
FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)																
date	30-Jun-19	time	2.53	3.60	4.62	5.64	6.66	7.70	8.75	9.80	10.83	11.88	13.29	Lane / Place	5 / 3	
reaction time	0.164	interval	1.07	1.02	1.02	1.02	1.04	1.05	1.05	1.03	1.05	1.41			3.11	3.13
wind	0.3 m/s	velocity	5.42	8.54	8.96	8.96	8.96	8.79	8.70	8.70	8.87	8.70	9.94	8.28	8.82	8.76
Xie Wenjun (CHN) (1990)																
FINAL - 2019 Athletissima (Lausanne, SUI) (TV Analysis)																
date	05-Jul-19	time	2.52	3.56	4.60	5.60	6.60	7.64	8.68	9.72	10.76	11.84	13.29	Lane / Place	3 / 5	
reaction time	0.135	interval	7 steps	1.04	1.04	1.00	1.00	1.04	1.04	1.04	1.04	1.08	1.45		3.08	3.16
wind	1.0 m/s	velocity	5.44	8.79	8.79	9.14	9.14	8.79	8.79	8.79	8.79	8.46	9.67	8.28	8.90	8.68

Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)										Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season								
date	01-Sep-19	time	2.53	3.61	4.63	5.68	6.70	7.73	8.75	9.80	10.83	11.88		13.29	5 / 1			
reaction time		interval		1.08	1.02	1.05	1.02	1.03	1.02	1.05	1.03	1.05	1.41			3.15	3.07	3.13
wind	1.4 m/s	velocity	5.42	8.46	8.96	8.70	8.96	8.87	8.96	8.70	8.87	8.70	9.94	8.28		8.70	8.93	8.76
Trajkovic, Milan (CYP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)										CAA Hurdle Development (2019)								
date	02-Oct-19	time	2.58	3.61	4.63	5.62	6.62	7.63	8.65	9.69	10.77	11.85		13.29	7 / 2			
reaction time	0.162	interval	7 steps	1.03	1.02	0.99	1.00	1.01	1.02	1.04	1.08	1.08	1.44			3.04	3.03	3.20
wind	0.6 m/s	velocity	5.32	8.87	8.96	9.23	9.14	9.05	8.96	8.79	8.46	8.46	9.74	8.28		9.02	9.05	8.57
Xie Wenjun (CHN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 IAAF World Championships (Doha, QAT)										CAA Hurdle Development (2019)								
date	02-Oct-19	time	2.59	3.64	4.66	5.68	6.69	7.71	8.73	9.76	10.80	11.86		13.29	2 / 5			
reaction time	0.140	interval	7 steps	1.05	1.02	1.02	1.01	1.02	1.02	1.03	1.04	1.06	1.43			3.09	3.05	3.13
wind	0.6 m/s	velocity	5.30	8.70	8.96	8.96	9.05	8.96	8.96	8.87	8.79	8.62	9.80	8.28		8.87	8.99	8.76
Dickson, Michael (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)										Henson (2021) - Athlete First: 2021 year end hurdle report								
date	26-Jun-21	time	2.50	3.60	4.57	5.60	6.63	7.67	8.67	9.71	10.74	11.86		13.29	6 / 3			
reaction time	0.173	interval	7 steps	1.10	0.97	1.03	1.03	1.04	1.00	1.04	1.03	1.12	1.43			3.10	3.07	3.19
wind	1.2 m/s	velocity	5.49	8.31	9.42	8.87	8.87	8.79	9.14	8.79	8.87	8.16	9.80	8.28		8.85	8.93	8.60
Edwards Jr., Eric (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)										USATF (2022) - Results powered by Karmarush.com								
date	26-Jun-22	time	2.42	3.45	4.53	5.51	6.54	7.60	8.61	9.64	10.56	11.66		13.29	5 / 3			
reaction time		interval		1.03	1.08	0.98	1.03	1.06	1.01	1.03	0.92	1.10	1.63			3.09	3.10	3.05
wind	0.4 m/s	velocity	5.67	8.87	8.46	9.33	8.87	8.62	9.05	8.87	9.93	8.31	8.60	8.28		8.87	8.85	8.99
Martinez, Asier (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)										Henson (2022) - Athlete First: 2022 year end hurdle report								
date	08-Sep-22	time	2.57	3.65	4.68	5.70	6.71	7.74	8.74	9.81	10.84	11.88		13.29	3 / 4			
reaction time	0.144	interval	7 steps	1.08	1.03	1.02	1.01	1.03	1.00	1.07	1.03	1.04	1.41			3.13	3.04	3.14
wind	-1.0 m/s	velocity	5.34	8.46	8.87	8.96	9.05	8.87	9.14	8.54	8.87	8.79	9.94	8.28		8.76	9.02	8.73
Edwards, Eric (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)										Henson (2023) - Athlete First: 2023 year end hurdle report								
date	04-Jun-23	time	2.56	3.60	4.64	5.67	6.70	7.73	8.76	9.80	10.83	11.93		13.29	3 / 3			
reaction time	0.129	interval		1.04	1.04	1.03	1.03	1.03	1.03	1.04	1.03	1.10	1.36			3.11	3.09	3.17
wind	0.4 m/s	velocity	5.36	8.79	8.79	8.87	8.87	8.87	8.87	8.79	8.87	8.31	10.31	8.28		8.82	8.87	8.65
Joseph, Jason (SUI) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Meeting de Paris (Paris, FRA)										Omega Timing (2023) - diamond league race analysis								
date	09-Jun-23	time	2.43	3.47	4.49	5.49	6.50	7.51	8.53	9.56	10.61	11.67		13.29	3 / 7			
reaction time	0.195	interval	7 steps	1.04	1.02	1.00	1.01	1.01	1.02	1.03	1.05	1.06	1.62			3.06	3.04	3.14
wind	-0.5 m/s	velocity	5.65	8.79	8.96	9.14	9.05	9.05	8.96	8.87	8.70	8.62	8.65	8.28		8.96	9.02	8.73
Ojora, Tade (GBR) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)										Henson (2023) - Athlete First: 2023 year end hurdle report								
date	09-Jun-23	time	2.57	3.63	4.65	5.67	6.69	7.71	8.74	9.77	10.80	11.86		13.29	3 / 4			
reaction time		interval	7 steps	1.06	1.02	1.02	1.02	1.02	1.03	1.03	1.03	1.06	1.43	PB		3.10	3.07	3.12
wind	1.8 m/s	velocity	5.34	8.62	8.96	8.96	8.96	8.96	8.87	8.87	8.87	8.62	9.80	8.28		8.85	8.93	8.79
Dunning, Robert (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)										Henson (2023) - Athlete First: 2023 year end hurdle report								
date	24-Jun-23	time	2.53	3.57	4.61	5.61	6.62	7.64	8.66	9.68	10.74	11.83		13.29	6 / 6			
reaction time	0.181	interval	7 steps	1.04	1.04	1.00	1.01	1.02	1.02	1.02	1.06	1.09	1.46			3.08	3.05	3.17
wind	1.6 m/s	velocity	5.42	8.79	8.79	9.14	9.05	8.96	8.96	8.96	8.62	8.39	9.60	8.28		8.90	8.99	8.65
Cunningham, Trey (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)										Henson (2023) - Athlete First: 2023 year end hurdle report								
date	09-Jul-23	time	2.51	3.56	4.57	5.58	6.60	7.62	8.66	9.70	10.76	11.82		13.29	4 / 5			
reaction time		interval	7 steps	1.05	1.01	1.01	1.02	1.02	1.04	1.04	1.06	1.06	1.47			3.07	3.08	3.16
wind	-0.2 m/s	velocity	5.47	8.70	9.05	9.05	8.96	8.96	8.79	8.79	8.62	8.62	9.54	8.28		8.93	8.90	8.68
Mason, Tyler (JAM) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)										Omega Timing (2023) - diamond league race analysis								
date	16-Jul-23	time	2.38	3.45	4.50	5.53	6.55	7.57	8.59	9.63	10.67	11.72		13.29	5 / 3			
reaction time	0.138	interval	7 steps	1.07	1.05	1.03	1.02	1.02	1.02	1.04	1.04	1.05	1.57			3.15	3.06	3.13
wind	0.3 m/s	velocity	5.76	8.54	8.70	8.87	8.96	8.96	8.96	8.79	8.79	8.70	8.93	8.28		8.70	8.96	8.76
Muratake, Rachid (JPN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

FINAL - 2024 Mikio Oda Memorial (Hiroshima, JPN)

date	29-Apr-24	time	2.64	3.69	4.71	5.71	6.72	7.73	8.75	9.79	10.84	11.90	13.29	3 / 1			
reaction time	0.191	interval	7 steps	1.05	1.02	1.00	1.01	1.01	1.02	1.04	1.05	1.06	1.39		3.07	3.04	3.15
wind	-0.6 m/s	velocity	4.92	8.10	8.33	8.50	8.42	8.42	8.33	8.17	8.10	8.02	10.09	8.28	8.93	9.02	8.70

Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season

Cunningham, Trey (USA) (1998)

date	25-May-24	time	2.40	3.44	4.45	5.45	6.46	7.48	8.51	9.57	10.63	11.72	13.29	2 / 5			
reaction time	0.134	interval	7 steps	1.04	1.01	1.00	1.01	1.02	1.03	1.06	1.06	1.09	1.57		3.05	3.06	3.21
wind	-0.1 m/s	velocity	5.72	8.79	9.05	9.14	9.05	8.96	8.87	8.62	8.62	8.39	8.93	8.28	8.99	8.96	8.54

Omega Timing (2024) - diamond league race analysis

Qin Weibo (CHN) (2002)

date	02-Jun-24	time	2.60	3.64	4.67	5.68	6.68	7.70	8.72	9.75	10.80	11.85	13.29	5 / 2			
reaction time	0.157	interval	7 steps	1.04	1.03	1.01	1.00	1.02	1.02	1.03	1.05	1.05	1.44		3.08	3.04	3.13
wind	1.3 m/s	velocity	5.28	8.79	8.87	9.05	9.14	8.96	8.96	8.87	8.70	8.70	9.74	8.28	8.90	9.02	8.76

Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season

Obasuyi, Michael (BEL) (1999)

date	07-Jul-24	time	2.41	3.47	4.49	5.50	6.51	7.54	8.56	9.59	10.64	11.70	13.29	7 / 6			
reaction time	0.151	interval	7 steps	1.06	1.02	1.01	1.01	1.03	1.02	1.03	1.05	1.06	1.59		3.09	3.06	3.14
wind	-0.6 m/s	velocity	5.69	8.62	8.96	9.05	9.05	8.87	8.96	8.87	8.70	8.62	8.82	8.28	8.87	8.96	8.73

Omega Timing (2024) - diamond league race analysis

Tinch, Cordell (USA) (2000)

date	25-Aug-24	time	2.41	3.45	4.49	5.49	6.50	7.50	8.52	9.58	10.63	11.70	13.29	4 / 4			
reaction time	0.173	interval	7 steps	1.04	1.04	1.00	1.01	1.00	1.02	1.06	1.05	1.07	1.59		3.08	3.03	3.18
wind	1.1 m/s	velocity	5.69	8.79	8.79	9.14	9.05	9.14	8.96	8.62	8.70	8.54	8.82	8.28	8.90	9.05	8.62

Omega Timing (2024) - diamond league race analysis

Edwards, Eric (USA) (2000)

date	30-Aug-24	time	2.39	3.46	4.51	5.53	6.55	7.57	8.59	9.63	10.68	11.73	13.29	8 / 4			
reaction time	0.130	interval		1.07	1.05	1.02	1.02	1.02	1.04	1.05	1.05	1.56			3.14	3.06	3.14
wind	0.4 m/s	velocity	5.74	8.54	8.70	8.96	8.96	8.96	8.79	8.70	8.70	8.99	8.28		8.73	8.96	8.73

Omega Timing (2024) - diamond league race analysis

Xu Zhuoyi (CHN) (2003)

date	03-May-25	time	2.46	3.54	4.58	5.59	6.60	7.61	8.62	9.63	10.67	11.72	13.29	7 / 4			
reaction time	0.165	interval	7 steps	1.08	1.04	1.01	1.01	1.01	1.01	1.01	1.04	1.05	1.57		3.13	3.03	3.10
wind	0.6 m/s	velocity	5.58	8.46	8.79	9.05	9.05	9.05	9.05	9.05	8.79	8.70	8.93	8.28	8.76	9.05	8.85

Omega Timing (2025) - diamond league race analysis

Drut, Guy (FRA) (1950)

date	28-Jul-76	time	2.5	3.5	4.6	5.6	6.6	7.6	8.7	9.7	10.7	11.8	13.30	5 / 1			
reaction time		interval		1.0	1.1	1.0	1.0	1.0	1.1	1.0	1.0	1.1	1.5		3.10	3.10	3.10
wind	0.0 m/s	velocity	5.49	9.14	8.31	9.14	9.14	9.14	8.31	9.14	9.14	8.31	9.35	8.27	8.85	8.85	8.85

Ewen (1977) - montreal 1976

Foster, Greg (USA) (1958)

date	10-Jul-81	time	2.48	3.58	4.60	5.61	6.62	7.67	8.72	9.82	10.92	12.02	13.30	1 / 1			
reaction time		interval		1.10	1.02	1.01	1.01	1.05	1.05	1.10	1.10	1.10	1.28		3.13	3.11	3.30
wind	2.8 m/s	velocity	5.53	8.31	8.96	9.05	9.05	8.70	8.70	8.31	8.31	8.31	10.95	8.27	8.76	8.82	8.31

Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies

Reese, Terry (USA) (1967)

date	07-Aug-97	time	2.66	3.72	4.74	5.74	6.76	7.78	8.80	9.82	10.90	12.00	13.30	7 / 6			
reaction time	0.117	interval		1.06	1.02	1.00	1.02	1.02	1.02	1.02	1.08	1.10	1.30		3.08	3.06	3.20
wind	0.0 m/s	velocity	5.16	8.62	8.96	9.14	8.96	8.96	8.96	8.96	8.46	8.31	10.78	8.27	8.90	8.96	8.57

Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997

Jackson, Colin (GBR) (1967)

date	20-Feb-99	time	2.57	3.62	4.66	5.68	6.70	7.72	8.76	9.79	10.85	11.92	13.30	1 / 1			
reaction time		interval		1.05	1.04	1.02	1.02	1.02	1.04	1.03	1.06	1.07	1.38		3.11	3.08	3.16
wind	0.6 m/s	velocity	5.34	8.70	8.79	8.96	8.96	8.96	8.79	8.87	8.62	8.54	10.16	8.27	8.82	8.90	8.68

Arnold (2009) - UK Athletics - Hurdling Masterclass

Schwarthoff, Florian (GER) (1968)

date	24-Aug-99	time	2.52	3.56	4.59	5.59	6.60	7.61	8.61	9.64	10.67	11.75	13.30	8 / 2			
reaction time	0.135	interval		1.04	1.03	1.00	1.01	1.01	1.00	1.03	1.03	1.08	1.55		3.07	3.02	3.14
wind	0.0 m/s	velocity	5.44	8.79	8.87	9.14	9.05	9.05	9.14	8.87	8.87	8.46	9.05	8.27	8.93	9.08	8.73

Sanchez (1999) - Sevilla '99: análisis de la carreras con villas

Dees, Tony (USA) (1963)

date		time															

Sanchez (1999) - Sevilla '99: análisis de la carreras con villas

date	24-Aug-99	time	2.43	2.45	2.49	2.54	2.59	2.65	2.71	2.75	2.80	2.85	2.90	2.95	3.00	3.05	3.10	3.15	3.20
reaction time	0.123	interval		1.02	1.04	1.00	1.01	1.01	1.03	1.06	1.10	1.11	1.49			3.06	3.05	3.27	
wind	0.0 m/s	velocity	5.65	8.96	8.79	9.14	9.05	9.05	8.87	8.62	8.31	8.23	9.41	8.27		8.96	8.99	8.39	
Hernández, Yoel (CUB) (1977)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1999 IAAF World Championships (Sevilla, ESP)			Sanchez (1999) - Sevilla '99: análisis de la carreras con villas																
date	25-Aug-99	time	2.57	3.61	4.63	5.66	6.65	7.65	8.68	9.71	10.73	11.83		13.30	7 / 6				
reaction time	0.129	interval		1.04	1.02	1.03	0.99	1.00	1.03	1.03	1.02	1.10	1.47			3.09	3.02	3.15	
wind	1.0 m/s	velocity	5.34	8.79	8.96	8.87	9.23	9.14	8.87	8.87	8.96	8.31	9.54	8.27		8.87	9.08	8.70	
Hughes, Robby (USA) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2006 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2006)																
date	25-Jun-06	time	2.62	3.64	4.66	5.71	6.69	7.74	8.78	9.81	10.86	11.93		13.30	1 / 4				
reaction time		interval		1.02	1.02	1.05	0.98	1.05	1.04	1.03	1.05	1.07	1.37			3.09	3.07	3.15	
wind	-0.4 m/s	velocity	5.24	8.96	8.96	8.70	9.33	8.70	8.79	8.87	8.70	8.54	10.23	8.27		8.87	8.93	8.70	
Sharman, William (GBR) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2009 IAAF World Championships (Berlin, GER)			Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																
date	20-Aug-09	time	2.54	3.60	4.62	5.64	6.65	7.68	8.73	9.78	10.84	11.91		13.30	6 / 4				
reaction time	0.125	interval	7 steps	1.06	1.02	1.02	1.01	1.03	1.05	1.05	1.06	1.07	1.39	PB		3.10	3.09	3.18	
wind	0.1 m/s	velocity	5.40	8.62	8.96	8.96	9.05	8.87	8.70	8.70	8.62	8.54	10.09	8.27		8.85	8.87	8.62	
Sharman, William (GBR) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)			Henson (2021) - Athlete First: major championships report																
date	12-Aug-13	time	2.54	3.56	4.60	5.60	6.62	7.64	8.68	9.72	10.76	11.84		13.30	2 / 5				
reaction time	0.151	interval	7 steps	1.02	1.04	1.00	1.02	1.02	1.04	1.04	1.04	1.08	1.46			3.06	3.08	3.16	
wind	0.3 m/s	velocity	5.40	8.96	8.79	9.14	8.96	8.96	8.79	8.79	8.79	8.46	9.60	8.27		8.96	8.90	8.68	
Eaton, Jarret (USA) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)			Henson (2020) - Athlete First: 2016 year end hurdle report																
date	09-Jul-16	time	2.47	3.47	4.47	5.47	6.45	7.47	8.49	9.51	10.61	11.71		13.30	2 / 6				
reaction time	0.196	interval	7 steps	1.00	1.00	1.00	0.98	1.02	1.02	1.02	1.10	1.10	1.59			3.00	3.02	3.22	
wind	1.0 m/s	velocity	5.55	9.14	9.14	9.14	9.33	8.96	8.96	8.96	8.31	8.31	8.82	8.27		9.14	9.08	8.52	
Harris, Aleec (USA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)			Henson (2020) - Athlete First: 2017 year end hurdle report																
date	27-May-17	time	2.52	3.58	4.62	5.62	6.62	7.64	8.68	9.74	10.78	11.82		13.30	8 / 6				
reaction time	0.165	interval		1.06	1.04	1.00	1.00	1.02	1.04	1.06	1.04	1.04	1.48			3.10	3.06	3.14	
wind	0.9 m/s	velocity	5.44	8.62	8.79	9.14	9.14	8.96	8.79	8.62	8.79	8.79	9.47	8.27		8.85	8.96	8.73	
Manga, Aurel (FRA) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)			Henson (2020) - Athlete First: 2017 year end hurdle report																
date	18-Jun-17	time	2.46	3.48	4.50	5.54	6.54	7.56	8.58	9.62	10.70	11.78		13.30	6 / 4				
reaction time	0.147	interval	7 steps	1.02	1.02	1.04	1.00	1.02	1.02	1.04	1.08	1.08	1.52			3.08	3.04	3.20	
wind	3.5 m/s	velocity	5.58	8.96	8.96	8.79	9.14	8.96	8.96	8.79	8.46	8.46	9.22	8.27		8.90	9.02	8.57	
Trajkovic, Milan (CYP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Meeting de Paris (Paris, FRA) (TV Analysis)			Henson (2020) - Athlete First: 2017 year end hurdle report																
date	01-Jul-17	time	2.50	3.56	4.58	5.60	6.62	7.66	8.70	9.74	10.80	11.86		13.30	2 / 6				
reaction time	0.142	interval	7 steps	1.06	1.02	1.02	1.02	1.04	1.04	1.04	1.06	1.06	1.44			3.10	3.10	3.16	
wind	-0.1 m/s	velocity	5.49	8.62	8.96	8.96	8.96	8.79	8.79	8.79	8.62	8.62	9.74	8.27		8.85	8.85	8.68	
Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)			Henson (2020) - Athlete First: 2017 year end hurdle report																
date	09-Jul-17	time	2.52	3.56	4.56	5.64	6.70	7.70	8.74	9.80	10.82	11.88		13.30	6 / 4				
reaction time	0.104	interval		1.04	1.00	1.08	1.06	1.00	1.04	1.06	1.02	1.06	1.42			3.12	3.10	3.14	
wind	0.0 m/s	velocity	5.44	8.79	9.14	8.46	8.62	9.14	8.79	8.62	8.96	8.62	9.87	8.27		8.79	8.85	8.73	
Darien, Garfield (FRA) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 IAAF World Championships (London, GBR)			Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles																
date	07-Aug-17	time	2.38	3.44	4.46	5.48	6.52	7.54	8.56	9.58	10.62	11.72		13.30	6 / 4				
reaction time	0.115	interval	7 steps	1.06	1.02	1.02	1.04	1.02	1.02	1.02	1.04	1.10	1.58			3.10	3.08	3.16	
wind	0.0 m/s	velocity	5.76	8.62	8.96	8.96	8.79	8.96	8.96	8.96	8.79	8.31	8.87	8.27		8.85	8.90	8.68	
Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Athletissima (Lausanne, SUI) (TV Analysis)			Henson (2020) - Athlete First: 2018 year end hurdle report																
date	05-Jul-18	time	2.57	3.59	4.63	5.63	6.64	7.68	8.70	9.72	10.80	11.86		13.30	3 / 3				
reaction time	0.147	interval	7 steps	1.02	1.04	1.00	1.01	1.04	1.02	1.02	1.08	1.06	1.44			3.06	3.07	3.16	
wind	0.6 m/s	velocity	5.34	8.96	8.79	9.14	9.05	8.79	8.96	8.96	8.46	8.62	9.74	8.27		8.96	8.93	8.68	
Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)			Henson (2020) - Athlete First: 2018 year end hurdle report																
date	22-Jul-18	time	2.54	3.58	4.62	5.62	6.62	7.66	8.70	9.74	10.78	11.90		13.30	6 / 2				

reaction time	0.111	interval	1.04	1.04	1.00	1.00	1.04	1.04	1.04	1.04	1.12	1.40			3.08	3.08	3.20
wind	0.2 m/s	velocity	5.40	8.79	8.79	9.14	9.14	8.79	8.79	8.79	8.79	8.16	10.01	8.27	8.90	8.90	8.57

Alkana, Antonio (RSA) (1990)

Kana, Antonio (RSA) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)													Henson (2020) - Athlete First: 2019 year end hurdle report				
date	06-Jun-19	time	2.53	3.60	4.62	5.63	6.63	7.63	8.68	9.72	10.78	11.83		13.30	8 / 3		
reaction time	0.133	interval	1.07	1.02	1.01	1.00	1.00	1.05	1.04	1.06	1.05	1.47			3.10	3.05	3.15
wind	0.4 m/s	velocity	5.42	8.54	8.96	9.05	9.14	9.14	8.70	8.79	8.62	8.70	9.54	8.27	8.85	8.99	8.70

Pozzi, Andy (GBR) (1992)

Bazzi, Andy (GBR) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)													Henson (2020) - Athlete First: 2019 year end hurdle report				
date	16-Jun-19	time	2.48	3.52	4.52	5.52	6.54	7.58	8.62	9.66	10.72	11.78	13.30	4 / 2			
reaction time	0.118	interval	7 steps	1.04	1.00	1.00	1.02	1.04	1.04	1.04	1.06	1.06	1.52		3.04	3.10	3.16
wind	0.3 m/s	velocity	5.53	8.79	9.14	9.14	8.96	8.79	8.79	8.79	8.62	8.62	9.22	8.27	9.02	8.85	8.68

Levy, Ronald (JAM) (1992)

avy, Ronald (JAM) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)													Henson (2020) - Athlete First: 2019 year end hurdle report				
date	30-Jun-19	time	2.60	3.63	4.66	5.73	6.73	7.73	8.75	9.78	10.83	11.86	13.30	6 / 4			
reaction time	0.224	interval	7 steps	1.03	1.03	1.07	1.00	1.00	1.02	1.03	1.05	1.03	1.44		3.13	3.02	3.11
wind	0.3 m/s	velocity	5.28	8.87	8.87	8.54	9.14	9.14	8.96	8.87	8.70	8.87	9.74	8.27	8.76	9.08	8.82

Takayama, Shunya (JPN) (1994)

Akayama, Shunya (JPN) (1994)													H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Corporate Team vs College Team (Hiratsukai, JPN)													(2019) - http://tfdata-store.com/2019/09/03/post-1615/															
date	27-Jul-19	time	2.55	3.58	4.62	5.63	6.66	7.71	8.75	9.79	10.84	11.91		13.30	4 / 1													
reaction time	0.129	interval	1.03	1.03	1.04	1.01	1.03	1.05	1.04	1.04	1.05	1.07	1.39	NR			3.08	3.12	3.16									
wind	1.9 m/s	velocity	5.38	8.87	8.79	9.05	8.87	8.70	8.79	8.79	8.70	8.54	10.09	8.27			8.90	8.79	8.68									

Yang Jiajun (CHN) (2002)

Ang Jiajun (CHN) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)													CAA Hurdle Development (2019)					
date	14-Aug-19	time	2.62	3.69	4.69	5.70	6.71	7.69	8.71	9.73	10.78	11.81		13.30	6 / 1			
reaction time	0.152	interval	1.07	1.00	1.01	1.01	0.98	1.02	1.02	1.05	1.03	1.49			3.08	3.01	3.10	
wind	-0.1 m/s	velocity	5.24	8.54	9.14	9.05	9.05	9.33	8.96	8.96	8.70	8.87	9.41	8.27	8.90	9.11	8.85	

Ortega, Orlando (ESP) (1991)

Rega, Orlando (ESP) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 IAAF World Championships (Doha, QAT)													CAA Hurdle Development (2019)				
date	02-Oct-19	time	2.58	3.60	4.65	5.63	6.66	7.65	8.63	9.66	10.69	11.79	13.30	5 / 3			
reaction time	0.130	interval	7 steps	1.02	1.05	0.98	1.03	0.99	0.98	1.03	1.03	1.10	1.51		3.05	3.00	3.16
wind	0.6 m/s	velocity	5.32	8.96	8.70	9.33	8.87	9.23	9.33	8.87	8.87	8.31	9.28	8.27	8.99	9.14	8.68

Crittenden, Freddie (USA) (1994)

Tittenden, Freddie (USA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)													Henson (2020) - Athlete First: 2020 year end hurdle report				
date	19-Aug-20	time	2.47	3.50	4.52	5.54	6.57		8.64	9.68	10.74	11.78		13.30	8 / 3		
reaction time	0.146	interval	1.03	1.02	1.02	1.03		2.07	1.04	1.06	1.04	1.52			3.07	3.10	3.14
wind	0.3 m/s	velocity	5.55	8.87	8.96	8.96	8.87		8.83	8.79	8.62	8.79	9.22	8.27	8.93	8.85	8.73

Pozzi, Andy (GBR) (1992)

Bozzy, Andy (GBR) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												Henson (2021) - Athlete First: 2021 year end hurdle report					
date	06-Aug-21	time	2.46	3.50	4.52	5.52	6.52	7.54	8.58	9.62	10.68	11.76	13.30	3 / 7			
reaction time	0.140	interval	7 steps	1.04	1.02	1.00	1.00	1.02	1.04	1.04	1.06	1.08	1.54		3.06	3.06	3.18
wind	-0.5 m/s	velocity	5.58	8.79	8.96	9.14	9.14	8.96	8.79	8.79	8.62	8.46	9.10	8.27	8.96	8.96	8.62

Martinez, Asier (ESP) (2000)

artinez, Asier (ESP) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	16-Jun-22	time	2.56	3.62	4.64	5.66	6.68	7.70	8.72	9.76	10.80	11.84	13.30	6 / 2			
reaction time	0.137	interval	7 steps	1.06	1.02	1.02	1.02	1.02	1.04	1.04	1.04	1.46			3.10	3.06	3.12
wind	-1.2 m/s	velocity	5.36	8.62	8.96	8.96	8.96	8.96	8.96	8.79	8.79	9.60	8.27		8.85	8.96	8.79

Cunningham, Trey (USA) (1998)

Lunningham, Trey (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	08-Sep-22	time	2.50	3.50	4.50	5.50	6.54	7.54	8.64	9.66	10.74	11.81		13.30	4 / 5		
reaction time	0.153	interval	7 steps	1.00	1.00	1.00	1.04	1.00	1.10	1.02	1.08	1.07	1.49		3.00	3.14	3.17
wind	-1.0 m/s	velocity	5.49	9.14	9.14	9.14	8.79	9.14	8.31	8.96	8.46	8.54	9.41	8.27	9.14	8.73	8.65

Mason, Tyler (JAM) (1995)

Asan, Tyler (JAM) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report				
date	21-May-23	time	2.56	3.66	4.67	5.66	6.66	7.66	8.68	9.72	10.75	11.86	13.30	3 / 4			
reaction time	0.155	interval	7 steps	1.10	1.01	0.99	1.00	1.00	1.02	1.04	1.03	1.11	1.44		3.10	3.02	3.18
wind	4.0 m/s	velocity	5.36	8.31	9.05	9.23	9.14	9.14	8.96	8.79	8.87	8.23	9.74	8.27	8.85	9.08	8.62

Takayama, Shunya (JPN) (1994)

Takayama, Shunya (JPN) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Japanese National Championships (Osaka, JPN)													Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season				
date	04-Jun-23	time	2.53	3.54	4.56	5.58	6.61	7.63	8.67	9.73	10.78	11.86	13.30	4 / 2			
reaction time	0.128	interval		1.01	1.02	1.02	1.03	1.02	1.04	1.06	1.05	1.08	1.44		3.05	3.09	3.19

wind	-0.9 m/s	velocity	5.42	9.05	8.96	8.96	8.87	8.96	8.79	8.62	8.70	8.46	9.74	8.27		8.99	8.87	8.60	
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															Henson (2023) - Athlete First: 2023 year end hurdle report				
date	20-Aug-23	time	2.58	3.63	4.63	5.65	6.63	7.66	8.70	9.73	10.77	11.80		13.30	3 / 1		3.07	3.05	3.10
reaction time	0.195	interval	7 steps	1.05	1.00	1.02	0.98	1.03	1.04	1.03	1.04	1.03	1.50						
wind	-0.3 m/s	velocity	5.32	8.70	9.14	8.96	9.33	8.87	8.79	8.87	8.79	8.87	9.35	8.27			8.93	8.99	8.85
Llopis, Enrique (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															Henson (2023) - Athlete First: 2023 year end hurdle report				
date	21-Aug-23	time	2.56	3.62	4.64	5.62	6.63	7.65	8.67	9.70	10.76	11.86		13.30	6 / 3		3.06	3.05	3.19
reaction time	0.146	interval	7 steps	1.06	1.02	0.98	1.01	1.02	1.02	1.03	1.06	1.10	1.44	PB					
wind	-0.2 m/s	velocity	5.36	8.62	8.96	9.33	9.05	8.96	8.96	8.87	8.62	8.31	9.74	8.27			8.96	8.99	8.60
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)															Omega Timing (2024) - diamond league race analysis				
date	20-Apr-24	time	2.44	3.49	4.51	5.54	6.54	7.56	8.58	9.61	10.67	11.73		13.30	7 / 4		3.10	3.04	3.15
reaction time	0.166	interval		1.05	1.02	1.03	1.00	1.02	1.02	1.03	1.06	1.06	1.57						
wind	-0.3 m/s	velocity	5.62	8.70	8.96	8.87	9.14	8.96	8.96	8.87	8.62	8.62	8.93	8.27			8.85	9.02	8.70
Liu Junxi (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2025 Yangtze River Delta Athletics Diamond Gala (Keqiao, CHN)															Omega Timing (2025) - diamond league race analysis				
date	03-May-25	time	2.42	3.48	4.52	5.55	6.56	7.58	8.59	9.62	10.66	11.72		13.30	3 / 5		3.13	3.04	3.13
reaction time	0.167	interval	7 steps	1.06	1.04	1.03	1.01	1.02	1.01	1.03	1.04	1.06	1.58						
wind	0.6 m/s	velocity	5.67	8.62	8.79	8.87	9.05	8.96	9.05	8.87	8.79	8.62	8.87	8.27			8.76	9.02	8.76
Jackson, Colin (GBR) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1991 European Cup (Frankfurt, GER)															Federle (2003) - http://www.fgs.uni-halle.de				
date	30-Jun-91	time	2.55	3.61	4.64	5.66	6.69	7.72	8.75	9.79	10.83	11.89		13.31	1 / 1		3.11	3.09	3.14
reaction time		interval		1.06	1.03	1.02	1.03	1.03	1.03	1.04	1.04	1.06	1.42						
wind	-0.9 m/s	velocity	5.38	8.62	8.87	8.96	8.87	8.87	8.87	8.79	8.79	8.62	9.87	8.26			8.82	8.87	8.73
Arnold, Dominique (USA) (1973)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2000 ISTAF (Berlin, GER)															Graubner (2009) - http://www.fgs.uni-halle.de				
date	01-Sep-00	time	2.55	3.63	4.66	5.68	6.70	7.73	8.76	9.78	10.82	11.88		13.31	1 / 2		3.13	3.08	3.12
reaction time	0.157	interval		1.08	1.03	1.02	1.02	1.03	1.03	1.02	1.04	1.06	1.43						
wind	-0.4 m/s	velocity	5.38	8.46	8.87	8.96	8.96	8.87	8.87	8.96	8.79	8.62	9.80	8.26			8.76	8.90	8.79
Wignall, Maurice (JAM) (1976)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2009 IAAF World Championships (Berlin, GER)															Graubner (2009) - biomechanical analyses at the 12th IAAF world championships				
date	20-Aug-09	time	2.61	3.66	4.70	5.72	6.75	7.78	8.81	9.85	10.90	11.98		13.31	8 / 5		3.11	3.09	3.17
reaction time	0.151	interval		1.05	1.04	1.02	1.03	1.03	1.03	1.04	1.05	1.08	1.33						
wind	0.1 m/s	velocity	5.26	8.70	8.79	8.96	8.87	8.87	8.87	8.79	8.70	8.46	10.54	8.26			8.82	8.87	8.65
Clarke, Lawrence (GBR) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2012 Olympic Games (London, GBR) (TV Analysis)															Henson (2020) - Athlete First: 2012 Aries Merritt world record season				
date	08-Aug-12	time	2.48	3.52	4.54	5.54	6.58	7.58	8.62	9.66	10.72	11.80		13.31	4 / 3		3.06	3.08	3.18
reaction time	0.159	interval		1.04	1.02	1.00	1.04	1.00	1.04	1.04	1.06	1.08	1.51	PB					
wind	-0.5 m/s	velocity	5.53	8.79	8.96	9.14	8.79	9.14	8.79	8.79	8.62	8.46	9.28	8.26			8.96	8.90	8.62
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)															Henson (2021) - Athlete First: major championships report				
date	12-Aug-13	time	2.50	3.54	4.54	5.54	6.54	7.54	8.58	9.62	10.68	11.78		13.31	8 / 6		3.04	3.04	3.20
reaction time	0.147	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.04	1.04	1.06	1.10	1.53						
wind	0.3 m/s	velocity	5.49	8.79	9.14	9.14	9.14	9.14	8.79	8.79	8.62	8.31	9.16	8.26			9.02	9.02	8.57
Furuya, Takumu (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL) (99cm)															(2016.07.24) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en				
date	21-Jul-16	time	2.62	3.66	4.68	5.69	6.70	7.72	8.74	9.76	10.81	11.86		13.31	7 / 3		3.07	3.05	3.12
reaction time	0.152	interval		1.04	1.02	1.01	1.01	1.02	1.02	1.02	1.05	1.05	1.45	NJR					
wind	0.2 m/s	velocity	5.24	8.79	8.96	9.05	9.05	8.96	8.96	8.96	8.70	8.70	9.67	8.26			8.93	8.99	8.79
Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)															Henson (2020) - Athlete First: 2016 year end hurdle report				
date	16-Aug-16	time	2.50	3.58	4.60	5.60	6.62	7.66	8.70	9.74	10.76	11.82		13.31	3 / 5		3.10	3.10	3.12
reaction time	0.135	interval		1.08	1.02	1.00	1.02	1.04	1.04	1.04	1.02	1.06	1.49						
wind	0.2 m/s	velocity	5.49	8.46	8.96	9.14	8.96	8.79	8.79	8.79	8.96	8.62	9.41	8.26			8.85	8.85	8.79
Xie Wenjun (CHN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)															Henson (2020) - Athlete First: 2017 year end hurdle report				
date	13-May-17	time	2.56	3.62	4.66	5.66	6.68	7.70	8.72	9.74	10.78	11.86		13.31	2 / 3		3.10	3.06	3.14
reaction time	0.156	interval		1.06	1.04	1.00	1.02	1.02	1.02	1.02	1.04	1.08	1.45						
wind	0.5 m/s	velocity	5.36	8.62	8.79	9.14	8.96	8.96	8.96	8.96	8.79	8.46	9.67	8.26			8.85	8.96	8.73

Alkana, Antonio (RSA) (1990)																
FINAL	- 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)															
date	04-Jul-17	time	2.54	3.58	4.62	5.64	6.64	7.68	8.72	9.76	10.80	11.86		13.31	5 / 5	
reaction time	0.163	interval		1.04	1.04	1.02	1.00	1.04	1.04	1.04	1.04	1.06	1.45			3.10 3.08 3.14
wind	0.3 m/s	velocity	5.40	8.79	8.79	8.96	9.14	8.79	8.79	8.79	8.79	8.62	9.67	8.26		8.85 8.90 8.73
Allen, Devon (USA) (1994)																
FINAL	- 2017 Spitzen Leichtathletik (Luzern, SUI)															
date	18-Jul-17	time	2.60	3.64	4.68	5.71	6.73	7.75	8.77	9.82	10.88	11.94		13.31	5 / 1	
reaction time		interval		1.04	1.04	1.03	1.02	1.02	1.02	1.05	1.06	1.06	1.37			3.11 3.06 3.17
wind	-0.1 m/s	velocity	5.28	8.79	8.79	8.87	8.96	8.96	8.96	8.70	8.62	8.62	10.23	8.26		8.82 8.96 8.65
Merritt, Aries (USA) (1985)																
FINAL	- 2017 IAAF World Championships (London, GBR)															
date	07-Aug-17	time	2.43	3.48	4.50	5.51	6.53	7.55	8.57	9.60	10.66	11.72		13.31	9 / 5	
reaction time		interval		1.05	1.02	1.01	1.02	1.02	1.02	1.03	1.06	1.06	1.59			3.08 3.06 3.15
wind	0.0 m/s	velocity	5.65	8.70	8.96	9.05	8.96	8.96	8.96	8.87	8.62	8.62	8.82	8.26		8.90 8.96 8.70
Shubenkov, Sergey (ANA) (1990)																
FINAL	- 2017 Müller Grand Prix (Birmingham, GBR) (TV Analysis)															
date	20-Aug-17	time	2.54	3.58	4.58	5.60	6.62	7.64	8.66	9.72	10.78	11.82		13.31	7 / 2	
reaction time	0.133	interval		7 steps	1.04	1.00	1.02	1.02	1.02	1.06	1.06	1.04	1.49			3.06 3.06 3.16
wind	-0.6 m/s	velocity	5.40	8.79	9.14	8.96	8.96	8.96	8.96	8.62	8.62	8.79	9.41	8.26		8.96 8.96 8.68
Martinot Lagarde, Pascal (FRA) (199)																
FINAL	- 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)															
date	09-Sep-18	time	2.48	3.56	4.58	5.60	6.60	7.60	8.60	9.64	10.70	11.78		13.31	6 / 3	
reaction time	0.146	interval		7 steps	1.08	1.02	1.00	1.00	1.00	1.04	1.06	1.08	1.53			3.12 3.00 3.18
wind	0.9 m/s	velocity	5.53	8.46	8.96	8.96	9.14	9.14	9.14	8.79	8.62	8.46	9.16	8.26		8.79 9.14 8.62
Tawada, Asahi (JPN)																
U20 FINAL	- 2018 National Sports Festival (Fukui, JPN) (99cm)															
date	07-Oct-18	time	2.59	3.66	4.69	5.73	6.75	7.78	8.80	9.83	10.86	11.91		13.31	3 / 1	
reaction time	0.122	interval		1.07	1.03	1.04	1.02	1.03	1.02	1.03	1.03	1.05	1.40			3.14 3.07 3.11
wind	1.5 m/s	velocity	5.30	8.54	8.87	8.79	8.96	8.87	8.96	8.87	8.87	8.70	10.01	8.26		8.73 8.93 8.82
Brathwaite, Shane (BAR) (1990)																
FINAL	- 2019 Pan American Games (Lima, PER) (TV Analysis)															
date	10-Aug-19	time	2.63	3.68	4.72	5.74	6.74	7.77	8.79	9.81	10.84	11.89		13.31	7 / 1	
reaction time	0.153	interval		1.05	1.04	1.02	1.00	1.03	1.02	1.02	1.03	1.05	1.42			3.11 3.05 3.10
wind	1.8 m/s	velocity	5.22	8.70	8.79	8.96	9.14	8.87	8.96	8.96	8.87	8.70	9.87	8.26		8.82 8.99 8.85
Crittenden, Freddie (USA) (1994)																
FINAL	- 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)															
date	18-Aug-19	time	2.54	3.58	4.62	5.65	6.63	7.65	8.67	9.69	10.72	11.78		13.31	4 / 2	
reaction time	0.116	interval		1.04	1.04	1.03	0.98	1.02	1.02	1.02	1.03	1.06	1.53			3.11 3.02 3.11
wind	-0.2 m/s	velocity	5.40	8.79	8.79	8.87	9.33	8.96	8.96	8.96	8.87	8.62	9.16	8.26		8.82 9.08 8.82
Levy, Ronald (JAM) (1992)																
FINAL	- 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)															
date	06-Sep-19	time	2.50	3.54	4.60	5.64	6.66	7.66	8.68	9.72	10.78	11.82		13.31	3 / 2	
reaction time	0.134	interval		7 steps	1.04	1.06	1.04	1.02	1.00	1.02	1.04	1.06	1.04	1.49		3.14 3.04 3.14
wind	0.0 m/s	velocity	5.49	8.79	8.62	8.79	8.96	9.14	8.96	8.79	8.62	8.79	9.41	8.26		8.73 9.02 8.73
Crittenden, Freddie (USA) (1994)																
FINAL	- 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)															
date	17-Sep-20	time	2.48	3.52	4.56	5.58	6.62	7.64	8.68	9.72	10.76	11.82		13.31	6 / 3	
reaction time	0.139	interval		1.04	1.04	1.02	1.04	1.02	1.04	1.04	1.04	1.06	1.49			3.10 3.10 3.14
wind	0.1 m/s	velocity	5.53	8.79	8.79	8.96	8.79	8.96	8.79	8.79	8.79	8.62	9.41	8.26		8.85 8.85 8.73
Belocian, Wilhem (FRA) (1995)																
FINAL	- 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)															
date	10-Jun-21	time	2.48	3.52	4.56	5.58	6.60	7.64	8.66	9.68	10.76	11.82		13.31	6 / 3	
reaction time	0.138	interval		1.04	1.04	1.02	1.02	1.04	1.02	1.02	1.08	1.06	1.49			3.10 3.08 3.16
wind	-0.1 m/s	velocity	5.53	8.79	8.79	8.96	8.96	8.79	8.96	8.96	8.46	8.62	9.41	8.26		8.85 8.90 8.68
Joseph, Jason (SUI) (1998)																
Heat 1	- 2020 Olympic Games (Tokyo, JPN) (TV Analysis)															
date	03-Aug-21	time	2.57	3.69	4.69	5.70	6.73	7.70	8.69	9.74	10.78	11.86		13.31	6 / 2	
reaction time	0.143	interval		7 steps	1.12	1.00	1.01	1.03	0.97	0.99	1.05	1.04	1.08	1.45		3.13 2.99 3.17
wind	0.0 m/s	velocity	5.34	8.16	9.14	9.05	8.87	9.42	9.23	8.70	8.79	8.46	9.67	8.26		8.76 9.17 8.65

Roberts, Daniel (USA) (1998)																
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)																
date	09-Sep-21	time	2.46	3.52	4.54	5.56	6.58	7.60	8.64	9.68	10.74	11.80		13.31	3 / 4	
reaction time	0.173	interval		1.06	1.02	1.02	1.02	1.02	1.04	1.04	1.06	1.06	1.51		3.10	3.08
wind	0.6 m/s	velocity	5.58	8.62	8.96	8.96	8.96	8.96	8.79	8.79	8.62	8.62	9.28	8.26	8.85	8.90
Muratake, Rachid (JPN) (2002)																
FINAL - 2022 Japanese National Championships (Osaka, JPN)																
date	12-Jun-22	time	2.62	3.65	4.67	5.68	6.70	7.72	8.73	9.78	10.83	11.89		13.31	7 / 2	
reaction time	0.174	interval	7 steps	1.03	1.02	1.01	1.02	1.02	1.01	1.05	1.05	1.06	1.42		3.06	3.05
wind	-1.2 m/s	velocity	5.24	8.87	8.96	9.05	8.96	8.96	9.05	8.70	8.70	8.62	9.87	8.26	8.96	8.99
Czykier, Damian (POL) (1992)																
FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)																
date	18-Jun-22	time	2.52	3.54	4.58	5.60	6.62	7.64	8.66	9.70	10.74	11.80		13.31	7 / 4	
reaction time	0.144	interval	7 steps	1.02	1.04	1.02	1.02	1.02	1.02	1.04	1.04	1.06	1.51		3.08	3.06
wind	-0.2 m/s	velocity	5.44	8.96	8.79	8.96	8.96	8.96	8.96	8.79	8.79	8.62	9.28	8.26	8.90	8.96
Zeller, Joshua (GBR) (2000)																
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																
date	17-Jul-22	time	2.56	3.60	4.63	5.63	6.65	7.67	8.70	9.73	10.80	11.86		13.31	5 / 2	
reaction time	0.124	interval		1.04	1.03	1.00	1.02	1.02	1.03	1.03	1.07	1.06	1.45		3.07	3.07
wind	-0.6 m/s	velocity	5.36	8.79	8.87	9.14	8.96	8.96	8.87	8.87	8.54	8.62	9.67	8.26	8.93	8.93
Roberts, Giano (JAM) (2000)																
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)																
date	09-Jun-23	time	2.50	3.57	4.60	5.63	6.64	7.68	8.72	9.77	10.80	11.83		13.31	7 / 5	
reaction time		interval		1.07	1.03	1.03	1.01	1.04	1.04	1.05	1.03	1.03	1.48	PB	3.13	3.09
wind	1.8 m/s	velocity	5.49	8.54	8.87	8.87	9.05	8.79	8.79	8.70	8.87	8.87	9.47	8.26	8.76	8.87
Britt, Jamal (USA) (1998)																
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)																
date	09-Jul-23	time	2.52	3.57	4.60	5.62	6.64	7.66	8.69	9.72	10.76	11.84		13.31	8 / 6	
reaction time		interval	7 steps	1.05	1.03	1.02	1.02	1.02	1.03	1.03	1.04	1.08	1.47		3.10	3.07
wind	-0.2 m/s	velocity	5.44	8.70	8.87	8.96	8.96	8.96	8.87	8.87	8.79	8.46	9.54	8.26	8.85	8.93
Cunningham, Trey (USA) (1998)																
Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)																
date	16-Jul-23	time	2.41	3.46	4.47	5.48	6.49	7.51	8.54	9.59	10.66	11.73		13.31	5 / 3	
reaction time	0.153	interval	7 steps	1.05	1.01	1.01	1.01	1.02	1.03	1.05	1.07	1.07	1.58		3.07	3.06
wind	0.3 m/s	velocity	5.69	8.70	9.05	9.05	9.05	8.96	8.87	8.70	8.54	8.54	8.87	8.26	8.93	8.96
Belocian, Wilhem (FRA) (1995)																
Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																
date	20-Aug-23	time	2.55	3.58	4.63	5.63	6.64	7.65	8.69	9.75	10.81	11.87		13.31	9 / 1	
reaction time	0.156	interval		1.03	1.05	1.00	1.01	1.01	1.04	1.06	1.06	1.06	1.44		3.08	3.06
wind	0.5 m/s	velocity	5.38	8.87	8.70	9.14	9.05	9.05	8.79	8.62	8.62	8.62	9.74	8.26	8.90	8.96
Kwaou-Mathey, Just (FRA) (1999)																
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																
date	21-Aug-23	time	2.52	3.56	4.60	5.62	6.62	7.65	8.65	9.69	10.73	11.84		13.31	2 / 3	
reaction time	0.165	interval	7 steps	1.04	1.04	1.02	1.00	1.03	1.00	1.04	1.04	1.11	1.47		3.10	3.03
wind	-0.2 m/s	velocity	5.44	8.79	8.79	8.96	9.14	8.87	9.14	8.79	8.79	8.23	9.54	8.26	8.85	9.05
Tinch, Cordell (USA) (2000)																
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																
date	21-Aug-23	time	2.50	3.58	4.60	5.60	6.62	7.65	8.67	9.70	10.76	11.83		13.31	3 / 4	
reaction time	0.168	interval	7 steps	1.08	1.02	1.00	1.02	1.03	1.02	1.03	1.06	1.07	1.48		3.10	3.07
wind	-0.2 m/s	velocity	5.49	8.46	8.96	9.14	8.96	8.87	8.96	8.87	8.62	8.54	9.47	8.26	8.85	8.93
Llopis, Enrique (ESP) (2000)																
FINAL - 2023 Weltklasse (Zürich, SUI)																
date	31-Aug-23	time	2.43	3.51	4.53	5.55	6.55	7.57	8.58	9.63	10.67	11.74		13.31	3 / 2	
reaction time	0.117	interval	7 steps	1.08	1.02	1.02	1.00	1.02	1.01	1.05	1.04	1.07	1.57		3.12	3.03
wind	-0.1 m/s	velocity	5.65	8.46	8.96	8.96	9.14	8.96	9.05	8.70	8.79	8.54	8.93	8.26	8.79	9.05
Edwards, Eric (USA) (2000)																
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)																
date	20-Apr-24	time	2.42	3.47	4.50	5.51	6.54	7.57	8.59	9.63	10.68	11.75		13.31	9 / 5	
reaction time	0.143	interval		1.05	1.03	1.01	1.03	1.03	1.02	1.04	1.05	1.07	1.56		3.09	3.08
wind	-0.3 m/s	velocity	5.67	8.70	8.87	9.05	8.87	8.87	8.96	8.79	8.70	8.54	8.99	8.26	8.87	8.90
Martinez, Asier (ESP) (2000)																

FINAL - 2024 Prefontaine Classic (Eugene, OR)

Omega Timing (2024) - diamond league race analysis

date	25-May-24	time	2.46	3.53	4.56	5.57	6.59	7.61	8.63	9.66	10.70	11.75		13.31	1 / 6			
reaction time	0.136	interval	7 steps	1.07	1.03	1.01	1.02	1.02	1.02	1.03	1.04	1.05	1.56			3.11	3.06	3.12
wind	-0.1 m/s	velocity	5.58	8.54	8.87	9.05	8.96	8.96	8.96	8.87	8.79	8.70	8.99	8.26		8.82	8.96	8.79

Takayama, Shunya (JPN) (1994)**FINAL - 2024 Japanese National Championships (Niigata, JPN)**

Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season

date	30-Jun-24	time	2.56	3.59	4.59	5.59	6.61	7.63	8.65	9.71	10.78	11.85		13.31	6 / 2			
reaction time	0.147	interval		1.03	1.00	1.00	1.02	1.02	1.02	1.06	1.07	1.07	1.46			3.03	3.06	3.20
wind	0.2 m/s	velocity	5.36	8.87	9.14	9.14	8.96	8.96	8.96	8.62	8.54	8.54	9.60	8.26		9.05	8.96	8.57

Mendy, Louis François (SEN) (1999)**Heat 2 - 2024 Olympic Games (Paris, FRA)**

Paris 2024 Olympic Games - Results Book (2024)

date	04-Aug-24	time	2.44	3.53	4.56	5.57	6.58	7.60	8.63	9.65	10.69	11.76		13.31	9 / 1			
reaction time	0.170	interval		1.09	1.03	1.01	1.01	1.02	1.03	1.02	1.04	1.07	1.55			3.13	3.06	3.13
wind	1.2 m/s	velocity	5.62	8.39	8.87	9.05	9.05	8.96	8.87	8.96	8.79	8.54	9.05	8.26		8.76	8.96	8.76

Tinch, Cordell (USA) (2000)**FINAL - 2024 Weltklasse (Zürich, SUI)**

Omega Timing (2024) - diamond league race analysis

date	05-Sep-24	time	2.42	3.48	4.51	5.52	6.52	7.54	8.56	9.60	10.64	11.71		13.31	1 / 7			
reaction time	0.170	interval	7 steps	1.06	1.03	1.01	1.00	1.02	1.02	1.04	1.04	1.07	1.60			3.10	3.04	3.15
wind	-0.3 m/s	velocity	5.67	8.62	8.87	9.05	9.14	8.96	8.96	8.79	8.79	8.54	8.76	8.26		8.85	9.02	8.70

Obasuyi, Michael (BEL) (1999)**FINAL - 2024 Memorial van damme (Brussels, BEL)**

Omega Timing (2024) - diamond league race analysis

date	13-Sep-24	time	2.44	3.51	4.53	5.54	6.56	7.56	8.61	9.65	10.70	11.75		13.31	8 / 5			
reaction time	0.160	interval	7 steps	1.07	1.02	1.01	1.02	1.00	1.05	1.04	1.05	1.05	1.56			3.10	3.07	3.14
wind	0.4 m/s	velocity	5.62	8.54	8.96	9.05	8.96	9.14	8.70	8.79	8.70	8.70	8.99	8.26		8.85	8.93	8.73

Xu Zhuoyi (CHN) (2003)**FINAL - 2024 Chinese National Championships (Quzhou, CHN)**

Shandong Athletics Sport Science (2024)

date	16-Sep-24	time	2.58	3.63	4.65	5.67	6.69	7.71	8.73	9.77	10.81	11.88		13.31	6 / 1			
reaction time	0.171	interval	7 steps	1.05	1.02	1.02	1.02	1.02	1.02	1.04	1.04	1.07	1.43			3.09	3.06	3.15
wind	0.2 m/s	velocity	5.32	8.70	8.96	8.96	8.96	8.96	8.96	8.79	8.79	8.54	9.80	8.26		8.87	8.96	8.70

Jarrett, Tony (GBR) (1968)**FINAL - 1998 European Championships (Budapest, HUN)**

Sanchez (1998) - Budapest '98: análisis de la carreras con villas

date	22-Aug-98	time	2.58	3.61	4.66	5.69	6.74	7.74	8.74	9.76	10.80	11.89		13.32	8 / 6			
reaction time		interval		1.03	1.05	1.03	1.05	1.00	1.00	1.02	1.04	1.09	1.43			3.11	3.05	3.15
wind	1.5 m/s	velocity	5.32	8.87	8.70	8.87	8.70	9.14	9.14	8.96	8.79	8.39	9.80	8.26		8.82	8.99	8.70

Hernández, Yoel (CUB) (1977)**Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)**

Sanchez (1999) - Sevilla '99: análisis de la carreras con villas

date	24-Aug-99	time	2.60	3.61	4.64	5.64	6.66	7.65	8.68	9.71	10.77	11.83		13.32	4 / 3			
reaction time	0.143	interval		1.01	1.03	1.00	1.02	0.99	1.03	1.03	1.06	1.06	1.49			3.04	3.04	3.15
wind	0.0 m/s	velocity	5.28	9.05	8.87	9.14	8.96	9.23	8.87	8.87	8.62	8.62	9.41	8.26		9.02	9.02	8.70

Balzer, Falk (GER) (1973)**Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)**

Sanchez (1999) - Sevilla '99: análisis de la carreras con villas

date	24-Aug-99	time	2.58	3.61	4.62	5.63	6.65	7.66	8.70	9.74	10.80	11.88		13.32	6 / 4			
reaction time	0.136	interval		1.03	1.01	1.01	1.02	1.01	1.04	1.04	1.06	1.08	1.44			3.05	3.07	3.18
wind	0.0 m/s	velocity	5.32	8.87	9.05	9.05	8.96	9.05	8.79	8.79	8.62	8.46	9.74	8.26		8.99	8.93	8.62

Liu Xiang (CHN) (1983)**FINAL - 2001 Chinese National Grand Prix (Shanghai, CHN)**

Fang (2001) - analysis on technical characteristics in Liu Xiang's 110m hurdles

date	06-May-01	time	2.63	3.73	4.73	5.73	6.75	7.77	8.82	9.87	10.92	11.98		13.32	/ 1			
reaction time		interval		1.10	1.00	1.00	1.02	1.02	1.05	1.05	1.05	1.06	1.34	WYB17 / PB		3.10	3.09	3.16
wind	1.9 m/s	velocity	5.22	8.31	9.14	9.14	8.96	8.96	8.70	8.70	8.70	8.62	10.46	8.26		8.85	8.87	8.68

Kohutek, Artur (POL) (1971)**FINAL - 2002 European Championships (Munich, GER)**Graubner (2009) - <http://www.fgs.uni-halle.de>

date	10-Aug-02	time	2.62	3.67	4.69	5.71	6.71	7.73	8.77	9.79	10.85	11.91		13.32	/ 3			
reaction time	0.157	interval		1.05	1.02	1.02	1.00	1.02	1.04	1.02	1.06	1.06	1.41			3.09	3.06	3.14
wind	0.4 m/s	velocity	5.24	8.70	8.96	8.96	9.14	8.96	8.79	8.96	8.62	8.62	9.94	8.26		8.87	8.96	8.73

Liu Xiang (CHN) (1983)**Race 1 - 2003 Chinese National Grand Prix (Nanning, CHN)**

Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles

date	05-Apr-03	time	2.63	3.73	4.73	5.73	6.75	7.77	8.82	9.87	10.92	11.98		13.32	/ 1			
reaction time		interval		1.10	1.00	1.00	1.02	1.02	1.05	1.05	1.05	1.06	1.34			3.10	3.09	3.16
wind	0.4 m/s	velocity	5.22	8.31	9.14	9.14	8.96	8.96	8.70	8.70	8.70	8.62	10.46	8.26		8.85	8.87	8.68

Meredith, Jack (GBR) (1992)**Junior Final - 2010 ExxonMobil Bislett Games (Oslo, NOR) (99cm)**Blomkvist (2010) - www.sub13.se

date	04-Jun-10	time	2.44	3.52	4.52	5.52	6.56	7.56	8.58	9.62	10.68	11.76		13.32	5 / 1			
reaction time	0.147	interval		1.08	1.00	1.00	1.04	1.00	1.02	1.04	1.06	1.08	1.56	NJR		3.08	3.06	3.18
wind	0.3 m/s	velocity	5.62	8.46	9.14	9.14	8.79	9.14	8.96	8.79	8.62	8.46	8.99	8.26		8.90	8.96	8.62
Kiss, Dániel (HUN) (1982)																		
FINAL - 2010 European Team Championships, 1st League (Budapest, HUN)																		
date	20-Jun-10	time	2.49	3.52	4.54	5.53	6.54	7.54	8.58	9.58	10.67	11.75		13.32	5 / 1			
reaction time	0.160	interval		1.03	1.02	0.99	1.01	1.00	1.04	1.00	1.09	1.08	1.57	NR		3.04	3.05	3.17
wind	1.1 m/s	velocity	5.51	8.87	8.96	9.23	9.05	9.14	8.79	9.14	8.39	8.46	8.93	8.26		9.02	8.99	8.65
Porter, Jeff (USA) (1985)																		
FINAL - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)																		
date	13-Jul-12	time	2.48	3.56	4.56	5.56	6.60	7.64	8.68	9.74	10.80	11.86		13.32	5 / 4			
reaction time	0.154	interval		1.08	1.00	1.00	1.04	1.04	1.04	1.06	1.06	1.06	1.46			3.08	3.12	3.18
wind	0.6 m/s	velocity	5.53	8.46	9.14	9.14	8.79	8.79	8.79	8.62	8.62	8.62	9.60	8.26		8.90	8.79	8.62
Belocian, Wilhem (FRA) (1995)																		
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)																		
date	09-Sep-16	time	2.50	3.53	4.57	5.57	6.57	7.60	8.62	9.64	10.71	11.81		13.32	8 / 3			
reaction time	0.153	interval		1.03	1.04	1.00	1.00	1.03	1.02	1.02	1.07	1.10	1.51			3.07	3.05	3.19
wind	0.2 m/s	velocity	5.49	8.87	8.79	9.14	9.14	8.87	8.96	8.96	8.54	8.31	9.28	8.26		8.93	8.99	8.60
Russell, Dejour (JAM) (2000)																		
FINAL - 2017 Jamaican National Championships (Kingston, JAM) (TV Analysis)																		
date	24-Jun-17	time	2.43	3.47	4.50	5.53	6.58	7.63	8.67	9.70	10.75	11.80		13.32	6 / 4			
reaction time		interval		1.04	1.03	1.03	1.05	1.05	1.04	1.03	1.05	1.05	1.52	AJR PB		3.10	3.14	3.13
wind	0.7 m/s	velocity	5.65	8.79	8.87	8.87	8.70	8.70	8.79	8.87	8.70	8.70	9.22	8.26		8.85	8.73	8.76
Trajkovic, Milan (CYP) (1992)																		
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)																		
date	06-Aug-17	time	2.42	3.45	4.50	5.53	6.58	7.61	8.61	9.64	10.68	11.75		13.32	5 / 5			
reaction time	0.146	interval	7 steps	1.03	1.05	1.03	1.05	1.03	1.00	1.03	1.04	1.07	1.57			3.11	3.08	3.14
wind	0.2 m/s	velocity	5.67	8.87	8.70	8.87	8.70	8.87	9.14	8.87	8.79	8.54	8.93	8.26		8.82	8.90	8.73
Brathwaite, Shane (BAR) (1990)																		
FINAL - 2017 IAAF World Championships (London, GBR)																		
date	07-Aug-17	time	2.43	3.47	4.52	5.58	6.61	7.62	8.64	9.67	10.72	11.77		13.32	7 / 6			
reaction time	0.169	interval	7 steps	1.04	1.05	1.06	1.03	1.01	1.02	1.03	1.05	1.05	1.55			3.15	3.06	3.13
wind	0.0 m/s	velocity	5.65	8.79	8.70	8.62	8.87	9.05	8.96	8.87	8.70	8.70	9.05	8.26		8.70	8.96	8.76
Alkana, Antonio (RSA) (1990)																		
FINAL - 2018 Meeting de Paris (Paris, FRA) (TV Analysis)																		
date	30-Jun-18	time	2.50	3.54	4.58	5.58	6.60	7.64	8.66	9.72	10.74	11.82		13.32	7 / 4			
reaction time	0.138	interval		1.04	1.04	1.00	1.02	1.04	1.02	1.06	1.02	1.08	1.50			3.08	3.08	3.16
wind	1.5 m/s	velocity	5.49	8.79	8.79	9.14	8.96	8.79	8.96	8.62	8.96	8.46	9.35	8.26		8.90	8.90	8.68
McLeod, Omar (JAM) (1994)																		
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)																		
date	21-Jul-19	time	2.39	3.45	4.48	5.53	6.55	7.56	8.58	9.64	10.72	11.77		13.32	4 / 3			
reaction time	0.134	interval		1.06	1.03	1.05	1.02	1.01	1.02	1.06	1.08	1.05	1.55			3.14	3.05	3.19
wind	0.4 m/s	velocity	5.74	8.62	8.87	8.70	8.96	9.05	8.96	8.62	8.46	8.70	9.05	8.26		8.73	8.99	8.60
Crittenden, Freddie (USA) (1994)																		
FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)																		
date	10-Aug-19	time	2.63	3.67	4.68	5.70	6.70	7.72	8.76	9.79	10.84	11.89		13.32	6 / 2			
reaction time	0.140	interval		1.04	1.01	1.02	1.00	1.02	1.04	1.03	1.05	1.05	1.43			3.07	3.06	3.13
wind	1.8 m/s	velocity	5.22	8.79	9.05	8.96	9.14	8.96	8.79	8.87	8.70	8.70	9.80	8.26		8.93	8.96	8.76
Takayama, Shunya (JPN) (1994)																		
Heat 4 - 2019 IAAF World Championships (Doha, QAT)																		
date	30-Sep-19	time	2.56	3.58	4.62	5.64	6.66	7.69	8.72	9.77	10.83	11.89		13.32	7 / 2			
reaction time	0.146	interval		1.02	1.04	1.02	1.02	1.03	1.03	1.05	1.06	1.06	1.43			3.08	3.08	3.17
wind	0.4 m/s	velocity	5.36	8.96	8.79	8.96	8.96	8.87	8.87	8.70	8.62	8.62	9.80	8.26		8.90	8.90	8.65
Allen, Devon (USA) (1994)																		
FINAL - 2021 Fanny Blankers Koen Games (Hengelo, NED) (TV Analysis)																		
date	06-Jun-21	time	2.47	3.54	4.54	5.60	6.64	7.67	8.73	9.74	10.77	11.86		13.32	4 / 2			
reaction time		interval		1.07	1.00	1.06	1.04	1.03	1.06	1.01	1.03	1.09	1.46			3.13	3.13	3.13
wind	1.7 m/s	velocity	5.55	8.54	9.14	8.62	8.79	8.87	8.62	9.05	8.87	8.39	9.60	8.26		8.76	8.76	8.76
Allen, Devon (USA) (1994)																		
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)																		
date	10-Jun-21	time	2.52	3.56	4.58	5.60	6.62	7.64	8.68	9.72	10.76	11.82		13.32	5 / 4			

reaction time	0.136	interval	1.04	1.02	1.02	1.02	1.02	1.04	1.04	1.04	1.06	1.50			3.08	3.08	3.14
wind	-0.1 m/s	velocity	5.44	8.79	8.96	8.96	8.96	8.96	8.79	8.79	8.79	8.62	9.35	8.26	8.90	8.90	8.73

Eaton, Jarret (USA) (1989)

ton, Jarret (USA) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report				
date	26-Jun-21	time	2.50	3.56	4.53	5.54	6.55	7.60	8.60	9.63	10.70	11.80	13.32	3 / 4			
reaction time	0.157	interval	7 steps	1.06	0.97	1.01	1.01	1.05	1.00	1.03	1.07	1.10	1.52		3.04	3.06	3.20
wind	1.2 m/s	velocity	5.49	8.62	9.42	9.05	9.05	8.70	9.14	8.87	8.54	8.31	9.22	8.26	9.02	8.96	8.57

Brown, Tai (USA) (2000)

Brown, Tai (USA) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report					
date	26-Jun-21	time	2.60	3.63	4.65	5.67	6.67	7.67	8.69	9.72	10.76	11.84		13.32	8 / 5			
reaction time	0.174	interval	1.03	1.02	1.02	1.00	1.00	1.02	1.03	1.04	1.08	1.48		PB		3.07	3.02	3.15
wind	0.4 m/s	velocity	5.28	8.87	8.96	8.96	9.14	9.14	8.96	8.87	8.79	8.46	9.47	8.26		8.93	9.08	8.70

Martinez, Asier (ESP) (2000)

Artinez, Asier (ESP) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													Henson (2024) - Athlete First: 2021 year end hurdle report				
date	03-Aug-21	time	2.70	3.72	4.73	5.77	6.79	7.81	8.86	9.89	10.90	11.97	13.32	7 / 1			
reaction time	0.146	interval	7 steps	1.02	1.01	1.04	1.02	1.02	1.05	1.03	1.01	1.07	1.35		3.07	3.09	
wind	-0.1 m/s	velocity	5.08	8.96	9.05	8.79	8.96	8.96	8.70	8.87	9.05	8.54	10.39	8.26	8.93	8.87	

Pozzi, Andy (GBR) (1992)

Jazzy, Andy (GBR) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													Henson (2024) - Athlete First: 2021 year end hurdle report					
date	04-Aug-21	time	2.52	3.57	4.57	5.57	6.57	7.60	8.62	9.65	10.74	11.83		13.32	8 / 4			
reaction time	0.148	interval	7 steps	1.05	1.00	1.00	1.00	1.03	1.02	1.03	1.09	1.09	1.49		3.05	3.05	3.21	
wind	0.3 m/s	velocity	5.44	8.70	9.14	9.14	9.14	8.87	8.96	8.87	8.39	8.39	9.41	8.26	8.99	8.99	8.54	

Martinez, Asier (ESP) (2000)

Artinez, Asier (ESP) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	21-May-22	time	2.50	3.57	4.60	5.63	6.68	7.68	8.73	9.77	10.80	11.87	13.32	6 / 3			
reaction time	0.150	interval	7 steps	1.07	1.03	1.03	1.05	1.00	1.05	1.04	1.03	1.07	1.45		3.13	3.10	3.14
wind	0.7 m/s	velocity	5.49	8.54	8.87	8.87	8.70	9.14	8.70	8.79	8.87	8.54	9.67	8.26	8.76	8.85	8.73

Czykier, Damian (POL) (1992)

Zykyier, Damian (POL) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report					
date	21-May-22	time	2.49	3.52	4.53	5.53	6.55	7.57	8.59	9.65	10.72	11.77		13.32	1 / 4			
reaction time	0.158	interval	7 steps	1.03	1.01	1.00	1.02	1.02	1.02	1.06	1.07	1.05	1.55		3.04	3.06	3.18	
wind	0.7 m/s	velocity	5.51	8.87	9.05	9.14	8.96	8.96	8.96	8.62	8.54	8.70	9.05	8.26	9.02	8.96	8.62	

Kwaou-Mathey, Just (FRA) (1999)

Wauou-Mathey, Just (FRA) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)												Henson (2022) - Athlete First: 2022 year end hurdle report					
date	16-Jul-22	time	2.56	3.64	4.66	5.66	6.66	7.70	8.70	9.73	10.76	11.86		13.32	2 / 3		
reaction time	0.150	interval	7 steps	1.08	1.02	1.00	1.00	1.04	1.00	1.03	1.03	1.10	1.46		3.10	3.04	3.16
wind	0.2 m/s	velocity	5.36	8.46	8.96	9.14	9.14	8.79	9.14	8.87	8.87	8.31	9.60	8.26	8.85	9.02	8.68

Czykier, Damian (POL) (1992)

zykier, Damian (POL) (1992)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 World Athletics Championships (Eugene, OR)																	
date	17-Jul-22	time	2.61	3.64	4.64	5.64	6.68	7.68	8.71	9.75	10.81	11.89	13.32	2 / 4			
Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season																	
reaction time	0.140	interval	7 steps	1.03	1.00	1.00	1.04	1.00	1.03	1.04	1.06	1.08	1.43		3.03	3.07	3.18
wind	1.2 m/s	velocity	5.26	8.87	9.14	9.14	8.79	9.14	8.87	8.79	8.62	8.46	9.80	8.26	9.05	8.93	8.62

Roberts, Daniel (USA) (1998)

berts, Daniel (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2023 Meeting de Paris (Paris, FRA)													Omega Timing (2023) - diamond league race analysis				
date	09-Jun-23	time	2.32	3.39	4.42	5.45	6.48	7.51	8.54	9.58	10.63	11.71	13.32	3 / 1			
reaction time	0.153	interval	1.07	1.03	1.03	1.03	1.03	1.03	1.04	1.05	1.08	1.61			3.13	3.09	3.17
wind	-2.0 m/s	velocity	5.91	8.54	8.87	8.87	8.87	8.87	8.79	8.70	8.46	8.71	8.26		8.76	8.87	8.65

Edwards, Eric (USA) (2000)

Iwards, Eric (USA) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Meeting de Paris (Paris, FRA)													Omega Timing (2023) - diamond league race analysis				
date	09-Jun-23	time	2.32	3.39	4.42	5.45	6.48	7.51	8.55	9.58	10.65	11.72	13.32	1 / 8			
reaction time	0.130	interval	1.07	1.03	1.03	1.03	1.03	1.04	1.03	1.07	1.07	1.60			3.13	3.10	3.17
wind	-0.5 m/s	velocity	5.91	8.54	8.87	8.87	8.87	8.87	8.79	8.87	8.54	8.54	8.76	8.26	8.76	8.85	8.65

Ojora, Tade (GBR) (1999)

ora, Tade (GBR) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report				
date	20-Aug-23	time	2.58	3.62	4.68	5.70	6.72	7.74	8.77	9.82	10.88	11.92		13.32	2 / 1		
reaction time	0.148	interval	7 steps	1.04	1.06	1.02	1.02	1.02	1.03	1.05	1.06	1.04	1.40		3.12	3.07	3.15
wind	-0.9 m/s	velocity	5.32	8.79	8.62	8.96	8.96	8.96	8.87	8.70	8.62	8.79	10.01	8.26	8.79	8.93	8.70

Belocian, Wilhem (FRA) (1995)

Lecian, Wilhem (FRA) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 World Athletics Championships (Budapest, HUN)												Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season						
date	21-Aug-23	time	2.58	3.60	4.62	5.62	6.64	7.70	8.72	9.75	10.80	11.87	13.32	2 / 8				
reaction time	0.158	interval		1.02	1.02	1.00	1.02	1.06	1.02	1.03	1.05	1.07	1.45			3.04	3.10	3.15

wind	0.0 m/s	velocity	5.32	8.96	8.96	9.14	8.96	8.62	8.96	8.87	8.70	8.54	9.67	8.26		9.02	8.85	8.70
Martinez, Asier (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2024 Meeting de Paris (Paris, FRA)			Omega Timing (2024) - diamond league race analysis															
date	07-Jul-24	time	2.43	3.52	4.55	5.57	6.58	7.60	8.63	9.66	10.71	11.76		13.32	8 / 3			
reaction time	0.140	interval	7 steps	1.09	1.03	1.02	1.01	1.02	1.03	1.03	1.05	1.05	1.56			3.14	3.06	3.13
wind	0.4 m/s	velocity	5.65	8.39	8.87	8.96	9.05	8.96	8.87	8.87	8.70	8.70	8.99	8.26		8.73	8.96	8.76
Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date	07-Aug-24	time	2.60	3.61	4.65	5.70	6.73	7.76	8.79	9.82	10.86	11.94		13.32	5 / 3			
reaction time	0.165	interval	7 steps	1.01	1.04	1.05	1.03	1.03	1.03	1.04	1.08	1.08	1.38			3.10	3.09	3.15
wind	0.6 m/s	velocity	5.28	9.05	8.79	8.70	8.87	8.87	8.87	8.87	8.79	8.46	10.16	8.26		8.85	8.87	8.70
Trajkovic, Milan (CYP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)			Paris 2024 Olympic Games - Results Book (2024)															
date	07-Aug-24	time	2.36	3.42	4.43	5.43	6.43	7.46	8.49	9.54	10.62	11.71		13.32	3 / 3			
reaction time	0.128	interval	7 steps	1.06	1.01	1.00	1.00	1.03	1.03	1.05	1.08	1.09	1.61			3.07	3.06	3.22
wind	0.6 m/s	velocity	5.81	8.62	9.05	9.14	9.14	8.87	8.87	8.70	8.46	8.39	8.71	8.26		8.93	8.96	8.52
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Olympic Games (Paris, FRA)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date	08-Aug-24	time	2.58	3.64	4.67	5.69	6.72	7.74	8.76	9.80	10.84	11.91		13.32	8 / 6			
reaction time	0.161	interval		1.06	1.03	1.02	1.03	1.02	1.02	1.04	1.04	1.07	1.41			3.11	3.07	3.15
wind	-0.1 m/s	velocity	5.32	8.62	8.87	8.96	8.87	8.96	8.96	8.79	8.79	8.54	9.94	8.26		8.82	8.93	8.70
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2025 Yangtze River Delta Athletics Diamond Gala (Keqiao, CHN)			Omega Timing (2025) - diamond league race analysis															
date	03-May-25	time	2.46	3.55	4.59	5.61	6.61	7.62	8.63	9.65	10.69	11.74		13.32	8 / 6			
reaction time	0.156	interval	7 steps	1.09	1.04	1.02	1.00	1.01	1.01	1.02	1.04	1.05	1.58			3.15	3.02	3.11
wind	0.6 m/s	velocity	5.58	8.39	8.79	8.96	9.14	9.05	9.05	8.96	8.79	8.70	8.87	8.26		8.70	9.08	8.82
Casañas, Alejandro (CUB) (1954)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1976 Olympic Games (Montreal, CAN)			Ewen (1977) - montreal 1976															
date	28-Jul-76	time	2.6	3.6	4.7	5.7	6.8	7.8	8.8	9.8	10.9	11.9		13.33	7 / 2			
reaction time		interval		1.0	1.1	1.0	1.1	1.0	1.0	1.0	1.1	1.0	1.4	PB		3.10	3.10	3.10
wind	0.0 m/s	velocity	5.28	9.14	8.31	9.14	8.31	9.14	9.14	9.14	8.31	9.14	9.80	8.25		8.85	8.85	8.85
Payne, David (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2005 USATF National Championships (Carson, CA)			USATF Women's Sprint Development (2005)															
date	24-Jun-05	time	2.62	3.67	4.71	5.73	6.76	7.81	8.83	9.84	10.90	11.91		13.33	7 / 5			
reaction time		interval		1.05	1.04	1.02	1.03	1.05	1.02	1.01	1.06	1.01	1.42	PB		3.11	3.10	3.08
wind	0.2 m/s	velocity	5.24	8.70	8.79	8.96	8.87	8.70	8.96	9.05	8.62	9.05	9.87	8.25		8.82	8.85	8.90
Wilson, Ryan (USA) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2007 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2007)															
date	24-Jun-07	time	2.65	3.70	4.74	5.74	6.72	7.74	8.78	9.81	10.86	11.91		13.33	3 / 3			
reaction time		interval		1.05	1.04	1.00	0.98	1.02	1.04	1.03	1.05	1.05	1.42			3.09	3.04	3.13
wind	-0.9 m/s	velocity	5.18	8.70	8.79	9.14	9.33	8.96	8.79	8.87	8.70	8.70	9.87	8.25		8.87	9.02	8.76
Hicks, Antwon (USA) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 USA Olympic Trials (Eugene, OR)			USATF Hurdle Development (2008)															
date	06-Jul-08	time	2.57	3.64	4.69	5.74	6.76	7.76	8.78	9.81	10.85	11.91		13.33	3 / 5			
reaction time	0.170	interval	7 steps	1.07	1.05	1.05	1.02	1.00	1.02	1.03	1.04	1.06	1.42			3.17	3.04	3.13
wind	3.5 m/s	velocity	5.34	8.54	8.70	8.70	8.96	9.14	8.96	8.87	8.79	8.62	9.87	8.25		8.65	9.02	8.76
Svoboda, Petr (CZE) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)			Graubner (2009) - http://www.fgs.uni-halle.de															
date	14-Sep-08	time	2.65	3.69	4.70	5.70	6.72	7.74	8.78	9.82	10.87	11.93		13.33	8 / 2			
reaction time	0.191	interval		1.04	1.01	1.00	1.02	1.02	1.04	1.04	1.05	1.06	1.40			3.05	3.08	3.15
wind	-1.3 m/s	velocity	5.18	8.79	9.05	9.14	8.96	8.96	8.79	8.79	8.70	8.62	10.01	8.25		8.99	8.90	8.70
Svoboda, Petr (CZE) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)			Graubner (2009) - biomechanical analyses at the 12th IAAF world championships															
date	20-Aug-09	time	2.61	3.65	4.66	5.68	6.69	7.71	8.74	9.80	10.87	11.95		13.33	3 / 2			
reaction time	0.149	interval		1.04	1.01	1.02	1.01	1.02	1.03	1.06	1.07	1.08	1.38			3.07	3.06	3.21
wind	0.9 m/s	velocity	5.26	8.79	9.05	8.96	9.05	8.96	8.87	8.62	8.54	8.46	10.16	8.25		8.93	8.96	8.54
Oliver, David (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)			Henson (2021) - Athlete First: major championships report															
date	28-Aug-15	time	2.44	3.54	4.58	5.62	6.64	7.66	8.70	9.74	10.78	11.86		13.33	9 / 7			
reaction time	0.157	interval	7 steps	1.10	1.04	1.04	1.02	1.02	1.04	1.04	1.04	1.08	1.47			3.18	3.08	3.16
wind	0.2 m/s	velocity	5.62	8.31	8.79	8.79	8.96	8.96	8.79	8.79	8.79	8.46	9.54	8.25		8.62	8.90	8.68

Bascou, Dimitri (FRA) (1987)																
FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)										<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>						
date	06-May-16	time	2.56	3.60	4.64	5.64	6.64	7.68	8.72	9.76	10.82	11.90		13.33	2 / 5	
reaction time	0.153	interval	7 steps	1.04	1.04	1.00	1.00	1.04	1.04	1.04	1.06	1.08	1.43		3.08	3.08
wind	1.4 m/s	velocity	5.36	8.79	8.79	9.14	9.14	8.79	8.79	8.79	8.62	8.46	9.80	8.25	8.90	8.90
Levy, Ronald (JAM) (1992)																
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)										<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>						
date	12-May-18	time	2.52	3.56	4.60	5.62	6.66	7.70	8.74	9.78	10.82	11.88		13.33	4 / 4	
reaction time	0.122	interval	7 steps	1.04	1.04	1.02	1.04	1.04	1.04	1.04	1.04	1.06	1.45		3.10	3.12
wind	0.2 m/s	velocity	5.44	8.79	8.79	8.96	8.79	8.79	8.79	8.79	8.79	8.62	9.67	8.25	8.85	8.79
Bennett, Orlando (JAM) (1999)																
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN) (99cm)										<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>						
date	12-Jul-18	time	2.62	3.66	4.68	5.68	6.69	7.69	8.69	9.71	10.74	11.79		13.33	4 / 2	
reaction time	0.137	interval		1.04	1.02	1.00	1.01	1.00	1.00	1.02	1.03	1.05	1.54		3.06	3.01
wind	0.3 m/s	velocity	5.24	8.79	8.96	9.14	9.05	9.14	9.14	8.96	8.87	8.70	9.10	8.25	8.96	9.11
Crittenden, Freddie (USA) (1994)																
FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)										<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>						
date	22-Jul-18	time	2.50	3.54	4.58	5.62	6.66	7.70	8.72	9.82	10.84	11.92		13.33	2 / 3	
reaction time	0.137	interval		1.04	1.04	1.04	1.04	1.04	1.02	1.10	1.02	1.08	1.41		3.12	3.10
wind	0.2 m/s	velocity	5.49	8.79	8.79	8.79	8.79	8.79	8.96	8.31	8.96	8.46	9.94	8.25	8.79	8.85
Allen, Devon (USA) (1994)																
FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)										<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>						
date	30-Jun-19	time	2.56	3.60	4.62	5.64	6.66	7.68	8.75	9.76	10.82	11.86		13.33	3 / 5	
reaction time	0.145	interval		1.04	1.02	1.02	1.02	1.02	1.07	1.01	1.06	1.04	1.47		3.08	3.11
wind	0.3 m/s	velocity	5.36	8.79	8.96	8.96	8.96	8.96	8.54	9.05	8.62	8.79	9.54	8.25	8.90	8.82
Shubenkov, Sergey (ANA) (1990)																
FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)										<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>						
date	06-Sep-19	time	2.54	3.60	4.64	5.64	6.64	7.64	8.68	9.72	10.76	11.82		13.33	7 / 3	
reaction time	0.153	interval	7 steps	1.06	1.04	1.00	1.00	1.00	1.04	1.04	1.04	1.06	1.51		3.10	3.04
wind	0.0 m/s	velocity	5.40	8.62	8.79	9.14	9.14	9.14	8.79	8.79	8.79	8.62	9.28	8.25	8.85	9.02
Izumiya, Shunsuke (JPN) (2000)																
FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)										<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>						
date	29-Apr-21	time	2.57	3.65	4.66	5.69	6.70	7.74	8.79	9.83	10.88	11.93		13.33	3 / 2	
reaction time		interval	7 steps	1.08	1.01	1.03	1.01	1.04	1.05	1.04	1.05	1.05	1.40	PB	3.12	3.10
wind	1.7 m/s	velocity	5.34	8.46	9.05	8.87	9.05	8.79	8.70	8.79	8.70	8.70	10.01	8.25	8.79	8.85
Brown, Tai (USA) (2000)																
Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)										<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>						
date	26-Jun-21	time	2.62	3.65	4.67	5.69	6.70	7.69	8.71	9.74	10.78	11.86		13.33	2 / 4	
reaction time	0.173	interval		1.03	1.02	1.02	1.01	0.99	1.02	1.03	1.04	1.08	1.47	PB	3.07	3.02
wind	1.8 m/s	velocity	5.24	8.87	8.96	8.96	9.05	9.23	8.96	8.87	8.79	8.46	9.54	8.25	8.93	9.08
Mallett, Aaron (USA) (1994)																
Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)										<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>						
date	26-Jun-21	time	2.56	3.60	4.63	5.63	6.63	7.67	8.67	9.71	10.76	11.86		13.33	7 / 5	
reaction time	0.198	interval		1.04	1.03	1.00	1.00	1.04	1.00	1.04	1.05	1.10	1.47		3.07	3.04
wind	1.2 m/s	velocity	5.36	8.79	8.87	9.14	9.14	8.79	9.14	8.79	8.70	8.31	9.54	8.25	8.93	9.02
Roberts, Daniel (USA) (1998)																
Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)										<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>						
date	04-Aug-21	time	2.48	3.55	4.58	5.61	6.62	7.69	8.75	9.82	10.84	11.84		13.33	5 / 5	
reaction time	0.195	interval		1.07	1.03	1.03	1.01	1.07	1.06	1.07	1.02	1.00	1.49		3.13	3.14
wind	0.3 m/s	velocity	5.53	8.54	8.87	8.87	9.05	8.54	8.62	8.54	8.96	9.14	9.41	8.25	8.76	8.73
Zeller, Joshua (GBR) (2000)																
FINAL - 2022 World Athletics Championships (Eugene, OR)										<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>						
date	17-Jul-22	time	2.61	3.67	4.69	5.71	6.72	7.73	8.75	9.78	10.82	11.89		13.33	7 / 5	
reaction time	0.145	interval		1.06	1.02	1.02	1.01	1.01	1.02	1.03	1.04	1.07	1.44		3.10	3.04
wind	1.2 m/s	velocity	5.26	8.62	8.96	8.96	9.05	9.05	8.96	8.87	8.79	8.54	9.74	8.25	8.85	9.02
Kwaou-Mathey, Just (FRA) (1999)																
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)										<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>						
date	17-Aug-22	time	2.56	3.58	4.58	5.58	6.58	7.58	8.64	9.70	10.76	11.86		13.33	3 / 3	
reaction time	0.178	interval	7 steps	1.02	1.00	1.00	1.00	1.00	1.06	1.06	1.06	1.10	1.47		3.02	3.06
wind	-0.2 m/s	velocity	5.36	8.96	9.14	9.14	9.14	9.14	8.62	8.62	8.62	8.31	9.54	8.25	9.08	8.96

Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)															Henson (2023) - Athlete First: 2023 year end hurdle report			
date	04-Jun-23	time	2.60	3.65	4.70	5.72	6.74	7.76	8.78	9.80	10.86	11.95		13.33	4 / 4			
reaction time	0.145	interval		1.05	1.05	1.02	1.02	1.02	1.02	1.02	1.06	1.09	1.38			3.12	3.06	3.17
wind	0.4 m/s	velocity	5.28	8.70	8.70	8.96	8.96	8.96	8.96	8.96	8.62	8.39	10.16	8.25		8.79	8.96	8.65
Llopis, Enrique (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															Henson (2023) - Athlete First: 2023 year end hurdle report			
date	20-Aug-23	time	2.56	3.60	4.60	5.62	6.63	7.68	8.70	9.73	10.80	11.88		13.33	2 / 2			
reaction time	0.136	interval	7 steps	1.04	1.00	1.02	1.01	1.05	1.02	1.03	1.07	1.08	1.45			3.06	3.08	3.18
wind	-0.3 m/s	velocity	5.36	8.79	9.14	8.96	9.05	8.70	8.96	8.87	8.54	8.46	9.67	8.25		8.96	8.90	8.62
Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 World Athletics Championships (Budapest, HUN)															Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season			
date	20-Aug-23	time	2.57	3.62	4.64	5.68	6.69	7.75	8.80	9.86	10.90	11.96		13.33	6 / 2			
reaction time	0.146	interval	7 steps	1.05	1.02	1.04	1.01	1.06	1.05	1.06	1.04	1.06	1.37			3.11	3.12	3.16
wind	0.5 m/s	velocity	5.34	8.70	8.96	8.79	9.05	8.62	8.70	8.62	8.79	8.62	10.23	8.25		8.82	8.79	8.68
Trajkovic, Milan (CYP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															Henson (2023) - Athlete First: 2023 year end hurdle report			
date	20-Aug-23	time	2.50	3.55	4.58	5.60	6.62	7.65	8.67	9.70	10.78	11.85		13.33	4 / 2			
reaction time	0.164	interval	7 steps	1.05	1.03	1.02	1.02	1.03	1.02	1.03	1.08	1.07	1.48			3.10	3.07	3.18
wind	-0.6 m/s	velocity	5.49	8.70	8.87	8.96	8.96	8.87	8.96	8.87	8.46	8.54	9.47	8.25		8.85	8.93	8.62
Trajkovic, Milan (CYP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															Henson (2023) - Athlete First: 2023 year end hurdle report			
date	21-Aug-23	time	2.50	3.56	4.58	5.56	6.58	7.60	8.64	9.68	10.78	11.85		13.33	4 / 5			
reaction time	0.137	interval	7 steps	1.06	1.02	0.98	1.02	1.02	1.04	1.04	1.10	1.07	1.48			3.06	3.08	3.21
wind	-0.2 m/s	velocity	5.49	8.62	8.96	9.33	8.96	8.96	8.79	8.79	8.31	8.54	9.47	8.25		8.96	8.90	8.54
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)															Omega Timing (2024) - diamond league race analysis			
date	20-Apr-24	time	2.50	3.57	4.59	5.61	6.61	7.63	8.64	9.66	10.70	11.75		13.33	5 / 6			
reaction time	0.157	interval	7 steps	1.07	1.02	1.02	1.00	1.02	1.01	1.02	1.04	1.05	1.58			3.11	3.03	3.11
wind	-0.3 m/s	velocity	5.49	8.54	8.96	8.96	9.14	8.96	9.05	8.96	8.79	8.70	8.87	8.25		8.82	9.05	8.82
Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Prefontaine Classic (Eugene, OR)															Omega Timing (2024) - diamond league race analysis			
date	25-May-24	time	2.36	3.41	4.41	5.43	6.45	7.48	8.52	9.56	10.62	11.72		13.33	7 / 7			
reaction time	0.131	interval	7 steps	1.05	1.00	1.02	1.02	1.03	1.04	1.04	1.06	1.10	1.61			3.07	3.09	3.20
wind	-0.1 m/s	velocity	5.81	8.70	9.14	8.96	8.96	8.87	8.79	8.79	8.62	8.31	8.71	8.25		8.93	8.87	8.57
Snow, Malachi (USA) ()			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)															Henson (2024) - Athlete First: 2024 year end hurdle report			
date	07-Jun-24	time	2.57	3.60	4.67	5.71	6.74	7.77	8.81	9.88	10.91	11.98		13.33	8 / 4			
reaction time		interval	7 steps	1.03	1.07	1.04	1.03	1.03	1.04	1.07	1.03	1.07	1.35	PB		3.14	3.10	3.17
wind	0.1 m/s	velocity	5.34	8.87	8.54	8.79	8.87	8.87	8.79	8.54	8.87	8.54	10.39	8.25		8.73	8.85	8.65
Hunter, Myles (USA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															Henson (2024) - Athlete First: 2024 year end hurdle report			
date	24-Jun-24	time	2.56	3.65	4.70	5.72	6.73	7.75	8.78	9.80	10.83	11.88		13.33	6 / 2			
reaction time		interval		1.09	1.05	1.02	1.01	1.02	1.03	1.02	1.03	1.05	1.45	PB		3.16	3.06	3.10
wind	0.8 m/s	velocity	5.36	8.39	8.70	8.96	9.05	8.96	8.87	8.96	8.87	8.70	9.67	8.25		8.68	8.96	8.85
Luff, Darius (USA) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															Henson (2024) - Athlete First: 2024 year end hurdle report			
date	24-Jun-24	time	2.56	3.63	4.66	5.64	6.65	7.68	8.72	9.78	10.83	11.90		13.33	1 / 3			
reaction time		interval		1.07	1.03	0.98	1.01	1.03	1.04	1.06	1.05	1.07	1.43			3.08	3.08	3.18
wind	0.8 m/s	velocity	5.36	8.54	8.87	9.33	9.05	8.87	8.79	8.62	8.70	8.54	9.80	8.25		8.90	8.90	8.62
Tinch, Cordell (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															Henson (2024) - Athlete First: 2024 year end hurdle report			
date	24-Jun-24	time	2.54	3.56	4.57	5.58	6.60	7.60	8.62	9.63	10.67	11.75		13.33	6 / 2			
reaction time		interval	7 steps	1.02	1.01	1.01	1.02	1.00	1.02	1.01	1.04	1.08	1.58			3.04	3.04	3.13
wind	-0.3 m/s	velocity	5.40	8.96	9.05	9.05	8.96	9.14	8.96	9.05	8.79	8.46	8.87	8.25		9.02	9.02	8.76
Rollins, Louis (USA) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															Henson (2024) - Athlete First: 2024 year end hurdle report			
date	27-Jun-24	time	2.50	3.55	4.60	5.64	6.67	7.71	8.75	9.81	10.85	11.94		13.33	3 / 4			
reaction time		interval		1.05	1.05	1.04	1.03	1.04	1.04	1.06	1.04	1.09	1.39			3.14	3.11	3.19
wind	0.3 m/s	velocity	5.49	8.70	8.70	8.79	8.87	8.79	8.79	8.62	8.79	8.39	10.09	8.25		8.73	8.82	8.60
Tinch, Cordell (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Heat 1 - 2024 Meeting de Paris (Paris, FRA)

date	07-Jul-24	time	2.46	3.53	4.54	5.54	6.54	7.56	8.58	9.62	10.68	11.75	
reaction time	0.174	interval	7 steps	1.07	1.01	1.00	1.00	1.02	1.02	1.04	1.06	1.07	1.58
wind	0.1 m/s	velocity	5.58	8.54	9.05	9.14	9.14	8.96	8.96	8.79	8.62	8.54	8.87

Omega Timing (2024) - diamond league race analysis

13.33 5 / 5

3.08 3.04 3.17
8.90 9.02 8.65**Zhoya, Sasha (FRA) (2002)**

H1

H2

H3

H4

H5

H6

H7

H8

H9

H10

Run-In

Official Time

Lane / Place

H1-H4

H4-H7

H7-H10

Heat 2 - 2024 Meeting de Paris (Paris, FRA)

date	07-Jul-24	time	2.37	3.46	4.49	5.51	6.55	7.57	8.60	9.65	10.71	11.75	
reaction time	0.135	interval	7 steps	1.09	1.03	1.02	1.04	1.02	1.03	1.05	1.06	1.04	1.58
wind	0.4 m/s	velocity	5.79	8.39	8.87	8.96	8.79	8.96	8.87	8.70	8.62	8.79	8.87

Omega Timing (2024) - diamond league race analysis

13.33 6 / 4

3.14 3.09 3.15
8.73 8.87 8.70**Simonelli, Lorenzo Ndele (ITA) (2002)**

H1

H2

H3

H4

H5

H6

H7

H8

H9

H10

Run-In

Official Time

Lane / Place

H1-H4

H4-H7

H7-H10

Heat 2 - 2024 Meeting de Paris (Paris, FRA)

date	07-Jul-24	time	2.34	3.40	4.42	5.44	6.46	7.49	8.53	9.58	10.64	11.72	
reaction time	0.140	interval	7 steps	1.06	1.02	1.02	1.03	1.04	1.05	1.06	1.08	1.61	
wind	0.4 m/s	velocity	5.86	8.62	8.96	8.96	8.96	8.87	8.79	8.70	8.62	8.46	8.71

Omega Timing (2024) - diamond league race analysis

13.33 4 / 5

3.10 3.09 3.19
8.85 8.87 8.60**Bennett, Orlando (JAM) (1999)**

H1

H2

H3

H4

H5

H6

H7

H8

H9

H10

Run-In

Official Time

Lane / Place

H1-H4

H4-H7

H7-H10

FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)

date	30-Aug-24	time	2.40	3.49	4.53	5.54	6.57	7.58	8.60	9.64	10.69	11.75	
reaction time	0.166	interval		1.09	1.04	1.01	1.03	1.01	1.02	1.04	1.05	1.06	1.58
wind	0.4 m/s	velocity	5.72	8.39	8.79	9.05	8.87	9.05	8.96	8.79	8.70	8.62	8.87

Omega Timing (2024) - diamond league race analysis

13.33 5 / 5

3.14 3.06 3.15
8.73 8.96 8.70**Izumiya, Shunsuke (JPN) (2000)**

H1

H2

H3

H4

H5

H6

H7

H8

H9

H10

Run-In

Official Time

Lane / Place

H1-H4

H4-H7

H7-H10

FINAL - 2024 Memorial van damme (Brussels, BEL)

date	13-Sep-24	time	2.39	3.45	4.49	5.51	6.54	7.58	8.62	9.66	10.71	11.78	
reaction time	0.145	interval	7 steps	1.06	1.04	1.02	1.03	1.04	1.04	1.04	1.05	1.07	1.55
wind	0.4 m/s	velocity	5.74	8.62	8.79	8.96	8.87	8.79	8.79	8.79	8.70	8.54	9.05

Omega Timing (2024) - diamond league race analysis

13.33 2 / 6

3.12 3.11 3.16
8.79 8.82 8.68**Drut, Guy (FRA) (1950)**

H1

H2

H3

H4

H5

H6

H7

H8

H9

H10

Run-In

Official Time

Lane / Place

H1-H4

H4-H7

H7-H10

FINAL - 1972 Olympic Games (Munich, FRG)

date	07-Sep-72	time	2.5	3.6	4.6	5.6	6.6	7.7	8.7	9.7	10.7	11.8	
reaction time		interval		1.10	1.00	1.00	1.00	1.10	1.00	1.00	1.00	1.10	1.54
wind	0.3 m/s	velocity	5.49	8.31	9.14	9.14	9.14	8.31	9.14	9.14	9.14	8.31	9.10

Kay (1972) - BAAB Munich Technical Report

13.34 8 / 2

3.10 3.10 3.10
8.85 8.85 8.85**Ridgeon, Jon (GBR) (1967)**

H1

H2

H3

H4

H5

H6

H7

H8

H9

H10

Run-In

Official Time

Lane / Place

H1-H4

H4-H7

H7-H10

Semi-Final 1 - 1987 IAAF World Championships (Rome, ITA)

Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics

date	01-Sep-87	time	2.60	3.65	4.72	5.73	6.75	7.78	8.85	9.89	10.93	11.98	
reaction time		interval		1.05	1.07	1.01	1.02	1.03	1.07	1.04	1.04	1.05	1.36
wind	-0.5 m/s	velocity	5.28	8.70	8.54	9.05	8.96	8.87	8.54	8.79	8.79	8.70	10.31

13.34

3 / 1

3.13 3.12 3.13
8.76 8.79 8.76**Kingdom, Roger (USA) (1962)**

H1

H2

H3

H4

H5

H6

H7

H8

H9

H10

Run-In

Official Time

Lane / Place

H1-H4

H4-H7

H7-H10

FINAL - 1996 USA Olympic Trials (Atlanta, GA)

McNichols (2000) - Hurdle technique study through video analysis

date	23-Jun-96	time	2.45	3.50	4.53	5.52	6.55	7.54	8.55	9.62	10.65	11.77	
reaction time		interval		1.05	1.03	0.99	1.03	0.99	1.01	1.07	1.03	1.12	1.57
wind	0.9 m/s	velocity	5.60	8.70	8.87	9.23	8.87	9.23	9.05	8.54	8.87	8.16	8.93

13.34

1 / 5

3.07 3.03 3.22
8.93 9.05 8.52**Olijar, Stanislav (LAT) (1979)**

H1

H2

H3

H4

H5

H6

H7

H8

H9

H10

Run-In

Official Time

Lane / Place

H1-H4

H4-H7

H7-H10

Semi-Final 1 - 2002 European Championships (Munich, GER)Graubner (2009) - <http://www.fgs.uni-halle.de>

date	10-Aug-02	time	2.60	3.63	4.65	5.67	6.68	7.71	8.75	9.79	10.85	11.94	
reaction time	0.143	interval		1.03	1.02	1.02	1.01	1.03	1.04	1.04	1.06	1.09	1.40
wind	-0.5 m/s	velocity	5.28	8.87	8.96	8.96	9.05	8.87	8.79	8.79	8.62	8.39	10.01

13.34

/ 1

3.07 3.08 3.19
8.93 8.90 8.60**Kiss, Dániel (HUN) (1982)**

H1

H2

H3

H4

H5

H6

H7

H8

H9

H10

Run-In

Official Time

Lane / Place

H1-H4

H4-H7

H7-H10

Heat 6 - 2009 IAAF World Championships (Berlin, GER)

Graubner (2009) - biomechanical analyses at the 12th IAAF world championships

date	19-Aug-09	time	2.70	3.77	4.78	5.79	6.79	7.79	8.81	9.83	10.87	11.97	
reaction time	0.158	interval		1.07	1.01	1.01	1.00	1.00	1.02	1.02	1.04	1.10	1.37
wind	0.1 m/s	velocity	5.08	8.54	9.05	9.05	9.14	9.14	8.96	8.96	8.79	8.31	10.23

13.34

7 / 1

3.09 3.02 3.16
8.87 9.08 8.68**Richardson, Jason (USA) (1986)**

H1

H2

H3

H4

H5

H6

H7

H8

H9

H10

Run-In

Official Time

Lane / Place

H1-H4

H4-H7

H7-H10

FINAL - 2012 Colorful Daegu Meeting (Daegu, KOR) (TV Analysis)

Henson (2021) - Athlete First: 2012 Aries Merritt world record season

date	16-May-12	time	2.65	3.70	4.70	5.72	6.74	7.77	8.77	9.79
reaction time	0.234	interval	7 steps	1.05	1.00	1.02	1.02	1.03	1.00	1.02
wind	-0.4 m/s	velocity	5.18	8.70	9.14	8.96	8.96	8.87	9.14	8.96

date	08-Aug-12	time	2.60	3.68	4.72	5.73	6.74	7.78	8.80	9.84	10.89	11.96	13.34	9 / 3			
reaction time	0.158	interval		1.08	1.04	1.01	1.01	1.04	1.02	1.04	1.05	1.07	1.38	PB	3.13	3.07	3.16
wind	0.1 m/s	velocity	5.28	8.46	8.79	9.05	9.05	8.79	8.96	8.79	8.70	8.54	10.16	8.25	8.76	8.93	8.68
Wilson, Ryan (USA) (1980)																	
FINAL - 2012 AVIVA Grand Prix (Birmingham, GBR) (TV Analysis)																	
date	26-Aug-12	time	2.54	3.60	4.63	5.64	6.64	7.66	8.70	9.73	10.77	11.83	13.34	1 / 4			
reaction time	0.156	interval	7 steps	1.06	1.03	1.01	1.00	1.02	1.04	1.03	1.04	1.06	1.51		3.10	3.06	3.13
wind	-0.9 m/s	velocity	5.40	8.62	8.87	9.05	9.14	8.96	8.79	8.87	8.79	8.62	9.28	8.25	8.85	8.96	8.76
Darien, Garfield (FRA) (1987)																	
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)																	
date	28-Aug-15	time	2.52	3.58	4.64	5.66	6.68	7.68	8.72	9.76	10.80	11.86	13.34	3 / 8			
reaction time	0.178	interval	7 steps	1.06	1.06	1.02	1.02	1.00	1.04	1.04	1.04	1.06	1.48		3.14	3.06	3.14
wind	0.2 m/s	velocity	5.44	8.62	8.62	8.96	8.96	9.14	8.79	8.79	8.79	8.62	9.47	8.25	8.73	8.96	8.73
Xie Wenjun (CHN) (1990)																	
FINAL - 2016 Shanghai Golden Grand Prix (Shanghai, CHN)																	
date	14-May-16	time	2.52	3.58	4.62	5.64	6.66	7.68	8.70	9.74	10.78	11.84	13.34	8 / 3			
reaction time	0.155	interval		1.06	1.04	1.02	1.02	1.02	1.02	1.04	1.04	1.06	1.50		3.12	3.06	3.14
wind	1.2 m/s	velocity	5.44	8.62	8.79	8.96	8.96	8.96	8.96	8.79	8.79	8.62	9.35	8.25	8.79	8.96	8.73
Bascou, Dimitri (FRA) (1987)																	
FINAL - 2016 Shanghai Golden Grand Prix (Shanghai, CHN)																	
date	14-May-16	time	2.48	3.52	4.56	5.58	6.62	7.64	8.68	9.72	10.76	11.86	13.34	2 / 4			
reaction time	0.141	interval	7 steps	1.04	1.04	1.02	1.04	1.02	1.04	1.04	1.04	1.10	1.48		3.10	3.10	3.18
wind	1.2 m/s	velocity	5.53	8.79	8.79	8.96	8.79	8.96	8.79	8.79	8.79	8.31	9.47	8.25	8.85	8.85	8.62
Baji, Balázs (HUN) (1989)																	
FINAL - 2016 Athletissima (Lausanne, SUI) (TV Analysis)																	
date	25-Aug-16	time	2.52	3.56	4.60	5.60	6.60	7.62	8.64	9.66	10.72	11.78	13.34	1 / 5			
reaction time	0.141	interval	7 steps	1.04	1.04	1.00	1.00	1.02	1.02	1.02	1.06	1.06	1.56		3.08	3.04	3.14
wind	0.5 m/s	velocity	5.44	8.79	8.79	9.14	9.14	8.96	8.96	8.96	8.62	8.62	8.99	8.25	8.90	9.02	8.73
Trajkovic, Milan (CYP) (1992)																	
FINAL - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)																	
date	28-Jun-17	time	2.48	3.52	4.56	5.58	6.62	7.66	8.66	9.70	10.78	11.82	13.34	8 / 3			
reaction time	0.164	interval	7 steps	1.04	1.04	1.02	1.04	1.04	1.00	1.04	1.08	1.04	1.52		3.10	3.08	3.16
wind	0.6 m/s	velocity	5.53	8.79	8.79	8.96	8.79	8.79	9.14	8.79	8.46	8.79	9.22	8.25	8.85	8.90	8.68
Eaton, Jarret (USA) (1989)																	
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)																	
date	09-Jul-17	time	2.44	3.48	4.48	5.48	6.48	7.52	8.56	9.62	10.72	11.80	13.34	9 / 5			
reaction time	0.125	interval	7 steps	1.04	1.00	1.00	1.00	1.04	1.04	1.06	1.10	1.08	1.54		3.04	3.08	3.24
wind	0.0 m/s	velocity	5.62	8.79	9.14	9.14	9.14	8.79	8.79	8.62	8.31	8.46	9.10	8.25	9.02	8.90	8.46
Xie Wenjun (CHN) (1990)																	
FINAL - 2018 Asian Games (Jakarta, INA)																	
date	28-Aug-18	time	2.58	3.63	4.66	5.69	6.71	7.73	8.76	9.81	10.85	11.93	13.34	6 / 1			
reaction time	0.142	interval	7 steps	1.05	1.03	1.03	1.02	1.02	1.03	1.05	1.04	1.08	1.41		3.11	3.07	3.17
wind	0.0 m/s	velocity	5.32	8.70	8.87	8.87	8.96	8.96	8.87	8.70	8.79	8.46	9.94	8.25	8.82	8.93	8.65
Martinot Lagarde, Pascal (FRA) (199)																	
FINAL - 2019 Athletissima (Lausanne, SUI) (TV Analysis)																	
date	05-Jul-19	time	2.56	3.60	4.60	5.60	6.62	7.64	8.66	9.68	10.76	11.84	13.34	2 / 6			
reaction time	0.157	interval	7 steps	1.04	1.00	1.00	1.02	1.02	1.02	1.08	1.08	1.08	1.50		3.04	3.06	3.18
wind	1.0 m/s	velocity	5.36	8.79	9.14	9.14	8.96	8.96	8.96	8.46	8.46	8.46	9.35	8.25	9.02	8.96	8.62
Belocian, Wilhem (FRA) (1995)																	
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)																	
date	19-Aug-20	time	2.47	3.50	4.54	5.57	6.57	7.60	8.64	9.68	10.74	11.84	13.34	6 / 4			
reaction time	0.134	interval		1.03	1.04	1.03	1.00	1.03	1.04	1.04	1.06	1.10	1.50		3.10	3.07	3.20
wind	0.3 m/s	velocity	5.55	8.87	8.79	8.87	9.14	8.87	8.79	8.79	8.62	8.31	9.35	8.25	8.85	8.93	8.57
Takayama, Shunya (JPN) (1994)																	
FINAL - 2020 Athlete Night Games (Fukui, JPN)																	
date	29-Aug-20	time	2.57	3.60	4.62	5.63	6.64	7.68	8.72	9.75	10.82	11.90	13.34	3 / 2			
reaction time		interval		1.03	1.02	1.01	1.01	1.04	1.04	1.03	1.07	1.08	1.44		3.06	3.09	3.18
wind	1.4 m/s	velocity	5.34	8.87	8.96	9.05	9.05	8.79	8.79	8.87	8.54	8.46	9.74	8.25	8.96	8.87	8.62
Belocian, Wilhem (FRA) (1995)																	
FINAL - 2021 Fanny Blankers Koen Games (Hengelo, NED) (TV Analysis)																	
date	06-Jun-21	time	2.47	3.54	4.54	5.57	6.60	7.62	8.64	9.67	10.74	11.84	13.34	6 / 3			

reaction time		interval	1.07	1.00	1.03	1.03	1.02	1.02	1.03	1.07	1.10	1.50			3.10	3.07	3.20	
wind	1.7 m/s	velocity	5.55	8.54	9.14	8.87	8.87	8.96	8.96	8.87	8.54	8.31	9.35	8.25	8.85	8.93	8.57	
Dickson, Michael (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report					
date	26-Jun-21	time	2.50	3.55	4.60	5.62	6.64	7.67	8.71	9.74	10.78	11.85		13.34	2 / 6			
reaction time	0.201	interval	7 steps	1.05	1.05	1.02	1.02	1.03	1.04	1.03	1.04	1.07	1.49			3.12	3.09	3.14
wind	0.4 m/s	velocity	5.49	8.70	8.70	8.96	8.96	8.87	8.79	8.87	8.79	8.54	9.41	8.25		8.79	8.87	8.73
Muratake, Rachid (JPN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)													Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season					
date	08-May-22	time	2.60	3.66	4.69	5.71	6.73	7.75	8.80	9.84	10.89	11.95		13.34	5 / 1			
reaction time	0.159	interval	7 steps	1.06	1.03	1.02	1.02	1.02	1.05	1.04	1.05	1.06	1.39			3.11	3.09	3.15
wind	0.1 m/s	velocity	5.28	8.62	8.87	8.96	8.96	8.96	8.70	8.79	8.70	8.62	10.09	8.25		8.82	8.87	8.70
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 Meeting de Paris (Paris, FRA)													Omega Timing (2023) - diamond league race analysis					
date	09-Jun-23	time	2.36	3.43	4.46	5.47	6.48	7.50	8.54	9.59	10.66	11.73		13.34	7 / 4			
reaction time	0.136	interval		1.07	1.03	1.01	1.01	1.02	1.04	1.05	1.07	1.07	1.61			3.11	3.07	3.19
wind	-0.6 m/s	velocity	5.81	8.54	8.87	9.05	9.05	8.96	8.79	8.70	8.54	8.54	8.71	8.25		8.82	8.93	8.60
Bennett, Orlando (JAM) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report					
date	24-Jun-23	time	2.58	3.64	4.67	5.70	6.72	7.74	8.76	9.79	10.84	11.91		13.34	2 / 7			
reaction time	0.150	interval		1.06	1.03	1.03	1.02	1.02	1.02	1.03	1.05	1.07	1.43			3.12	3.06	3.15
wind	1.6 m/s	velocity	5.32	8.62	8.87	8.87	8.96	8.96	8.96	8.87	8.70	8.54	9.80	8.25		8.79	8.96	8.70
Trajkovic, Milan (CYP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)													Omega Timing (2023) - diamond league race analysis					
date	16-Jul-23	time	2.42	3.47	4.50	5.52	6.53	7.55	8.59	9.63	10.68	11.76		13.34	9 / 3			
reaction time	0.160	interval	7 steps	1.05	1.03	1.02	1.01	1.02	1.04	1.04	1.05	1.08	1.58			3.10	3.07	3.17
wind	-0.2 m/s	velocity	5.67	8.70	8.87	8.96	9.05	8.96	8.79	8.79	8.70	8.46	8.87	8.25		8.85	8.93	8.65
Bennett, Orlando (JAM) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report					
date	21-Aug-23	time	2.54	3.62	4.65	5.67	6.70	7.70	8.73	9.78	10.83	11.90		13.34	9 / 4			
reaction time	0.144	interval		1.08	1.03	1.02	1.03	1.00	1.03	1.05	1.05	1.07	1.44			3.13	3.06	3.17
wind	-0.2 m/s	velocity	5.40	8.46	8.87	8.96	8.87	9.14	8.87	8.70	8.70	8.54	9.74	8.25		8.76	8.96	8.65
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)													Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season					
date	21-Aug-23	time	2.54	3.56	4.60	5.60	6.63	7.65	8.70	9.75	10.82	11.89		13.34	7 / 5			
reaction time	0.135	interval		1.02	1.04	1.00	1.03	1.02	1.05	1.05	1.07	1.07	1.45			3.06	3.10	3.19
wind	-0.1 m/s	velocity	5.40	8.96	8.79	9.14	8.87	8.96	8.70	8.70	8.54	8.54	9.67	8.25		8.96	8.85	8.60
Wilson, De'vion (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report					
date	24-Jun-24	time	2.54	3.63	4.66	5.67	6.70	7.73	8.73	9.78	10.83	11.93		13.34	6 / 3			
reaction time		interval	7 steps	1.09	1.03	1.01	1.03	1.03	1.00	1.05	1.05	1.10	1.41			3.13	3.06	3.20
wind	1.8 m/s	velocity	5.40	8.39	8.87	9.05	8.87	8.87	9.14	8.70	8.70	8.31	9.94	8.25		8.76	8.96	8.57
Mendy, Louis François (SEN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)					
date	07-Aug-24	time	2.44	3.52	4.57	5.58	6.60	7.62	8.65	9.67	10.72	11.77		13.34	4 / 3			
reaction time	0.191	interval		1.08	1.05	1.01	1.02	1.02	1.03	1.02	1.05	1.05	1.57			3.14	3.07	3.12
wind	-0.1 m/s	velocity	5.62	8.46	8.70	9.05	8.96	8.96	8.87	8.96	8.70	8.70	8.93	8.25		8.73	8.93	8.79
Zhoya, Sasha (FRA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)					
date	07-Aug-24	time	2.40	3.48	4.52	5.54	6.55	7.55	8.56	9.60	10.67	11.76		13.34	8 / 3			
reaction time	0.160	interval	7 steps	1.08	1.04	1.02	1.01	1.00	1.01	1.04	1.07	1.09	1.58			3.14	3.02	3.20
wind	-0.1 m/s	velocity	5.72	8.46	8.79	8.96	9.05	9.14	9.05	8.79	8.54	8.39	8.87	8.25		8.73	9.08	8.57
Bennett, Orlando (JAM) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Olympic Games (Paris, FRA)													Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season					
date	08-Aug-24	time	2.55	3.61	4.62	5.63	6.65	7.67	8.68	9.71	10.77	11.86		13.34	7 / 7			
reaction time	0.142	interval		1.06	1.01	1.01	1.02	1.02	1.01	1.03	1.06	1.09	1.48			3.08	3.05	3.18
wind	-0.1 m/s	velocity	5.38	8.62	9.05	9.05	8.96	8.96	9.05	8.87	8.62	8.39	9.47	8.25		8.90	8.99	8.62
Tinch, Cordell (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Athletissima (Lausanne, SUI)													Omega Timing (2024) - diamond league race analysis					
date	22-Aug-24	time	2.38	3.43	4.44	5.44	6.45	7.47	8.52	9.57	10.64	11.71		13.34	1 / 6			
reaction time	0.153	interval	7 steps	1.05	1.01	1.00	1.01	1.02	1.05	1.05	1.07	1.07	1.63			3.06	3.08	3.19

wind	-0.1 m/s	velocity	5.76	8.70	9.05	9.14	9.05	8.96	8.70	8.70	8.54	8.54	8.60	8.25		8.96	8.90	8.60	
Simonelli, Lorenzo Ndele (ITA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)															Omega Timing (2024) - diamond league race analysis				
date	30-Aug-24	time	2.38	3.44	4.48	5.50	6.52	7.53	8.56	9.61	10.67	11.76		13.34	4 / 6		3.12	3.06	3.20
reaction time	0.164	interval	7 steps	1.06	1.04	1.02	1.02	1.01	1.03	1.05	1.06	1.09	1.58				3.12	3.06	3.20
wind	0.4 m/s	velocity	5.76	8.62	8.79	8.96	8.96	9.05	8.87	8.70	8.62	8.39	8.87	8.25			8.79	8.96	8.57
Tinch, Cordell (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)															Omega Timing (2024) - diamond league race analysis				
date	30-Aug-24	time	2.42	3.47	4.50	5.51	6.53	7.54	8.57	9.61	10.66	11.74		13.34	3 / 7		3.09	3.06	3.17
reaction time	0.171	interval	7 steps	1.05	1.03	1.01	1.02	1.01	1.03	1.04	1.05	1.08	1.60				3.09	3.06	3.17
wind	0.4 m/s	velocity	5.67	8.70	8.87	9.05	8.96	9.05	8.87	8.79	8.70	8.46	8.76	8.25			8.87	8.96	8.65
Coghlan, Peter (IRL) (1975)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)															Sanchez (1999) - Sevilla '99: análisis de la carreras con villas				
date	24-Aug-99	time	2.59	3.62	4.67	5.67	6.70	7.72	8.72	9.78	10.86	11.97		13.35	1 / 5		3.08	3.05	3.25
reaction time	0.161	interval		1.03	1.05	1.00	1.03	1.02	1.00	1.06	1.08	1.11	1.38				3.08	3.05	3.25
wind	0.0 m/s	velocity	5.30	8.87	8.70	9.14	8.87	8.96	9.14	8.62	8.46	8.23	10.16	8.24			8.90	8.99	8.44
Hicks, Antwon (USA) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2005 USATF National Championships (Carson, CA)															USATF Women's Sprint Development (2005)				
date	24-Jun-05	time	2.61	3.67	4.71	5.71	6.76	7.78	8.83	9.84	10.89	11.95		13.35	1 / 6		3.10	3.12	3.12
reaction time		interval		1.06	1.04	1.00	1.05	1.02	1.05	1.01	1.05	1.06	1.40	PB			3.10	3.12	3.12
wind	0.2 m/s	velocity	5.26	8.62	8.79	9.14	8.70	8.96	8.70	9.05	8.70	8.62	10.01	8.24			8.85	8.79	8.79
Doucouré, Ladj (FRA) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 European Cup (Munich, GER)															Graubner (2007) - http://www.fgs.uni-halle.de				
date	24-Jun-07	time	2.57	3.61	4.63	5.63	6.64	7.65	8.67	9.70	10.77	11.87		13.35	1 / 1		3.06	3.04	3.20
reaction time	0.152	interval		1.04	1.02	1.00	1.01	1.01	1.02	1.03	1.07	1.10	1.48				3.06	3.04	3.20
wind	0.4 m/s	velocity	5.34	8.79	8.96	9.14	9.05	9.05	8.96	8.87	8.54	8.31	9.47	8.24			8.96	9.02	8.57
Arnold, Dominique (USA) (1973)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)															USATF Men's Hurdle Development (2007)				
date	24-Jun-07	time	2.62	3.67	4.69	5.71	6.72	7.72	8.74	9.79	10.81	11.88		13.35	3 / 2		3.09	3.03	3.14
reaction time		interval		1.05	1.02	1.02	1.01	1.00	1.02	1.05	1.02	1.07	1.47				3.09	3.03	3.14
wind	-0.6 m/s	velocity	5.24	8.70	8.96	8.96	9.05	9.14	8.96	8.70	8.96	8.54	9.54	8.24			8.87	9.05	8.73
Moore, Anwar (USA) (1979)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2007 USATF National Championships (Indianapolis, IN)															USATF Men's Hurdle Development (2007)				
date	24-Jun-07	time	2.62	3.67	4.69	5.72	6.77	7.81	8.86	9.88	10.92	11.98		13.35	5 / 4		3.10	3.14	3.12
reaction time		interval		1.05	1.02	1.03	1.05	1.04	1.05	1.02	1.04	1.06	1.37				3.10	3.14	3.12
wind	-0.9 m/s	velocity	5.24	8.70	8.96	8.87	8.70	8.79	8.70	8.96	8.79	8.62	10.23	8.24			8.85	8.73	8.79
Brathwaite, Ryan (BAR) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2009 IAAF World Championships (Berlin, GER)															Graubner (2009) - biomechanical analyses at the 12th IAAF world championships				
date	19-Aug-09	time	2.57	3.62	4.63	5.64	6.65	7.67	8.71	9.80	10.85	11.91		13.35	2 / 1		3.07	3.07	3.20
reaction time	0.149	interval		1.05	1.01	1.01	1.01	1.02	1.04	1.09	1.05	1.06	1.44				3.07	3.07	3.20
wind	0.5 m/s	velocity	5.34	8.70	9.05	9.05	9.05	8.96	8.79	8.39	8.70	8.62	9.74	8.24			8.93	8.93	8.57
Bascou, Dimitri (FRA) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2014 European Championships (Zurich, SUI)															Incalza (2014) - https://www.youtube.com/watch?v=nliXgBWbl_k&list=UU7691fXeyNFIMROfkJ-WWUg				
date	13-Aug-14	time	2.58	3.61	4.64	5.68	6.70	7.73	8.77	9.81	10.86	11.92		13.35	8 / 1		3.10	3.09	3.15
reaction time	0.148	interval		1.03	1.03	1.04	1.02	1.03	1.04	1.04	1.05	1.06	1.43				3.10	3.09	3.15
wind	0.4 m/s	velocity	5.32	8.87	8.87	8.79	8.96	8.87	8.79	8.79	8.70	8.62	9.80	8.24			8.85	8.87	8.70
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)															Henson (2020) - Athlete First: 2017 year end hurdle report				
date	13-May-17	time	2.54	3.58	4.58	5.60	6.62	7.62	8.66	9.70	10.76	11.82		13.35	3 / 4		3.06	3.06	3.16
reaction time	0.143	interval	7 steps	1.04	1.00	1.02	1.02	1.00	1.04	1.04	1.06	1.06	1.53				3.06	3.06	3.16
wind	0.5 m/s	velocity	5.40	8.79	9.14	8.96	8.96	9.14	8.79	8.79	8.62	8.62	9.16	8.24			8.96	8.96	8.68
Shubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)															Henson (2020) - Athlete First: 2017 year end hurdle report				
date	13-May-17	time	2.56	3.64	4.66	5.70	6.70	7.70	8.76	9.80	10.86	11.92		13.35	4 / 5		3.14	3.06	3.16
reaction time	0.153	interval	7 steps	1.08	1.02	1.04	1.00	1.00	1.06	1.04	1.06	1.06	1.43				3.14	3.06	3.16
wind	0.5 m/s	velocity	5.36	8.46	8.96	8.79	9.14	9.14	8.62	8.79	8.62	8.62	9.80	8.24			8.73	8.96	8.68
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)															Henson (2020) - Athlete First: 2018 year end hurdle report				
date	18-Aug-18	time	2.42	3.46	4.48	5.48	6.50	7.54	8.58	9.62	10.70	11.78		13.35	5 / 5		3.06	3.10	3.20
reaction time	0.128	interval	7 steps	1.04	1.02	1.00	1.02	1.04	1.04	1.04	1.08	1.08	1.57				3.06	3.10	3.20
wind	1.3 m/s	velocity	5.67	8.79	8.96	9.14	8.96	8.79	8.79	8.79	8.46	8.46	8.93	8.24			8.96	8.85	8.57

Parchment, Hansle (JAM) (1990)																
FINAL	- 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)															
date	31-Aug-18	time	2.56	3.62	4.66	5.66	6.70	7.72	8.74	9.78	10.82	11.86		13.35	7 / 3	
reaction time	0.152	interval	7 steps	1.06	1.04	1.00	1.04	1.02	1.02	1.04	1.04	1.04	1.49			3.10 3.08 3.12
wind	-0.1 m/s	velocity	5.36	8.62	8.79	9.14	8.79	8.96	8.79	8.79	8.79	8.79	9.41	8.24		8.85 8.90 8.79
AI-Yoha, Yaqoub (KUW) (1993)																
FINAL	- 2019 Asian Athletics Championships (Doha, QAT)															
date	24-Apr-19	time	2.51	3.56	4.58	5.60	6.62	7.64	8.69	9.74	10.82	11.91		13.35	6 / 2	
reaction time	0.120	interval		1.05	1.02	1.02	1.02	1.02	1.05	1.05	1.08	1.09	1.44	NR PB		3.09 3.09 3.22
wind	1.7 m/s	velocity	5.47	8.70	8.96	8.96	8.96	8.96	8.70	8.70	8.46	8.39	9.74	8.24		8.87 8.87 8.52
Allen, Devon (USA) (1994)																
FINAL	- 2019 Athletissima (Lausanne, SUI) (TV Analysis)															
date	05-Jul-19	time	2.56	3.58	4.58	5.60	6.60	7.64	8.68	9.72	10.78	11.86		13.35	1 / 7	
reaction time	0.133	interval		1.02	1.00	1.02	1.00	1.04	1.04	1.04	1.06	1.08	1.49			3.04 3.08 3.18
wind	1.0 m/s	velocity	5.36	8.96	9.14	8.96	9.14	8.79	8.79	8.79	8.62	8.46	9.41	8.24		9.02 8.90 8.62
Crittenden, Freddie (USA) (1994)																
FINAL	- 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)															
date	06-Sep-19	time	2.52	3.56	4.60	5.62	6.62	7.64	8.68	9.70	10.74	11.80		13.35	6 / 4	
reaction time	0.144	interval		1.04	1.04	1.02	1.00	1.02	1.04	1.02	1.04	1.06	1.55			3.10 3.06 3.12
wind	0.0 m/s	velocity	5.44	8.79	8.79	8.96	9.14	8.96	8.79	8.96	8.79	8.62	9.05	8.24		8.85 8.96 8.79
Muratake, Rachid (JPN) (2002)																
FINAL	- 2021 Michitaka Kinami Memorial (Osaka, JPN)															
date	01-Jun-21	time	2.60	3.65	4.68	5.70	6.72	7.76	8.81	9.86	10.91	11.99		13.35	7 / 1	
reaction time	0.150	interval	7 steps	1.05	1.03	1.02	1.02	1.04	1.05	1.05	1.05	1.08	1.36	NJR PB		3.10 3.11 3.18
wind	0.3 m/s	velocity	5.28	8.70	8.87	8.96	8.96	8.79	8.70	8.70	8.70	8.46	10.31	8.24		8.85 8.82 8.62
Izumiya, Shunsuke (JPN) (2000)																
Semi-Final 3	- 2020 Olympic Games (Tokyo, JPN) (TV Analysis)															
date	04-Aug-21	time	2.53	3.62	4.65	5.65	6.69	7.73	8.77	9.77	10.84	11.95		13.35	7 / 3	
reaction time	0.141	interval	7 steps	1.09	1.03	1.00	1.04	1.04	1.04	1.00	1.07	1.11	1.40			3.12 3.12 3.18
wind	-0.1 m/s	velocity	5.42	8.39	8.87	9.14	8.79	8.79	8.79	9.14	8.54	8.23	10.01	8.24		8.79 8.79 8.62
Crittenden, Freddie (USA) (1994)																
Semi-Final 2	- 2022 USATF National Championships (Eugene, OR)															
date	26-Jun-22	time	2.50	3.57	4.60	5.64	6.70	7.69	8.70	9.77	10.78	11.86		13.35	4 / 4	
reaction time		interval		1.07	1.03	1.04	1.06	0.99	1.01	1.07	1.01	1.08	1.49			3.14 3.06 3.16
wind	0.1 m/s	velocity	5.49	8.54	8.87	8.79	8.62	9.23	9.05	8.54	9.05	8.46	9.41	8.24		8.73 8.96 8.68
Pozzi, Andy (GBR) (1992)																
Semi-Final 3	- 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															
date	17-Jul-22	time	2.56	3.56	4.60	5.60	6.60	7.60	8.63	9.66	10.76	11.83		13.35	7 / 6	
reaction time	0.141	interval	7 steps	1.00	1.04	1.00	1.00	1.00	1.03	1.03	1.10	1.07	1.52			3.04 3.03 3.20
wind	2.5 m/s	velocity	5.36	9.14	8.79	9.14	9.14	9.14	8.87	8.87	8.31	8.54	9.22	8.24		9.02 9.05 8.57
Joseph, Jason (SUI) (1998)																
FINAL	- 2022 European Athletics Championships (Munich, GER) (TV Analysis)															
date	17-Aug-22	time	2.52	3.58	4.62	5.66	6.68	7.72	8.76	9.80	10.84	11.88		13.35	8 / 4	
reaction time	0.169	interval	7 steps	1.06	1.04	1.04	1.02	1.04	1.04	1.04	1.04	1.04	1.47			3.14 3.10 3.12
wind	-0.2 m/s	velocity	5.44	8.62	8.79	8.79	8.96	8.79	8.79	8.79	8.79	8.79	9.54	8.24		8.73 8.85 8.79
Kwaou-Mathey, Just (FRA) (1999)																
FINAL	- 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)															
date	02-Jun-23	time	2.54	3.57	4.60	5.63	6.63	7.66	8.68	9.74	10.78	11.84		13.35	1 / 5	
reaction time	0.161	interval	7 steps	1.03	1.03	1.03	1.00	1.03	1.02	1.06	1.04	1.06	1.51			3.09 3.05 3.16
wind	-0.2 m/s	velocity	5.40	8.87	8.87	8.87	9.14	8.87	8.96	8.62	8.79	8.62	9.28	8.24		8.87 8.99 8.68
Zhoya, Sasha (FRA) (2002)																
Heat 1	- 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															
date	20-Aug-23	time	2.56	3.63	4.70	5.72	6.73	7.75	8.78	9.80	10.88	11.93		13.35	7 / 3	
reaction time	0.157	interval	7 steps	1.07	1.07	1.02	1.01	1.02	1.03	1.02	1.08	1.05	1.42			3.16 3.06 3.15
wind	-0.3 m/s	velocity	5.36	8.54	8.54	8.96	9.05	8.96	8.87	8.96	8.46	8.70	9.87	8.24		8.68 8.96 8.70
Takayama, Shunya (JPN) (1994)																
Heat 5	- 2023 World Athletics Championships (Budapest, HUN)															
date	20-Aug-23	time	2.56	3.60	4.62	5.64	6.66	7.70	8.74	9.79	10.85	11.93		13.35	9 / 2	
reaction time	0.146	interval		1.04	1.02	1.02	1.02	1.04	1.04	1.05	1.06	1.08	1.42			3.08 3.10 3.19
wind	-0.9 m/s	velocity	5.36	8.79	8.96	8.96	8.96	8.79	8.79	8.70	8.62	8.46	9.87	8.24		8.90 8.85 8.60

FINAL - 2008 Olympic Games (Beijing, CHN)

date	21-Aug-08	time	2.66	3.70	4.74	5.77	6.78	7.81	8.84	9.87	10.94	12.00	13.36	4 / 5			
reaction time	0.169	interval		1.04	1.04	1.03	1.01	1.03	1.03	1.03	1.07	1.06	1.36		3.11	3.07	3.16
wind	0.1 m/s	velocity	5.16	8.79	8.79	8.87	9.05	8.87	8.87	8.87	8.54	8.62	10.31	8.23	8.82	8.93	8.68

*Tsiokanos (2018) - race pattern of men's 110m hurdles- time analysis of olympic hurdle performance***Xie Wenjun (CHN) (1990)****H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2014 Asian Games (Incheon, KOR)**

date	30-Sep-14	time	2.60	3.66	4.70	5.74	6.76	7.80	8.82	9.85	10.90	11.96	13.36	/ 1			
reaction time	0.176	interval		1.06	1.04	1.04	1.02	1.04	1.02	1.03	1.05	1.06	1.40		3.14	3.08	3.14
wind	0.4 m/s	velocity	5.28	8.62	8.79	8.79	8.96	8.79	8.96	8.87	8.70	8.62	10.01	8.23	8.73	8.90	8.73

*Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles***Xie Wenjun (CHN) (1990)****H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2015 Golden Grand Prix (Shanghai, CHN)**

date	17-May-15	time	2.55	3.58	4.61	5.64	6.65	7.67	8.69	9.74	10.82	11.92	13.36	/ 6			
reaction time	0.165	interval		1.03	1.03	1.03	1.01	1.02	1.02	1.05	1.08	1.10	1.44		3.09	3.05	3.23
wind	0.4 m/s	velocity	5.38	8.87	8.87	8.87	9.05	8.96	8.96	8.70	8.46	8.31	9.74	8.23	8.87	8.99	8.49

*Wang (2016) - analysis of technical characteristes and performance prediction of rising star Xie Wenjun in 110m Hurdles***Xie Wenjun (CHN) (1990)****H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)**

date	08-May-16	time	2.58	3.63	4.66	5.68	6.70	7.72	8.76	9.79	10.85	11.93	13.36	5 / 1			
reaction time	0.160	interval		1.05	1.03	1.02	1.02	1.02	1.04	1.03	1.06	1.08	1.43		3.10	3.08	3.17
wind	-0.6 m/s	velocity	5.32	8.70	8.87	8.96	8.96	8.96	8.79	8.87	8.62	8.46	9.80	8.23	8.85	8.90	8.65

*Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers***Merritt, Aries (USA) (1985)****H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2017 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)**

date	13-May-17	time	2.54	3.58	4.58	5.58	6.62	7.66	8.66	9.74	10.78	11.86	13.36	7 / 6			
reaction time	0.136	interval	7 steps	1.04	1.00	1.00	1.04	1.04	1.00	1.08	1.04	1.08	1.50		3.04	3.08	3.20
wind	0.5 m/s	velocity	5.40	8.79	9.14	9.14	8.79	8.79	9.14	8.46	8.79	8.46	9.35	8.23	9.02	8.90	8.57

*Henson (2020) - Athlete First: 2017 year end hurdle report***Czykier, Damian (POL) (1992)****H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2017 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)**

date	18-Jun-17	time	2.54	3.62	4.64	5.64	6.66	7.70	8.72	9.74	10.78	11.86	13.36	7 / 5			
reaction time	0.164	interval	7 steps	1.08	1.02	1.00	1.02	1.04	1.02	1.02	1.04	1.08	1.50		3.10	3.08	3.14
wind	3.5 m/s	velocity	5.40	8.46	8.96	9.14	8.96	8.79	8.96	8.96	8.79	8.46	9.35	8.23	8.85	8.90	8.73

*Henson (2020) - Athlete First: 2017 year end hurdle report***Xie Wenjun (CHN) (1990)****H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final 3 - 2017 IAAF World Championships (London, GBR)**

date	06-Aug-17	time	2.50	3.60	4.63	5.65	6.67	7.70	8.71	9.74	10.78	11.85	13.36	4 / 3			
reaction time	0.171	interval		1.10	1.03	1.02	1.02	1.03	1.01	1.03	1.04	1.07	1.51		3.15	3.06	3.14
wind	0.3 m/s	velocity	5.49	8.31	8.87	8.96	8.96	8.87	9.05	8.87	8.79	8.54	9.28	8.23	8.70	8.96	8.73

*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles***Kanai, Taio (JPN) (1995)****H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)**

date	24-Jun-18	time	2.56	3.60	4.62	5.66	6.68	7.71	8.77	9.83	10.89	11.96	13.36	4 / 1			
reaction time	0.144	interval	7 steps	1.04	1.02	1.04	1.02	1.03	1.06	1.06	1.06	1.07	1.40	NR PB	3.10	3.11	3.19
wind	0.7 m/s	velocity	5.36	8.79	8.96	8.79	8.96	8.87	8.62	8.62	8.62	8.54	10.01	8.23	8.85	8.82	8.60

*Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season***Allen, Devon (USA) (1994)****H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2018 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)**

date	02-Jul-18	time	2.52	3.58	4.62	5.64	6.66	7.70	8.74	9.78	10.84	11.90	13.36	5 / 3			
reaction time	0.130	interval		1.06	1.04	1.02	1.02	1.04	1.04	1.04	1.06	1.06	1.46		3.12	3.10	3.16
wind	0.6 m/s	velocity	5.44	8.62	8.79	8.96	8.96	8.79	8.79	8.79	8.62	8.62	9.60	8.23	8.79	8.85	8.68

*Henson (2020) - Athlete First: 2018 year end hurdle report***Baji, Balázs (HUN) (1989)****H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2018 Athletissima (Lausanne, SUI) (TV Analysis)**

date	05-Jul-18	time	2.59	3.63	4.67	5.69	6.71	7.71	8.74	9.76	10.86	11.93	13.36	7 / 4			
reaction time	0.135	interval	7 steps	1.04	1.04	1.02	1.02	1.00	1.03	1.02	1.10	1.07	1.43		3.10	3.05	3.19
wind	0.6 m/s	velocity	5.30	8.79	8.79	8.96	8.96	9.14	8.87	8.96	8.31	8.54	9.80	8.23	8.85	8.99	8.60

*Henson (2020) - Athlete First: 2018 year end hurdle report***Pozzi, Andy (GBR) (1992)****H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)**

date	22-Jul-18	time	2.50	3.54	4.56	5.56	6.58	7.60	8.66	9.70	10.76	11.84	13.36	3 / 4			
reaction time	0.129	interval	7 steps	1.04	1.02	1.00	1.02	1.02	1.06	1.04	1.06	1.08	1.52		3.06	3.10	3.18
wind	0.2 m/s	velocity	5.49	8.79	8.96	9.14	8.96	8.96	8.62	8.79	8.62	8.46	9.22	8.23	8.96	8.85	8.62

*Henson (2020) - Athlete First: 2018 year end hurdle report***Martinot Lagarde, Pascal (FRA) (199)****H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)**

date	31-Aug-18	time	2.50	3.54	4.56	5.58	6.58	7.64	8.68	9.74	10.80	11.88	13.36	3 / 4			
reaction time	0.153	interval	7 steps	1.04	1.02	1.02	1.00	1.06	1.04	1.06	1.06	1.08	1.48		3.08	3.10	3.20
wind	-0.1 m/s	velocity	5.49	8.79	8.96	8.96	9.14	8.62	8.79	8.62	8.62	8.46	9.47	8.23	8.90	8.85	8.57

*Henson (2020) - Athlete First: 2018 year end hurdle report***Alkana, Antonio (RSA) (1990)****H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)***Henson (2021) - Athlete First: 2018 year end hurdle report*

date	09-Sep-18	time	2.48	3.56	4.60	5.62	6.64	7.64	8.66	9.68	10.76	11.84	13.36	4 / 4			
reaction time	0.117	interval		1.08	1.04	1.02	1.02	1.00	1.02	1.02	1.08	1.08	1.52		3.14	3.04	3.18
wind	0.9 m/s	velocity	5.53	8.46	8.79	8.96	8.96	9.14	8.96	8.96	8.46	8.46	9.22	8.23	8.73	9.02	8.62
Crittenden, Freddie (USA) (1994)																	
FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)																	
CAA Hurdle Development (2019)																	
date	18-May-19	time	2.58	3.64	4.68	5.70	6.72	7.76	8.78	9.82	10.86	11.94	13.36	8 / 5			
reaction time	0.151	interval		1.06	1.04	1.02	1.02	1.04	1.02	1.04	1.04	1.08	1.42		3.12	3.08	3.16
wind	0.7 m/s	velocity	5.32	8.62	8.79	8.96	8.96	8.79	8.96	8.79	8.79	8.46	9.87	8.23	8.79	8.90	8.68
Takayama, Shunya (JPN) (1994)																	
FINAL - 2019 Fuse Sprint (Tottori, JPN)																	
Kijima (2019) - research on athlete performance and technique- 2019 data book																	
date	02-Jun-19	time	2.54	3.58	4.62	5.66	6.68	7.70	8.75	9.80	10.87	11.92	13.36	7 / 1			
reaction time	0.128	interval		1.04	1.04	1.04	1.02	1.02	1.05	1.05	1.07	1.05	1.44	=NR PB	3.12	3.09	3.17
wind	1.9 m/s	velocity	5.40	8.79	8.79	8.79	8.96	8.96	8.70	8.70	8.54	8.70	9.74	8.23	8.79	8.87	8.65
Takayama, Shunya (JPN) (1994)																	
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)																	
Yamanaka (2019) - research on athlete performance and technique- 2019 data book																	
date	30-Jun-19	time	2.54	3.59	4.61	5.63	6.66	7.69	8.73	9.78	10.84	11.92	13.36	7 / 1			
reaction time	0.146	interval		1.05	1.02	1.02	1.03	1.03	1.04	1.05	1.06	1.08	1.44	=NR =PB	3.09	3.10	3.19
wind	-0.6 m/s	velocity	5.40	8.70	8.96	8.96	8.87	8.87	8.79	8.70	8.62	8.46	9.74	8.23	8.87	8.85	8.60
Izumiya, Shunsuke (JPN) (2000)																	
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)																	
Yamanaka (2019) - research on athlete performance and technique- 2019 data book																	
date	30-Jun-19	time	2.55	3.59	4.63	5.65	6.68	7.72	8.75	9.80	10.89	11.97	13.36	6 / 2			
reaction time	0.144	interval		1.04	1.04	1.02	1.03	1.04	1.03	1.05	1.09	1.08	1.39	=NR NJR PB	3.10	3.10	3.22
wind	-0.6 m/s	velocity	5.38	8.79	8.79	8.96	8.87	8.79	8.87	8.70	8.39	8.46	10.09	8.23	8.85	8.85	8.52
Xie Wenjun (CHN) (1990)																	
FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)																	
Henson (2020) - Athlete First: 2019 year end hurdle report																	
date	30-Jun-19	time	2.56	3.60	4.63	5.66	6.70	7.73	8.76	9.80	10.83	11.88	13.36	7 / 6			
reaction time	0.175	interval	7 steps	1.04	1.03	1.03	1.04	1.03	1.03	1.04	1.03	1.05	1.48		3.10	3.10	3.12
wind	0.3 m/s	velocity	5.36	8.79	8.87	8.87	8.79	8.87	8.87	8.79	8.87	8.70	9.47	8.23	8.85	8.85	8.79
Holloway, Grant (USA) (1997)																	
FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)																	
Henson (2020) - Athlete First: 2019 year end hurdle report																	
date	28-Jul-19	time	2.46	3.50	4.48	5.47	6.47	7.48	8.54	9.58	10.67	11.77	13.36	7 / 2			
reaction time		interval	7 steps	1.04	0.98	0.99	1.00	1.01	1.06	1.04	1.09	1.10	1.59		3.01	3.07	3.23
wind	-0.8 m/s	velocity	5.58	8.79	9.33	9.23	9.14	9.05	8.62	8.79	8.39	8.31	8.82	8.23	9.11	8.93	8.49
Brathwaite, Shane (BAR) (1990)																	
FINAL - 2019 ISTAF (Berlin, GER) (TV Analysis)																	
Henson (2020) - Athlete First: 2019 year end hurdle report																	
date	01-Sep-19	time	2.53	3.58	4.61	5.63	6.65	7.65	8.68	9.75	10.80	11.86	13.36	1 / 3			
reaction time	0.125	interval		1.05	1.03	1.02	1.02	1.00	1.03	1.07	1.05	1.06	1.50		3.10	3.05	3.18
wind	0.8 m/s	velocity	5.42	8.70	8.87	8.96	8.96	9.14	8.87	8.54	8.70	8.62	9.35	8.23	8.85	8.99	8.62
Chen Kuei-Ru (TPE) (1993)																	
FINAL - 2019 Japanese World Championships Trials (Fujiiyoshida, JPN)																	
Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season																	
date	01-Sep-19	time	2.56	3.61	4.65	5.69	6.72	7.75	8.78	9.80	10.85	11.91	13.36	6 / 2			
reaction time		interval	7 steps	1.05	1.04	1.04	1.03	1.03	1.03	1.02	1.05	1.06	1.45		3.13	3.09	3.13
wind	1.4 m/s	velocity	5.36	8.70	8.79	8.79	8.87	8.87	8.87	8.96	8.70	8.62	9.67	8.23	8.76	8.87	8.76
Allen, Devon (USA) (1994)																	
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)																	
CAA Hurdle Development (2019)																	
date	02-Oct-19	time	2.60	3.64	4.67	5.69	6.76	7.75	8.80	9.83	10.87	11.95	13.36	9 / 4			
reaction time	0.119	interval		1.04	1.03	1.02	1.07	0.99	1.05	1.03	1.04	1.08	1.41		3.09	3.11	3.15
wind	0.9 m/s	velocity	5.28	8.79	8.87	8.96	8.54	9.23	8.70	8.87	8.79	8.46	9.94	8.23	8.87	8.82	8.70
Kanai, Taio (JPN) (1995)																	
FINAL - 2020 Japanese National Championships (Niigata, JPN)																	
Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season																	
date	03-Oct-20	time	2.56	3.60	4.63	5.66	6.68	7.73	8.77	9.82	10.89	11.95	13.36	6 / 1			
reaction time	0.137	interval	7 steps	1.04	1.03	1.03	1.02	1.05	1.04	1.05	1.07	1.06	1.41		3.10	3.11	3.18
wind	-0.1 m/s	velocity	5.36	8.79	8.87	8.87	8.96	8.70	8.79	8.70	8.54	8.62	9.94	8.23	8.85	8.82	8.62
Broadbell, Rasheed (JAM) (2000)																	
Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																	
Henson (2022) - Athlete First: 2022 year end hurdle report																	
date	16-Jul-22	time	2.46	3.53	4.56	5.56	6.60	7.63	8.73	9.80	10.83	11.86	13.36	8 / 2			
reaction time	0.139	interval	7 steps	1.07	1.03	1.00	1.04	1.03	1.10	1.07	1.03	1.03	1.50		3.10	3.17	3.13
wind	-0.5 m/s	velocity	5.58	8.54	8.87	9.14	8.79	8.87	8.31	8.54	8.87	8.87	9.35	8.23	8.85	8.65	8.76
Ishikawa, Shuhei (JPN) (1995)																	
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)																	
Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season																	
date	21-May-23	time	2.56	3.61	4.63	5.65	6.68	7.72	8.75	9.80	10.86	11.95	13.36	7 / 3			

reaction time	0.129	interval	7 steps	1.05	1.02	1.02	1.03	1.04	1.03	1.05	1.06	1.09	1.41	PB	3.09	3.10	3.20
wind	0.8 m/s	velocity	5.36	8.70	8.96	8.96	8.87	8.79	8.87	8.70	8.62	8.39	9.94	8.23	8.87	8.85	8.57

Joseph, Jason (SUI) (1998)

Seph, Jason (SUI) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2023 Meeting de Paris (Paris, FRA)													Omega Timing (2023) - diamond league race analysis				
date	09-Jun-23	time	2.47	3.54	4.57	5.59	6.60	7.62	8.65	9.68	10.71	11.78	13.36	4 / 2			
reaction time	0.201	interval	7 steps	1.07	1.03	1.02	1.01	1.02	1.03	1.03	1.03	1.07	1.58		3.12	3.06	3.13
wind	-2.0 m/s	velocity	5.55	8.54	8.87	8.96	9.05	8.96	8.87	8.87	8.87	8.54	8.87	8.23	8.79	8.96	8.76

Edwards, Eric (USA) (2000)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)																
date	16-Jul-23	time	3.46	4.50	5.53	6.57	7.62	8.64	9.68	10.73	11.80			<i>Omega Timing (2023) - diamond league race analysis</i>		
														3 / 4		
reaction time	0.137	interval		1.04	1.03	1.04	1.05	1.02	1.04	1.05	1.07	1.56			3.11	3.16
wind	0.3 m/s	velocity	6.61	8.79	8.87	8.79	8.70	8.96	8.79	8.70	8.54	8.99	8.23		8.82	8.68

Cunningham, Trey (USA) (1998)

Jnningham, Trey (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)													Omega Timing (2023) - diamond league race analysis				
date	16-Jul-23	time	2.41	3.46	4.48	5.49	6.50	7.52	8.54	9.58	10.63	11.70	13.36	3 / 4			
reaction time	0.147	interval	7 steps	1.05	1.02	1.01	1.01	1.02	1.02	1.04	1.05	1.07	1.66		3.08	3.05	3.16
wind	0.3 m/s	velocity	5.69	8.70	8.96	9.05	9.05	8.96	8.96	8.79	8.70	8.54	8.45	8.23	8.90	8.99	8.68

Roberts, Daniel (USA) (1998)

berts, Daniel (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report					
date	20-Aug-23	time	2.53	3.55	4.57	5.60	6.62	7.70	8.74	9.79	10.88	11.94		13.36	5 / 3			
reaction time	0.155	interval		1.02	1.02	1.03	1.02	1.08	1.04	1.05	1.09	1.06	1.42		3.07	3.14	3.20	
wind	-0.9 m/s	velocity	5.42	8.96	8.96	8.87	8.96	8.46	8.79	8.70	8.39	8.62	9.87	8.23	8.93	8.73	8.57	

Britt, Jamal (USA) (1998)

Tit, Jamal (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Prefontaine Classic (Eugene, OR)													Omega Timing (2023) - diamond league race analysis				
date	17-Sep-23	time	2.41	3.49	4.52	5.55	6.58	7.59	8.62	9.66	10.71	11.78	13.36	9 / 8			
reaction time	0.140	interval	7 steps	1.08	1.03	1.03	1.03	1.01	1.03	1.04	1.05	1.07	1.58		3.14	3.07	3.16
wind	0.9 m/s	velocity	5.69	8.46	8.87	8.87	8.87	9.05	8.87	8.79	8.70	8.54	8.87	8.23	8.73	8.93	8.68

Britt, Jamal (USA) (1998)

Hitt, Jamal (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Prefontaine Classic (Eugene, OR)													Omega Timing (2024) - diamond league race analysis				
date	25-May-24	time	2.44	3.50	4.53	5.54	6.55	7.58	8.62	9.67	10.71	11.79	13.36	9 / 8			
reaction time	0.149	interval	7 steps	1.06	1.03	1.01	1.01	1.03	1.04	1.05	1.04	1.08	1.57		3.10	3.08	3.17
wind	-0.1 m/s	velocity	5.62	8.62	8.87	9.05	9.05	8.87	8.79	8.70	8.79	8.46	8.93	8.23	8.85	8.90	8.65

Wilson, De'vion (USA) (2000)

Wilson, De'vion (USA) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report					
date	07-Jun-24	time	2.53	3.58	4.60	5.60	6.61	7.61	8.62	9.74	10.84	11.91		13.36	4 / 5			
reaction time		interval	7 steps	1.05	1.02	1.00	1.01	1.00	1.01	1.12	1.10	1.07	1.45			3.07	3.02	3.29
wind	0.1 m/s	velocity	5.42	8.70	8.96	9.14	9.05	9.14	9.05	8.16	8.31	8.54	9.67	8.23		8.93	9.08	8.33

Dickson, Michael (USA) (1997)

Koson, Michael (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report					
date	24-Jun-24	time	2.53	3.60	4.63	5.64	6.66	7.70	8.73	9.75	10.78	11.93		13.36	2 / 4			
reaction time		interval	7 steps	1.07	1.03	1.01	1.02	1.04	1.03	1.02	1.03	1.15	1.43		3.11	3.09	3.20	
wind	1.8 m/s	velocity	5.42	8.54	8.87	9.05	8.96	8.79	8.87	8.96	8.87	7.95	9.80	8.23	8.82	8.87	8.57	

Edwards, Eric (USA) (2000)

wards, Eric (USA) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report					
date	27-Jun-24	time	2.59	3.63	4.67	5.70	6.70	7.70	8.73	9.80	10.86	11.93		13.36	8 / 4			
reaction time		interval		1.04	1.04	1.03	1.00	1.00	1.03	1.07	1.06	1.07	1.43		3.11	3.03	3.20	
wind	-0.2 m/s	velocity	5.30	8.79	8.79	8.87	9.14	9.14	8.87	8.54	8.62	8.54	9.80	8.23	8.82	9.05	8.57	

Obasuyi, Michael (BEL) (1999)

Dasyuri, Michael (BEL) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)				
date	07-Aug-24	time	2.42	3.50	4.55	5.58	6.60	7.63	8.66	9.70	10.75	11.80	13.36	8 / 5			
reaction time	0.149	interval	7 steps	1.08	1.05	1.03	1.02	1.03	1.03	1.04	1.05	1.05	1.56		3.16	3.08	3.14
wind	0.1 m/s	velocity	5.67	8.46	8.70	8.87	8.96	8.87	8.87	8.79	8.70	8.70	8.99	8.23	8.68	8.90	8.73

Llopis, Enrique (ESP) (2000)

Lopez, Enrique (ESP) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2025 Xiamen Diamond League (Xiamen, CHN)													Omega Timing (2025) - diamond league race analysis				
date	26-Apr-25	time	2.43	3.52	4.56	5.56	6.57	7.57	8.58	9.61	10.65	11.78	13.36	4 / 6			
reaction time	0.148	interval	7 steps	1.09	1.04	1.00	1.01	1.00	1.01	1.03	1.04	1.13	1.58		3.13	3.02	3.20
wind	0.3 m/s	velocity	5.65	8.39	8.79	9.14	9.05	9.14	9.05	8.87	8.79	8.09	8.87	8.23	8.76	9.08	8.57

Roberts, Daniel (USA) (1998)

oberts, Daniel (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Short Hurdles - 2025 Grand Slam Track Miami (Miramar, FL) (TV Analysis)														Henson (2025) - Athlete First: 2025 year end hurdle report			
date	02-May-25	time	2.57	3.63	4.67	5.67	6.67	7.70	8.71	9.74	10.84	11.91	13.36	5 / 6			
reaction time	0.270	interval	7 steps	1.06	1.04	1.00	1.00	1.03	1.01	1.03	1.10	1.07	1.45		3.10	3.04	3.20

wind	1.4 m/s	velocity	5.34	8.62	8.79	9.14	9.14	8.87	9.05	8.87	8.31	8.54	9.67	8.23		8.85	9.02	8.57
Jackson, Colin (GBR) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 1987 IAAF World Championships (Rome, ITA)			<i>Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics</i>															
date	01-Sep-87	time	2.61	3.67	4.70	5.71	6.73	7.73	8.75	9.79	10.87	11.95		13.37	7 / 2			
reaction time		interval		1.06	1.03	1.01	1.02	1.00	1.02	1.04	1.08	1.08	1.42	PB		3.10	3.04	3.20
wind	1.4 m/s	velocity	5.26	8.62	8.87	9.05	8.96	9.14	8.96	8.79	8.46	8.46	9.87	8.23		8.85	9.02	8.57
Kingdom, Roger (USA) (1962)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)			<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>															
date	26-Sep-88	time	2.60	3.66	4.68	5.67	6.66	7.68	8.71	9.76	10.83	11.91		13.37	3 / 1			
reaction time	0.192	interval		1.06	1.02	0.99	0.99	1.02	1.03	1.05	1.07	1.08	1.46			3.07	3.04	3.20
wind	-0.7 m/s	velocity	5.28	8.62	8.96	9.23	9.23	8.96	8.87	8.70	8.54	8.46	9.60	8.23		8.93	9.02	8.57
Chen Yanhao (CHN) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2001 Chinese National Grand Prix (Shanghai, CHN)			<i>Fang (2001) - analysis on technical characteristics in Liu Xiang's 110m hurdles</i>															
date	06-May-01	time	2.64	3.69	4.75	5.78	6.81	7.83	8.86	9.90	10.97	12.02		13.37	/ 2			
reaction time		interval		1.05	1.06	1.03	1.03	1.02	1.03	1.04	1.07	1.05	1.35	PB		3.14	3.08	3.16
wind	1.9 m/s	velocity	5.20	8.70	8.62	8.87	8.87	8.96	8.87	8.79	8.54	8.70	10.39	8.23		8.73	8.90	8.68
Schwarthoff, Florian (GER) (1968)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 European Championships (Munich, GER)			<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>															
date	10-Aug-02	time	2.61	3.67	4.69	5.71	6.71	7.75	8.77	9.81	10.85	11.93		13.37	/ 4			
reaction time	0.164	interval		1.06	1.02	1.02	1.00	1.04	1.02	1.04	1.04	1.08	1.44			3.10	3.06	3.16
wind	0.4 m/s	velocity	5.26	8.62	8.96	8.96	9.14	8.79	8.96	8.79	8.79	8.46	9.74	8.23		8.85	8.96	8.68
Johnson, Allen (USA) (1971)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 USATF National Championships (Palo Alto, CA)			<i>USATF Women's Sprint Development (2003)</i>															
date	21-Jun-03	time	2.35	3.44	4.44	5.49	6.51	7.52	8.56	9.59	10.64	11.70		13.37	6 / 1			
reaction time		interval		1.09	1.00	1.05	1.02	1.01	1.04	1.03	1.05	1.06	1.67			3.14	3.07	3.14
wind	-2.4 m/s	velocity	5.84	8.39	9.14	8.70	8.96	9.05	8.79	8.87	8.70	8.62	8.40	8.23		8.73	8.93	8.73
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)			<i>USATF Men's Hurdle Development (2007)</i>															
date	24-Jun-07	time	2.62	3.69	4.70	5.76	6.79	7.79	8.83	9.88	10.89	11.95		13.37	5 / 3			
reaction time		interval		1.07	1.01	1.06	1.03	1.00	1.04	1.05	1.01	1.06	1.42			3.14	3.07	3.12
wind	-0.6 m/s	velocity	5.24	8.54	9.05	8.62	8.87	9.14	8.79	8.70	9.05	8.62	9.87	8.23		8.73	8.93	8.79
Demidyuk, Serhiy (UKR) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)			<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>															
date	23-Sep-07	time	2.68	3.72	4.76	5.79	6.81	7.83	8.86	9.90	10.95	12.01		13.37	8 / 7			
reaction time	0.214	interval		1.04	1.04	1.03	1.02	1.02	1.03	1.04	1.05	1.06	1.36			3.11	3.07	3.15
wind	0.0 m/s	velocity	5.12	8.79	8.79	8.87	8.96	8.96	8.87	8.79	8.70	8.62	10.31	8.23		8.82	8.93	8.70
Thomas, Dwight (JAM) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>															
date	20-Aug-09	time	2.65	3.73	4.77	5.80	6.81	7.84	8.86	9.89	10.91	11.97		13.37	5 / 3			
reaction time	0.151	interval		1.08	1.04	1.03	1.01	1.03	1.02	1.03	1.02	1.06	1.40			3.15	3.06	3.11
wind	0.6 m/s	velocity	5.18	8.46	8.79	8.87	9.05	8.87	8.96	8.87	8.96	8.62	10.01	8.23		8.70	8.96	8.82
Thomas, Dwight (JAM) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Seiko Super Grand Prix (Kawasaki, JPN)			<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>															
date	23-Sep-09	time	2.60	3.66	4.70	5.73	6.74	7.78	8.83	9.85	10.95	11.98		13.37	/ 1			
reaction time		interval		1.06	1.04	1.03	1.01	1.04	1.05	1.02	1.10	1.03	1.39			3.13	3.10	3.15
wind	-1.3 m/s	velocity	5.28	8.62	8.79	8.87	9.05	8.79	8.70	8.96	8.31	8.87	10.09	8.23		8.76	8.85	8.70
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)			<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>															
date	06-May-16	time	2.52	3.60	4.64	5.68	6.70	7.72	8.76	9.80	10.84	11.92		13.37	5 / 6			
reaction time	0.125	interval	7 steps	1.08	1.04	1.04	1.02	1.02	1.04	1.04	1.04	1.08	1.45			3.16	3.08	3.16
wind	1.4 m/s	velocity	5.44	8.46	8.79	8.79	8.96	8.96	8.79	8.79	8.79	8.46	9.67	8.23		8.68	8.90	8.68
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)			<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>															
date	02-Jun-16	time	2.50	3.54	4.54	5.58	6.58	7.60	8.66	9.70	10.74	11.86		13.37	2 / 3			
reaction time	0.139	interval	7 steps	1.04	1.00	1.04	1.00	1.02	1.06	1.04	1.04	1.12	1.51			3.08	3.08	3.20
wind	0.6 m/s	velocity	5.49	8.79	9.14	8.79	9.14	8.96	8.62	8.79	8.79	8.16	9.28	8.23		8.90	8.90	8.57
Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Athletissima (Lausanne, SUI) (TV Analysis)			<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>															
date	25-Aug-16	time	2.52	3.56	4.58	5.60	6.62	7.64	8.68	9.72	10.76	11.84		13.37	2 / 6			
reaction time	0.146	interval	7 steps	1.04	1.02	1.02	1.02	1.02	1.04	1.04	1.04	1.08	1.53			3.08	3.08	3.16
wind	0.5 m/s	velocity	5.44	8.79	8.96	8.96	8.96	8.96	8.79	8.79	8.79	8.46	9.16	8.23		8.90	8.90	8.68

Bascou, Dimitri (FRA) (1987)																
FINAL	- 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)															
date	09-Sep-16	time	2.50	3.57	4.57	5.57	6.57	7.60	8.64	9.67	10.75	11.86				
reaction time	0.160	interval	7 steps	1.07	1.00	1.00	1.00	1.03	1.04	1.03	1.08	1.11	1.51		3.07	3.07
wind	0.2 m/s	velocity	5.49	8.54	9.14	9.14	9.14	8.87	8.79	8.87	8.46	8.23	9.28	8.23	8.93	8.93
Henson (2020) - Athlete First: 2016 year end hurdle report																
Harris, Aleec (USA) (1990)																
FINAL	- 2017 Drake Relays (Des Moines, IA) (TV Analysis)															
date	29-Apr-17	time	2.56	3.60	4.64	5.68	6.70	7.73	8.76	9.80	10.86	11.90				
reaction time	0.155	interval		1.04	1.04	1.04	1.02	1.03	1.03	1.04	1.06	1.04	1.47		3.12	3.08
wind	1.8 m/s	velocity	5.36	8.79	8.79	8.79	8.96	8.87	8.87	8.79	8.62	8.79	9.54	8.23	8.79	8.90
Henson (2020) - Athlete First: 2017 year end hurdle report																
Alkana, Antonio (RSA) (1990)																
FINAL	- 2017 Golden Spike (Ostrava, CZE) (TV Analysis)															
date	28-Jun-17	time	2.52	3.56	4.58	5.60	6.64	7.68	8.74	9.80	10.86	11.92				
reaction time	0.145	interval		1.04	1.02	1.02	1.04	1.04	1.06	1.06	1.06	1.06	1.45		3.08	3.14
wind	0.6 m/s	velocity	5.44	8.79	8.96	8.96	8.79	8.79	8.62	8.62	8.62	8.62	9.67	8.23	8.90	8.73
Henson (2020) - Athlete First: 2017 year end hurdle report																
Ortega, Orlando (ESP) (1991)																
FINAL	- 2017 IAAF World Championships (London, GBR)															
date	07-Aug-17	time	2.45	3.51	4.55	5.60	6.62	7.65	8.68	9.71	10.73	11.78				
reaction time	0.140	interval		1.06	1.04	1.05	1.02	1.03	1.03	1.03	1.02	1.05	1.59		3.15	3.08
wind	0.0 m/s	velocity	5.60	8.62	8.79	8.70	8.96	8.87	8.87	8.87	8.96	8.70	8.82	8.23	8.70	8.90
Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles																
Parchment, Hansle (JAM) (1990)																
FINAL	- 2017 IAAF World Championships (London, GBR)															
date	07-Aug-17	time	2.51	3.58	4.62	5.65	6.68	7.67	8.69	9.69	10.76	11.82				
reaction time	0.145	interval	7 steps	1.07	1.04	1.03	1.03	0.99	1.02	1.00	1.07	1.06	1.55		3.14	3.04
wind	0.0 m/s	velocity	5.47	8.54	8.79	8.87	8.87	9.23	8.96	9.14	8.54	8.62	9.05	8.23	8.73	9.02
Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles																
Merritt, Aries (USA) (1985)																
FINAL	- 2018 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)															
date	02-Jul-18	time	2.46	3.54	4.58	5.62	6.64	7.68	8.72	9.76	10.80	11.86				
reaction time	0.144	interval	7 steps	1.08	1.04	1.04	1.02	1.04	1.04	1.04	1.04	1.06	1.51		3.16	3.10
wind	0.6 m/s	velocity	5.58	8.46	8.79	8.79	8.96	8.79	8.79	8.79	8.79	8.62	9.28	8.23	8.68	8.85
Henson (2020) - Athlete First: 2018 year end hurdle report																
Crittenden, Freddie (USA) (1994)																
FINAL	- 2019 Nanjing World Challenge (Nanjing, CHN)															
date	21-May-19	time	2.55	3.59	4.64	5.69	6.71	7.74	8.78	9.83	10.88	11.96				
reaction time	0.137	interval		1.04	1.05	1.05	1.02	1.03	1.04	1.05	1.05	1.08	1.41		3.14	3.09
wind	0.1 m/s	velocity	5.38	8.79	8.70	8.70	8.96	8.87	8.79	8.70	8.70	8.46	9.94	8.23	8.73	8.87
CAA Hurdle Development (2019)																
Shubenkov, Sergey (ANA) (1990)																
FINAL	- 2019 Nanjing World Challenge (Nanjing, CHN)															
date	21-May-19	time	2.62	3.66	4.68	5.68	6.71	7.73	8.76	9.79	10.85	11.94				
reaction time	0.165	interval	7 steps	1.04	1.02	1.00	1.03	1.02	1.03	1.03	1.06	1.09	1.43		3.06	3.08
wind	0.1 m/s	velocity	5.24	8.79	8.96	9.14	8.87	8.96	8.87	8.87	8.62	8.39	9.80	8.23	8.96	8.90
CAA Hurdle Development (2019)																
Jackson, Dashaun (USA) (1997)																
Semi-Final 1	- 2019 NCAA National Championships (Austin, TX) (TV Analysis)															
date	05-Jun-19	time	2.38	3.43	4.46	5.48	6.50	7.50	8.60	9.63	10.68	11.74				
reaction time	0.213	interval		1.05	1.03	1.02	1.02	1.00	1.10	1.03	1.05	1.06	1.63		3.10	3.12
wind	0.9 m/s	velocity	5.76	8.70	8.87	8.96	8.96	9.14	8.31	8.87	8.70	8.62	8.60	8.23	8.85	8.79
Henson (2020) - Athlete First: 2019 year end hurdle report																
Moore, Isaiah (USA) (1996)																
FINAL	- 2019 NCAA National Championships (Austin, TX) (TV Analysis)															
date	07-Jun-19	time	2.60	3.67	4.70	5.70	6.74	7.77	8.81	9.84	10.87	11.94				
reaction time	0.176	interval		1.07	1.03	1.00	1.04	1.03	1.04	1.03	1.03	1.07	1.43		3.10	3.11
wind	0.8 m/s	velocity	5.28	8.54	8.87	9.14	8.79	8.87	8.79	8.87	8.87	8.54	9.80	8.23	8.85	8.82
Henson (2020) - Athlete First: 2019 year end hurdle report																
Muratake, Rachid (JPN) (2002)																
FINAL	- 2019 National Sports Festival (Hitachinaka, JPN) (99cm)															
date	06-Oct-19	time	2.60	3.66	4.69	5.73	6.75	7.79	8.83	9.88	10.92	11.97				
reaction time	0.160	interval		1.06	1.03	1.04	1.02	1.04	1.04	1.05	1.04	1.05	1.40		3.13	3.10
wind	2.7 m/s	velocity	5.28	8.62	8.87	8.79	8.96	8.79	8.79	8.70	8.79	8.70	10.01	8.23	8.76	8.85
Enomoto (2019) - research on athlete performance and technique- 2019 data book																
Takayama, Shunya (JPN) (1994)																
FINAL	- 2021 Japanese National Championships (Osaka, JPN)															
date	27-Jun-21	time	2.57	3.60	4.64	5.68	6.71	7.74	8.78	9.83	10.88	11.95				
reaction time	0.139	interval		1.03	1.04	1.04	1.03	1.03	1.04	1.05	1.05	1.07	1.42		3.11	3.10
wind	1.2 m/s	velocity	5.34	8.87	8.79	8.79	8.87	8.87	8.79	8.70	8.70	8.54	9.87	8.23	8.82	8.85
Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season																

Martinot Lagarde, Pascal (FRA) (199)																
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	03-Aug-21	time	2.58	3.66	4.66	5.66	6.67	7.65	8.66	9.70	10.81	11.87	13.37		3 / 2	
reaction time	0.155	interval	7 steps	1.08	1.00	1.00	1.01	0.98	1.01	1.04	1.11	1.06	1.50		3.08	3.00
wind	-0.1 m/s	velocity	5.32	8.46	9.14	9.14	9.05	9.33	9.05	8.79	8.23	8.62	9.35	8.23	8.90	9.14
Pereira, Rafael (BRA) (1997)																
FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)																
date	16-Jun-22	time	2.48	3.54	4.58	5.62	6.62	7.66	8.68	9.74	10.78	11.86	13.37		3 / 3	
reaction time	0.137	interval		1.06	1.04	1.04	1.00	1.04	1.02	1.06	1.04	1.08	1.51		3.14	3.06
wind	-1.2 m/s	velocity	5.53	8.62	8.79	8.79	9.14	8.79	8.96	8.62	8.79	8.46	9.28	8.23	8.73	8.96
Czykier, Damian (POL) (1992)																
Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																
date	16-Jul-22	time	2.56	3.58	4.60	5.60	6.63	7.66	8.70	9.73	10.76	11.86	13.37		3 / 2	
reaction time	0.146	interval	7 steps	1.02	1.02	1.00	1.03	1.03	1.04	1.03	1.03	1.10	1.51		3.04	3.10
wind	0.4 m/s	velocity	5.36	8.96	8.96	9.14	8.87	8.87	8.79	8.87	8.87	8.31	9.28	8.23	9.02	8.85
Martinez, Asier (ESP) (2000)																
Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																
date	16-Jul-22	time	2.56	3.60	4.60	5.60	6.63	7.66	8.70	9.73	10.80	11.83	13.37		2 / 1	
reaction time	0.137	interval	7 steps	1.04	1.00	1.00	1.03	1.03	1.04	1.03	1.07	1.03	1.54		3.04	3.10
wind	-0.3 m/s	velocity	5.36	8.79	9.14	9.14	8.87	8.87	8.79	8.87	8.54	8.87	9.10	8.23	9.02	8.85
Bouanani, Amine (ALG) (1997)																
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																
date	17-Jul-22	time	2.60	3.66	4.70	5.70	6.70	7.76	8.80	9.83	10.87	11.96	13.37		3 / 3	
reaction time	0.130	interval	7 steps	1.06	1.04	1.00	1.00	1.06	1.04	1.03	1.04	1.09	1.41	NR PB	3.10	3.10
wind	-0.6 m/s	velocity	5.28	8.62	8.79	9.14	9.14	8.62	8.79	8.87	8.79	8.39	9.94	8.23	8.85	8.85
Xie Wenjun (CHN) (1990)																
FINAL - 2021 Chinese National Games (Xi'an, CHN)																
date	22-Sep-21	time	2.60	3.67	4.71	5.74	6.76	7.78	8.79	9.82	10.87	11.95	13.37		1 / 1	
reaction time	0.167	interval	7 steps	1.07	1.04	1.03	1.02	1.02	1.01	1.03	1.05	1.08	1.42		3.14	3.05
wind	0.0 m/s	velocity	5.28	8.54	8.79	8.87	8.96	8.96	9.05	8.87	8.70	8.46	9.87	8.23	8.73	8.99
Iribarne, Roger (CUB) (1996)																
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)																
date	21-May-23	time	2.53	3.57	4.60	5.60	6.62	7.64	8.68	9.76	10.84	11.93	13.37		4 / 4	
reaction time	0.151	interval	7 steps	1.04	1.03	1.00	1.02	1.02	1.04	1.08	1.08	1.09	1.44		3.07	3.08
wind	0.8 m/s	velocity	5.42	8.79	8.87	9.14	8.96	8.96	8.79	8.46	8.46	8.39	9.74	8.23	8.93	8.90
Belocian, Wilhem (FRA) (1995)																
Heat 1 - 2023 Meeting de Paris (Paris, FRA)																
date	09-Jun-23	time	2.36	3.43	4.46	5.49	6.52	7.56	8.60	9.64	10.70	11.78	13.37		6 / 3	
reaction time	0.129	interval		1.07	1.03	1.03	1.03	1.04	1.04	1.04	1.06	1.08	1.59		3.13	3.11
wind	-2.0 m/s	velocity	5.81	8.54	8.87	8.87	8.87	8.79	8.79	8.79	8.62	8.46	8.82	8.23	8.76	8.82
Kwaou-Mathey, Just (FRA) (1999)																
FINAL - 2023 Athletissima (Lausanne, SUI)																
date	30-Jun-23	time	2.43	3.50	4.53	5.53	6.55	7.56	8.60	9.65	10.70	11.79	13.37		3 / 3	
reaction time	0.134	interval	7 steps	1.07	1.03	1.00	1.02	1.01	1.04	1.05	1.05	1.09	1.58		3.10	3.07
wind	-1.0 m/s	velocity	5.65	8.54	8.87	9.14	8.96	9.05	8.79	8.70	8.70	8.39	8.87	8.23	8.85	8.93
Rodrigues, Eduardo (BRA) (1995)																
Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																
date	20-Aug-23	time	2.63	3.68	4.70	5.70	6.70	7.72	8.74	9.77	10.83	11.88	13.37		1 / 3	
reaction time	0.150	interval	7 steps	1.05	1.02	1.00	1.00	1.02	1.02	1.03	1.06	1.05	1.49		3.07	3.04
wind	-0.6 m/s	velocity	5.22	8.70	8.96	9.14	9.14	8.96	8.96	8.87	8.62	8.70	9.41	8.23	8.93	9.02
Edwards, Eric (USA) (2000)																
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)																
date	27-Apr-24	time	2.54	3.59	4.64	5.65	6.67	7.68	8.70	9.77	10.86	11.97	13.37		7 / 5	
reaction time	0.139	interval		1.05	1.05	1.01	1.02	1.01	1.02	1.07	1.09	1.11	1.40		3.11	3.05
wind	0.8 m/s	velocity	5.40	8.70	8.70	9.05	8.96	9.05	8.96	8.54	8.39	8.23	10.01	8.23	8.82	8.99
Tharp, Jakobe (USA) (2005)																
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																
date	24-Jun-24	time	2.56	3.63	4.68	5.70	6.70	7.72	8.75	9.81	10.86	11.92	13.37		3 / 4	
reaction time		interval		1.07	1.05	1.02	1.00	1.02	1.03	1.06	1.05	1.06	1.45		3.14	3.05
wind	0.8 m/s	velocity	5.36	8.54	8.70	8.96	9.14	8.96	8.87	8.62	8.70	8.62	9.67	8.23	8.73	8.99
Smith, Jayden (USA) (2003)																

Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)

date	24-Jun-24	time	2.50	3.53	4.56	5.58	6.62	7.66	8.72	9.76	10.82	11.92		13.37	1 / 3			
reaction time		interval	7 steps	1.03	1.03	1.02	1.04	1.04	1.06	1.04	1.06	1.10	1.45	PB		3.08	3.14	3.20
wind	-0.3 m/s	velocity	5.49	8.87	8.87	8.96	8.79	8.79	8.62	8.79	8.62	8.31	9.67	8.23		8.90	8.73	8.57

Henson (2024) - Athlete First: 2024 year end hurdle report

Edwards, Eric (USA) (2000)

Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report				
date	24-Jun-24	time	2.63	3.66	4.72	5.74	6.74	7.77	8.79	9.82	10.85	11.92	13.37	8 / 4			
reaction time		interval		1.03	1.06	1.02	1.00	1.03	1.02	1.03	1.03	1.07	1.45		3.11	3.05	3.13
wind	-0.3 m/s	velocity	5.22	8.87	8.62	8.96	9.14	8.87	8.96	8.87	8.87	8.54	9.67	8.23	8.82	8.99	8.76

Henson (2024) - Athlete First: 2024 year end hurdle report

Luff, Darius (USA) (2001)

Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report				
date	27-Jun-24	time	2.57	3.61	4.63	5.63	6.65	7.70	8.72	9.78	10.84	11.90	13.37	5 / 5			
reaction time		interval		1.04	1.02	1.00	1.02	1.05	1.02	1.06	1.06	1.06	1.47		3.06	3.09	3.18
wind	-0.2 m/s	velocity	5.34	8.79	8.96	9.14	8.96	8.70	8.96	8.62	8.62	8.62	9.54	8.23	8.96	8.87	8.62

Henson (2024) - Athlete First: 2024 year end hurdle report

Rodrigues, Eduardo (BRA) (1995)

Heat 1 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)				
date	04-Aug-24	time	2.48	3.57	4.59	5.60	6.60	7.60	8.61	9.63	10.69	11.77	13.37	4 / 3			
reaction time	0.165	interval		1.09	1.02	1.01	1.00	1.00	1.01	1.02	1.06	1.08	1.60		3.12	3.01	3.16
wind	0.1 m/s	velocity	5.53	8.39	8.96	9.05	9.14	9.14	9.05	8.96	8.62	8.46	8.76	8.23	8.79	9.11	8.68

Paris 2024 Olympic Games - Results Book (2024)

Zhoya, Sasha (FRA) (2002)

FINAL - 2024 Athletissima (Lausanne, SUI)													Omega Timing (2024) - diamond league race analysis				
date	22-Aug-24	time	2.44	3.52	4.55	5.59	6.60	7.61	8.63	9.68	10.73	11.80	13.37	8 / 7			
reaction time	0.142	interval	7 steps	1.08	1.03	1.04	1.01	1.01	1.02	1.05	1.05	1.07	1.57		3.15	3.04	3.17
wind	-0.1 m/s	velocity	5.62	8.46	8.87	8.79	9.05	9.05	8.96	8.70	8.70	8.54	8.93	8.23	8.70	9.02	8.65

Omega Timing (2024) - diamond league race analysis

Xu Zhuoyi (CHN) (2003)

FINAL - 2025 Xiamen Diamond League (Xiamen, CHN)													Omega Timing (2025) - diamond league race analysis						
date	26-Apr-25	time	2.48	3.57	4.61	5.63	6.64	7.65	8.66	9.69	10.74	11.80		13.37	9 / 7				
reaction time	0.153	interval	7 steps	1.09	1.04	1.02	1.01	1.01	1.01	1.03	1.05	1.06	1.57				3.15	3.03	3.14
wind	0.3 m/s	velocity	5.53	8.39	8.79	8.96	9.05	9.05	9.05	8.87	8.70	8.62	8.93	8.23			8.70	9.05	8.73

Omega Timing (2025) - diamond league race analysis

Davenport, Willie (USA) (1943)

FINAL - 1976 Olympic Games (Montreal, CAN)														Ewen (1977) - montreal 1976			
date	28-Jul-76	time	2.6	3.6	4.6	5.7	6.7	7.7	8.8	9.8	10.9	11.9	13.38	3 / 3			
reaction time		interval		1.0	1.0	1.1	1.0	1.0	1.1	1.0	1.1	1.0	1.5		3.10	3.10	3.10
wind	0.0 m/s	velocity	5.28	9.14	9.14	8.31	9.14	9.14	8.31	9.14	8.31	9.14	9.47	8.22	8.85	8.85	8.85

Ewen (1977) - montreal 1976

Jackson, Colin (GBR) (1967)

FINAL - 1987 IAAF World Championships (Rome, ITA)													Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics				
date	03-Sep-87	time	2.60	3.65	4.71	5.75	6.76	7.80	8.83	9.88	10.94	11.99	13.38	2 / 3			
reaction time		interval		1.05	1.06	1.04	1.01	1.04	1.03	1.05	1.06	1.05	1.39		3.15	3.08	3.16
wind	0.5 m/s	velocity	5.28	8.70	8.62	8.79	9.05	8.79	8.87	8.70	8.62	8.70	10.09	8.22	8.70	8.90	8.68

Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics

Campbell, Tonie (USA) (1960)

FINAL - 1988 Olympic Games (Seoul, KOR)													Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988				
date	26-Sep-88	time	2.60	3.66	4.69	5.69	6.69	7.71	8.73	9.78	10.83	11.95	13.38	6 / 3			
reaction time	0.161	interval	7 steps	1.06	1.03	1.00	1.00	1.02	1.02	1.05	1.05	1.12	1.43	3.09 3.04 3.22			
wind	1.5 m/s	velocity	5.28	8.62	8.87	9.14	9.14	8.96	8.96	8.70	8.70	8.16	9.80	8.22	8.87	9.02	8.52

Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988

Fenner, Mike (GER) (1971)

FINAL - 1998 European Championships (Budapest, HUN)													Sanchez (1998) - Budapest '98: análisis de la carreras con villas				
date	22-Aug-98	time	2.61	3.63	4.68	5.72	6.74	7.77	8.82	9.85	10.88	11.97	13.38	2 / 7			
reaction time		interval		1.02	1.05	1.04	1.02	1.03	1.05	1.03	1.03	1.09	1.41		3.11	3.10	3.15
wind	1.5 m/s	velocity	5.26	8.96	8.70	8.79	8.96	8.87	8.70	8.87	8.87	8.39	9.94	8.22	8.82	8.85	8.70

Sanchez (1998) - Budapest '98: análisis de la carreras con villas

Pechonkin, Yevgeniy (RUS) (1973)

FINAL - 2001 European Cup (Bremen, GER)													Graubner (2009) - http://www.fgs.uni-halle.de				
date	24-Jun-01	time	2.61	3.66	4.68	5.69	6.71	7.76	8.79	9.83	10.90	11.98	13.38	8 / 1			
reaction time	0.128	interval		1.05	1.02	1.01	1.02	1.05	1.03	1.04	1.07	1.08	1.40		3.08	3.10	3.19
wind	1.3 m/s	velocity	5.26	8.70	8.96	9.05	8.96	8.70	8.87	8.79	8.54	8.46	10.01	8.22	8.90	8.85	8.60

Graubner (2009) - <http://www.fgs.uni-halle.de>**Trammell, Terrence (USA) (1978)**

FINAL - 2003 USATF National Championships (Palo Alto, CA)													USATF Women's Sprint Development (2003)				
date	21-Jun-03	time	2.34	3.44	4.44	5.50	6.52	7.52	8.54	9.58	10.64	11.70	13.38	3 / 2			
reaction time		interval		1.10	1.00	1.06	1.02	1.00	1.02	1.04	1.06	1.06	1.68		3.16	3.04	3.16
wind	-2.4 m/s	velocity	5.86	8.31	9.14	8.62	8.96	9.14	8.96	8.79	8.62	8.62	8.35	8.22	8.68	9.02	8.68

USATF Women's Sprint Development (2003)

Sharman, William (GBR) (1984)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)																

Graubner (2009) - biomechanical analyses at the 12th IAAF world championships

date	20-Aug-09	time	2.56	3.58	4.63	5.65	6.66	7.69	8.72	9.77	10.82	11.90		13.38	8 / 1			
reaction time	0.110	interval	7 steps	1.02	1.05	1.02	1.01	1.03	1.03	1.05	1.05	1.08	1.48	PB		3.09	3.07	3.18
wind	0.1 m/s	velocity	5.36	8.96	8.70	8.96	9.05	8.87	8.87	8.70	8.70	8.46	9.47	8.22		8.87	8.93	8.62
Svoboda, Petr (CZE) (1984)																		
FINAL - 2009 IAAF World Championships (Berlin, GER)											<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>							
date	20-Aug-09	time	2.58	3.62	4.64	5.66	6.69	7.74	8.77	9.82	10.87	11.94		13.38	7 / 6			
reaction time	0.144	interval		1.04	1.02	1.02	1.03	1.05	1.03	1.05	1.05	1.07	1.44			3.08	3.11	3.17
wind	0.1 m/s	velocity	5.32	8.79	8.96	8.96	8.87	8.70	8.87	8.70	8.70	8.54	9.74	8.22		8.90	8.82	8.65
Oliver, David (USA) (1982)																		
FINAL - 2016 Shanghai Golden Grand Prix (Shanghai, CHN)											<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>							
date	14-May-16	time	2.48	3.54	4.56	5.60	6.64	7.66	8.70	9.76	10.84	11.90		13.38	7 / 5			
reaction time	0.141	interval	7 steps	1.06	1.02	1.04	1.04	1.02	1.04	1.06	1.08	1.06	1.48			3.12	3.10	3.20
wind	1.2 m/s	velocity	5.53	8.62	8.96	8.79	8.79	8.96	8.79	8.62	8.46	8.62	9.47	8.22		8.79	8.85	8.57
Douvalidis, Konstadinos (GRE) (1982)																		
FINAL - 2016 Meeting International Mohammed VI D'Athlétisme (Rabat, MAR) (TV Analysis)											<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>							
date	22-May-16	time	2.52	3.56	4.58	5.60	6.60	7.62	8.66	9.70	10.78	11.86		13.38	3 / 4			
reaction time	0.113	interval		1.04	1.02	1.02	1.00	1.02	1.04	1.04	1.08	1.08	1.52			3.08	3.06	3.20
wind	1.4 m/s	velocity	5.44	8.79	8.96	8.96	9.14	8.96	8.79	8.79	8.46	8.46	9.22	8.22		8.90	8.96	8.57
Oliver, David (USA) (1982)																		
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)											<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>							
date	28-May-16	time	2.44	3.52	4.56	5.58	6.60	7.62	8.64	9.70	10.78	11.82		13.38	6 / 2			
reaction time		interval	7 steps	1.08	1.04	1.02	1.02	1.02	1.02	1.06	1.08	1.04	1.56			3.14	3.06	3.18
wind	0.7 m/s	velocity	5.62	8.46	8.79	8.96	8.96	8.96	8.96	8.62	8.46	8.79	8.99	8.22		8.73	8.96	8.62
Izumiya, Shunsuke (JPN) (2000)																		
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN) (99cm)											<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>							
date	12-Jul-18	time	2.59	3.63	4.70	5.69	6.70	7.73	8.78	9.81	10.87	11.92		13.38	2 / 3			
reaction time	0.170	interval		1.04	1.07	0.99	1.01	1.03	1.05	1.03	1.06	1.05	1.46	PB		3.10	3.09	3.14
wind	0.3 m/s	velocity	5.30	8.79	8.54	9.23	9.05	8.87	8.70	8.87	8.62	8.70	9.60	8.22		8.85	8.87	8.73
Allen, Devon (USA) (1994)																		
FINAL - 2018 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)											<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>							
date	20-Jul-18	time	2.50	3.56	4.60	5.62	6.66	7.70	8.74	9.78	10.82	11.88		13.38	2 / 5			
reaction time	0.141	interval		1.06	1.04	1.02	1.04	1.04	1.04	1.04	1.04	1.06	1.50			3.12	3.12	3.14
wind	-0.2 m/s	velocity	5.49	8.62	8.79	8.96	8.79	8.79	8.79	8.79	8.79	8.62	9.35	8.22		8.79	8.79	8.73
Baji, Balázs (HUN) (1989)																		
FINAL - 2018 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)											<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>							
date	20-Jul-18	time	2.48	3.52	4.56	5.58	6.60	7.62	8.66	9.70	10.74	11.82		13.38	7 / 6			
reaction time	0.139	interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.04	1.04	1.04	1.08	1.56			3.10	3.08	3.16
wind	-0.2 m/s	velocity	5.53	8.79	8.79	8.96	8.96	8.96	8.79	8.79	8.79	8.46	8.99	8.22		8.85	8.90	8.68
Crittenden, Freddie (USA) (1994)																		
FINAL - 2019 Kinami Memorial (Osaka, JPN)											<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>							
date	06-May-19	time	2.58	3.62	4.65	5.67	6.70	7.72	8.75	9.81	10.86	11.95		13.38	4 / 1			
reaction time		interval		1.04	1.03	1.02	1.03	1.02	1.03	1.06	1.05	1.09	1.43			3.09	3.08	3.20
wind	0.3 m/s	velocity	5.32	8.79	8.87	8.96	8.87	8.96	8.87	8.62	8.70	8.39	9.80	8.22		8.87	8.90	8.57
Jackson, Dashaun (USA) (1997)																		
FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)											<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>							
date	07-Jun-19	time	2.54	3.60	4.64	5.67	6.70	7.70	8.71	9.76	10.81	11.91		13.38	6 / 4			
reaction time	0.175	interval		1.06	1.04	1.03	1.03	1.00	1.01	1.05	1.05	1.10	1.47			3.13	3.04	3.20
wind	0.8 m/s	velocity	5.40	8.62	8.79	8.87	8.87	9.14	9.05	8.70	8.70	8.31	9.54	8.22		8.76	9.02	8.57
Crittenden, Freddie (USA) (1994)																		
FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)											<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>							
date	30-Jun-19	time	2.60	3.63	4.66	5.66	6.70	7.73	8.78	9.82	10.85	11.92		13.38	8 / 7			
reaction time	0.220	interval		1.03	1.03	1.00	1.04	1.03	1.05	1.04	1.03	1.07	1.46			3.06	3.12	3.14
wind	0.3 m/s	velocity	5.28	8.87	8.87	9.14	8.79	8.87	8.70	8.79	8.87	8.54	9.60	8.22		8.96	8.79	8.73
Allen, Devon (USA) (1994)																		
FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)											<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>							
date	28-Jul-19	time	2.50	3.60	4.63	5.67	6.69	7.70	8.74	9.77	10.83	11.90		13.38	8 / 3			
reaction time		interval		1.10	1.03	1.04	1.02	1.01	1.04	1.03	1.06	1.07	1.48			3.17	3.07	3.16
wind	-0.8 m/s	velocity	5.49	8.31	8.87	8.79	8.96	9.05	8.79	8.87	8.62	8.54	9.47	8.22		8.65	8.93	8.68
Crittenden, Freddie (USA) (1994)																		
FINAL - 2019 ISTAF (Berlin, GER) (TV Analysis)											<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>							
date	01-Sep-19	time	2.53	3.53	4.63	5.65	6.67	7.68	8.73	9.80	10.84	11.88		13.38	6 / 4			

reaction time	0.137	interval	1.00	1.10	1.02	1.02	1.01	1.05	1.07	1.04	1.04	1.50			3.12	3.08	3.15
wind	0.8 m/s	velocity	5.42	9.14	8.31	8.96	8.96	9.05	8.70	8.54	8.79	8.79	9.35	8.22	8.79	8.90	8.70

Roberts, Daniel (USA) (1998)

oberts, Daniel (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)													Henson (2021) - Athlete First: 2019 year end hurdle report					
date	30-Sep-19	time	2.42	3.46	4.48	5.48	6.48	7.52	8.54	9.58	10.62	11.76		13.38	4 / 4			
reaction time	0.186	interval		1.04	1.02	1.00	1.00	1.04	1.02	1.04	1.04	1.14	1.62	DQ		3.06	3.06	3.22
wind	-0.4 m/s	velocity	5.67	8.79	8.96	9.14	9.14	8.79	8.96	8.79	8.79	8.02	8.65	8.22		8.96	8.96	8.52

Belocian, Wilhem (FRA) (1995)

H1		H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Henson (2020) - Athlete First: 2020 year end hurdle report																	
date	11-Aug-20	time	2.57	3.60	4.60	5.64	6.64	7.64	8.67	9.74	10.81	11.88	13.38	3 / 2			
reaction time	0.147	interval	1.03	1.00	1.04	1.00	1.00	1.03	1.07	1.07	1.07	1.50			3.07	3.03	3.21
wind	1.1 m/s	velocity	5.34	8.87	9.14	8.79	9.14	9.14	8.87	8.54	8.54	8.54	9.35	8.22	8.93	9.05	8.54

Kanai, Taio (JPN) (1995)

anai, Taio (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 All Japan Corporate Championships (Kumagaya, JPN)													Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season				
date	20-Sep-20	time	2.55	3.60	4.65	5.66	6.69	7.72	8.75	9.82	10.88	11.95	13.38	5 / 1			
reaction time	0.138	interval	1.05	1.05	1.01	1.03	1.03	1.03	1.07	1.06	1.07	1.43			3.11	3.09	3.20
wind	1.7 m/s	velocity	5.38	8.70	8.70	9.05	8.87	8.87	8.87	8.54	8.62	8.54	9.80	8.22	8.82	8.87	8.57

Kanai, Taio (JPN) (1995)

Anai, Taio (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)													Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season					
date	09-May-21	time	2.53	3.57	4.59	5.65	6.68	7.73	8.78	9.84	10.91	11.98	13.38	4 / 1				
reaction time	0.133	interval	7 steps	1.04	1.02	1.06	1.03	1.05	1.05	1.06	1.07	1.07	1.40			3.12	3.13	3.20
wind	-0.8 m/s	velocity	5.42	8.79	8.96	8.62	8.87	8.70	8.70	8.62	8.54	8.54	10.01	8.22		8.79	8.76	8.57

McConico, Jaylan (USA) (1998)

CConico, Jaylan (USA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)												Henson (2021) - Athlete First: 2021 year end hurdle report					
date	11-Jun-21	time	2.55	3.57	4.60	5.63	6.63	7.63	8.73	9.80	10.83	11.93	13.38	4 / 2			
reaction time	0.194	interval	1.02	1.03	1.03	1.00	1.00	1.10	1.07	1.03	1.10	1.45			3.08	3.10	3.20
wind	-0.6 m/s	velocity	5.38	8.96	8.87	8.87	9.14	9.14	8.31	8.54	8.87	8.31	9.67	8.22	8.90	8.85	8.57

Marshall, Jamar (USA) (2001)

Arshall, Jamar (USA) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report					
date	26-Jun-21	time	2.50	3.60	4.60	5.60	6.65	7.69	8.70	9.73	10.80	11.88	13.38	1 / 6				
reaction time	0.137	interval	7 steps	1.10	1.00	1.00	1.05	1.04	1.01	1.03	1.07	1.08	1.50	DQ		3.10	3.10	3.18
wind	1.2 m/s	velocity	5.49	8.31	9.14	9.14	8.70	8.79	9.05	8.87	8.54	8.46	9.35	8.22		8.85	8.85	8.62

Nomoto, Syuusei (JPN) (1995)

Tomoto, Syuusei (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Japanese National Championships (Osaka, JPN)													Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season					
date	27-Jun-21	time	2.54	3.60	4.65	5.68	6.71	7.75	8.79	9.85	10.90	11.97	13.38	4 / 4				
reaction time	0.154	interval	7 steps	1.06	1.05	1.03	1.03	1.04	1.04	1.06	1.05	1.07	1.41	PB		3.14	3.11	3.18
wind	1.2 m/s	velocity	5.40	8.62	8.70	8.87	8.87	8.79	8.79	8.62	8.70	8.54	9.94	8.22		8.73	8.82	8.62

Manga, Aurel (FRA) (1992)

Anga, Aurel (FRA) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report				
date	06-Aug-21	time	2.50	3.58	4.62	5.62	6.64	7.66	8.68	9.70	10.78	11.86	13.38	9 / 8			
reaction time	0.151	interval	7 steps	1.08	1.04	1.00	1.02	1.02	1.02	1.02	1.08	1.08	1.52		3.12	3.06	3.18
wind	-0.5 m/s	velocity	5.49	8.46	8.79	9.14	8.96	8.96	8.96	8.96	8.46	8.46	9.22	8.22	8.79	8.96	8.62

Dunning, Robert (USA) (1997)

Lunning, Robert (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)													USATF (2022) - Results powered by Karmarush.com					
date	26-Jun-22	time	2.55	3.59	4.62	5.62	6.66	7.71	8.73	9.77	10.82	11.88	13.38	2 / 4				
reaction time		interval		1.04	1.03	1.00	1.04	1.05	1.02	1.04	1.05	1.06	1.50			3.07	3.11	3.15
wind	0.4 m/s	velocity	5.38	8.79	8.87	9.14	8.79	8.70	8.96	8.79	8.70	8.62	9.35	8.22		8.93	8.82	8.70

Mallett, Aaron (USA) (1994)

Alllett, Aaron (USA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)													USATF (2022) - Results powered by Karmarush.com				
date	26-Jun-22	time	2.53	3.59	4.59	5.59	6.60	7.68	8.69	9.72	10.79	11.88	13.38	7 / 5			
reaction time		interval	1.06	1.00	1.00	1.01	1.08	1.01	1.03	1.07	1.09	1.50			3.06	3.10	3.19
wind	0.4 m/s	velocity	5.42	8.62	9.14	9.14	9.05	8.46	9.05	8.87	8.54	8.39	9.35	8.22	8.96	8.85	8.60

Thomas, Damion (JAM) (1999)

Thomas, Damion (JAM) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report				
date	21-May-23	time	2.63	3.67	4.70	5.70	6.72	7.73	8.75	9.82	10.87	11.93	13.38	8 / 5			
reaction time	0.166	interval	7 steps	1.04	1.03	1.00	1.02	1.01	1.02	1.07	1.05	1.06	1.45		3.07	3.05	3.18
wind	4.0 m/s	velocity	5.22	8.79	8.87	9.14	8.96	9.05	8.96	8.54	8.70	8.62	9.67	8.22	8.93	8.99	8.62

Crittenden, Freddie (USA) (1994)

trending, Freddie (USA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report				
date	02-Jun-23	time	2.54	3.57	4.58	5.60	6.62	7.66	8.68	9.74	10.80	11.90	13.38	4 / 6			
reaction time	0.132	interval	1.03	1.01	1.02	1.02	1.04	1.02	1.06	1.06	1.10	1.48			3.06	3.08	3.22

wind	-0.2 m/s	velocity	5.40	8.87	9.05	8.96	8.96	8.79	8.96	8.62	8.62	8.31	9.47	8.22		8.96	8.90	8.52
Luff, Darius (USA) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	09-Jun-23	time	2.53	3.57	4.60	5.63	6.64	7.66	8.68	9.72	10.76	11.83		13.38	8 / 6			
reaction time		interval		1.04	1.03	1.03	1.01	1.02	1.02	1.04	1.04	1.07	1.55			3.10	3.05	3.15
wind	1.8 m/s	velocity	5.42	8.79	8.87	8.87	9.05	8.96	8.96	8.79	8.79	8.54	9.05	8.22		8.85	8.99	8.70
Dunning, Robert (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)															<i>Omega Timing (2023) - diamond league race analysis</i>			
date	16-Jul-23	time	2.51	3.59	4.63	5.65	6.66	7.67	8.69	9.72	10.76	11.81		13.38	4 / 5			
reaction time	0.140	interval		7 steps	1.08	1.04	1.02	1.01	1.01	1.02	1.03	1.04	1.05	1.57		3.14	3.04	3.12
wind	0.3 m/s	velocity	5.47	8.46	8.79	8.96	9.05	9.05	8.96	8.87	8.79	8.70	8.93	8.22		8.73	9.02	8.79
Joseph, Jason (SUI) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	20-Aug-23	time	2.52	3.60	4.62	5.64	6.68	7.72	8.78	9.82	10.86	11.90		13.38	2 / 4			
reaction time	0.159	interval		7 steps	1.07	1.02	1.02	1.04	1.04	1.06	1.04	1.04	1.48			3.11	3.14	3.12
wind	-0.6 m/s	velocity	5.42	8.54	8.96	8.96	8.79	8.79	8.62	8.79	8.79	8.79	9.47	8.22		8.82	8.73	8.79
Tinch, Cordell (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)															<i>Omega Timing (2023) - diamond league race analysis</i>			
date	02-Sep-23	time	2.41	3.43	4.45	5.47	6.48	7.51	8.54	9.59	10.66	11.74		13.38	8 / 7			
reaction time	0.170	interval		7 steps	1.02	1.02	1.02	1.01	1.03	1.03	1.05	1.07	1.08	1.64		3.06	3.07	3.20
wind	0.0 m/s	velocity	5.69	8.96	8.96	8.96	9.05	8.87	8.87	8.70	8.54	8.46	8.55	8.22		8.96	8.93	8.57
Tinch, Cordell (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Prefontaine Classic (Eugene, OR)															<i>Omega Timing (2024) - diamond league race analysis</i>			
date	25-May-24	time	2.43	3.51	4.56	5.58	6.59	7.61	8.64	9.67	10.71	11.79		13.38	3 / 9			
reaction time	0.164	interval		7 steps	1.08	1.05	1.02	1.01	1.02	1.03	1.03	1.04	1.08	1.59		3.15	3.06	3.15
wind	-0.1 m/s	velocity	5.65	8.46	8.70	8.96	9.05	8.96	8.87	8.87	8.79	8.46	8.82	8.22		8.70	8.96	8.70
Schulman, Connor (USA) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	24-Jun-24	time	2.53	3.63	4.68	5.68	6.70	7.72	8.74	9.80	10.83	11.90		13.38	2 / 5			
reaction time		interval		7 steps	1.10	1.05	1.00	1.02	1.02	1.02	1.06	1.03	1.07	1.48		3.15	3.06	3.16
wind	0.8 m/s	velocity	5.42	8.31	8.70	9.14	8.96	8.96	8.96	8.62	8.87	8.54	9.47	8.22		8.70	8.96	8.68
Rollins, Louis (USA) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	24-Jun-24	time	2.53	3.60	4.65	5.68	6.70	7.72	8.76	9.83	10.90	11.96		13.38	3 / 5			
reaction time		interval			1.07	1.05	1.03	1.02	1.02	1.04	1.07	1.07	1.06	1.42		3.15	3.08	3.20
wind	1.2 m/s	velocity	5.42	8.54	8.70	8.87	8.96	8.96	8.79	8.54	8.54	8.62	9.87	8.22		8.70	8.90	8.57
Beard, Dylan (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	27-Jun-24	time	2.51	3.54	4.54	5.56	6.54	7.57	8.61	9.65	10.74	11.85		13.38	5 / 5			
reaction time		interval			1.03	1.00	1.02	0.98	1.03	1.04	1.04	1.09	1.11	1.53		3.05	3.05	3.24
wind	0.3 m/s	velocity	5.47	8.87	9.14	8.96	9.33	8.87	8.79	8.79	8.39	8.23	9.16	8.22		8.99	8.99	8.46
Qin Weibo (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)															<i>Shandong Athletics Sport Science (2024)</i>			
date	30-Jun-24	time	2.62	3.65	4.69	5.71	6.72	7.74	8.76	9.79	10.83	11.96		13.38	7 / 1			
reaction time	0.156	interval		7 steps	1.03	1.04	1.02	1.01	1.02	1.02	1.03	1.04	1.13	1.42		3.09	3.05	3.20
wind	0.9 m/s	velocity	5.24	8.87	8.79	8.96	9.05	8.96	8.96	8.87	8.79	8.09	9.87	8.22		8.87	8.99	8.57
Simonelli, Lorenzo Ndele (ITA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	07-Aug-24	time	2.33	3.39	4.42	5.44	6.44	7.46	8.50	9.55	10.61	11.72		13.38	7 / 5			
reaction time	0.154	interval		7 steps	1.06	1.03	1.02	1.00	1.02	1.04	1.05	1.06	1.11	1.66		3.11	3.06	3.22
wind	-0.1 m/s	velocity	5.89	8.62	8.87	8.96	9.14	8.96	8.79	8.70	8.62	8.23	8.45	8.22		8.82	8.96	8.52
Chen Yanhao (CHN) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1994 Asian Games (Hiroshima, JPN)															<i>Yuan (1998) - Chen Yanhao analysis of 110m results</i>			
date	15-Oct-94	time	2.58	3.62	4.66	5.68	6.63	7.70	8.74	9.78	10.84	11.92		13.39	1 / 2			
reaction time		interval			1.04	1.04	1.02	0.95	1.07	1.04	1.04	1.06	1.08	1.47		3.10	3.06	3.18
wind	1.6 m/s	velocity	5.32	8.79	8.79	8.96	9.62	8.54	8.79	8.79	8.62	8.46	9.54	8.22		8.85	8.96	8.62
Ross, Duane (USA) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 1999 IAAF World Championships (Sevilla, ESP)															<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>			
date	23-Aug-99	time	2.53	3.55	4.57	5.58	6.59	7.64	8.69	9.77	10.82	11.89		13.39	1 / 1			
reaction time	0.162	interval			1.02	1.02	1.01	1.01	1.05	1.05	1.08	1.05	1.07	1.50		3.05	3.11	3.20
wind	0.6 m/s	velocity	5.42	8.96	8.96	9.05	9.05	8.70	8.70	8.46	8.70	8.54	9.35	8.22		8.99	8.82	8.57

Schwarthoff, Florian (GER) (1968)																
FINAL - 1999 IAAF World Championships (Sevilla, ESP)																
date	25-Aug-99	time	2.56	3.59	4.64	5.64	6.67	7.67	8.69	9.73	10.80	11.89		13.39	6 / 7	
reaction time	0.132	interval	7 steps	1.03	1.05	1.00	1.03	1.00	1.02	1.04	1.07	1.09	1.50		3.08	3.05
wind	1.0 m/s	velocity	5.36	8.87	8.70	9.14	8.87	9.14	8.96	8.79	8.54	8.39	9.35	8.22	8.90	8.99
Fenner, Mike (GER) (1971)																
FINAL - 2002 European Championships (Munich, GER)																
date	10-Aug-02	time	2.63	3.67	4.71	5.73	6.75	7.77	8.83	9.85	10.91	11.97		13.39	/ 5	
reaction time	0.161	interval		1.04	1.04	1.02	1.02	1.02	1.06	1.02	1.06	1.06	1.42		3.10	3.10
wind	0.4 m/s	velocity	5.22	8.79	8.79	8.96	8.96	8.96	8.62	8.96	8.62	8.62	9.87	8.22	8.85	8.85
Merritt, Aries (USA) (1985)																
FINAL - 2005 USATF National Championships (Carson, CA)																
date	24-Jun-05	time	2.66	3.74	4.81	5.81	6.84	7.88	8.93	9.91	10.97	12.03		13.39	8 / 7	
reaction time		interval		1.08	1.07	1.00	1.03	1.04	1.05	0.98	1.06	1.06	1.36		3.15	3.12
wind	0.2 m/s	velocity	5.16	8.46	8.54	9.14	8.87	8.79	8.70	9.33	8.62	8.62	10.31	8.22	8.70	8.79
Townsend, Fred (USA) (1982)																
FINAL - 2012 Windsprint (Sundsvall, SWE)																
date	17-Jun-12	time	2.64	3.68	4.72	5.75	6.77	7.78	8.83	9.86	10.92	11.98		13.39	4 / 1	
reaction time		interval		1.04	1.04	1.03	1.02	1.01	1.05	1.03	1.06	1.06	1.41		3.11	3.08
wind	1.1 m/s	velocity	5.20	8.79	8.79	8.87	8.96	9.05	8.70	8.87	8.62	8.62	9.94	8.22	8.82	8.90
Brown, Joel (USA) (1980)																
FINAL - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)																
date	13-Jul-12	time	2.52	3.60	4.64	5.64	6.68	7.72	8.76	9.80	10.86	11.92		13.39	6 / 5	
reaction time	0.149	interval		1.08	1.04	1.00	1.04	1.04	1.04	1.04	1.06	1.06	1.47		3.12	3.12
wind	0.6 m/s	velocity	5.44	8.46	8.79	9.14	8.79	8.79	8.79	8.79	8.62	8.62	9.54	8.22	8.79	8.79
Clarke, Lawrence (GBR) (1990)																
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)																
date	08-Aug-12	time	2.50	3.54	4.56	5.58	6.62	7.66	8.74	9.78	10.82	11.90		13.39	2 / 4	
reaction time	0.169	interval		1.04	1.02	1.02	1.04	1.04	1.08	1.04	1.04	1.08	1.49		3.08	3.16
wind	-0.3 m/s	velocity	5.49	8.79	8.96	8.96	8.79	8.79	8.46	8.79	8.79	8.46	9.41	8.22	8.90	8.68
Brathwaite, Ryan (BAR) (1988)																
FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)																
date	07-Sep-12	time	2.48	3.52	4.56	5.56	6.56	7.56	8.58	9.62	10.70	11.80		13.39	9 / 8	
reaction time	0.156	interval		1.04	1.04	1.00	1.00	1.00	1.02	1.04	1.08	1.10	1.59		3.08	3.02
wind	0.3 m/s	velocity	5.53	8.79	8.79	9.14	9.14	9.14	8.96	8.79	8.46	8.31	8.82	8.22	8.90	9.08
Perini, Lorenzo (ITA) (1994)																
FINAL - 2013 Italian National Junior Championships (Rieti, ITA) (99cm)																
date	15-Jun-13	time	2.70	3.76	4.80	5.82	6.83	7.84	8.86	9.89	10.92	11.95		13.39	6 / 1	
reaction time		interval		1.06	1.04	1.02	1.01	1.01	1.02	1.03	1.03	1.03	1.44		3.12	3.04
wind	1.6 m/s	velocity	5.08	8.62	8.79	8.96	9.05	9.05	8.96	8.87	8.87	8.87	9.74	8.22	8.79	9.02
Xie Wenjun (CHN) (1990)																
Semi-Final 2 - 2015 IAAF World Championships (Beijing, CHN)																
date	27-Aug-15	time		4.70				8.83				11.99		13.39	7 / 6	
reaction time	0.163	interval					4.13					3.16	1.40		8.83	3.16
wind	-0.2 m/s	velocity		6.81			8.85					8.68	10.01	8.22	3.11	8.68
Trajkovic, Milan (CYP) (1992)																
FINAL - 2017 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																
date	08-Jun-17	time	2.52	3.54	4.56	5.58	6.62	7.66	8.70	9.74	10.82	11.90		13.39	9 / 5	
reaction time	0.157	interval	7 steps	1.02	1.02	1.02	1.04	1.04	1.04	1.04	1.08	1.08	1.49		3.06	3.12
wind	-0.3 m/s	velocity	5.44	8.96	8.96	8.96	8.79	8.79	8.79	8.79	8.46	8.46	9.41	8.22	8.96	8.79
Brathwaite, Shane (BAR) (1990)																
FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)																
date	04-Jul-17	time	2.52	3.56	4.62	5.64	6.66	7.70	8.76	9.80	10.86	11.94		13.39	7 / 7	
reaction time	0.146	interval	7 steps	1.04	1.06	1.02	1.02	1.04	1.06	1.04	1.06	1.08	1.45		3.12	3.12
wind	0.3 m/s	velocity	5.44	8.79	8.62	8.96	8.96	8.79	8.62	8.79	8.62	8.46	9.67	8.22	8.79	8.79
Riley, Andrew (JAM) (1988)																
FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)																
date	04-Jul-17	time	2.54	3.62	4.64	5.66	6.70	7.74	8.78	9.84	10.88	11.96		13.39	1 / 6	
reaction time	0.150	interval	7 steps	1.08	1.02	1.02	1.04	1.04	1.04	1.06	1.04	1.08	1.43		3.12	3.12
wind	0.3 m/s	velocity	5.40	8.46	8.96	8.96	8.79	8.79	8.79	8.62	8.79	8.46	9.80	8.22	8.79	8.79

Chen Kuei-Ru (TPE) (1993)																
FINAL - 2018 Asian Games (Jakarta, INA)																
date	28-Aug-18	time	2.53	3.60	4.62	5.64	6.67	7.69	8.71	9.78	10.83	11.94	13.39	5 / 2		
reaction time	0.165	interval		1.07	1.02	1.02	1.03	1.02	1.02	1.07	1.05	1.11	1.45	NR PB	3.11	3.07
wind	0.0 m/s	velocity	5.42	8.54	8.96	8.96	8.87	8.96	8.96	8.54	8.70	8.23	9.67	8.22	8.82	8.49
Crittenden, Freddie (USA) (1994)																
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)																
date	31-Aug-18	time	2.52	3.56	4.60	5.62	6.66	7.68	8.72	9.76	10.82	11.90	13.39	8 / 5		
reaction time	0.151	interval		1.04	1.04	1.02	1.04	1.02	1.04	1.04	1.06	1.08	1.49		3.10	3.18
wind	-0.1 m/s	velocity	5.44	8.79	8.79	8.96	8.79	8.96	8.79	8.79	8.62	8.46	9.41	8.22	8.85	8.62
Chen Kuei-Ru (TPE) (1993)																
FINAL - 2019 Asian Athletics Championships (Doha, QAT)																
date	24-Apr-19	time	2.53	3.58	4.60	5.63	6.65	7.69	8.74	9.79	10.84	11.94	13.39	5 / 3		
reaction time	0.137	interval	7 steps	1.05	1.02	1.03	1.02	1.04	1.05	1.05	1.05	1.10	1.45	=NR =PB	3.10	3.20
wind	1.7 m/s	velocity	5.42	8.70	8.96	8.87	8.96	8.79	8.70	8.70	8.70	8.31	9.67	8.22	8.85	8.57
Pozzi, Andy (GBR) (1992)																
FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)																
date	18-May-19	time	2.52	3.58	4.58	5.62	6.62	7.66	8.70	9.74	10.82	11.92	13.39	7 / 6		
reaction time	0.133	interval	7 steps	1.06	1.00	1.04	1.00	1.04	1.04	1.04	1.08	1.10	1.47		3.10	3.22
wind	0.7 m/s	velocity	5.44	8.62	9.14	8.79	9.14	8.79	8.79	8.79	8.46	8.31	9.54	8.22	8.85	8.52
Harris, Aleec (USA) (1990)																
FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)																
date	30-Jun-19	time	2.60	3.63	4.66	5.72	6.74	7.76	8.78	9.82	10.88	11.94	13.39	1 / 8		
reaction time	0.161	interval		1.03	1.03	1.06	1.02	1.02	1.02	1.04	1.06	1.06	1.45		3.12	3.16
wind	0.3 m/s	velocity	5.28	8.87	8.87	8.62	8.96	8.96	8.96	8.79	8.62	8.62	9.67	8.22	8.79	8.68
Crittenden, Freddie (USA) (1994)																
FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)																
date	28-Jul-19	time	2.60	3.67	4.70	5.70	6.73	7.73	8.74	9.77	10.84	11.88	13.39	6 / 4		
reaction time	0.134	interval		1.07	1.03	1.00	1.03	1.00	1.01	1.03	1.07	1.04	1.51		3.10	3.14
wind	-0.8 m/s	velocity	5.28	8.54	8.87	9.14	8.87	9.14	9.05	8.87	8.54	8.79	9.28	8.22	8.85	8.73
Ning Xiaohan (CHN) (2000)																
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)																
date	14-Aug-19	time	2.57	3.62	4.65	5.67	6.69	7.71	8.74	9.78	10.83	11.91	13.39	4 / 1		
reaction time	0.134	interval		1.05	1.03	1.02	1.02	1.02	1.03	1.04	1.05	1.08	1.48	PB	3.10	3.17
wind	-0.3 m/s	velocity	5.34	8.70	8.87	8.96	8.96	8.96	8.87	8.79	8.70	8.46	9.47	8.22	8.85	8.65
Shubenkov, Sergey (ANA) (1990)																
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)																
date	10-Sep-19	time	2.60	3.66	4.73	5.76	6.80	7.83	8.83	9.86	10.90	11.96	13.39	7 / 2		
reaction time	0.186	interval	7 steps	1.06	1.07	1.03	1.04	1.03	1.00	1.03	1.04	1.06	1.43		3.16	3.13
wind	0.1 m/s	velocity	5.28	8.62	8.54	8.87	8.79	8.87	9.14	8.87	8.79	8.62	9.80	8.22	8.68	8.76
Ishikawa, Shuhei (JPN) (1995)																
FINAL - 2020 Athlete Night Games (Fukui, JPN)																
date	29-Aug-20	time	2.56	3.62	4.65	5.67	6.70	7.73	8.75	9.80	10.85	11.92	13.39	6 / 3		
reaction time		interval	7 steps	1.06	1.03	1.02	1.03	1.03	1.02	1.05	1.05	1.07	1.47	PB	3.11	3.17
wind	1.4 m/s	velocity	5.36	8.62	8.87	8.96	8.87	8.87	8.96	8.70	8.70	8.54	9.54	8.22	8.82	8.65
Lemonious, Phillip (JAM) (1998)																
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)																
date	11-Jun-21	time	2.57	3.60	4.70	5.70	6.73	7.73	8.77	9.80	10.83	11.90	13.39	5 / 3		
reaction time	0.150	interval	7 steps	1.03	1.10	1.00	1.03	1.00	1.04	1.03	1.03	1.07	1.49	PB	3.13	3.13
wind	-0.6 m/s	velocity	5.34	8.87	8.31	9.14	8.87	9.14	8.79	8.87	8.87	8.54	9.41	8.22	8.76	8.76
Thomas, Damion (JAM) (1999)																
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	04-Aug-21	time	2.62	3.68	4.70	5.71	6.76	7.79	8.83	9.85	10.88	11.95	13.39	8 / 3		
reaction time	0.135	interval	7 steps	1.06	1.02	1.01	1.05	1.03	1.04	1.02	1.03	1.07	1.44		3.09	3.12
wind	0.1 m/s	velocity	5.24	8.62	8.96	9.05	8.70	8.87	8.79	8.96	8.87	8.54	9.74	8.22	8.87	8.79
Pozzi, Andy (GBR) (1992)																
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)																
date	21-May-22	time	2.47	3.50	4.53	5.53	6.55	7.57	8.61	9.69	10.77	11.87	13.39	3 / 5		
reaction time	0.102	interval	7 steps	1.03	1.03	1.00	1.02	1.02	1.04	1.08	1.08	1.10	1.52		3.06	3.26
wind	0.7 m/s	velocity	5.55	8.87	8.87	9.14	8.96	8.96	8.79	8.46	8.46	8.31	9.22	8.22	8.96	8.41
Trajkovic, Milan (CYP) (1992)																

FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)

date	18-Jun-22	time	2.50	3.56	4.58	5.58	6.60	7.64	8.68	9.72	10.80	11.86		<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
reaction time	0.154	interval	7 steps	1.06	1.02	1.00	1.02	1.04	1.04	1.04	1.08	1.06	1.53			3.08	3.10	3.18
wind	-0.2 m/s	velocity	5.49	8.62	8.96	9.14	8.96	8.79	8.79	8.79	8.46	8.62	9.16	8.22		8.90	8.85	8.62

Edwards, Eric (USA) (2000)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2023 Meeting de Paris (Paris, FRA)

Omega Timing (2023) - diamond league race analysis

date	09-Jun-23	time	2.39	3.46	4.50	5.53	6.56	7.60	8.64	9.69	10.75	11.81		13.39	2 / 4			
reaction time	0.149	interval		1.07	1.04	1.03	1.03	1.04	1.04	1.05	1.06	1.06	1.58			3.14	3.11	3.17
wind	-2.0 m/s	velocity	5.74	8.54	8.79	8.87	8.87	8.79	8.79	8.70	8.62	8.62	8.87	8.22		8.73	8.82	8.65

Manga, Aurel (FRA) (1992)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2023 French National Championships (Albi, FRA) (TV Analysis)

Henson (2023) - Athlete First: 2023 year end hurdle report

date	29-Jul-23	time	2.52	3.56	4.62	5.62	6.64	7.64	8.68	9.72	10.78	11.84		13.39	7 / 5			
reaction time	0.166	interval	7 steps	1.04	1.06	1.00	1.02	1.00	1.04	1.04	1.06	1.06	1.55			3.10	3.06	3.16
wind	2.3 m/s	velocity	5.44	8.79	8.62	9.14	8.96	9.14	8.79	8.79	8.62	8.62	9.05	8.22		8.85	8.96	8.68

Bennett, Orlando (JAM) (1999)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

Henson (2023) - Athlete First: 2023 year end hurdle report

date	20-Aug-23	time	2.53	3.62	4.66	5.70	6.73	7.76	8.80	9.83	10.88	11.93		13.39	9 / 5			
reaction time	0.140	interval		1.09	1.04	1.04	1.03	1.03	1.04	1.03	1.05	1.05	1.46			3.17	3.10	3.13
wind	-0.6 m/s	velocity	5.42	8.39	8.79	8.79	8.87	8.87	8.79	8.87	8.70	8.70	9.60	8.22		8.65	8.85	8.76

Cunningham, Trey (USA) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)

Henson (2024) - Athlete First: 2024 year end hurdle report

date	28-Jun-24	time	2.54	3.54	4.56	5.54	6.58	7.61	8.68	9.69	10.76	11.85		13.39	2 / 9			
reaction time		interval	7 steps	1.00	1.02	0.98	1.04	1.03	1.07	1.01	1.07	1.09	1.54			3.00	3.14	3.17
wind	2.0 m/s	velocity	5.40	9.14	8.96	9.33	8.79	8.87	8.54	9.05	8.54	8.39	9.10	8.22		9.14	8.73	8.65

Yokochi, Taiga (JPN) (2000)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 Japanese National Championships (Niigata, JPN)

Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season

date	30-Jun-24	time	2.64	3.70	4.73	5.73	6.76	7.78	8.81	9.86	10.91	12.00		13.39	9 / 3			
reaction time	0.159	interval	7 steps	1.06	1.03	1.00	1.03	1.02	1.03	1.05	1.05	1.09	1.39			3.09	3.08	3.19
wind	0.2 m/s	velocity	5.20	8.62	8.87	9.14	8.87	8.96	8.87	8.70	8.70	8.39	10.09	8.22		8.87	8.90	8.60

Parchment, Hansle (JAM) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 Olympic Games (Paris, FRA)

Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season

date	08-Aug-24	time	2.60	3.67	4.69	5.70	6.73	7.75	8.78	9.81	10.84	11.91		13.39	2 / 8			
reaction time	0.144	interval	7 steps	1.07	1.02	1.01	1.03	1.02	1.03	1.03	1.03	1.07	1.48			3.10	3.08	3.13
wind	-0.1 m/s	velocity	5.28	8.54	8.96	9.05	8.87	8.96	8.87	8.87	8.87	8.54	9.47	8.22		8.85	8.90	8.76

Izumiyu, Shunsuke (JPN) (2000)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2025 Xiamen Diamond League (Xiamen, CHN)

Omega Timing (2025) - diamond league race analysis

date	26-Apr-25	time	2.42	3.48	4.51	5.53	6.54	7.60	8.65	9.68	10.72	11.79		13.39	10 / 8			
reaction time	0.152	interval	7 steps	1.06	1.03	1.02	1.01	1.06	1.05	1.03	1.04	1.07	1.60			3.11	3.12	3.14
wind	0.3 m/s	velocity	5.67	8.62	8.87	8.96	9.05	8.62	8.70	8.87	8.79	8.54	8.76	8.22		8.82	8.79	8.73

Vander-Kuyp, Kyle (AUS) (1971)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1996 Olympic Games (Atlanta, GA)

Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016

date	26-Jul-96	time	2.40	3.46	4.54	5.58	6.64	7.61	8.68	9.64	10.78	11.83		13.40	2 / 7			
reaction time	0.160	interval		1.06	1.08	1.04	1.06	0.97	1.07	0.96	1.14	1.05	1.57			3.18	3.10	3.15
wind	0.8 m/s	velocity	5.72	8.62	8.46	8.79	8.62	9.42	8.54	9.52	8.02	8.70	8.93	8.21		8.62	8.85	8.70

Garcia, Anier (CUB) (1976)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 6 - 1999 IAAF World Championships (Sevilla, ESP)

Sanchez (1999) - Sevilla '99: análisis de la carreras con villas

date	23-Aug-99	time	2.53	3.54	4.54	5.55	6.55	7.56	8.59	9.63	10.71	11.80		13.40	1 / 1			
reaction time	0.155	interval		1.01	1.00	1.01	1.00	1.01	1.03	1.04	1.08	1.09	1.60			3.02	3.04	3.21
wind	0.0 m/s	velocity	5.42	9.05	9.14	9.05	9.14	9.05	8.87	8.79	8.46	8.39	8.76	8.21		9.08	9.02	8.54

Batte, Erick (CUB) (1974)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)

Sanchez (1999) - Sevilla '99: análisis de la carreras con villas

date	24-Aug-99	time	2.54	3.58	4.60	5.64	6.64	7.66	8.67	9.72	10.76	11.86		13.40	7 / 6			
reaction time	0.136	interval		1.04	1.02	1.04	1.00	1.02	1.01	1.05	1.04	1.10	1.54			3.10	3.03	3.19
wind	0.0 m/s	velocity	5.40	8.79	8.96	8.79	9.14	8.96	9.05	8.70	8.79	8.31	9.10	8.21		8.85	9.05	8.60

Schwarthoff, Florian (GER) (1968)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2000 ISTAF (Berlin, GER)

Graubner (2009) - http://www.fgs.uni-halle.de

date	01-Sep-00	time	2.56	3.62	4.68	5.70	6.70	7.75	8.78	9.82	10.86	11.96		13.40	1 / 3			
reaction time	0.148	interval		1.06	1.06	1.02	1.00	1.05	1.03	1.04	1.04	1.10	1.44			3.14	3.08	3.18
wind	-0.4 m/s	velocity	5.36	8.62	8.62	8.96	9.14	8.70	8.87	8.79	8.79	8.31	9.74	8.21		8.73	8.90	8.62

Trammell, Terrence (USA) (1978)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2007 IAAF World Championships (Osaka, JPN)

Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles

date	29-Aug-07	time	2.63	3.66	4.73	5.75	6.77	7.79	8.84	9.91	10.96	12.01	13.40	5 / 1			
reaction time	0.223	interval		1.03	1.07	1.02	1.02	1.02	1.05	1.07	1.05	1.05	1.39		3.12	3.09	3.17
wind	0.4 m/s	velocity	5.22	8.87	8.54	8.96	8.96	8.96	8.70	8.54	8.70	8.70	10.09	8.21	8.79	8.87	8.65
Yin Jing (CHN) (1988)																	
FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)																	
Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles																	
date	29-Apr-09	time	2.60	3.67	4.70	5.73	6.75	7.77	8.81	9.86	10.90	11.96	13.40	/ 1			
reaction time		interval		1.07	1.03	1.03	1.02	1.02	1.04	1.05	1.04	1.06	1.44	PB	3.13	3.08	3.15
wind	1.9 m/s	velocity	5.28	8.54	8.87	8.87	8.96	8.96	8.79	8.70	8.79	8.62	9.74	8.21	8.76	8.90	8.70
Sands, Shamar (BAH) (1985)																	
FINAL - 2009 Osaka Grand Prix (Osaka, JPN)																	
Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles																	
date	09-May-09	time	2.55	3.59	4.60	5.63	6.62	7.65	8.71	9.76	10.84	11.94	13.40	/ 1			
reaction time		interval		1.04	1.01	1.03	0.99	1.03	1.06	1.05	1.08	1.10	1.46	NR	3.08	3.08	3.23
wind	0.2 m/s	velocity	5.38	8.79	9.05	8.87	9.23	8.87	8.62	8.70	8.46	8.31	9.60	8.21	8.90	8.90	8.49
Thomas, Dwight (JAM) (1980)																	
FINAL - 2010 Colorful Daegu Meeting (Daegu, KOR)																	
Hong (2018) - performance of men's 110m hurdles using rhythmic units																	
date	19-May-10	time	2.65	3.73	4.73	5.73	6.75	7.78	8.83	9.86	10.93	11.99	13.40	/ 3			
reaction time	0.161	interval		1.08	1.00	1.00	1.02	1.03	1.05	1.03	1.07	1.06	1.41		3.08	3.10	3.16
wind	-0.2 m/s	velocity	5.18	8.46	9.14	9.14	8.96	8.87	8.70	8.87	8.54	8.62	9.94	8.21	8.90	8.85	8.68
Brathwaite, Ryan (BAR) (1988)																	
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)																	
Henson (2020) - Athlete First: 2012 Aries Merritt world record season																	
date	08-Aug-12	time	2.48	3.56	4.60	5.62	6.62	7.66	8.70	9.78	10.82	11.90	13.40	8 / 5			
reaction time	0.163	interval		1.08	1.04	1.02	1.00	1.04	1.04	1.08	1.04	1.08	1.50		3.14	3.08	3.20
wind	-0.3 m/s	velocity	5.53	8.46	8.79	8.96	9.14	8.79	8.79	8.46	8.79	8.46	9.35	8.21	8.73	8.90	8.57
Cabral, Johnathan (CAN) (1992)																	
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)																	
Henson (2020) - Athlete First: 2016 year end hurdle report																	
date	16-Aug-16	time	2.58	3.64	4.68	5.72	6.74	7.76	8.80	9.84	10.88	11.96	13.40	2 / 6			
reaction time	0.146	interval	7 steps	1.06	1.04	1.04	1.02	1.02	1.04	1.04	1.04	1.08	1.44		3.14	3.08	3.16
wind	0.2 m/s	velocity	5.32	8.62	8.79	8.79	8.96	8.96	8.79	8.79	8.79	8.46	9.74	8.21	8.73	8.90	8.68
Oliver, David (USA) (1982)																	
FINAL - 2016 Athletissima (Lausanne, SUI) (TV Analysis)																	
Henson (2020) - Athlete First: 2016 year end hurdle report																	
date	25-Aug-16	time	2.52	3.56	4.58	5.60	6.60	7.64	8.68	9.72	10.78	11.84	13.40	3 / 7			
reaction time	0.146	interval	7 steps	1.04	1.02	1.02	1.00	1.04	1.04	1.04	1.06	1.06	1.56		3.08	3.08	3.16
wind	0.5 m/s	velocity	5.44	8.79	8.96	8.96	9.14	8.79	8.79	8.79	8.62	8.62	8.99	8.21	8.90	8.90	8.68
Oliver, David (USA) (1982)																	
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)																	
Henson (2020) - Athlete First: 2017 year end hurdle report																	
date	27-May-17	time	2.48	3.56	4.58	5.60	6.62	7.64	8.68	9.72	10.78	11.86	13.40	7 / 7			
reaction time	0.172	interval	7 steps	1.08	1.02	1.02	1.02	1.02	1.04	1.04	1.06	1.08	1.54		3.12	3.08	3.18
wind	0.9 m/s	velocity	5.53	8.46	8.96	8.96	8.96	8.96	8.79	8.79	8.62	8.46	9.10	8.21	8.79	8.90	8.62
Masuno, Genta (JPN) (1993)																	
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)																	
(2017) - tfdata-store.com/2017/07/13/post-1040/																	
date	24-Jun-17	time	2.60	3.65	4.68	5.70	6.72	7.75	8.80	9.85	10.92	11.99	13.40	8 / 1			
reaction time	0.156	interval		1.05	1.03	1.02	1.02	1.03	1.05	1.05	1.07	1.07	1.41	PB	3.10	3.10	3.19
wind	0.0 m/s	velocity	5.28	8.70	8.87	8.96	8.96	8.87	8.70	8.70	8.54	8.54	9.94	8.21	8.85	8.85	8.60
Harris, Aleec (USA) (1990)																	
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)																	
Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles																	
date	06-Aug-17	time	2.41	3.49	4.53	5.56	6.60	7.62	8.66	9.70	10.75	11.82	13.40	8 / 6			
reaction time	0.140	interval		1.08	1.04	1.03	1.04	1.02	1.04	1.04	1.05	1.07	1.58		3.15	3.10	3.16
wind	0.2 m/s	velocity	5.69	8.46	8.79	8.87	8.79	8.96	8.79	8.79	8.70	8.54	8.87	8.21	8.70	8.85	8.68
Allen, Devon (USA) (1994)																	
FINAL - 2017 Müller Grand Prix (Birmingham, GBR) (TV Analysis)																	
Henson (2020) - Athlete First: 2017 year end hurdle report																	
date	20-Aug-17	time	2.52	3.56	4.58	5.58	6.62	7.62	8.68	9.74	10.78	11.86	13.40	9 / 3			
reaction time	0.119	interval		1.04	1.02	1.00	1.04	1.00	1.06	1.06	1.04	1.08	1.54		3.06	3.10	3.18
wind	-0.6 m/s	velocity	5.44	8.79	8.96	9.14	8.79	9.14	8.62	8.62	8.79	8.46	9.10	8.21	8.96	8.85	8.62
Higuchi, Rikuto (JPN) (1999)																	
U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN) (99cm)																	
(2017.10.10) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																	
date	08-Oct-17	time	2.62	3.68	4.70	5.74	6.77	7.81	8.84	9.87	10.93	11.99	13.40	5 / 1			
reaction time	0.172	interval		1.06	1.02	1.04	1.03	1.04	1.03	1.03	1.06	1.06	1.41	PB	3.12	3.10	3.15
wind	-0.1 m/s	velocity	5.24	8.62	8.96	8.79	8.87	8.79	8.87	8.87	8.62	8.62	9.94	8.21	8.79	8.85	8.70
Ning Xiaohan (CHN) (2000)																	
FINAL - 2018 Chinese National U20 Championships (Nanchang, CHN) (99.1cm)																	
Zhang (2019) - comparative analysis characteristics Chinese elite 110m hurdles in different age																	
date	13-May-18	time	2.63	3.69	4.74	5.79	6.84	7.89	8.93	10.00	11.07	12.17	13.40	5 / 1			

reaction time		interval	1.06	1.05	1.05	1.05	1.05	1.04	1.07	1.07	1.10	1.23			3.16	3.14	3.24
wind	1.0 m/s	velocity	5.22	8.62	8.70	8.70	8.70	8.79	8.54	8.54	8.31	11.40	8.21		8.68	8.73	8.46

Eaton, Jarret (USA) (1989)

Anton, Jarret (USA) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Meeting de Paris (Paris, FRA) (TV Analysis)													Henson (2020) - Athlete First: 2018 year end hurdle report				
date	30-Jun-18	time	2.44	3.48	4.52	5.54	6.54	7.58	8.60	9.64	10.74	11.84	13.40	2 / 5			
reaction time	0.129	interval	7 steps	1.04	1.04	1.02	1.00	1.04	1.02	1.04	1.10	1.10	1.56		3.10	3.06	3.24
wind	1.5 m/s	velocity	5.62	8.79	8.79	8.96	9.14	8.79	8.96	8.79	8.31	8.31	8.99	8.21	8.85	8.96	8.46

Alkana, Antonio (RSA) (1990)

Kana, Antonio (RSA) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)													Henson (2020) - Athlete First: 2018 year end hurdle report				
date	22-Jul-18	time	2.52	3.56	4.58	5.60	6.62	7.66	8.70	9.74	10.84	11.94	13.40	7 / 5			
reaction time	0.140	interval		1.04	1.02	1.02	1.02	1.04	1.04	1.04	1.10	1.10	1.46		3.08	3.10	3.24
wind	0.2 m/s	velocity	5.44	8.79	8.96	8.96	8.96	8.79	8.79	8.79	8.31	8.31	9.60	8.21	8.90	8.85	8.46

Xie Wenjun (CHN) (1990)

e Wenjun (CHN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Chinese National Championships (Taiyuan, CHN)															Henson (2018) - coaching observations		
date	16-Sep-18	time	2.59	3.64	4.67	5.71	6.72	7.76	8.77	9.83	10.88	11.96	13.40	6 / 1			
reaction time		interval	7 steps	1.05	1.03	1.04	1.01	1.04	1.01	1.06	1.05	1.08	1.44		3.12	3.06	3.19
wind	-0.3 m/s	velocity	5.30	8.70	8.87	8.79	9.05	8.79	9.05	8.62	8.70	8.46	9.74	8.21	8.79	8.96	8.60

Joseph, Jason (SUI) (1998)

Joseph, Jason (SUI) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)													Henson (2020) - Athlete First: 2020 year end hurdle report					
date	25-Sep-20	time	2.56	3.64	4.68	5.70	6.72	7.76	8.80	9.82	10.82	11.88		13.40	3 / 2			
reaction time	0.196	interval	7 steps	1.08	1.04	1.02	1.02	1.04	1.04	1.02	1.00	1.06	1.52		3.14	3.10	3.08	
wind	0.3 m/s	velocity	5.36	8.46	8.79	8.96	8.96	8.79	8.79	8.96	9.14	8.62	9.22	8.21	8.73	8.85	8.90	

Kanai, Taio (JPN) (1995)

Tanai, Taio (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Fuse Sprint (Tottori, JPN)												Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season					
date	06-Jun-21	time	2.55	3.58	4.62	5.65	6.68	7.71	8.76	9.81	10.88	11.96	13.40	4 / 1			
reaction time	0.128	interval	7 steps	1.03	1.04	1.03	1.03	1.03	1.05	1.05	1.07	1.08	1.44		3.10	3.11	3.20
wind	1.8 m/s	velocity	5.38	8.87	8.79	8.87	8.87	8.87	8.70	8.70	8.54	8.46	9.74	8.21	8.85	8.82	8.57

Dal Molin, Paolo (ITA) (1987)

Al Molin, Paolo (ITA) (1987)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													Henson (2024) - Athlete First: 2021 year end hurdle report				
date	04-Aug-21	time	2.51	3.56	4.59	5.64	6.68	7.71	8.75	9.86	10.91	12.04	13.40	9 / 4			
reaction time	0.133	interval	7 steps	1.05	1.03	1.05	1.04	1.03	1.04	1.11	1.05	1.13	1.36		3.13	3.11	3.29
wind	0.1 m/s	velocity	5.47	8.70	8.87	8.70	8.79	8.87	8.79	8.23	8.70	8.09	10.31	8.21	8.76	8.82	8.33

Szücs, Valdó (HUN) (1995)

Czúcs, Valdo (HUN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													Henson (2024) - Athlete First: 2021 year end hurdle report				
date	04-Aug-21	time	2.52	3.61	4.64	5.64	6.65	7.69	8.73	9.81	10.84	11.92	13.40	9 / 4			
reaction time	0.140	interval	7 steps	1.09	1.03	1.00	1.01	1.04	1.04	1.08	1.03	1.08	1.48		3.12	3.09	3.19
wind	-0.1 m/s	velocity	5.44	8.39	8.87	9.14	9.05	8.79	8.79	8.46	8.87	8.46	9.47	8.21	8.79	8.87	8.60

Levy, Ronald (JAM) (1992)

avy, Ronald (JAM) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Athletissima (Lausanne, SUI) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report				
date	26-Aug-21	time	2.48	3.56	4.60	5.64	6.68	7.70	8.72	9.76	10.80	11.86	13.40	4 / 5			
reaction time	0.113	interval	7 steps	1.08	1.04	1.04	1.04	1.02	1.02	1.04	1.04	1.06	1.54		3.16	3.08	3.14
wind	2.5 m/s	velocity	5.53	8.46	8.79	8.79	8.79	8.96	8.96	8.79	8.79	8.62	9.10	8.21	8.68	8.90	8.73

Manga, Aurel (FRA) (1992)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)																
date	28-Aug-21	time	2.44	3.50	4.54	5.58	6.60	7.62	8.64	9.70	10.76	11.84		<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>		
													13.40			
reaction time	0.154	interval	7 steps	1.06	1.04	1.04	1.02	1.02	1.06	1.06	1.08	1.56		3.14	3.06	3.20
wind	0.7 m/s	velocity	5.62	8.62	8.79	8.79	8.96	8.96	8.62	8.62	8.46	8.99	8.21	8.73	8.96	8.57

Brathwaite, Shane (BAR) (1990)

athwaite, Shane (BAR) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)												Henson (2022) - Athlete First: 2022 year end hurdle report					
date	12-Jun-22	time	2.52	3.57	4.60	5.62	6.63	7.63	8.68	9.72	10.78	11.84		13.40	8 / 5		
reaction time	0.133	interval		1.05	1.03	1.02	1.01	1.00	1.05	1.04	1.06	1.06	1.56		3.10	3.06	3.16
wind	1.6 m/s	velocity	5.44	8.70	8.87	8.96	9.05	9.14	8.70	8.79	8.62	8.62	8.99	8.21	8.85	8.96	8.68

Thomas, Damion (JAM) (1999)

Thomas, Damion (JAM) (1999)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)																	
Henson (2022) - Athlete First: 2022 year end hurdle report																	
date	12-Jun-22	time	2.52	3.56	4.57	5.58	6.61	7.63	8.70	9.75	10.82	11.90		13.40		7 / 6	
reaction time	0.149	interval	7 steps	1.04	1.01	1.01	1.03	1.02	1.07	1.05	1.07	1.08	1.50		3.06	3.12	3.20
wind	1.6 m/s	velocity	5.44	8.79	9.05	9.05	8.87	8.96	8.54	8.70	8.54	8.46	9.35	8.21	8.96	8.79	8.57

Mallett, Aaron (USA) (1994)

Allott, Aaron (USA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)														Henson (2022) - Athlete First: 2022 year end hurdle report			
date	16-Jun-22	time	2.52	3.58	4.62	5.62	6.62	7.66	8.68	9.74	10.80	11.88	13.40	1 / 4			
reaction time	0.173	interval	7 steps	1.06	1.04	1.00	1.00	1.04	1.02	1.06	1.06	1.08	1.52		3.10	3.06	3.20

wind -1.2 m/s velocity 5.44 8.62 8.79 9.14 9.14 8.79 8.96 8.62 8.62 8.46 9.22 8.21 8.85 8.96 8.57

Martinot Lagarde, Pascal (FRA) (199)															
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															
date	17-Jul-22	time	2.50	3.59	4.60	5.63	6.63	7.66	8.70	9.76	10.83	11.90		13.40	1 / 4
reaction time	0.129	interval	7 steps	1.06	1.04	1.03	1.00	1.03	1.04	1.06	1.07	1.07	1.50		3.13 3.07 3.20
wind	0.3 m/s	velocity	5.49	8.62	8.79	8.87	9.14	8.87	8.79	8.62	8.54	8.54	9.35	8.21	8.76 8.93 8.57

Dunning, Robert (USA) (1997)															
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)															
date	09-Jul-23	time	2.53	3.57	4.61	5.62	6.64	7.67	8.71	9.75	10.81	11.89		13.40	2 / 7
reaction time		interval	7 steps	1.06	1.01	1.02	1.02	1.03	1.04	1.04	1.06	1.08	1.51		3.09 3.09 3.18
wind	-0.2 m/s	velocity	5.42	8.62	9.05	8.96	8.96	8.87	8.79	8.79	8.62	8.46	9.28	8.21	8.87 8.87 8.62

Zeller, Joshua (GBR) (2000)															
Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)															
date	16-Jul-23	time	2.49	3.57	4.61	5.64	6.65	7.67	8.70	9.74	10.78	11.83		13.40	8 / 6
reaction time	0.156	interval		1.08	1.04	1.03	1.01	1.02	1.03	1.04	1.04	1.05	1.57		3.15 3.06 3.13
wind	0.3 m/s	velocity	5.51	8.46	8.79	8.87	9.05	8.96	8.87	8.79	8.79	8.70	8.93	8.21	8.70 8.96 8.76

Crittenden, Freddie (USA) (1994)															
Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															
date	20-Aug-23	time	2.56	3.60	4.63	5.65	6.66	7.72	8.75	9.80	10.86	11.95		13.40	3 / 2
reaction time	0.148	interval		1.04	1.03	1.02	1.01	1.06	1.03	1.05	1.06	1.09	1.45		3.09 3.10 3.20
wind	0.0 m/s	velocity	5.36	8.79	8.87	8.96	9.05	8.62	8.87	8.70	8.62	8.39	9.67	8.21	8.87 8.85 8.57

Dunning, Robert (USA) (1997)															
FINAL - 2024 Atlanta City Games (Atlanta, GA) (Street Race) (TV Analysis)															
date	18-May-24	time	2.55	3.61	4.65	5.68	6.68	7.71	8.71	9.75	10.81	11.90		13.40	1 / 2
reaction time		interval	7 steps	1.06	1.04	1.03	1.00	1.03	1.00	1.04	1.06	1.09	1.50		3.13 3.03 3.19
wind	-0.7 m/s	velocity	5.38	8.62	8.79	8.87	9.14	8.87	9.14	8.79	8.62	8.39	9.35	8.21	8.76 9.05 8.60

Xu Zhuoyi (CHN) (2003)															
Heat 3 - 2024 Olympic Games (Paris, FRA)															
date	04-Aug-24	time	2.46	3.55	4.59	5.62	6.63	7.65	8.67	9.68	10.73	11.79		13.40	7 / 1
reaction time	0.159	interval	7 steps	1.09	1.04	1.03	1.01	1.02	1.02	1.01	1.05	1.06	1.61		3.16 3.05 3.12
wind	1.1 m/s	velocity	5.58	8.39	8.79	8.87	9.05	8.96	8.96	9.05	8.70	8.62	8.71	8.21	8.68 8.99 8.79

Zhoya, Sasha (FRA) (2002)															
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)															
date	25-Aug-24	time	2.39	3.46	4.49	5.49	6.49	7.52	8.57	9.65	10.73	11.83		13.40	1 / 6
reaction time	0.138	interval	7 steps	1.07	1.03	1.00	1.00	1.03	1.05	1.08	1.08	1.10	1.57		3.10 3.08 3.26
wind	1.1 m/s	velocity	5.74	8.54	8.87	9.14	9.14	8.87	8.70	8.46	8.46	8.31	8.93	8.21	8.85 8.90 8.41

Munkelt, Thomas (GDR) (1952)															
FINAL - 1982 European Championships (Athens, GRE)															
date	11-Sep-82	time	2.58		4.70		6.77		8.84		11.98			13.41	1 / 1
reaction time		interval			2.12		2.07		2.07		3.14	1.43			3.14
wind	-0.9 m/s	velocity	5.32		8.62		8.83		8.83		8.73	9.80	8.20		8.73

Foster, Greg (USA) (1958)															
Semi-Final 1 - 1987 IAAF World Championships (Rome, ITA)															
date	01-Sep-87	time	2.60	3.65	4.68	5.70	6.72	7.76	8.79	9.85	10.93	11.99		13.41	6 / 2
reaction time		interval		1.05	1.03	1.02	1.02	1.04	1.03	1.06	1.08	1.06	1.42		3.10 3.09 3.20
wind	-0.5 m/s	velocity	5.28	8.70	8.87	8.96	8.96	8.79	8.87	8.62	8.46	8.62	9.87	8.20	8.85 8.87 8.57

Valle, Emilio (CUB) (1967)															
FINAL - 1992 Olympic Games (Barcelona, ESP)															
date	03-Aug-92	time	2.60	3.68	4.71	5.74	6.75	7.78	8.82	9.86	10.93	12.02		13.41	2 / 6
reaction time	0.171	interval		1.08	1.03	1.03	1.01	1.03	1.04	1.04	1.07	1.09	1.39		3.14 3.08 3.20
wind	0.8 m/s	velocity	5.28	8.46	8.87	8.87	9.05	8.87	8.79	8.79	8.54	8.39	10.09	8.20	8.73 8.90 8.57

Chen Yanhao (CHN) (1972)															
FINAL - 1997 Chinese National Games (Shanghai, CHN)															
date	19-Oct-97	time	2.52	3.57	4.63	5.66	6.67	7.70	8.82	9.84	10.99	11.96		13.41	1 / 1
reaction time		interval		1.05	1.06	1.03	1.01	1.03	1.12	1.02	1.15	0.97	1.45		3.14 3.16 3.14
wind	0.0 m/s	velocity	5.44	8.70	8.62	8.87	9.05	8.87	8.16	8.96	7.95	9.42	9.67	8.20	8.73 8.68 8.73

Jackson, Colin (GBR) (1967)															
Heat 1 - 2002 European Championships (Munich, GER)															
date	09-Aug-02	time	2.59	3.63	4.66	5.67	6.69	7.72	8.75	9.79	10.85	11.95		13.41	1 / 1
reaction time	0.107	interval		1.04	1.03	1.01	1.02	1.03	1.03	1.04	1.06	1.10	1.46		3.08 3.08 3.20
wind	-0.9 m/s	velocity	5.30	8.79	8.87	9.05	8.96	8.87	8.87	8.79	8.62	8.31	9.60	8.20	8.90 8.90 8.57

John, Alexander (GER) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2009 IAAF World Championships (Berlin, GER)																	
Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																	
date	19-Aug-09	time	2.63	3.70	4.75	5.81	6.84	7.88	8.93	9.96	11.01	12.08	13.41	5 / 2			
reaction time	0.114	interval		1.07	1.05	1.06	1.03	1.04	1.05	1.03	1.05	1.07	1.33		3.18	3.12	3.15
wind	0.5 m/s	velocity	5.22	8.54	8.70	8.62	8.87	8.79	8.70	8.87	8.70	8.54	10.54	8.20	8.62	8.79	8.70
Ji Wei (CHN) (1984)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)																	
Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																	
date	20-Aug-09	time	2.64	3.71	4.74	5.77	6.79	7.82	8.84	9.89	10.95	12.01	13.41	4 / 3			
reaction time	0.147	interval		1.07	1.03	1.03	1.02	1.03	1.02	1.05	1.06	1.06	1.40		3.13	3.07	3.17
wind	0.9 m/s	velocity	5.20	8.54	8.87	8.87	8.96	8.87	8.96	8.70	8.62	8.62	10.01	8.20	8.76	8.93	8.65
Akins, Ty (USA) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 Folsam GP (Göteborg, SWE)																	
Blomkvist (2011) - www.sub13.se																	
date	11-Jun-11	time	2.44	3.48	4.52	5.56	6.60	7.64	8.68	9.72	10.76	11.84	13.41	/ 1			
reaction time		interval		1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.08	1.57		3.12	3.12	3.16
wind	0.6 m/s	velocity	5.62	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.46	8.93	8.20	8.79	8.79	8.68
Townsend, Fred (USA) (1982)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 Windsprint (Sundsvall, SWE)																	
Blomkvist (2011) - www.sub13.se																	
date	31-Jul-11	time	2.62	3.68	4.71	5.75	6.76	7.78	8.83	9.87	10.93	11.99	13.41	/ 1			
reaction time		interval		1.06	1.03	1.04	1.01	1.02	1.05	1.04	1.06	1.06	1.42		3.13	3.08	3.16
wind	2.8 m/s	velocity	5.24	8.62	8.87	8.79	9.05	8.96	8.70	8.79	8.62	8.62	9.87	8.20	8.76	8.90	8.68
Trajkovic, Milan (CYP) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)																	
Henson (2020) - Athlete First: 2016 year end hurdle report																	
date	16-Aug-16	time	2.50	3.56	4.62	5.64	6.66	7.72	8.76	9.82	10.88	11.94	13.41	8 / 7			
reaction time	0.136	interval	7 steps	1.06	1.06	1.02	1.02	1.06	1.04	1.06	1.06	1.06	1.47		3.14	3.12	3.18
wind	0.2 m/s	velocity	5.49	8.62	8.62	8.96	8.96	8.62	8.79	8.62	8.62	8.62	9.54	8.20	8.73	8.79	8.62
Traber, Gregor (GER) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)																	
Henson (2020) - Athlete First: 2017 year end hurdle report																	
date	13-May-17	time	2.56	3.60	4.62	5.62	6.66	7.68	8.70	9.76	10.82	11.94	13.41	9 / 7			
reaction time	0.150	interval	7 steps	1.04	1.02	1.00	1.04	1.02	1.02	1.06	1.06	1.12	1.47		3.06	3.08	3.24
wind	0.5 m/s	velocity	5.36	8.79	8.96	9.14	8.79	8.96	8.96	8.62	8.62	8.16	9.54	8.20	8.96	8.90	8.46
McLeod, Omar (JAM) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Meeting de Paris (Paris, FRA) (TV Analysis)																	
Henson (2020) - Athlete First: 2017 year end hurdle report																	
date	01-Jul-17	time	2.48	3.52	4.54	5.56	6.56	7.56	8.58	9.62	10.70	11.82	13.41	5 / 7			
reaction time	0.122	interval		1.04	1.02	1.02	1.00	1.00	1.02	1.04	1.08	1.12	1.59		3.08	3.02	3.24
wind	-0.1 m/s	velocity	5.53	8.79	8.96	8.96	9.14	9.14	8.96	8.79	8.46	8.16	8.82	8.20	8.90	9.08	8.46
Levy, Ronald (JAM) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Memorial van Damme (Brussels, BEL) (TV Analysis)																	
Henson (2020) - Athlete First: 2017 year end hurdle report																	
date	01-Sep-17	time	2.54	3.58	4.62	5.62	6.64	7.68	8.72	9.78	10.86	11.92	13.41	8 / 5			
reaction time	0.108	interval	7 steps	1.04	1.04	1.00	1.02	1.04	1.04	1.06	1.08	1.06	1.49		3.08	3.10	3.20
wind	0.5 m/s	velocity	5.40	8.79	8.79	9.14	8.96	8.79	8.79	8.62	8.46	8.62	9.41	8.20	8.90	8.85	8.57
McLeod, Omar (JAM) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Athletissima (Lausanne, SUI) (TV Analysis)																	
Henson (2020) - Athlete First: 2018 year end hurdle report																	
date	05-Jul-18	time	2.57	3.59	4.61	5.60	6.61	7.62	8.63	9.66	10.81	11.95	13.41	5 / 5			
reaction time	0.134	interval		1.02	1.02	0.99	1.01	1.01	1.01	1.03	1.15	1.14	1.46		3.03	3.03	3.32
wind	0.6 m/s	velocity	5.34	8.96	8.96	9.23	9.05	9.05	9.05	8.87	7.95	8.02	9.60	8.20	9.05	9.05	8.26
Brathwaite, Shane (BAR) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)																	
Henson (2020) - Athlete First: 2018 year end hurdle report																	
date	22-Jul-18	time	2.56	3.62	4.66	5.68	6.70	7.74	8.78	9.84	10.88	11.96	13.41	9 / 6			
reaction time	0.119	interval	7 steps	1.06	1.04	1.02	1.02	1.04	1.04	1.06	1.04	1.08	1.45		3.12	3.10	3.18
wind	0.2 m/s	velocity	5.36	8.62	8.79	8.96	8.96	8.79	8.79	8.62	8.79	8.46	9.67	8.20	8.79	8.85	8.62
Constantino, Gabriel (BRA) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)																	
Henson (2020) - Athlete First: 2018 year end hurdle report																	
date	18-Aug-18	time	2.48	3.52	4.56	5.58	6.60	7.62	8.66	9.70	10.78	11.88	13.41	8 / 6			
reaction time	0.126	interval	7 steps	1.04	1.04	1.02	1.02	1.02	1.04	1.04	1.08	1.10	1.53		3.10	3.08	3.22
wind	1.3 m/s	velocity	5.53	8.79	8.79	8.96	8.96	8.96	8.79	8.79	8.46	8.31	9.16	8.20	8.85	8.90	8.52
Allen, Devon (USA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)																	
Henson (2020) - Athlete First: 2018 year end hurdle report																	
date	31-Aug-18	time	2.54	3.56	4.60	5.62	6.64	7.68	8.72	9.78	10.84	11.94	13.41	2 / 6			
reaction time	0.126	interval		1.02	1.04	1.02	1.02	1.04	1.04	1.06	1.06	1.10	1.47		3.08	3.10	3.22
wind	-0.1 m/s	velocity	5.40	8.96	8.79	8.96	8.96	8.79	8.79	8.62	8.62	8.31	9.54	8.20	8.90	8.85	8.52

Trajkovic, Milan (CYP) (1992)																
FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)																
date	18-May-19	time	2.60	3.68	4.70	5.70	6.72	7.74	8.76	9.80	10.84	11.94		13.41	9 / 7	
reaction time	0.145	interval	7 steps	1.08	1.02	1.00	1.02	1.02	1.02	1.04	1.04	1.10	1.47		3.10	3.06
wind	0.7 m/s	velocity	5.28	8.46	8.96	9.14	8.96	8.96	8.96	8.79	8.79	8.31	9.54	8.20	8.85	8.96
Constantino, Gabriel (BRA) (1995)																
FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)																
date	16-Jun-19	time	2.54	3.58	4.60	5.64	6.68	7.70	8.72	9.76	10.82	11.90		13.41	2 / 3	
reaction time	0.177	interval	7 steps	1.04	1.02	1.04	1.04	1.02	1.02	1.04	1.06	1.08	1.51		3.10	3.08
wind	0.3 m/s	velocity	5.40	8.79	8.96	8.79	8.79	8.96	8.96	8.79	8.62	8.46	9.28	8.20	8.85	8.90
Gilbert, Tre'Bien (USA) (1999)																
Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)																
date	26-Jun-21	time	2.50	3.58	4.60	5.61	6.63	7.64	8.71	9.76	10.80	11.92		13.41	8 / 5	
reaction time	0.191	interval	7 steps	1.08	1.02	1.01	1.02	1.01	1.07	1.05	1.04	1.12	1.49	PB	3.11	3.10
wind	1.8 m/s	velocity	5.49	8.46	8.96	9.05	8.96	9.05	8.54	8.70	8.79	8.16	9.41	8.20	8.82	8.85
Roberts, Daniel (USA) (1998)																
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	03-Aug-21	time	2.61	3.66	4.66	5.69	6.70	7.72	8.78	9.86	10.89	11.97		13.41	5 / 2	
reaction time	0.188	interval		1.05	1.00	1.03	1.01	1.02	1.06	1.08	1.03	1.08	1.44		3.08	3.09
wind	-0.1 m/s	velocity	5.26	8.70	9.14	8.87	9.05	8.96	8.62	8.46	8.87	8.46	9.74	8.20	8.90	8.87
Kanai, Taio (JPN) (1995)																
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	03-Aug-21	time	2.58	3.66	4.68	5.68	6.70	7.73	8.78	9.81	10.89	11.97		13.41	7 / 3	
reaction time	0.148	interval	7 steps	1.08	1.02	1.00	1.02	1.03	1.05	1.03	1.08	1.08	1.44		3.10	3.10
wind	-0.1 m/s	velocity	5.32	8.46	8.96	9.14	8.96	8.87	8.70	8.87	8.46	8.46	9.74	8.20	8.85	8.85
Zeller, Joshua (GBR) (2000)																
Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																
date	16-Jul-22	time	2.56	3.63	4.68	5.70	6.73	7.73	8.76	9.80	10.86	11.93		13.41	5 / 3	
reaction time	0.126	interval		1.07	1.05	1.02	1.03	1.00	1.03	1.04	1.06	1.07	1.48		3.14	3.06
wind	0.4 m/s	velocity	5.36	8.54	8.70	8.96	8.87	9.14	8.87	8.79	8.62	8.54	9.47	8.20	8.73	8.96
Cunningham, Trey (USA) (1998)																
FINAL - 2023 Adidas Atlanta City Games (Atlanta, GA) (street) (TV Analysis)																
date	05-May-23	time	2.58	3.62	4.64	5.66	6.66	7.68	8.73	9.80	10.87	11.98		13.41	2 / 4	
reaction time	0.174	interval	7 steps	1.04	1.02	1.02	1.00	1.02	1.05	1.07	1.07	1.11	1.43		3.08	3.07
wind	0.0 m/s	velocity	5.32	8.79	8.96	8.96	9.14	8.96	8.70	8.54	8.54	8.23	9.80	8.20	8.90	8.93
Simonelli, Lorenzo Ndele (ITA) (2002)																
FINAL - 2023 Athletissima (Lausanne, SUI)																
date	30-Jun-23	time	2.39	3.46	4.50	5.53	6.57	7.60	8.64	9.68	10.74	11.82		13.41	1 / 4	
reaction time	0.136	interval	7 steps	1.07	1.04	1.03	1.04	1.03	1.04	1.04	1.06	1.08	1.59		3.14	3.11
wind	-1.0 m/s	velocity	5.74	8.54	8.79	8.87	8.79	8.87	8.79	8.79	8.62	8.46	8.82	8.20	8.73	8.82
Harrold, Daniel (USA) (2000)																
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																
date	24-Jun-24	time	2.53	3.57	4.61	5.65	6.63	7.66	8.70	9.76	10.83	12.00		13.41	8 / 5	
reaction time		interval	7 steps	1.04	1.04	1.04	0.98	1.03	1.04	1.06	1.07	1.17	1.41	PB	3.12	3.05
wind	1.8 m/s	velocity	5.42	8.79	8.79	8.79	9.33	8.87	8.79	8.62	8.54	7.81	9.94	8.20	8.79	8.99
Smith, Jayden (USA) (2003)																
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																
date	27-Jun-24	time	2.49	3.55	4.60	5.64	6.67	7.71	8.75	9.81	10.88	11.96		13.41	4 / 6	
reaction time		interval	7 steps	1.06	1.05	1.04	1.03	1.04	1.04	1.06	1.07	1.08	1.45		3.15	3.11
wind	0.3 m/s	velocity	5.51	8.62	8.70	8.79	8.87	8.79	8.79	8.62	8.54	8.46	9.67	8.20	8.70	8.82
Abe, Tatsuki (JPN) (2003)																
FINAL - 2024 Japanese National Championships (Niigata, JPN)																
date	30-Jun-24	time	2.64	3.70	4.72	5.76	6.79	7.81	8.85	9.90	10.95	12.02		13.41	4 / 4	
reaction time	0.158	interval	7 steps	1.06	1.02	1.04	1.03	1.02	1.04	1.05	1.05	1.07	1.39		3.12	3.09
wind	0.2 m/s	velocity	5.20	8.62	8.96	8.79	8.87	8.96	8.79	8.70	8.70	8.54	10.09	8.20	8.79	8.87
Joseph, Jason (SUI) (1998)																
Heat 1 - 2024 Meeting de Paris (Paris, FRA)																
date	07-Jul-24	time	2.52	3.60	4.62	5.63	6.65	7.67	8.71	9.74	10.80	11.86		13.41	2 / 6	
reaction time	0.158	interval	7 steps	1.08	1.02	1.01	1.02	1.02	1.04	1.03	1.06	1.06	1.55		3.11	3.08
wind	0.1 m/s	velocity	5.44	8.46	8.96	9.05	8.96	8.96	8.79	8.87	8.62	8.62	9.05	8.20	8.82	8.90
Obasuyi, Michael (BEL) (1999)																

Heat 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	04-Aug-24	time	2.40	3.47	4.52	5.56	6.59	7.62	8.67	9.70	10.75	11.81		13.41	6 / 3			
reaction time	0.151	interval	7 steps	1.07	1.05	1.04	1.03	1.03	1.05	1.03	1.05	1.06	1.60			3.16	3.11	3.14
wind	1.2 m/s	velocity	5.72	8.54	8.70	8.79	8.87	8.87	8.70	8.87	8.70	8.62	8.76	8.20		8.68	8.82	8.73

Qin Weibo (CHN) (2002)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 1 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time	2.46	3.55	4.58	5.61	6.62	7.64	8.67	9.70	10.75	11.82		13.41	2 / 6			
reaction time	0.178	interval	7 steps	1.09	1.03	1.03	1.01	1.02	1.03	1.03	1.05	1.07	1.59			3.15	3.06	3.15
wind	0.1 m/s	velocity	5.58	8.39	8.87	8.87	9.05	8.96	8.87	8.87	8.70	8.54	8.82	8.20		8.70	8.96	8.70

Mohamed, Raphaël (FRA) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 1 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time	2.48	3.56	4.61	5.63	6.64	7.65	8.67	9.73	10.80	11.86		13.41	9 / 7			
reaction time	0.159	interval	7 steps	1.08	1.05	1.02	1.01	1.01	1.02	1.06	1.07	1.06	1.55			3.15	3.04	3.19
wind	0.1 m/s	velocity	5.53	8.46	8.70	8.96	9.05	9.05	8.96	8.62	8.54	8.62	9.05	8.20		8.70	9.02	8.60

Szymański, Jakub (POL) (2002)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)

Omega Timing (2024) - diamond league race analysis

date	25-Aug-24	time	2.43	3.47	4.46	5.46	6.46	7.46	8.48	9.52	10.61	11.71		13.41	2 / 7			
reaction time	0.182	interval	7 steps	1.04	0.99	1.00	1.00	1.00	1.02	1.04	1.09	1.10	1.70			3.03	3.02	3.23
wind	1.1 m/s	velocity	5.65	8.79	9.23	9.14	9.14	9.14	8.96	8.79	8.39	8.31	8.25	8.20		9.05	9.08	8.49

Liu Junxi (CHN) (2003)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 Chinese National Championships (Quzhou, CHN)

Shandong Athletics Sport Science (2024)

date	16-Sep-24	time	2.57	3.62	4.67	5.72	6.76	7.77	8.82	9.88	10.91	11.97		13.41	8 / 2			
reaction time	0.161	interval	7 steps	1.05	1.05	1.05	1.04	1.01	1.05	1.06	1.03	1.06	1.44			3.15	3.10	3.15
wind	0.2 m/s	velocity	5.34	8.70	8.70	8.70	8.79	9.05	8.70	8.62	8.87	8.62	9.74	8.20		8.70	8.85	8.70

Obasuyi, Michael (BEL) (1999)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Short Hurdles - 2025 Grand Slam Track Miami (Miramar, FL) (TV Analysis)

Henson (2025) - Athlete First: 2025 year end hurdle report

date	02-May-25	time	2.60	3.67	4.70	5.72	6.74	7.80	8.84	9.88	10.91	11.95		13.41	2 / 7			
reaction time	0.180	interval	7 steps	1.07	1.03	1.02	1.02	1.06	1.04	1.04	1.03	1.04	1.46			3.12	3.12	3.11
wind	1.4 m/s	velocity	5.28	8.54	8.87	8.96	8.96	8.62	8.79	8.79	8.87	8.79	9.60	8.20		8.79	8.79	8.82

Foster, Greg (USA) (1958)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1983 IAAF World Championships (Helsinki, FIN)

Knoke (1984) - the hurdles

date	12-Aug-83	time	2.58	3.68	4.62	5.62	6.61	7.61	8.60	9.61	10.68	11.81		13.42	5 / 1			
reaction time	0.191	interval		1.10	0.94	1.00	0.99	1.00	0.99	1.01	1.07	1.13	1.61			3.04	2.98	3.21
wind	1.3 m/s	velocity	5.32	8.31	9.72	9.14	9.23	9.14	9.23	9.05	8.54	8.09	8.71	8.20		9.02	9.20	8.54

Chen Yanhao (CHN) (1972)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2001 Chinese National Games (Guangzhou, CHN)

Huang (2002) - technical research on the men's 110m hurdles at the 9th national games

date	19-Nov-01	time	2.61	3.67	4.69	5.72	6.73	7.76	8.80	9.85	10.89	11.95		13.42	1 / 2			
reaction time		interval		1.06	1.02	1.03	1.01	1.03	1.04	1.05	1.04	1.06	1.47			3.11	3.08	3.15
wind	0.4 m/s	velocity	5.26	8.62	8.96	8.87	9.05	8.87	8.79	8.70	8.79	8.62	9.54	8.20		8.82	8.90	8.70

Payne, David (USA) (1982)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2006 USATF National Championships (Indianapolis, IN)

USATF Men's Hurdle Development (2006)

date	25-Jun-06	time	2.59	3.67	4.69	5.72	6.72	7.76	8.78	9.84	10.93	12.01		13.42	1 / 5			
reaction time		interval		1.08	1.02	1.03	1.00	1.04	1.02	1.06	1.09	1.08	1.41			3.13	3.06	3.23
wind	-0.4 m/s	velocity	5.30	8.46	8.96	8.87	9.14	8.79	8.96	8.62	8.39	8.46	9.94	8.20		8.76	8.96	8.49

Brown, Bryce (USA) (1988)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm)

USATF Men's Hurdle Development (2007)

date	21-Jun-07	time	2.67	3.77	4.80	5.82	6.86	7.91	8.94	9.96	11.01	12.08		13.42	1 / 3			
reaction time		interval		1.10	1.03	1.02	1.04	1.05	1.03	1.02	1.05	1.07	1.34			3.15	3.12	3.14
wind	2.7 m/s	velocity	5.14	8.31	8.87	8.96	8.79	8.70	8.87	8.96	8.70	8.54	10.46	8.20		8.70	8.79	8.73

Johnson, Allen (USA) (1971)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)

USATF Men's Hurdle Development (2007)

date	24-Jun-07	time	2.57	3.64	4.64	5.67	6.69	7.71	8.76	9.81	10.86	11.95		13.42	8 / 4			
reaction time		interval		1.07	1.00	1.03	1.02	1.02	1.05	1.05	1.05	1.09	1.47			3.10	3.09	3.19
wind	-0.6 m/s	velocity	5.34	8.54	9.14	8.87	8.96	8.96	8.70	8.70	8.70	8.39	9.54	8.20		8.85	8.87	8.60

Shi Dongpeng (CHN) (1984)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Race 2 - 2007 Athletissima Meeting (Lausanne, SUI)

Lu (2008) - 110m hurdle technical characteristics of Shi Dongpeng

date	10-Jul-07	time	2.63	3.71	4.76	5.79	6.80	7.80	8.82	9.85	10.90	11.97		13.42	1 / 8			
reaction time		interval		1.08	1.05	1.03	1.01	1.00	1.02	1.03	1.05	1.07	1.45			3.16	3.03	3.15
wind	0.0 m/s	velocity	5.22	8.46	8.70	8.87	9.05	9.14	8.96	8.87	8.70	8.54	9.67	8.20		8.68	9.05	8.70

Shi Dongpeng (CHN) (1984)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)

Graubner (2009) - biomechanical analyses at the 12th IAAF world championships

date	20-Aug-09	time	2.63	3.73	4.77	5.79	6.81	7.83	8.86	9.90	10.95	12.03	13.42	3 / 4			
reaction time	0.144	interval		1.10	1.04	1.02	1.02	1.02	1.03	1.04	1.05	1.08	1.39		3.16	3.07	3.17
wind	0.6 m/s	velocity	5.22	8.31	8.79	8.96	8.96	8.96	8.87	8.79	8.70	8.46	10.09	8.20	8.68	8.93	8.65
Vukicevic, Vladimir (NOR) (1991)																	
Junior Final - 2010 ExxonMobil Bislett Games (Oslo, NOR) (99cm)																	
date	04-Jun-10	time	2.48	3.52	4.52	5.54	6.56	7.56	8.60	9.64	10.72	11.80	13.42	4 / 2			
reaction time	0.158	interval		1.04	1.00	1.02	1.02	1.00	1.04	1.04	1.08	1.08	1.62	NJR	3.06	3.06	3.20
wind	0.3 m/s	velocity	5.53	8.79	9.14	8.96	8.96	9.14	8.79	8.79	8.46	8.46	8.65	8.20	8.96	8.96	8.57
Xie Wenjun (CHN) (1990)																	
FINAL - 2012 Chinese National Grand Prix Final (Fuzhou, CHN) Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles																	
date	24-Jun-12	time	2.64	3.70	4.76	5.78	6.80	7.84	8.88	9.92	10.98	12.06	13.42	1 / 1			
reaction time		interval		1.06	1.06	1.02	1.02	1.04	1.04	1.04	1.06	1.08	1.36	PB	3.14	3.10	3.18
wind	0.5 m/s	velocity	5.20	8.62	8.62	8.96	8.96	8.79	8.79	8.79	8.62	8.46	10.31	8.20	8.73	8.85	8.62
Brathwaite, Ryan (BAR) (1988)																	
FINAL - 2012 AVIVA Grand Prix (Birmingham, GBR) (TV Analysis)																	
date	26-Aug-12	time	2.52	3.56	4.60	5.62	6.60	7.70	8.74	9.76	10.80	11.86	13.42	7 / 5			
reaction time	0.160	interval		1.04	1.04	1.02	0.98	1.10	1.04	1.02	1.04	1.06	1.56		3.10	3.12	3.12
wind	-0.9 m/s	velocity	5.44	8.79	8.79	8.96	9.33	8.31	8.79	8.96	8.79	8.62	8.99	8.20	8.85	8.79	8.79
Martinot Lagarde, Pascal (FRA) (199)																	
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)																	
date	12-Aug-13	time	2.52	3.56	4.56	5.60	6.64	7.66	8.68	9.72	10.80	11.90	13.42	6 / 7			
reaction time	0.162	interval	7 steps	1.04	1.00	1.04	1.04	1.02	1.02	1.04	1.08	1.10	1.52		3.08	3.08	3.22
wind	0.3 m/s	velocity	5.44	8.79	9.14	8.79	8.79	8.96	8.96	8.79	8.46	8.31	9.22	8.20	8.90	8.90	8.52
Cabral, Johnathan (CAN) (1992)																	
FINAL - 2016 Meeting International Mohammed VI D'Athlétisme (Rabat, MAR) (TV Analysis)																	
date	22-May-16	time	2.54	3.60	4.64	5.66	6.68	7.70	8.74	9.80	10.86	11.94	13.42	5 / 5			
reaction time	0.155	interval	7 steps	1.06	1.04	1.02	1.02	1.02	1.04	1.06	1.06	1.08	1.48		3.12	3.08	3.20
wind	1.4 m/s	velocity	5.40	8.62	8.79	8.96	8.96	8.96	8.79	8.62	8.62	8.46	9.47	8.20	8.79	8.90	8.57
Belocian, Wilhem (FRA) (1995)																	
FINAL - 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)																	
date	15-Jul-16	time	2.48	3.52	4.54	5.56	6.56	7.60	8.66	9.72	10.78	11.88	13.42	2 / 4			
reaction time	0.129	interval		1.04	1.02	1.02	1.00	1.04	1.06	1.06	1.06	1.10	1.54		3.08	3.10	3.22
wind	0.0 m/s	velocity	5.53	8.79	8.96	8.96	9.14	8.79	8.62	8.62	8.62	8.31	9.10	8.20	8.90	8.85	8.52
Czykier, Damian (POL) (1992)																	
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)																	
date	06-Aug-17	time	2.45	3.52	4.57	5.62	6.65	7.64	8.65	9.71	10.77	11.84	13.42	9 / 5			
reaction time	0.183	interval	7 steps	1.07	1.05	1.05	1.03	0.99	1.01	1.06	1.06	1.07	1.58		3.17	3.03	3.19
wind	0.6 m/s	velocity	5.60	8.54	8.70	8.70	8.87	9.23	9.05	8.62	8.62	8.54	8.87	8.20	8.65	9.05	8.60
Darien, Garfield (FRA) (1987)																	
FINAL - 2017 Memorial van Damme (Brussels, BEL) (TV Analysis)																	
date	01-Sep-17	time	2.54	3.62	4.66	5.68	6.70	7.72	8.76	9.80	10.86	11.92	13.42	9 / 6			
reaction time	0.138	interval	7 steps	1.08	1.04	1.02	1.02	1.02	1.04	1.04	1.06	1.06	1.50		3.14	3.08	3.16
wind	0.5 m/s	velocity	5.40	8.46	8.79	8.96	8.96	8.96	8.79	8.79	8.62	8.62	9.35	8.20	8.73	8.90	8.68
Holloway, Grant (USA) (1997)																	
FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)																	
date	08-Jun-18	time	2.45	3.48	4.52	5.53	6.56	7.58	8.65	9.72	10.78	11.92	13.42	4 / 1			
reaction time		interval	7 steps	1.03	1.04	1.01	1.03	1.02	1.07	1.07	1.06	1.14	1.50		3.08	3.12	3.27
wind	-1.1 m/s	velocity	5.60	8.87	8.79	9.05	8.87	8.96	8.54	8.54	8.62	8.02	9.35	8.20	8.90	8.79	8.39
Baji, Balázs (HUN) (1989)																	
FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)																	
date	22-Jul-18	time	2.54	3.60	4.64	5.66	6.68	7.70	8.74	9.78	10.86	11.94	13.42	8 / 7			
reaction time	0.146	interval	7 steps	1.06	1.04	1.02	1.02	1.02	1.04	1.04	1.08	1.08	1.48		3.12	3.08	3.20
wind	0.2 m/s	velocity	5.40	8.62	8.79	8.96	8.96	8.96	8.79	8.79	8.46	8.46	9.47	8.20	8.79	8.90	8.57
Moore, Isaiah (USA) (1996)																	
FINAL - 2019 South Eastern Conference Championships (Fayetteville, AR) (TV Analysis)																	
date	11-May-19	time	2.66	3.75	4.80	5.84	6.86	7.86	8.90	9.93	10.96	12.03	13.42	6 / 3			
reaction time		interval		1.09	1.05	1.04	1.02	1.00	1.04	1.03	1.03	1.07	1.39		3.18	3.06	3.13
wind	1.0 m/s	velocity	5.16	8.39	8.70	8.79	8.96	9.14	8.79	8.87	8.87	8.54	10.09	8.20	8.62	8.96	8.76
Ishikawa, Shuhei (JPN) (1995)																	
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)																	
date	01-Jun-21	time	2.58	3.62	4.65	5.68	6.70	7.75	8.79	9.85	10.90	11.98	13.42	6 / 2			

reaction time	0.156	interval	7 steps	1.04	1.03	1.03	1.02	1.05	1.04	1.06	1.05	1.08	1.44		3.10	3.11	3.19
wind	0.3 m/s	velocity	5.32	8.79	8.87	8.87	8.96	8.70	8.79	8.62	8.70	8.46	9.74	8.20	8.85	8.82	8.60

McLeod, Omar (JAM) (1994)

C.Leod, Omar (JAM) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report					
date	13-Jul-21	time	2.56	3.62	4.62	5.66	6.68	7.68	8.68	9.74	10.78	11.94		13.42	5 / 2			
reaction time	0.140	interval		1.06	1.00	1.04	1.02	1.00	1.00	1.06	1.04	1.16	1.48		3.10	3.02	3.26	
wind	0.8 m/s	velocity	5.36	8.62	9.14	8.79	8.96	9.14	9.14	8.62	8.79	7.88	9.47	8.20	8.85	9.08	8.41	

Smet, Koen (BEL) (1992)

net, Koen (BEL) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Athletissima (Lausanne, SUI) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report					
date	26-Aug-21	time	2.56	3.60	4.62	5.64	6.68	7.72	8.78	9.78	10.88	11.94		13.42	1 / 6			
reaction time	0.144	interval		1.04	1.02	1.02	1.04	1.04	1.06	1.00	1.10	1.06	1.48			3.08	3.14	3.16
wind	2.5 m/s	velocity	5.36	8.79	8.96	8.96	8.79	8.79	8.62	9.14	8.31	8.62	9.47	8.20		8.90	8.73	8.68

Izumiya, Shunsuke (JPN) (2000)

umiya, Shunsuke (JPN) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)										Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season							
date	17-Jul-22	time	2.59	3.65	4.68	5.72	6.77	7.81	8.85	9.91	10.97	12.04	13.42	8 / 5			
reaction time	0.112	interval	7 steps	1.06	1.03	1.04	1.05	1.04	1.04	1.06	1.06	1.07	1.38		3.13	3.13	3.19
wind	0.3 m/s	velocity	5.30	8.62	8.87	8.79	8.70	8.79	8.62	8.62	8.54	10.16	8.20		8.76	8.76	8.60

Hough, Nicholas (AUS) (1993)

Dough, Nicholas (AUS) (1993)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)												Henson (2022) - Athlete First: 2022 year end hurdle report					
date	17-Jul-22	time	2.63	3.70	4.73	5.76	6.76	7.80	8.83	9.86	10.90	11.96		13.42	1 / 7		
reaction time	0.131	interval	7 steps	1.07	1.03	1.03	1.00	1.04	1.03	1.03	1.04	1.06	1.46		3.13	3.07	3.13
wind	2.5 m/s	velocity	5.22	8.54	8.87	8.87	9.14	8.79	8.87	8.87	8.79	8.62	9.60	8.20	8.76	8.93	8.76

Brathwaite, Shane (BAR) (1990)

Rathwaite, Shane (BAR) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 NACAC Championships (Freeport, BAH) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	20-Aug-22	time	2.50	3.56	4.56	5.57	6.60	7.60	8.63	9.70	10.76	11.83	13.42	5 / 4			
reaction time		interval		1.06	1.00	1.01	1.03	1.00	1.03	1.07	1.06	1.07	1.59		3.07	3.06	3.20
wind	0.3 m/s	velocity	5.49	8.62	9.14	9.05	8.87	9.14	8.87	8.54	8.62	8.54	8.82	8.20	8.93	8.96	8.57

Ishida Thomas, Higashi (JPN) (1997)

Nida Thomas, Higashi (JPN) (1997)																	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)																	Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season															
date		21-May-23		time		2.60		3.65		4.68		5.70		6.73		7.76		8.81		9.86		10.93		12.02		13.42		3 / 5				
reaction time		0.136		interval		7 steps		1.05		1.03		1.02		1.03		1.03		1.05		1.05		1.07		1.09		1.40		PB		3.10 3.11 3.21		
wind		0.8 m/s		velocity		5.28		8.70		8.87		8.96		8.87		8.87		8.70		8.70		8.54		8.39		10.01		8.20		8.85 8.82 8.54		

Hrelja, Max (SWE) (1998)

relja, Max (SWE) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														Henson (2023) - Athlete First: 2023 year end hurdle report				
date	20-Aug-23	time	2.63	3.71	4.74	5.76	6.78	7.81	8.86	9.91	10.95	12.05		13.42	7 / 4			
reaction time	0.138	interval	7 steps	1.08	1.03	1.02	1.02	1.03	1.05	1.05	1.04	1.10	1.37	PB		3.13	3.10	3.19
wind	-0.9 m/s	velocity	5.22	8.46	8.87	8.96	8.96	8.87	8.70	8.70	8.79	8.31	10.23	8.20		8.76	8.85	8.60

Kwaou-Mathey, Just (FRA) (1999)

Wauou-Mathey, Just (FRA) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report				
date	20-Aug-23	time	2.55	3.57	4.60	5.60	6.66	7.71	8.75	9.78	10.90	11.94	13.42	3 / 5			
reaction time	0.160	interval	7 steps	1.02	1.03	1.00	1.06	1.05	1.04	1.03	1.12	1.04	1.48		3.05	3.15	3.19
wind	-0.9 m/s	velocity	5.38	8.96	8.87	9.14	8.62	8.70	8.79	8.87	8.16	8.79	9.47	8.20	8.99	8.70	8.60

Broadbell, Rasheed (JAM) (2000)

roadbell, Rasheed (JAM) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)				
date	04-Aug-24	time	2.42	3.51	4.57	5.62	6.65	7.68	8.70	9.73	10.77	11.84	13.42	8 / 2			
reaction time	0.151	interval	7 steps	1.09	1.06	1.05	1.03	1.03	1.02	1.03	1.04	1.07	1.58		3.20	3.08	3.14
wind	0.7 m/s	velocity	5.67	8.39	8.62	8.70	8.87	8.87	8.96	8.87	8.79	8.54	8.87	8.20	8.57	8.90	8.73

Crittenden, Freddie (USA) (1994)

Rittenden, Freddie (USA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Repechage 1 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)				
date	06-Aug-24	time	2.43	3.53	4.60	5.63	6.66	7.69	8.72	9.76	10.80	11.85	13.42	2 / 1			
reaction time	0.154	interval		1.10	1.07	1.03	1.03	1.03	1.04	1.04	1.05	1.57			3.20	3.09	3.13
wind	0.2 m/s	velocity	5.65	8.31	8.54	8.87	8.87	8.87	8.87	8.79	8.79	8.70	8.93	8.20	8.57	8.87	8.76

Schwarthoff, Florian (GER) (1968)

Schwarthoff, Florian (GER) (1968)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1991 European Cup (Frankfurt, GER)														Federle (2003) - http://www.fgs.uni-halle.de			
date	30-Jun-91	time	2.54	3.61	4.66	5.69	6.74	7.79	8.83	9.86	10.90	11.98	13.43	/ 2			
reaction time		interval		1.07	1.05	1.03	1.05	1.05	1.04	1.03	1.04	1.08	1.45		3.15	3.14	3.15
wind	-0.9 m/s	velocity	5.40	8.54	8.70	8.87	8.70	8.70	8.79	8.87	8.79	8.46	9.67	8.19	8.70	8.73	8.70

Batte, Erick (CUB) (1974)

Butte, Erick (CUB) (1974)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1996 Olympic Games (Atlanta, GA)												Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016					
date	26-Jul-96	time	2.40	3.48	4.52	5.58	6.63	7.62	8.68	9.64	10.78	11.83	13.43	1 / 8			
reaction time	0.160	interval		1.08	1.04	1.06	1.05	0.99	1.06	0.96	1.14	1.05	1.60		3.18	3.10	3.15

wind	0.8 m/s	velocity	5.72	8.46	8.79	8.62	8.70	9.23	8.62	9.52	8.02	8.70	8.76	8.19		8.62	8.85	8.70
Shi Dongpeng (CHN) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2001 Chinese National Grand Prix (Shanghai, CHN)			<i>Fang (2001) - analysis on technical characteristics in Liu Xiang's 110m hurdles</i>															
date	06-May-01	time	2.71	3.78	4.79	5.81	6.83	7.86	8.87	9.91	10.99	12.07		13.43	/ 3			
reaction time		interval		1.07	1.01	1.02	1.02	1.03	1.01	1.04	1.08	1.08	1.36	WYR NR PB		3.10	3.06	3.20
wind	1.9 m/s	velocity	5.06	8.54	9.05	8.96	8.96	8.87	9.05	8.79	8.46	8.46	10.31	8.19		8.85	8.96	8.57
Wade, Larry (USA) (1974)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 USATF National Championships (Palo Alto, CA)			<i>USATF Women's Sprint Development (2003)</i>															
date	21-Jun-03	time	2.40	3.47	4.52	5.59	6.61	7.61	8.62	9.64	10.69	11.75		13.43	4 / 3			
reaction time		interval		1.07	1.05	1.07	1.02	1.00	1.01	1.02	1.05	1.06	1.68			3.19	3.03	3.13
wind	-2.4 m/s	velocity	5.72	8.54	8.70	8.54	8.96	9.14	9.05	8.96	8.70	8.62	8.35	8.19		8.60	9.05	8.76
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2006 USATF National Championships (Indianapolis, IN)			<i>USATF Men's Hurdle Development (2006)</i>															
date	25-Jun-06	time	2.67	3.75	4.81	5.84	6.86	7.86	8.89	9.93	10.98	12.03		13.43	/ 6			
reaction time		interval		1.08	1.06	1.03	1.02	1.00	1.03	1.04	1.05	1.05	1.40			3.17	3.05	3.14
wind	-0.4 m/s	velocity	5.14	8.46	8.62	8.87	8.96	9.14	8.87	8.79	8.70	8.70	10.01	8.19		8.65	8.99	8.73
Payne, David (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2007 USATF National Championships (Indianapolis, IN)			<i>USATF Men's Hurdle Development (2007)</i>															
date	23-Jun-07	time	2.59	3.65	4.70	5.72	6.73	7.76	8.78	9.83	10.88	11.95		13.43	8 / 1			
reaction time		interval		1.06	1.05	1.02	1.01	1.03	1.02	1.05	1.05	1.07	1.48			3.13	3.06	3.17
wind	0.1 m/s	velocity	5.30	8.62	8.70	8.96	9.05	8.87	8.96	8.70	8.70	8.54	9.47	8.19		8.76	8.96	8.65
Brunson, Andrew (USA) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 USA Olympic Trials (Eugene, OR)			<i>USATF Hurdle Development (2008)</i>															
date	06-Jul-08	time	2.57	3.64	4.67	5.72	6.74	7.77	8.81	9.86	10.91	12.00		13.43	7 / 6			
reaction time	0.150	interval		1.07	1.03	1.05	1.02	1.03	1.04	1.05	1.05	1.09	1.43			3.15	3.09	3.19
wind	3.5 m/s	velocity	5.34	8.54	8.87	8.70	8.96	8.87	8.79	8.70	8.70	8.39	9.80	8.19		8.70	8.87	8.60
Noga, Artur (POL) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>															
date	20-Aug-09	time	2.67	3.73	4.77	5.78	6.79	7.91	8.84	9.89	10.93	12.01		13.43	7 / 4			
reaction time	0.174	interval		1.06	1.04	1.01	1.01	1.12	0.93	1.05	1.04	1.08	1.42			3.11	3.06	3.17
wind	0.9 m/s	velocity	5.14	8.62	8.79	9.05	9.05	8.16	9.83	8.70	8.79	8.46	9.87	8.19		8.82	8.96	8.65
Wignall, Maurice (JAM) (1976)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>															
date	20-Aug-09	time	2.60	3.67	4.70	5.73	6.77	7.80	8.84	9.90	10.96	12.03		13.43	4 / 2			
reaction time	0.162	interval		1.07	1.03	1.03	1.04	1.03	1.04	1.06	1.06	1.07	1.40			3.13	3.11	3.19
wind	0.1 m/s	velocity	5.28	8.54	8.87	8.87	8.79	8.87	8.79	8.62	8.62	8.54	10.01	8.19		8.76	8.82	8.60
Faulk, Dexter (USA) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Golden Grand Prix (Shanghai, CHN) (TV Analysis)			<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>															
date	19-May-12	time	2.52	3.58	4.62	5.64	6.66	7.70	8.74	9.80	10.86	11.94		13.43	2 / 5			
reaction time	0.177	interval		1.06	1.04	1.02	1.02	1.04	1.04	1.06	1.06	1.08	1.49			3.12	3.10	3.20
wind	0.4 m/s	velocity	5.44	8.62	8.79	8.96	8.96	8.79	8.79	8.62	8.62	8.46	9.41	8.19		8.79	8.85	8.57
Xie Wenjun (CHN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2012 Olympic Games (London, GBR)			<i>Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles</i>															
date	07-Aug-12	time	2.55	3.61	4.65	5.70	6.75	7.79	8.85	9.89	10.95	12.03		13.43	2 / 3			
reaction time	0.143	interval		1.06	1.04	1.05	1.05	1.04	1.06	1.04	1.06	1.08	1.40			3.15	3.15	3.18
wind	0.7 m/s	velocity	5.38	8.62	8.79	8.70	8.70	8.79	8.62	8.79	8.62	8.46	10.01	8.19		8.70	8.70	8.62
Ortega, Orlando (ESP) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>															
date	08-Aug-12	time	2.54	3.62	4.64	5.64	6.66	7.68	8.70	9.74	10.80	11.90		13.43	9 / 6			
reaction time	0.135	interval	7 steps	1.08	1.02	1.00	1.02	1.02	1.02	1.04	1.06	1.10	1.53			3.10	3.06	3.20
wind	-0.3 m/s	velocity	5.40	8.46	8.96	9.14	8.96	8.96	8.96	8.79	8.62	8.31	9.16	8.19		8.85	8.96	8.57
Omoregie, David (GBR) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)			<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>															
date	09-Sep-16	time	2.53	3.57	4.60	5.62	6.64	7.67	8.72	9.77	10.84	11.94		13.43	3 / 5			
reaction time	0.153	interval		1.04	1.03	1.02	1.02	1.03	1.05	1.05	1.07	1.10	1.49			3.09	3.10	3.22
wind	0.2 m/s	velocity	5.42	8.79	8.87	8.96	8.96	8.87	8.70	8.70	8.54	8.31	9.41	8.19		8.87	8.85	8.52
Masuno, Genta (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Fuse Sprint (Tottori, JPN)			<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>															
date	04-Jun-17	time	2.59	3.65	4.70	5.74	6.77	7.80	8.84	9.89	10.96	12.04		13.43	6 / 1			
reaction time		interval		1.06	1.05	1.04	1.03	1.03	1.04	1.05	1.07	1.08	1.39			3.15	3.10	3.20
wind	3.2 m/s	velocity	5.30	8.62	8.70	8.79	8.87	8.87	8.79	8.70	8.54	8.46	10.09	8.19		8.70	8.85	8.57

Iribarne, Roger (CUB) (1996)																
H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)										Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles						
date	06-Aug-17	time	2.39	3.44	4.46	5.49	6.51	7.58	8.62	9.67	10.73	11.83	13.43	3 / 6		
reaction time	0.175	interval	7 steps	1.05	1.02	1.03	1.02	1.07	1.04	1.05	1.06	1.10	1.60		3.10	3.21
wind	0.6 m/s	velocity	5.74	8.70	8.96	8.87	8.96	8.54	8.79	8.70	8.62	8.31	8.76	8.19	8.85	8.54
Kendziera, Dave (USA) (1994)																
H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)										Henson (2020) - Athlete First: 2018 year end hurdle report						
date	08-Jun-18	time	2.54	3.63	4.67	5.70	6.71	7.74	8.78	9.82	10.87	11.92	13.43	6 / 2		
reaction time	0.163	interval	7 steps	1.09	1.04	1.03	1.01	1.03	1.04	1.04	1.05	1.05	1.51		3.16	3.14
wind	-1.1 m/s	velocity	5.40	8.39	8.79	8.87	9.05	8.87	8.79	8.79	8.70	8.70	9.28	8.19	8.68	8.73
Harris, Aleec (USA) (1990)																
H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)										Henson (2020) - Athlete First: 2018 year end hurdle report						
date	02-Jul-18	time	2.56	3.60	4.64	5.68	6.72	7.74	8.78	9.84	10.88	11.96	13.43	7 / 5		
reaction time	0.163	interval	1.04	1.04	1.04	1.04	1.02	1.02	1.04	1.06	1.04	1.08	1.47		3.12	3.18
wind	0.6 m/s	velocity	5.36	8.79	8.79	8.79	8.79	8.96	8.79	8.62	8.79	8.46	9.54	8.19	8.79	8.62
Chen Kuei-Ru (TPE) (1993)																
H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)										CAA Hurdle Development (2019)						
date	07-Jun-19	time	2.58	3.63	4.67	5.69	6.72	7.75	8.79	9.84	10.91	11.99	13.43	5 / 1		
reaction time	0.164	interval	7 steps	1.05	1.04	1.02	1.03	1.03	1.04	1.05	1.07	1.08	1.44		3.11	3.20
wind	1.2 m/s	velocity	5.32	8.70	8.79	8.96	8.87	8.87	8.79	8.70	8.54	8.46	9.74	8.19	8.82	8.57
Belocian, Wilhem (FRA) (1995)																
H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)										Henson (2020) - Athlete First: 2019 year end hurdle report						
date	16-Jun-19	time	2.54	3.58	4.60	5.60	6.64	7.66	8.70	9.74	10.80	11.90	13.43	7 / 4		
reaction time	0.137	interval	1.04	1.02	1.00	1.04	1.02	1.04	1.04	1.06	1.10	1.10	1.53		3.06	3.20
wind	0.3 m/s	velocity	5.40	8.79	8.96	9.14	8.79	8.96	8.79	8.79	8.62	8.31	9.16	8.19	8.96	8.57
Xie Wenjun (CHN) (1990)																
H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)										CAA Hurdle Development (2019)						
date	02-Aug-19	time	2.61	3.64	4.67	5.70	6.72	7.74	8.77	9.80	10.87	11.97	13.43	4 / 1		
reaction time	0.153	interval	7 steps	1.03	1.03	1.03	1.02	1.02	1.03	1.03	1.07	1.10	1.46		3.09	3.20
wind	0.0 m/s	velocity	5.26	8.87	8.87	8.87	8.96	8.96	8.87	8.87	8.54	8.31	9.60	8.19	8.87	8.57
Xie Wenjun (CHN) (1990)																
H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)										Henson (2020) - Athlete First: 2019 year end hurdle report						
date	18-Aug-19	time	2.58	3.63	4.66	5.68	6.70	7.72	8.73	9.77	10.81	11.90	13.43	7 / 3		
reaction time	0.140	interval	7 steps	1.05	1.03	1.02	1.02	1.02	1.01	1.04	1.04	1.09	1.53		3.10	3.17
wind	-0.2 m/s	velocity	5.32	8.70	8.87	8.96	8.96	8.96	9.05	8.79	8.79	8.39	9.16	8.19	8.85	8.65
Crittenden, Freddie (USA) (1994)																
H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)										Henson (2020) - Athlete First: 2019 year end hurdle report						
date	10-Sep-19	time	2.60	3.63	4.66	5.71	6.73	7.77	8.77	9.77	10.88	11.90	13.43	4 / 3		
reaction time	0.161	interval	1.03	1.03	1.05	1.02	1.04	1.00	1.00	1.11	1.02	1.53			3.11	3.13
wind	0.1 m/s	velocity	5.28	8.87	8.87	8.70	8.96	8.79	9.14	9.14	8.23	8.96	9.16	8.19	8.82	8.76
Zeng Jianhang (CHN) (1998)																
H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)										CAA Hurdle Development (2021)						
date	08-Apr-21	time	2.56	3.64	4.66	5.68	6.68	7.72	8.76	9.80	10.88	11.96	13.43	6 / 1		
reaction time		interval	1.08	1.02	1.02	1.00	1.04	1.04	1.04	1.08	1.08	1.08	1.47		3.12	3.20
wind	-0.1 m/s	velocity	5.36	8.46	8.96	8.96	9.14	8.79	8.79	8.79	8.46	8.46	9.54	8.19	8.79	8.57
McConico, Jaylan (USA) (1998)																
H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)										Henson (2021) - Athlete First: 2021 year end hurdle report						
date	26-Jun-21	time	2.55	3.62	4.64	5.68	6.70	7.72	8.74	9.81	10.86	11.94	13.43	4 / 6		
reaction time	0.209	interval	1.07	1.02	1.04	1.02	1.02	1.02	1.07	1.05	1.08	1.49			3.13	3.20
wind	1.8 m/s	velocity	5.38	8.54	8.96	8.79	8.96	8.96	8.96	8.54	8.70	8.46	9.41	8.19	8.76	8.57
Dal Molin, Paolo (ITA) (1987)																
H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)										Henson (2021) - Athlete First: 2021 year end hurdle report						
date	09-Sep-21	time	2.54	3.54	4.56	5.60	6.64	7.68	8.76	9.80	10.86	11.96	13.43	2 / 5		
reaction time	0.135	interval	7 steps	1.00	1.02	1.04	1.04	1.04	1.08	1.04	1.06	1.10	1.47		3.06	3.20
wind	0.6 m/s	velocity	5.40	9.14	8.96	8.79	8.79	8.79	8.46	8.79	8.62	8.31	9.54	8.19	8.96	8.57
Izumiyama, Shunsuke (JPN) (2000)																
H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)										Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season						
date	09-May-21	time	2.51	3.60	4.63	5.71	6.76	7.83	8.90	9.94	11.01	12.06	13.43	7 / 2		
reaction time	0.132	interval	7 steps	1.09	1.03	1.08	1.05	1.07	1.07	1.04	1.07	1.05	1.37		3.20	3.16
wind	-0.8 m/s	velocity	5.47	8.39	8.87	8.46	8.70	8.54	8.54	8.79	8.54	8.70	10.23	8.19	8.57	8.68

Braverman, Josh (USA) (1998)																
Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)																
date	26-Jun-22	time	2.49	3.52	4.63	5.59	6.66	7.70	8.73	9.80	10.86	11.89		13.43	8 / 6	
reaction time		interval		1.03	1.11	0.96	1.07	1.04	1.03	1.07	1.06	1.03	1.54		3.10	3.14
wind	0.4 m/s	velocity	5.51	8.87	8.23	9.52	8.54	8.79	8.87	8.54	8.62	8.87	9.10	8.19	8.85	8.73
Ishikawa, Shuhei (JPN) (1995)																
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)																
date	29-Apr-23	time	2.60	3.64	4.68	5.71	6.73	7.78	8.81	9.85	10.92	11.98		13.43	5 / 1	
reaction time	0.168	interval	7 steps	1.04	1.04	1.03	1.02	1.05	1.03	1.04	1.07	1.06	1.45		3.11	3.10
wind	0.3 m/s	velocity	5.28	8.79	8.79	8.87	8.96	8.70	8.87	8.79	8.54	8.62	9.67	8.19	8.82	8.85
Crittenden, Freddie (USA) (1994)																
FINAL - 2023 Adidas Atlanta City Games (Atlanta, GA) (street) (TV Analysis)																
date	05-May-23	time	2.62	3.68	4.72	5.75	6.75	7.78	8.80	9.85	10.93	12.01		13.43	5 / 5	
reaction time	0.159	interval		1.06	1.04	1.03	1.00	1.03	1.02	1.05	1.08	1.08	1.42		3.13	3.05
wind	0.0 m/s	velocity	5.24	8.62	8.79	8.87	9.14	8.87	8.96	8.70	8.46	8.46	9.87	8.19	8.76	8.99
Crittenden, Freddie (USA) (1994)																
FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)																
date	28-May-23	time	2.39	3.44	4.49	5.52	6.55	7.57	8.62	9.67	10.73	11.80		13.43	7 / 5	
reaction time	0.166	interval		1.05	1.05	1.03	1.03	1.02	1.05	1.05	1.06	1.07	1.63		3.13	3.10
wind	-1.3 m/s	velocity	5.74	8.70	8.70	8.87	8.87	8.96	8.70	8.70	8.62	8.54	8.60	8.19	8.76	8.85
Llopis, Enrique (ESP) (2000)																
FINAL - 2023 Athletissima (Lausanne, SUI)																
date	30-Jun-23	time	2.44	3.52	4.54	5.56	6.57	7.59	8.62	9.67	10.74	11.82		13.43	7 / 5	
reaction time	0.135	interval	7 steps	1.08	1.02	1.02	1.01	1.02	1.03	1.05	1.07	1.08	1.61		3.12	3.06
wind	-1.0 m/s	velocity	5.62	8.46	8.96	8.96	9.05	8.96	8.87	8.70	8.54	8.46	8.71	8.19	8.79	8.96
Zeller, Joshua (GBR) (2000)																
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)																
date	16-Jul-23	time	2.49	3.56	4.59	5.62	6.64	7.65	8.68	9.72	10.77	11.84		13.43	1 / 5	
reaction time	0.158	interval		1.07	1.03	1.03	1.02	1.01	1.03	1.04	1.05	1.07	1.59		3.13	3.06
wind	0.3 m/s	velocity	5.51	8.54	8.87	8.87	8.96	9.05	8.87	8.79	8.70	8.54	8.82	8.19	8.76	8.96
Ojora, Tade (GBR) (1999)																
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																
date	21-Aug-23	time	2.58	3.63	4.67	5.70	6.72	7.78	8.80	9.83	10.87	11.93		13.43	7 / 5	
reaction time	0.144	interval	7 steps	1.05	1.04	1.03	1.02	1.06	1.02	1.03	1.04	1.06	1.50		3.12	3.10
wind	-0.2 m/s	velocity	5.32	8.70	8.79	8.87	8.96	8.62	8.96	8.87	8.79	8.62	9.35	8.19	8.79	8.85
Xu Zhuoyi (CHN) (2003)																
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)																
date	27-Apr-24	time	2.67	3.74	4.80	5.84	6.86	7.91	8.89	9.91	10.96	12.01		13.43	2 / 6	
reaction time	0.155	interval	7 steps	1.07	1.06	1.04	1.02	1.05	0.98	1.02	1.05	1.05	1.42		3.17	3.05
wind	0.8 m/s	velocity	5.14	8.54	8.62	8.79	8.96	8.70	9.33	8.96	8.70	8.70	9.87	8.19	8.65	8.99
Joseph, Jason (SUI) (1998)																
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)																
date	08-Jun-24	time	2.60	3.63	4.65	5.70	6.74	7.78	8.82	9.86	10.95	12.00		13.43	6 / 3	
reaction time	0.155	interval	7 steps	1.03	1.02	1.05	1.04	1.04	1.04	1.04	1.09	1.05	1.43		3.10	3.12
wind	0.6 m/s	velocity	5.28	8.87	8.96	8.70	8.79	8.79	8.79	8.79	8.39	8.70	9.80	8.19	8.85	8.79
Nomoto, Syuusei (JPN) (1995)																
FINAL - 2024 Japanese National Championships (Niigata, JPN)																
date	30-Jun-24	time	2.52	3.59	4.63	5.64	6.66	7.70	8.72	9.81	10.89	11.98		13.43	8 / 5	
reaction time	0.145	interval	7 steps	1.07	1.04	1.01	1.02	1.04	1.02	1.09	1.08	1.09	1.45		3.12	3.08
wind	0.2 m/s	velocity	5.44	8.54	8.79	9.05	8.96	8.79	8.96	8.39	8.46	8.39	9.67	8.19	8.79	8.90
Andrews, Antoine (BAH) (2003)																
Heat 3 - 2024 Olympic Games (Paris, FRA)																
date	04-Aug-24	time	2.36	3.45	4.50	5.54	6.59	7.62	8.66	9.71	10.76	11.85		13.43	6 / 2	
reaction time	0.151	interval	7 steps	1.09	1.05	1.04	1.05	1.03	1.04	1.05	1.05	1.09	1.58		3.18	3.12
wind	1.1 m/s	velocity	5.81	8.39	8.70	8.79	8.70	8.87	8.79	8.70	8.70	8.39	8.87	8.19	8.62	8.79
Roberts, Daniel (USA) (1998)																
Heat 3 - 2024 Olympic Games (Paris, FRA)																
date	04-Aug-24	time	2.38	3.45	4.49	5.50	6.53	7.57	8.62	9.68	10.73	11.81		13.43	3 / 3	
reaction time	0.164	interval	7 steps	1.07	1.04	1.01	1.03	1.04	1.05	1.06	1.05	1.08	1.62		3.12	3.12
wind	1.1 m/s	velocity	5.76	8.54	8.79	9.05	8.87	8.79	8.70	8.62	8.70	8.46	8.65	8.19	8.79	8.79
Trajkovic, Milan (CYP) (1992)																

Heat 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	04-Aug-24	time	2.41	3.46	4.48	5.49	6.51	7.52	8.56	9.63	10.69	11.79		13.43	2 / 4			
reaction time	0.139	interval	7 steps	1.05	1.02	1.01	1.02	1.01	1.04	1.07	1.06	1.10	1.64			3.08	3.07	3.23
wind	1.1 m/s	velocity	5.69	8.70	8.96	9.05	8.96	9.05	8.79	8.54	8.62	8.31	8.55	8.19		8.90	8.93	8.49

Parchment, Hansle (JAM) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10 Paris 2024 Olympic Games - Results Book (2024)

Heat 3 - 2024 Olympic Games (Paris, FRA)

date	04-Aug-24	time	2.46	3.54	4.56	5.58	6.60	7.61	8.66	9.70	10.76	11.83		13.43	8 / 5			
reaction time	0.159	interval	7 steps	1.08	1.02	1.02	1.02	1.01	1.05	1.04	1.06	1.07	1.60			3.12	3.08	3.17
wind	1.1 m/s	velocity	5.58	8.46	8.96	8.96	8.96	9.05	8.70	8.79	8.62	8.54	8.76	8.19		8.79	8.90	8.65

Zhoya, Sasha (FRA) (2002)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10 Paris 2024 Olympic Games - Results Book (2024)

Heat 5 - 2024 Olympic Games (Paris, FRA)

date	04-Aug-24	time	2.46	3.54	4.59	5.60	6.62	7.62	8.63	9.66	10.72	11.83		13.43	9 / 3			
reaction time	0.152	interval	7 steps	1.08	1.05	1.01	1.02	1.00	1.01	1.03	1.06	1.11	1.60			3.14	3.03	3.20
wind	0.7 m/s	velocity	5.58	8.46	8.70	9.05	8.96	9.14	9.05	8.87	8.62	8.23	8.76	8.19		8.73	9.05	8.57

Andrews, Antoine (BAH) (2003)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10 Paris 2024 Olympic Games - Results Book (2024)

Semi-Final 1 - 2024 Olympic Games (Paris, FRA)

date	07-Aug-24	time	2.41	3.50	4.54	5.57	6.60	7.63	8.65	9.71	10.78	11.85		13.43	7 / 8			
reaction time	0.135	interval	7 steps	1.09	1.04	1.03	1.03	1.03	1.02	1.06	1.07	1.07	1.58			3.16	3.08	3.20
wind	0.1 m/s	velocity	5.69	8.39	8.79	8.87	8.87	8.87	8.96	8.62	8.54	8.54	8.87	8.19		8.68	8.90	8.57

Joseph, Jason (SUI) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10 Paris 2024 Olympic Games - Results Book (2024)

Semi-Final 2 - 2024 Olympic Games (Paris, FRA)

date	07-Aug-24	time	2.45	3.54	4.58	5.60	6.61	7.64	8.68	9.73	10.79	11.86		13.43	5 / 6			
reaction time	0.180	interval	7 steps	1.09	1.04	1.02	1.01	1.03	1.04	1.05	1.06	1.07	1.57			3.15	3.08	3.18
wind	-0.1 m/s	velocity	5.60	8.39	8.79	8.96	9.05	8.87	8.79	8.70	8.62	8.54	8.93	8.19		8.70	8.90	8.62

Munkelt, Thomas (GDR) (1952)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1976 Olympic Games (Montreal, CAN)

Tepper (1978) - Analyse der Trainingsgestaltung & Leistungsentwicklung in den Sprintdisziplinen der M & F der DVfL der DDR 73/76

date	28-Jul-76	time	2.59	3.67	4.73	5.75	6.77	7.83	8.87	9.91	10.97	12.04		13.44	1 / 5			
reaction time		interval	7 steps	1.08	1.06	1.02	1.02	1.06	1.04	1.04	1.06	1.07	1.40			3.16	3.12	3.17
wind	0.0 m/s	velocity	5.30	8.46	8.62	8.96	8.96	8.62	8.79	8.79	8.62	8.54	10.01	8.18		8.68	8.79	8.65

Jackson, Colin (GBR) (1967)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1986 IAAF World Junior Championships (Athens, GRE) (1.07m)

Miskos (1986) - IAAF biomechanical research - Athens 1986 - hurdle races

date	19-Jul-86	time	2.58	3.63	4.68	5.70	6.71	7.79	8.83	9.90	10.98	12.07		13.44	1 / 1			
reaction time		interval		1.05	1.05	1.02	1.01	1.08	1.04	1.07	1.08	1.09	1.37			3.12	3.13	3.24
wind	-0.8 m/s	velocity	5.32	8.70	8.70	8.96	9.05	8.46	8.79	8.54	8.46	8.39	10.23	8.18		8.79	8.76	8.46

Kohutek, Artur (POL) (1971)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 1 - 2002 European Championships (Munich, GER)Graubner (2009) - <http://www.fgs.uni-halle.de>

date	10-Aug-02	time	2.65	3.70	4.73	5.74	6.75	7.77	8.82	9.85	10.93	12.01		13.44	1 / 2			
reaction time	0.135	interval		1.05	1.03	1.01	1.01	1.02	1.05	1.03	1.08	1.08	1.43			3.09	3.08	3.19
wind	-0.5 m/s	velocity	5.18	8.70	8.87	9.05	9.05	8.96	8.70	8.87	8.46	8.46	9.80	8.18		8.87	8.90	8.60

Fenner, Mike (GER) (1971)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 2 - 2002 European Championships (Munich, GER)Graubner (2009) - <http://www.fgs.uni-halle.de>

date	10-Aug-02	time	2.62	3.66	4.70	5.72	6.76	7.78	8.80	9.84	10.92	11.99		13.44	1 / 2			
reaction time	0.138	interval		1.04	1.04	1.02	1.04	1.02	1.02	1.04	1.08	1.07	1.45			3.10	3.08	3.19
wind	0.8 m/s	velocity	5.24	8.79	8.79	8.96	8.79	8.96	8.96	8.79	8.46	8.54	9.67	8.18		8.85	8.90	8.60

Shi Dongpeng (CHN) (1984)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2005 Chinese National Games (Nanjing, CHN)

Wang (2013) - analysis on the technical characteristics of Liu Xiang's and Shi Dongpeng's 110m Hurdles

date	20-Oct-05	time	2.70	3.75	4.77	5.78	6.78	7.81	8.84	9.89	10.93	11.98		13.44	1 / 2			
reaction time		interval		1.05	1.02	1.01	1.00	1.03	1.03	1.05	1.04	1.05	1.46			3.08	3.06	3.14
wind	0.4 m/s	velocity	5.08	8.70	8.96	9.05	9.14	8.87	8.87	8.70	8.79	8.70	9.60	8.18		8.90	8.96	8.73

Villar, Paulo (COL) (1978)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)

Graubner (2009) - biomechanical analyses at the 12th IAAF world championships

date	20-Aug-09	time	2.55	3.60	4.63	5.65	6.68	7.71	8.75	9.81	10.89	11.97		13.44	5 / 5			
reaction time	0.171	interval		1.05	1.03	1.02	1.03	1.03	1.04	1.06	1.08	1.08	1.47			3.10	3.10	3.22
wind	0.9 m/s	velocity	5.38	8.70	8.87	8.96	8.87	8.87	8.79	8.62	8.46	8.46	9.54	8.18		8.85	8.85	8.52

Turner, Andy (GBR) (1980)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)

Henson (2021) - Athlete First: major championships report

date	29-Aug-11	time	2.53	3.58	4.64	5.67	6.71	7.74	8.77	9.82	10.89	11.92		13.44	1 / 4 3			
reaction time	0.146	interval		1.05	1.06	1.03	1.04	1.03	1.03	1.05	1.07	1.03	1.52			3.14	3.10	3.15
wind	-1.1 m/s	velocity	5.42	8.70	8.62	8.87	8.79	8.87	8.87	8.70	8.54	8.87	9.22	8.18		8.73	8.85	8.70

Oliver, David (USA) (1982)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)

Henson (2021) - Athlete First: major championships report

date		29-Aug-11	time	2.48	3.50	4.58	5.62	6.67	7.71	8.77	9.80	10.84	11.91	13.44	4 / 5-4			
reaction time		0.171	interval	7 steps	1.02	1.08	1.04	1.05	1.04	1.06	1.03	1.04	1.07	1.53		3.14	3.15	3.14
wind		-1.1 m/s	velocity	5.53	8.96	8.46	8.79	8.70	8.79	8.62	8.87	8.79	8.54	9.16	8.18	8.73	8.70	8.73
Xie Wenjun (CHN) (1990)																		
FINAL - 2013 Chinese National Grand Prix (Zhaoqing, CHN) Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles																		
date		28-Apr-12	time	2.60	3.66	4.69	5.75	6.79	7.83	8.87	9.91	10.95	12.03	13.44	/ 1			
reaction time			interval		1.06	1.03	1.06	1.04	1.04	1.04	1.04	1.04	1.08	1.41		3.15	3.12	3.16
wind		0.1 m/s	velocity	5.28	8.62	8.87	8.62	8.79	8.79	8.79	8.79	8.79	8.46	9.94	8.18	8.70	8.79	8.68
Adams, Spencer (USA) (1989)																		
FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis) Henson (2020) - Athlete First: 2016 year end hurdle report																		
date		06-May-16	time	2.52	3.56	4.60	5.64	6.68	7.72	8.76	9.80	10.88	11.96	13.44	8 / 7			
reaction time		0.124	interval	7 steps	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.08	1.08	1.48		3.12	3.12	3.20
wind		1.4 m/s	velocity	5.44	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.46	8.46	9.47	8.18	8.79	8.79	8.57
Richardson, Jason (USA) (1986)																		
FINAL - 2016 Shanghai Golden Grand Prix (Shanghai, CHN) Henson (2021) - Athlete First: 2016 year end hurdle report																		
date		14-May-16	time	2.54	3.60	4.62	5.64	6.66	7.70	8.74	9.78	10.84	11.92	13.44	9 / 6			
reaction time		0.151	interval	7 steps	1.06	1.02	1.02	1.02	1.04	1.04	1.04	1.06	1.08	1.52		3.10	3.10	3.18
wind		1.2 m/s	velocity	5.40	8.62	8.96	8.96	8.96	8.79	8.79	8.79	8.62	8.46	9.22	8.18	8.85	8.85	8.62
Trajkovic, Milan (CYP) (1992)																		
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis) Henson (2020) - Athlete First: 2016 year end hurdle report																		
date		09-Sep-16	time	2.50	3.53	4.57	5.57	6.59	7.61	8.66	9.74	10.81	11.90	13.44	7 / 6			
reaction time		0.143	interval	7 steps	1.03	1.04	1.00	1.02	1.02	1.05	1.08	1.07	1.09	1.54		3.07	3.09	3.24
wind		0.2 m/s	velocity	5.49	8.87	8.79	9.14	8.96	8.96	8.70	8.46	8.54	8.39	9.10	8.18	8.93	8.87	8.46
Merritt, Aries (USA) (1985)																		
FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis) Henson (2020) - Athlete First: 2017 year end hurdle report																		
date		29-Apr-17	time	2.53	3.60	4.63	5.63	6.63	7.66	8.70	9.76	10.83	11.93	13.44	5 / 4			
reaction time			interval	7 steps	1.07	1.03	1.00	1.00	1.03	1.04	1.06	1.07	1.10	1.51		3.10	3.07	3.23
wind		1.8 m/s	velocity	5.42	8.54	8.87	9.14	9.14	8.87	8.79	8.62	8.54	8.31	9.28	8.18	8.85	8.93	8.49
Takayama, Shunya (JPN) (1994)																		
Semi-Final 1 - 2017 Japanese National Championships (Osaka, JPN) (2017) - tfdata-store.com/2017/07/13/post-1040/																		
date		24-Jun-17	time	2.58	3.62	4.65	5.68	6.71	7.75	8.80	9.85	10.89	12.00	13.44	4 / 1			
reaction time		0.150	interval		1.04	1.03	1.03	1.03	1.04	1.05	1.05	1.04	1.11	1.44	PB	3.10	3.12	3.20
wind		0.6 m/s	velocity	5.32	8.79	8.87	8.87	8.87	8.79	8.70	8.70	8.79	8.23	9.74	8.18	8.85	8.79	8.57
Ortega, Orlando (ESP) (1991)																		
FINAL - 2018 Meeting de Paris (Paris, FRA) (TV Analysis) Henson (2020) - Athlete First: 2018 year end hurdle report																		
date		30-Jun-18	time	2.52	3.60	4.64	5.68	6.68	7.70	8.72	9.74	10.80	11.88	13.44	5 / 6			
reaction time		0.135	interval	7 steps	1.08	1.04	1.04	1.00	1.02	1.02	1.02	1.06	1.08	1.56		3.16	3.04	3.16
wind		1.5 m/s	velocity	5.44	8.46	8.79	8.79	9.14	8.96	8.96	8.96	8.62	8.46	8.99	8.18	8.68	9.02	8.68
Merritt, Aries (USA) (1985)																		
FINAL - 2018 Athletissima (Lausanne, SUI) (TV Analysis) Henson (2020) - Athlete First: 2018 year end hurdle report																		
date		05-Jul-18	time	2.59	3.61	4.63	5.65	6.69	7.73	8.77	9.83	10.87	11.95	13.44	2 / 6			
reaction time		0.129	interval	7 steps	1.02	1.02	1.02	1.04	1.04	1.04	1.06	1.04	1.08	1.49		3.06	3.12	3.18
wind		0.6 m/s	velocity	5.30	8.96	8.96	8.96	8.79	8.79	8.79	8.62	8.79	8.46	9.41	8.18	8.96	8.79	8.62
Merritt, Aries (USA) (1985)																		
FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis) Henson (2020) - Athlete First: 2018 year end hurdle report																		
date		22-Jul-18	time	2.54	3.60	4.64	5.66	6.70	7.74	8.76	9.82	10.86	11.94	13.44	4 / 8			
reaction time		0.132	interval	7 steps	1.06	1.04	1.02	1.04	1.04	1.02	1.06	1.04	1.08	1.50		3.12	3.10	3.18
wind		0.2 m/s	velocity	5.40	8.62	8.79	8.96	8.79	8.79	8.96	8.62	8.79	8.46	9.35	8.18	8.79	8.85	8.62
Ishikawa, Shuhei (JPN) (1995)																		
FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN) Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season																		
date		29-Apr-21	time	2.58	3.65	4.66	5.69	6.73	7.77	8.80	9.86	10.91	11.98	13.44	5 / 3			
reaction time			interval	7 steps	1.07	1.01	1.03	1.04	1.04	1.03	1.06	1.05	1.07	1.46		3.11	3.11	3.18
wind		1.7 m/s	velocity	5.32	8.54	9.05	8.87	8.79	8.79	8.87	8.62	8.70	8.54	9.60	8.18	8.82	8.82	8.62
Dal Molin, Paolo (ITA) (1987)																		
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis) Henson (2024) - Athlete First: 2021 year end hurdle report																		
date		03-Aug-21	time	2.57	3.66	4.68	5.68	6.70	7.73	8.78	9.83	10.94	12.00	13.44	8 / 4			
reaction time		0.151	interval	7 steps	1.09	1.02	1.00	1.02	1.03	1.05	1.05	1.11	1.06	1.44		3.11	3.10	3.22
wind		-0.1 m/s	velocity	5.34	8.39	8.96	9.14	8.96	8.87	8.70	8.70	8.23	8.62	9.74	8.18	8.82	8.85	8.52
Llopis, Enrique (ESP) (2000)																		
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis) Henson (2022) - Athlete First: 2022 year end hurdle report																		
date		17-Jul-22	time	2.56	3.60	4.60	5.63	6.63	7.66	8.70	9.80	10.86	11.96	13.44	2 / 8			

reaction time	0.113	interval	7 steps	1.04	1.00	1.03	1.00	1.03	1.04	1.10	1.06	1.10	1.48			3.07	3.07	3.26
wind	2.5 m/s	velocity	5.36	8.79	9.14	8.87	9.14	8.87	8.79	8.31	8.62	8.31	9.47	8.18		8.93	8.93	8.41

Bouanani, Amine (ALG) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	16-Jul-22	time	2.56	3.63	4.63	5.66	6.66	7.70	8.70	9.80	10.86	11.93		13.44	1 / 2			
reaction time	0.134	interval	7 steps	1.07	1.00	1.03	1.00	1.04	1.00	1.10	1.06	1.07	1.51			3.10	3.04	3.23
wind	0.4 m/s	velocity	5.36	8.54	9.14	8.87	9.14	8.79	9.14	8.31	8.62	8.54	9.28	8.18		8.85	9.02	8.49

Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Michtaka Kinami Memorial (Osaka, JPN)													<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>					
date	07-May-23	time	2.58	3.63	4.67	5.70	6.73	7.77	8.81	9.85	10.91	11.99		13.44	7 / 2			
reaction time	0.149	interval	7 steps	1.05	1.04	1.03	1.03	1.04	1.04	1.04	1.06	1.08	1.45			3.12	3.11	3.18
wind	-0.3 m/s	velocity	5.32	8.70	8.79	8.87	8.87	8.79	8.79	8.79	8.62	8.46	9.67	8.18		8.79	8.82	8.62

Trajkovic, Milan (CYP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	04-Jun-23	time	2.58	3.63	4.68	5.70	6.72	7.75	8.78	9.83	10.93	12.03		13.44	2 / 5			
reaction time	0.117	interval	7 steps	1.05	1.05	1.02	1.02	1.03	1.03	1.05	1.10	1.10	1.41			3.12	3.08	3.25
wind	0.4 m/s	velocity	5.32	8.70	8.70	8.96	8.96	8.87	8.87	8.70	8.31	8.31	9.94	8.18		8.79	8.90	8.44

Iribarne, Roger (CUB) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2023 Meeting de Paris (Paris, FRA)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	09-Jun-23	time	2.37	3.44	4.47	5.50	6.53	7.58	8.62	9.68	10.75	11.84		13.44	7 / 5			
reaction time	0.152	interval	7 steps	1.07	1.03	1.03	1.03	1.05	1.04	1.06	1.07	1.09	1.60			3.13	3.12	3.22
wind	-2.0 m/s	velocity	5.79	8.54	8.87	8.87	8.87	8.70	8.79	8.62	8.54	8.39	8.76	8.18		8.76	8.79	8.52

Alkana, Antonio (RSA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	16-Jul-23	time	2.44	3.51	4.55	5.58	6.60	7.63	8.67	9.71	10.77	11.84		13.44	1 / 7			
reaction time	0.132	interval		1.07	1.04	1.03	1.02	1.03	1.04	1.04	1.06	1.07	1.60			3.14	3.09	3.17
wind	0.3 m/s	velocity	5.62	8.54	8.79	8.87	8.96	8.87	8.79	8.79	8.62	8.54	8.76	8.18		8.73	8.87	8.65

Al-Yoha, Yaqoub (KUW) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	21-Aug-23	time	2.58	3.63	4.66	5.68	6.70	7.70	8.73	9.80	10.86	11.95		13.44	2 / 6			
reaction time	0.157	interval	7 steps	1.05	1.03	1.02	1.02	1.00	1.03	1.07	1.06	1.09	1.49			3.10	3.05	3.22
wind	-0.1 m/s	velocity	5.32	8.70	8.87	8.96	8.96	9.14	8.87	8.54	8.62	8.39	9.41	8.18		8.85	8.99	8.52

Dunning, Robert (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	24-Jun-24	time	2.60	3.63	4.66	5.67	6.69	7.72	8.74	9.77	10.82	11.92		13.44	9 / 5			
reaction time		interval		1.03	1.03	1.01	1.02	1.03	1.02	1.03	1.05	1.10	1.52			3.07	3.07	3.18
wind	-0.3 m/s	velocity	5.28	8.87	8.87	9.05	8.96	8.87	8.96	8.87	8.70	8.31	9.22	8.18		8.93	8.93	8.62

Qin WeiBo (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Repechage 3 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	06-Aug-24	time	2.46	3.54	4.56	5.56	6.57	7.60	8.64	9.69	10.74	11.81		13.44	3 / 1			
reaction time	0.184	interval	7 steps	1.08	1.02	1.00	1.01	1.03	1.04	1.05	1.05	1.07	1.63			3.10	3.08	3.17
wind	-1.1 m/s	velocity	5.58	8.46	8.96	9.14	9.05	8.87	8.79	8.70	8.70	8.54	8.60	8.18		8.85	8.90	8.65

Rodrigues, Eduardo (BRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	07-Aug-24	time	2.45	3.52	4.54	5.56	6.57	7.59	8.62	9.66	10.72	11.81		13.44	6 / 6			
reaction time	0.159	interval		1.07	1.02	1.02	1.01	1.02	1.03	1.04	1.06	1.09	1.63			3.11	3.06	3.19
wind	0.6 m/s	velocity	5.60	8.54	8.96	8.96	9.05	8.96	8.87	8.79	8.62	8.39	8.60	8.18		8.82	8.96	8.60

Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Memorial van damme (Brussels, BEL)													<i>Omega Timing (2024) - diamond league race analysis</i>					
date	13-Sep-24	time	2.34	3.39	4.42	5.42	6.46	7.50	8.55	9.63	10.71	11.81		13.44	5 / 8			
reaction time	0.145	interval	7 steps	1.05	1.03	1.00	1.04	1.04	1.05	1.08	1.08	1.10	1.63			3.08	3.13	3.26
wind	0.4 m/s	velocity	5.86	8.70	8.87	9.14	8.79	8.79	8.70	8.46	8.46	8.31	8.60	8.18		8.90	8.76	8.41

Llopis, Enrique (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2025 Yangtze River Delta Athletics Diamond Gala (Keqiao, CHN)													<i>Omega Timing (2025) - diamond league race analysis</i>					
date	03-May-25	time	2.45	3.54	4.54	5.57	6.58	7.59	8.61	9.65	10.68	11.78		13.44	2 / 7			
reaction time	0.136	interval	7 steps	1.09	1.00	1.03	1.01	1.01	1.02	1.04	1.03	1.10	1.66			3.12	3.04	3.17
wind	0.6 m/s	velocity	5.60	8.39	9.14	8.87	9.05	9.05	8.96	8.79	8.87	8.31	8.45	8.18		8.79	9.02	8.65

Korving, Robin (NED) (1974)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)													<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>					
date	24-Aug-99	time	2.59	3.62	4.66	5.67	6.72	7.74	8.78	9.84	10.91	11.96		13.45	2 / 7			
reaction time	0.133	interval		1.03	1.04	1.01	1.05	1.02	1.04	1.06	1.07	1.05	1.49			3.08	3.11	3.18

wind	0.0 m/s	velocity	5.30	8.87	8.79	9.05	8.70	8.96	8.79	8.62	8.54	8.70	9.41	8.18		8.90	8.82	8.62	
Liu Xiang (CHN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2001 Chinese National Grand Prix (Ningbo, CHN)			<i>Fang (2001) - analysis on technical characteristics in Liu Xiang's 110m hurdles</i>																
date	28-Apr-01	time	2.66	3.74	4.78	5.82	6.85	7.88	8.90	9.92	10.97	12.04		13.45	1		3.16	3.08	3.14
reaction time	0.128	interval		1.08	1.04	1.04	1.03	1.03	1.02	1.02	1.05	1.07	1.41				3.16	3.08	3.14
wind	2.5 m/s	velocity	5.16	8.46	8.79	8.79	8.87	8.87	8.96	8.96	8.70	8.54	9.94	8.18			8.68	8.90	8.73
Videnov, Zhivko (BUL) (1977)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2002 European Championships (Munich, GER)			<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																
date	10-Aug-02	time	2.64	3.68	4.70	5.74	6.76	7.80	8.82	9.88	10.94	12.04		13.45	3		3.10	3.08	3.22
reaction time	0.128	interval		1.04	1.02	1.04	1.02	1.04	1.02	1.06	1.06	1.10	1.41				3.10	3.08	3.22
wind	0.8 m/s	velocity	5.20	8.79	8.96	8.79	8.96	8.79	8.96	8.62	8.62	8.31	9.94	8.18			8.85	8.90	8.52
Johnson, Allen (USA) (1971)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2002 IAAF World Cup (Madrid, ESP)			<i>Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas</i>																
date	21-Sep-02	time	2.48	3.49	4.51	5.51	6.52	7.55	8.59	9.65	10.71	11.78		13.45	5 / 2		3.03	3.08	3.19
reaction time	0.135	interval		1.01	1.02	1.00	1.01	1.03	1.04	1.06	1.06	1.07	1.67				3.03	3.08	3.19
wind	-2.2 m/s	velocity	5.53	9.05	8.96	9.14	9.05	8.87	8.79	8.62	8.62	8.54	8.40	8.18			9.05	8.90	8.60
Herring, Aubrey (USA) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2006 USATF National Championships (Indianapolis, IN)			<i>USATF Men's Hurdle Development (2006)</i>																
date	25-Jun-06	time	2.60	3.65	4.69	5.74	6.77	7.81	8.83	9.86	10.93	12.00		13.45	7		3.14	3.09	3.17
reaction time		interval		1.05	1.04	1.05	1.03	1.04	1.02	1.03	1.07	1.07	1.45				3.14	3.09	3.17
wind	-0.4 m/s	velocity	5.28	8.70	8.79	8.70	8.87	8.79	8.96	8.87	8.54	8.54	9.67	8.18			8.73	8.87	8.65
Sedoc, Gregory (NED) (1981)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																
date	20-Aug-09	time	2.63	3.66	4.70	5.73	6.77	7.80	8.84	9.90	10.95	12.03		13.45	8 / 5		3.10	3.11	3.19
reaction time	0.162	interval		1.03	1.04	1.03	1.04	1.03	1.04	1.06	1.05	1.08	1.42				3.10	3.11	3.19
wind	0.6 m/s	velocity	5.22	8.87	8.79	8.87	8.79	8.87	8.79	8.62	8.70	8.46	9.87	8.18			8.85	8.82	8.60
Kiss, Dániel (HUN) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																
date	20-Aug-09	time	2.67	3.72	4.76	5.76	6.80	7.83	8.86	9.90	10.96	12.04		13.45	3 / 3		3.09	3.10	3.18
reaction time	0.156	interval		1.05	1.04	1.00	1.04	1.03	1.03	1.04	1.06	1.08	1.41				3.09	3.10	3.18
wind	0.1 m/s	velocity	5.14	8.70	8.79	9.14	8.79	8.87	8.87	8.79	8.62	8.46	9.94	8.18			8.87	8.85	8.62
Wilson, Ryan (USA) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 ISTAF (Berlin, GER) (TV Analysis)			<i>Henson (2021) - Athlete First: 2012 Aries Merritt world record season</i>																
date	02-Sep-12	time	2.57	3.63	4.67	5.70	6.70	7.74	8.74	9.77	10.84	11.91		13.45	7 / 2		3.13	3.04	3.17
reaction time	0.192	interval	7 steps	1.06	1.04	1.03	1.00	1.04	1.00	1.03	1.07	1.07	1.54				3.13	3.04	3.17
wind	1.2 m/s	velocity	5.34	8.62	8.79	8.87	9.14	8.79	9.14	8.87	8.54	8.54	9.10	8.18			8.76	9.02	8.65
Baji, Balázs (HUN) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)			<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>																
date	15-Jul-16	time	2.48	3.54	4.56	5.58	6.60	7.60	8.64	9.68	10.72	11.86		13.45	8 / 5		3.10	3.06	3.22
reaction time	0.131	interval	7 steps	1.06	1.02	1.02	1.02	1.00	1.04	1.04	1.04	1.14	1.59				3.10	3.06	3.22
wind	0.0 m/s	velocity	5.53	8.62	8.96	8.96	8.96	9.14	8.79	8.79	8.79	8.02	8.82	8.18			8.85	8.96	8.52
Traber, Gregor (GER) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)			<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>																
date	23-Jul-16	time	2.53	3.58	4.60	5.63	6.65	7.68	8.72	9.80	10.86	11.95		13.45	3 / 2		3.10	3.09	3.23
reaction time	0.150	interval	7 steps	1.05	1.02	1.03	1.02	1.03	1.04	1.08	1.06	1.09	1.50				3.10	3.09	3.23
wind	-1.0 m/s	velocity	5.42	8.70	8.96	8.87	8.96	8.87	8.79	8.46	8.62	8.39	9.35	8.18			8.85	8.87	8.49
Contreras, Yidiel (ESP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Spanish National Championships (Gijón, ESP) (TV Analysis)			<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>																
date	24-Jul-16	time	2.44	3.56	4.57	5.58	6.60	7.62	8.66	9.71	10.80	11.90		13.45	5 / 2		3.14	3.08	3.24
reaction time		interval	7 steps	1.12	1.01	1.01	1.02	1.02	1.04	1.05	1.09	1.10	1.55				3.14	3.08	3.24
wind	1.0 m/s	velocity	5.62	8.16	9.05	9.05	8.96	8.96	8.79	8.70	8.39	8.31	9.05	8.18			8.73	8.90	8.46
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Japanese National Championships (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>																
date	25-Jun-17	time	2.57	3.60	4.65	5.68	6.70	7.75	8.80	9.87	10.94	12.03		13.45	4 / 1		3.11	3.12	3.23
reaction time	0.138	interval		1.03	1.05	1.03	1.02	1.05	1.05	1.07	1.07	1.09	1.42				3.11	3.12	3.23
wind	-0.2 m/s	velocity	5.34	8.87	8.70	8.87	8.96	8.70	8.70	8.54	8.54	8.39	9.87	8.18			8.82	8.79	8.49
Thomas, Damion (JAM) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																
date	08-Jun-18	time	2.60	3.67	4.67	5.70	6.71	7.74	8.78	9.82	10.89	11.95		13.45	3 / 3		3.10	3.08	3.17
reaction time		interval		1.07	1.00	1.03	1.01	1.03	1.04	1.04	1.07	1.06	1.50				3.10	3.08	3.17
wind	-1.1 m/s	velocity	5.28	8.54	9.14	8.87	9.05	8.87	8.79	8.79	8.54	8.62	9.35	8.18			8.85	8.90	8.65

Takayama, Shunya (JPN) (1994)																
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)										<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>						
date	24-Jun-18	time	2.56	3.60	4.63	5.66	6.69	7.72	8.77	9.84	10.90	12.01	13.45		7 / 2	
reaction time	0.145	interval		1.04	1.03	1.03	1.03	1.03	1.05	1.07	1.06	1.11	1.44			3.10 3.11 3.24
wind	0.7 m/s	velocity	5.36	8.79	8.87	8.87	8.87	8.87	8.70	8.54	8.62	8.23	9.74	8.18		8.85 8.82 8.46
McLeod, Omar (JAM) (1994)																
FINAL - 2018 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)										<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>						
date	02-Jul-18	time	2.48	3.52	4.54	5.56	6.56	7.56	8.58	9.74	10.82	11.94	13.45		4 / 6	
reaction time	0.152	interval		1.04	1.02	1.02	1.00	1.00	1.02	1.16	1.08	1.12	1.51			3.08 3.02 3.36
wind	0.6 m/s	velocity	5.53	8.79	8.96	8.96	9.14	9.14	8.96	7.88	8.46	8.16	9.28	8.18		8.90 9.08 8.16
Swift, Greggmar (BAR) (1991)																
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)										<i>Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season</i>						
date	19-May-19	time	2.54	3.61	4.66	5.69	6.70	7.76	8.79	9.84	10.91	12.02	13.45		2 / 2	
reaction time	0.150	interval		1.07	1.05	1.03	1.01	1.06	1.03	1.05	1.07	1.11	1.43			3.15 3.10 3.23
wind	2.9 m/s	velocity	5.40	8.54	8.70	8.87	9.05	8.62	8.87	8.70	8.54	8.23	9.80	8.18		8.70 8.85 8.49
Zeng Jianhang (CHN) (1998)																
FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)										<i>CAA Hurdle Development (2019)</i>						
date	07-Jun-19	time	2.58	3.62	4.66	5.67	6.70	7.72	8.76	9.80	10.92	12.03	13.45		3 / 2	
reaction time	0.168	interval		1.04	1.04	1.01	1.03	1.02	1.04	1.04	1.12	1.11	1.42			3.09 3.09 3.27
wind	1.2 m/s	velocity	5.32	8.79	8.79	9.05	8.87	8.96	8.79	8.79	8.16	8.23	9.87	8.18		8.87 8.87 8.39
Dickson, Michael (USA) (1997)																
FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)										<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>						
date	28-Jul-19	time	2.56	3.60	4.67	5.70	6.74	7.77	8.80	9.85	10.94	12.00	13.45		3 / 5	
reaction time		interval		1.04	1.07	1.03	1.04	1.03	1.03	1.05	1.09	1.06	1.45			3.14 3.10 3.20
wind	-0.8 m/s	velocity	5.36	8.79	8.54	8.87	8.79	8.87	8.87	8.70	8.39	8.62	9.67	8.18		8.73 8.85 8.57
Martinot Lagarde, Pascal (FRA) (199)																
Heat 3 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)										<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>						
date	30-Sep-19	time	2.48	3.52	4.56	5.58	6.60	7.62	8.68	9.72	10.80	11.90	13.45		5 / 2 1	
reaction time	0.160	interval	7 steps	1.04	1.04	1.02	1.02	1.02	1.06	1.04	1.08	1.10	1.55			3.10 3.10 3.22
wind	-0.4 m/s	velocity	5.53	8.79	8.79	8.96	8.96	8.96	8.62	8.79	8.46	8.31	9.05	8.18		8.85 8.85 8.52
Kondo, Mizuki (JPN) (2003)																
FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (99cm)										<i>Enomoto (2019) - research on athlete performance and technique- 2019 data book</i>						
date	06-Oct-19	time	2.63	3.68	4.72	5.73	6.76	7.78	8.82	9.87	10.92	11.98	13.45		6 / 2	
reaction time	0.142	interval		1.05	1.04	1.01	1.03	1.02	1.04	1.05	1.05	1.06	1.47			3.10 3.09 3.16
wind	2.7 m/s	velocity	5.22	8.70	8.79	9.05	8.87	8.96	8.79	8.70	8.70	8.62	9.54	8.18		8.85 8.87 8.68
Mallett, Aaron (USA) (1994)																
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)										<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>						
date	19-Aug-20	time	2.49	3.54	4.57	5.61	6.64	7.69	8.71	9.75	10.82	11.91	13.45		1 / 5	
reaction time	0.168	interval		1.05	1.03	1.04	1.03	1.05	1.02	1.04	1.07	1.09	1.54			3.12 3.10 3.20
wind	0.3 m/s	velocity	5.51	8.70	8.87	8.79	8.87	8.70	8.96	8.79	8.54	8.39	9.10	8.18		8.79 8.85 8.57
Kanai, Taio (JPN) (1995)																
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)										<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>						
date	23-Aug-20	time	2.55	3.60	4.65	5.68	6.73	7.77	8.81	9.88	10.93	12.03	13.45		6 / 1	
reaction time	0.121	interval	7 steps	1.05	1.05	1.03	1.05	1.04	1.04	1.07	1.05	1.10	1.42			3.13 3.13 3.22
wind	-0.4 m/s	velocity	5.38	8.70	8.70	8.87	8.70	8.79	8.79	8.54	8.70	8.31	9.87	8.18		8.76 8.76 8.52
Nomoto, Syuusei (JPN) (1995)																
FINAL - 2020 Athlete Night Games (Fukui, JPN)										<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>						
date	29-Aug-20	time	2.55	3.62	4.68	5.71	6.75	7.80	8.84	9.91	10.99	12.06	13.45		7 / 4	
reaction time		interval	7 steps	1.07	1.06	1.03	1.04	1.05	1.04	1.07	1.08	1.07	1.39			3.16 3.13 3.22
wind	1.4 m/s	velocity	5.38	8.54	8.62	8.87	8.79	8.70	8.79	8.54	8.46	8.54	10.09	8.18		8.68 8.76 8.52
Izumiya, Shunsuke (JPN) (2000)																
Heat 1 - 2020 Japanese National Championships (Niigata, JPN)										<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>						
date	02-Oct-20	time	2.58	3.62	4.67	5.70	6.73	7.79	8.81	9.87	10.92	11.99	13.45		4 / 2	
reaction time	0.128	interval		1.04	1.05	1.03	1.03	1.06	1.02	1.06	1.05	1.07	1.46			3.12 3.11 3.18
wind	0.8 m/s	velocity	5.32	8.79	8.70	8.87	8.87	8.62	8.96	8.62	8.70	8.54	9.60	8.18		8.79 8.82 8.62
Takayama, Shunya (JPN) (1994)																
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)										<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>						
date	09-May-21	time	2.58	3.64	4.65	5.67	6.70	7.74	8.77	9.84	10.92	12.01	13.45		5 / 3	
reaction time	0.163	interval		1.06	1.01	1.02	1.03	1.04	1.03	1.07	1.08	1.09	1.44			3.09 3.10 3.24
wind	-0.8 m/s	velocity	5.32	8.62	9.05	8.96	8.87	8.79	8.87	8.54	8.46	8.39	9.74	8.18		8.87 8.85 8.46

Britt, Jamal (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report																
date	11-Jun-21	time	2.57	3.63	4.67	5.70	6.70	7.73	8.77	9.83	10.87	11.97		13.45	8 / 4				
reaction time	0.203	interval	7 steps	1.06	1.04	1.03	1.00	1.03	1.04	1.06	1.04	1.10	1.48	PB			3.13	3.07	3.20
wind	-0.6 m/s	velocity	5.34	8.62	8.79	8.87	9.14	8.87	8.79	8.62	8.79	8.31	9.47	8.18			8.76	8.93	8.57
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report																
date	13-Jul-21	time	2.56	3.62	4.64	5.64	6.66	7.72	8.76	9.80	10.88	11.98		13.45	3 / 3				
reaction time	0.114	interval	7 steps	1.06	1.02	1.00	1.02	1.06	1.04	1.04	1.08	1.10	1.47				3.08	3.12	3.22
wind	0.8 m/s	velocity	5.36	8.62	8.96	9.14	8.96	8.62	8.79	8.79	8.46	8.31	9.54	8.18			8.90	8.79	8.52
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Athletissima (Lausanne, SUI) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report																
date	26-Aug-21	time	2.48	3.52	4.56	5.56	6.56	7.58	8.62	9.68	10.80	11.92		13.45	8 / 7				
reaction time	0.149	interval	7 steps	1.04	1.04	1.00	1.00	1.02	1.04	1.06	1.12	1.12	1.53				3.08	3.06	3.30
wind	2.5 m/s	velocity	5.53	8.79	8.79	9.14	9.14	8.96	8.79	8.62	8.16	8.16	9.16	8.18			8.90	8.96	8.31
Ning Xiaohan (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Chinese National Games (Xi'an, CHN)			Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers																
date	22-Sep-21	time	2.56	3.63	4.67	5.70	6.73	7.76	8.79	9.84	10.90	11.99		13.45	1 / 2				
reaction time	0.124	interval		1.07	1.04	1.03	1.03	1.03	1.03	1.05	1.06	1.09	1.46	PB			3.14	3.09	3.20
wind	0.0 m/s	velocity	5.36	8.54	8.79	8.87	8.87	8.87	8.87	8.70	8.62	8.39	9.60	8.18			8.73	8.87	8.57
Roberts, Giano (JAM) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report																
date	10-Jun-22	time	2.50	3.59	4.64	5.67	6.69	7.74	8.77	9.82	10.86	11.91		13.45	1 / 4				
reaction time		interval		1.09	1.05	1.03	1.02	1.05	1.03	1.05	1.04	1.05	1.54				3.17	3.10	3.14
wind	0.0 m/s	velocity	5.49	8.39	8.70	8.87	8.96	8.70	8.87	8.70	8.79	8.70	9.10	8.18			8.65	8.85	8.73
Campbell, Lafranz (JAM) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report																
date	10-Jun-22	time	2.51	3.55	4.59	5.60	6.64	7.66	8.69	9.74	10.79	11.91		13.45	8 / 5				
reaction time		interval	7 steps	1.04	1.04	1.01	1.04	1.02	1.03	1.05	1.05	1.12	1.54				3.09	3.09	3.22
wind	0.0 m/s	velocity	5.47	8.79	8.79	9.05	8.79	8.96	8.87	8.70	8.70	8.16	9.10	8.18			8.87	8.87	8.52
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report																
date	16-Jul-22	time	2.46	3.53	4.53	5.56	6.58	7.60	8.63	9.70	10.80	11.86		13.45	2 / 3				
reaction time	0.120	interval	7 steps	1.07	1.00	1.03	1.02	1.02	1.03	1.07	1.10	1.06	1.59				3.10	3.07	3.23
wind	-0.5 m/s	velocity	5.58	8.54	9.14	8.87	8.96	8.96	8.87	8.54	8.31	8.62	8.82	8.18			8.85	8.93	8.49
Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2023 Meeting de Paris (Paris, FRA)			Omega Timing (2023) - diamond league race analysis																
date	09-Jun-23	time	2.42	3.49	4.52	5.56	6.59	7.63	8.68	9.73	10.79	11.85		13.45	3 / 5				
reaction time	0.156	interval	7 steps	1.07	1.03	1.04	1.03	1.04	1.05	1.05	1.06	1.06	1.60				3.14	3.12	3.17
wind	-0.6 m/s	velocity	5.67	8.54	8.87	8.79	8.87	8.79	8.70	8.70	8.62	8.62	8.76	8.18			8.73	8.79	8.65
Manga, Aurel (FRA) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)			Omega Timing (2023) - diamond league race analysis																
date	16-Jul-23	time	2.45	3.55	4.59	5.63	6.66	7.69	8.72	9.76	10.82	11.88		13.45	1 / 4				
reaction time	0.156	interval	7 steps	1.10	1.04	1.04	1.03	1.03	1.03	1.04	1.06	1.06	1.57				3.18	3.09	3.16
wind	-0.2 m/s	velocity	5.60	8.31	8.79	8.79	8.87	8.87	8.87	8.79	8.62	8.62	8.93	8.18			8.62	8.87	8.68
Edwards, Eric (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Weltklasse (Zürich, SUI)			Omega Timing (2023) - diamond league race analysis																
date	31-Aug-23	time	2.36	3.43	4.47	5.49	6.50	7.54	8.57	9.61	10.70	11.83		13.45	6 / 3				
reaction time	0.125	interval		1.07	1.04	1.02	1.01	1.04	1.03	1.04	1.09	1.13	1.62				3.13	3.08	3.26
wind	-0.1 m/s	velocity	5.81	8.54	8.79	8.96	9.05	8.79	8.87	8.79	8.39	8.09	8.65	8.18			8.76	8.90	8.41
Zeller, Joshua (GBR) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)			Omega Timing (2023) - diamond league race analysis																
date	02-Sep-23	time	2.47	3.56	4.59	5.62	6.64	7.68	8.72	9.75	10.81	11.88		13.45	1 / 9				
reaction time	0.147	interval		1.09	1.03	1.03	1.02	1.04	1.04	1.03	1.06	1.07	1.57				3.15	3.10	3.16
wind	0.0 m/s	velocity	5.55	8.39	8.87	8.87	8.96	8.79	8.79	8.87	8.62	8.54	8.93	8.18			8.70	8.85	8.68
Zhu Shenglong (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)			Omega Timing (2024) - diamond league race analysis																
date	27-Apr-24	time	2.63	3.69	4.75	5.75	6.79	7.81	8.84	9.88	10.96	12.02		13.45	8 / 7				
reaction time	0.150	interval	7 steps	1.06	1.06	1.00	1.04	1.02	1.03	1.04	1.08	1.06	1.43				3.12	3.09	3.18
wind	0.8 m/s	velocity	5.22	8.62	8.62	9.14	8.79	8.96	8.87	8.79	8.46	8.62	9.80	8.18			8.79	8.87	8.62
Machi, Ryota (JPN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	

FINAL - 2024 Michitaka Kinami Memorial (Osaka, JPN)

date	12-May-24	time	2.63	3.68	4.73	5.74	6.76	7.79	8.84	9.88	10.94	12.03	13.45	5 / 1			
reaction time	0.169	interval		1.05	1.05	1.01	1.02	1.03	1.05	1.04	1.06	1.09	1.42		3.11	3.10	3.19
wind	0.9 m/s	velocity	5.22	8.70	8.70	9.05	8.96	8.87	8.70	8.79	8.62	8.39	9.87	8.18	8.82	8.85	8.60

*Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season***Bennett, Sam (GBR) (2001)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	07-Jun-24	time	2.57	3.70	4.74	5.77	6.81	7.84	8.86	9.91	10.94	12.00	13.45	1 / 6			
reaction time		interval	7 steps	1.13	1.04	1.03	1.04	1.03	1.02	1.05	1.03	1.06	1.45	PB	3.20	3.09	3.14
wind	0.1 m/s	velocity	5.34	8.09	8.79	8.87	8.79	8.87	8.96	8.70	8.87	8.62	9.67	8.18	8.57	8.87	8.73

Mohamed, Raphaël (FRA) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	08-Jun-24	time	2.63	3.70	4.76	5.80	6.83	7.86	8.88	9.95	11.00	12.13	13.45	3 / =4			
reaction time	0.171	interval	7 steps	1.07	1.06	1.04	1.03	1.03	1.02	1.07	1.05	1.13	1.32		3.17	3.08	3.25
wind	0.6 m/s	velocity	5.22	8.54	8.62	8.79	8.87	8.87	8.96	8.54	8.70	8.09	10.62	8.18	8.65	8.90	8.44

Martinez, Asier (ESP) (2000)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	08-Jun-24	time	2.60	3.66	4.67	5.67	6.68	7.72	8.76	9.80	10.86	11.95	13.45	4 / =4			
reaction time	0.165	interval	7 steps	1.06	1.01	1.00	1.01	1.04	1.04	1.04	1.06	1.09	1.50		3.07	3.09	3.19
wind	0.6 m/s	velocity	5.28	8.62	9.05	9.14	9.05	8.79	8.79	8.79	8.62	8.39	9.35	8.18	8.93	8.87	8.60

Mohamed, Raphaël (FRA) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2024 Meeting de Paris (Paris, FRA)*Omega Timing (2024) - diamond league race analysis*

date	07-Jul-24	time	2.52	3.61	4.66	5.70	6.76	7.80	8.83	9.86	10.88	11.93	13.45	8 / 7			
reaction time	0.155	interval	7 steps	1.09	1.05	1.04	1.06	1.04	1.03	1.03	1.02	1.05	1.52		3.18	3.13	3.10
wind	0.1 m/s	velocity	5.44	8.39	8.70	8.79	8.62	8.79	8.87	8.87	8.96	8.70	9.22	8.18	8.62	8.76	8.85

Belocian, Wilhem (FRA) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Repechage 3 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	06-Aug-24	time	2.38	3.45	4.49	5.52	6.55	7.59	8.63	9.68	10.75	11.84	13.45	2 / 2			
reaction time	0.130	interval		1.07	1.04	1.03	1.03	1.04	1.04	1.05	1.07	1.09	1.61		3.14	3.11	3.21
wind	-1.1 m/s	velocity	5.76	8.54	8.79	8.87	8.87	8.79	8.79	8.70	8.54	8.39	8.71	8.18	8.73	8.82	8.54

Takayama, Shunya (JPN) (1994)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Repechage 3 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	06-Aug-24	time	2.34	3.40	4.44	5.45	6.48	7.50	8.56	9.62	10.71	11.82	13.45	7 / 3			
reaction time	0.140	interval		1.06	1.04	1.01	1.03	1.02	1.06	1.06	1.09	1.11	1.63		3.11	3.11	3.26
wind	-1.1 m/s	velocity	5.86	8.62	8.79	9.05	8.87	8.96	8.62	8.62	8.39	8.23	8.60	8.18	8.82	8.82	8.41

Simonelli, Lorenzo Ndele (ITA) (2002)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 Weltklasse (Zürich, SUI)*Omega Timing (2024) - diamond league race analysis*

date	05-Sep-24	time	2.42	3.49	4.51	5.53	6.55	7.57	8.62	9.69	10.76	11.84	13.45	4 / 8			
reaction time	0.158	interval	7 steps	1.07	1.02	1.02	1.02	1.02	1.05	1.07	1.07	1.08	1.61		3.11	3.09	3.22
wind	-0.3 m/s	velocity	5.67	8.54	8.96	8.96	8.96	8.96	8.70	8.54	8.54	8.46	8.71	8.18	8.82	8.87	8.52

Prokofyev, Andrey (URS) (1959)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1982 European Championships (Athens, GRE)*Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen im olympiazklus 1981/84*

date	11-Sep-82	time	2.56	4.64	6.72	8.81	12.01	13.46	/ 2	
reaction time		interval		2.08	2.08	2.09	3.20	1.45	PB	3.20
wind	-0.9 m/s	velocity	5.36	8.79	8.79	8.75	8.57	9.67	8.17	8.57

Bryggare, Arto (FIN) (1958)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1983 IAAF World Championships (Helsinki, FIN)*Knoke (1984) - the hurdles*

date	12-Aug-83	time	2.53	3.67	4.63	5.62	6.67	7.67	8.81	9.82	10.87	11.95	13.46	7 / 2			
reaction time	0.159	interval	7 steps	1.14	0.96	0.99	1.05	1.00	1.14	1.01	1.05	1.08	1.51		3.09	3.19	3.14
wind	1.3 m/s	velocity	5.42	8.02	9.52	9.23	8.70	9.14	8.02	9.05	8.70	8.46	9.28	8.17	8.87	8.60	8.73

Ridgeon, Jon (GBR) (1967)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1985 European Junior Championships (Cottbus, GDR) (99cm)*Warburton (1985) - 1985 european junior championships - hurdles*

date	23-Aug-85	time	2.32	3.39	4.40	5.39	6.42	7.46	8.53	9.60	10.65	11.72	13.46	1 / 1			
reaction time		interval		1.07	1.01	0.99	1.03	1.04	1.07	1.07	1.05	1.07	1.74		3.07	3.14	3.19
wind	1.8 m/s	velocity	5.91	8.54	9.05	9.23	8.87	8.79	8.54	8.54	8.70	8.54	8.06	8.17	8.93	8.73	8.60

Ridgeon, Jon (GBR) (1967)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 3 - 1987 IAAF World Championships (Rome, ITA)*Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics*

date	01-Sep-87	time	2.72	3.77	4.81	5.85	6.88	7.94	8.98	10.02	11.06	12.15	13.46	1 / 1			
reaction time		interval		1.05	1.04	1.04	1.03	1.06	1.04	1.04	1.04	1.09	1.31	PB	3.13	3.13	3.17
wind	0.2 m/s	velocity	5.04	8.70	8.79	8.79	8.87	8.62	8.79	8.79	8.79	8.39	10.70	8.17	8.76	8.76	8.65

Shishkin, Vladimir (URS) (1964)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	26-Sep-88	time	2.60	3.67	4.70	5.73	6.75	7.78	8.81	9.87	10.93	12.01	13.46	5 / 1				
reaction time	0.160	interval	7 steps	1.07	1.03	1.03	1.02	1.03	1.03	1.06	1.06	1.08	1.45		3.13	3.08	3.20	
wind	0.0 m/s	velocity	5.28	8.54	8.87	8.87	8.96	8.87	8.87	8.62	8.62	8.46	9.67	8.17	8.76	8.90	8.57	
Jackson, Colin (GBR) (1967)																		
FINAL - 1992 Olympic Games (Barcelona, ESP)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Knight (1992) - 1992 Olympic report: the hurdling events																		
date	03-Aug-92	time	2.57	3.59	4.58	5.66	6.77	7.80	8.83	9.87	10.88	11.90	13.46	3 / 7				
reaction time	0.133	interval		1.02	0.99	1.08	1.11	1.03	1.03	1.04	1.01	1.02	1.56		3.09	3.17	3.07	
wind	0.8 m/s	velocity	5.34	8.96	9.23	8.46	8.23	8.87	8.87	8.79	9.05	8.96	8.99	8.17	8.87	8.65	8.93	
Oliver, David (USA) (1982)																		
FINAL - 2005 USATF National Championships (Carson, CA)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
USATF Women's Sprint Development (2005)																		
date	24-Jun-05	time	2.66	3.71	4.76	5.76	6.76	7.81	8.83	9.86	10.92	11.97	13.46	3 / 8				
reaction time		interval		1.05	1.05	1.00	1.00	1.05	1.02	1.03	1.06	1.05	1.49		3.10	3.07	3.14	
wind	0.2 m/s	velocity	5.16	8.70	8.70	9.14	9.14	8.70	8.96	8.87	8.62	8.70	9.41	8.17	8.85	8.93	8.73	
Wignall, Maurice (JAM) (1976)																		
FINAL - 2008 Olympic Games (Beijing, CHN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tsiokanos (2018) - race pattern of men's 110m hurdles- time analysis of olympic hurdle performance																		
date	21-Aug-08	time	2.58	3.64	4.68	5.72	6.77	7.80	8.86	9.90	10.97	12.09	13.46	2 / 6				
reaction time	0.163	interval		1.06	1.04	1.04	1.05	1.03	1.06	1.04	1.07	1.12	1.37		3.14	3.14	3.23	
wind	0.1 m/s	velocity	5.32	8.62	8.79	8.79	8.70	8.87	8.62	8.79	8.54	8.16	10.23	8.17	8.73	8.73	8.49	
Lynsha, Maksim (BLR) (1985)																		
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																		
date	20-Aug-09	time	2.59	3.62	4.67	5.70	6.73	7.79	8.85	9.89	10.97	12.05	13.46	1 / 6				
reaction time	0.154	interval		1.03	1.05	1.03	1.03	1.06	1.06	1.04	1.08	1.08	1.41	PB	3.11	3.15	3.20	
wind	0.6 m/s	velocity	5.30	8.87	8.70	8.87	8.87	8.62	8.62	8.79	8.46	8.46	9.94	8.17	8.82	8.70	8.57	
Turner, Andy (GBR) (1980)																		
FINAL - 2012 Prefontaine Classic (Eugene, OR) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Henson (2020) - Athlete First: 2012 Aries Merritt world record season																		
date	02-Jun-12	time	2.60	3.64	4.68	5.72	6.74	7.76	8.82	9.86	10.92	12.00	13.46	2 / 8				
reaction time	0.149	interval		1.04	1.04	1.04	1.02	1.02	1.06	1.04	1.06	1.08	1.46		3.12	3.10	3.18	
wind	2.4 m/s	velocity	5.28	8.79	8.79	8.79	8.96	8.96	8.62	8.79	8.62	8.46	9.60	8.17	8.79	8.85	8.62	
Hicks, Antwon (USA) (1983)																		
FINAL - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Henson (2020) - Athlete First: 2012 Aries Merritt world record season																		
date	13-Jul-12	time	2.48	3.54	4.60	5.60	6.62	7.66	8.72	9.78	10.84	11.92	13.46	1 / 6				
reaction time	0.165	interval	7 steps	1.06	1.06	1.00	1.02	1.04	1.06	1.06	1.06	1.08	1.54		3.12	3.12	3.20	
wind	0.6 m/s	velocity	5.53	8.62	8.62	9.14	8.96	8.79	8.62	8.62	8.62	8.46	9.10	8.17	8.79	8.79	8.57	
Oliver, David (USA) (1982)																		
FINAL - 2017 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Henson (2020) - Athlete First: 2017 year end hurdle report																		
date	08-Jun-17	time	2.50	3.54	4.58	5.62	6.62	7.62	8.66	9.74	10.82	11.92	13.46	3 / 6				
reaction time	0.141	interval	7 steps	1.04	1.04	1.04	1.00	1.00	1.04	1.08	1.08	1.10	1.54		3.12	3.04	3.26	
wind	-0.3 m/s	velocity	5.49	8.79	8.79	8.79	9.14	9.14	8.79	8.46	8.46	8.31	9.10	8.17	8.79	9.02	8.41	
Allen, Devon (USA) (1994)																		
FINAL - 2018 USATF Championships (Des Moines, IA) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Henson (2020) - Athlete First: 2018 year end hurdle report																		
date	24-Jun-18	time	2.50	3.55	4.62	5.66	6.70	7.74	8.77	9.82	10.88	11.95	13.46	3 / 1				
reaction time		interval		1.05	1.07	1.04	1.04	1.04	1.03	1.05	1.06	1.07	1.51		3.16	3.11	3.18	
wind	-1.8 m/s	velocity	5.49	8.70	8.54	8.79	8.79	8.79	8.87	8.70	8.62	8.54	9.28	8.17	8.68	8.82	8.62	
Holloway, Grant (USA) (1997)																		
FINAL - 2018 USATF Championships (Des Moines, IA) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Henson (2020) - Athlete First: 2018 year end hurdle report																		
date	24-Jun-18	time	2.43	3.44	4.46	5.48	6.50	7.52	8.57	9.65	10.74	11.88	13.46	5 / 2				
reaction time		interval	7 steps	1.01	1.02	1.02	1.02	1.02	1.05	1.08	1.09	1.14	1.58		3.05	3.09	3.31	
wind	-1.8 m/s	velocity	5.65	9.05	8.96	8.96	8.96	8.96	8.70	8.46	8.39	8.02	8.87	8.17	8.99	8.87	8.28	
Cabral, Johnathan (CAN) (1992)																		
FINAL - 2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Henson (2020) - Athlete First: 2018 year end hurdle report																		
date	18-Aug-18	time	2.52	3.60	4.64	5.68	6.72	7.76	8.78	9.78	10.88	11.90	13.46	4 / 7				
reaction time	0.117	interval	7 steps	1.08	1.04	1.04	1.04	1.04	1.02	1.00	1.10	1.02	1.56		3.16	3.10	3.12	
wind	1.3 m/s	velocity	5.44	8.46	8.79	8.79	8.79	8.79	8.96	9.14	8.31	8.96	8.99	8.17	8.68	8.85	8.79	
Kanai, Taio (JPN) (1995)																		
A FINAL - 2018 National Sports Festival (Fukui, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season																		
date	08-Oct-18	time	2.56	3.63	4.66	5.70	6.73	7.78	8.83	9.88	10.95	12.03	13.46	6 / 1				
reaction time	0.121	interval		1.07	1.03	1.04	1.03	1.05	1.05	1.05	1.07	1.08	1.43		3.14	3.13	3.20	
wind	1.2 m/s	velocity	5.36	8.54	8.87	8.79	8.87	8.70	8.70	8.70	8.54	8.46	9.80	8.17	8.73	8.76	8.57	
Xie Wenjun (CHN) (1990)																		
FINAL - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Henson (2020) - Athlete First: 2019 year end hurdle report																		
date	24-Aug-19	time	2.56	3.60	4.66	5.68	6.70	7.74	8.76	9.80	10.86	11.98	13.46	7 / 7				

reaction time	0.162	interval	7 steps	1.04	1.06	1.02	1.02	1.04	1.02	1.04	1.06	1.12	1.48		3.12	3.08	3.22
wind	0.8 m/s	velocity	5.36	8.79	8.62	8.96	8.96	8.79	8.96	8.79	8.62	8.16	9.47	8.17	8.79	8.90	8.52

Brathwaite, Shane (BAR) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report				
date	10-Jun-21	time	2.50	3.56	4.60	5.64	6.66	7.68	8.74	9.80	10.86	11.94	13.46	1 / 5			
reaction time	0.122	interval		1.06	1.04	1.04	1.02	1.02	1.06	1.06	1.06	1.08	1.52		3.14	3.10	3.20
wind	-0.1 m/s	velocity	5.49	8.62	8.79	8.79	8.96	8.96	8.62	8.62	8.62	8.46	9.22	8.17	8.73	8.85	8.57

Pereira, Rafael (BRA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													Henson (2024) - Athlete First: 2021 year end hurdle report					
date	03-Aug-21	time	2.53	3.57	4.60	5.63	6.68	7.73	8.73	9.81	10.91	12.01		13.46	4 / 3			
reaction time	0.145	interval		1.04	1.03	1.03	1.05	1.05	1.00	1.08	1.10	1.10	1.45			3.10	3.10	3.28
wind	-0.2 m/s	velocity	5.42	8.79	8.87	8.87	8.70	8.70	9.14	8.46	8.31	8.31	9.67	8.17		8.85	8.85	8.36

Joseph, Jason (SUI) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													Henson (2024) - Athlete First: 2021 year end hurdle report				
date	04-Aug-21	time	2.59	3.67	4.71	5.71	6.76	7.80	8.86	9.89	10.96	12.05	13.46	4 / 5			
reaction time	0.135	interval	7 steps	1.08	1.04	1.00	1.05	1.04	1.06	1.03	1.07	1.09	1.41		3.12	3.15	3.19
wind	0.1 m/s	velocity	5.30	8.46	8.79	9.14	8.70	8.79	8.62	8.87	8.54	8.39	9.94	8.17	8.79	8.70	8.60

Warner, Damion (CAN) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													Henson (2024) - Athlete First: 2021 year end hurdle report				
date	05-Aug-21	time	2.55	3.63	4.68	5.69	6.72	7.75	8.85	9.90	10.98	12.08	13.46	7 / 1			
reaction time	0.148	interval	7 steps	1.08	1.05	1.01	1.03	1.03	1.10	1.05	1.08	1.10	1.38	ODB	3.14	3.16	3.23
wind	-1.0 m/s	velocity	5.38	8.46	8.70	9.05	8.87	8.87	8.31	8.70	8.46	8.31	10.16	8.17	8.73	8.68	8.49

Patterson, Kentre (USA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report					
date	10-Jun-22	time	2.50	3.55	4.60	5.60	6.64	7.67	8.72	9.78	10.84	11.91		13.46	9 / 6			
reaction time		interval		1.05	1.05	1.00	1.04	1.03	1.05	1.06	1.06	1.07	1.55			3.10	3.12	3.19
wind	0.0 m/s	velocity	5.49	8.70	8.70	9.14	8.79	8.87	8.70	8.62	8.62	8.54	9.05	8.17		8.85	8.79	8.60

Rodrigues, Eduardo (BRA) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	16-Jul-22	time	2.56	3.63	4.70	5.73	6.73	7.73	8.76	9.80	10.90	11.96	13.46	8 / 4			
reaction time	0.134	interval	7 steps	1.07	1.07	1.03	1.00	1.00	1.03	1.04	1.10	1.06	1.50		3.17	3.03	3.20
wind	0.4 m/s	velocity	5.36	8.54	8.54	8.87	9.14	9.14	8.87	8.79	8.31	8.62	9.35	8.17	8.65	9.05	8.57

Pereira, Rafael (BRA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	17-Jul-22	time	2.50	3.63	4.66	5.70	6.70	7.76	8.80	9.83	10.87	11.96	13.46	4 / 4			
reaction time	0.125	interval		1.13	1.03	1.04	1.00	1.06	1.04	1.03	1.04	1.09	1.50		3.20	3.10	3.16
wind	-0.6 m/s	velocity	5.49	8.09	8.87	8.79	9.14	8.62	8.79	8.87	8.79	8.39	9.35	8.17	8.57	8.85	8.68

Czykier, Damian (POL) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	10-Aug-22	time	2.53	3.56	4.56	5.60	6.63	7.66	8.73	9.76	10.83	11.93	13.46	7 / 7			
reaction time	0.156	interval	7 steps	1.03	1.00	1.04	1.03	1.03	1.07	1.03	1.07	1.10	1.53		3.07	3.13	3.20
wind	0.6 m/s	velocity	5.42	8.87	9.14	8.79	8.87	8.87	8.54	8.87	8.54	8.31	9.16	8.17	8.93	8.76	8.57

Ishida Thomas, Higashi (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)												Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season						
date	07-May-23	time	2.59	3.63	4.67	5.69	6.72	7.75	8.81	9.86	10.94	12.02		13.46	2 / 3			
reaction time	0.142	interval	7 steps	1.04	1.04	1.02	1.03	1.03	1.06	1.05	1.08	1.08	1.44			3.10	3.12	3.21
wind	-0.3 m/s	velocity	5.30	8.79	8.79	8.96	8.87	8.87	8.62	8.70	8.46	8.46	9.74	8.17		8.85	8.79	8.54

Yokochi, Taiga (JPN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)										Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season							
date	21-May-23	time	2.63	3.73	4.75	5.76	6.80	7.82	8.83	9.90	10.97	12.05	13.46	1 / 6			
reaction time	0.156	interval	7 steps	1.10	1.02	1.01	1.04	1.02	1.01	1.07	1.07	1.08	1.41		3.13	3.07	3.22
wind	0.8 m/s	velocity	5.22	8.31	8.96	9.05	8.79	8.96	9.05	8.54	8.54	8.46	9.94	8.17	8.76	8.93	8.52

Kwaou-Mathey, Just (FRA) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Prefontaine Classic (Eugene, OR)													Omega Timing (2023) - diamond league race analysis				
date	17-Sep-23	time	2.45	3.53	4.56	5.57	6.59	7.60	8.63	9.69	10.75	11.85	13.46	1 / 9			
reaction time	0.159	interval	7 steps	1.08	1.03	1.01	1.02	1.01	1.03	1.06	1.06	1.10	1.61		3.12	3.06	3.22
wind	0.9 m/s	velocity	5.60	8.46	8.87	9.05	8.96	9.05	8.87	8.62	8.62	8.31	8.71	8.17	8.79	8.96	8.52

Obasuyi, Michael (BEL) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report				
date	08-Jun-24	time	2.60	3.73	4.78	5.80	6.83	7.83	8.85	9.88	10.93	12.00	13.46	8 / 6			
reaction time	0.170	interval	7 steps	1.13	1.05	1.02	1.03	1.00	1.02	1.03	1.05	1.07	1.46		3.20	3.05	3.15

wind	0.6 m/s	velocity	5.28	8.09	8.70	8.96	8.87	9.14	8.96	8.87	8.70	8.54	9.60	8.17		8.57	8.99	8.70
Young, Ahmad (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)			<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>															
date	24-Jun-24	time	2.60	3.65	4.70	5.75	6.77	7.80	8.83	9.87	10.93	12.06		13.46	9 / 6			
reaction time	0.147	interval	7 steps	1.05	1.05	1.05	1.02	1.03	1.03	1.04	1.06	1.13	1.40	=PB		3.15	3.08	3.23
wind	1.8 m/s	velocity	5.28	8.70	8.70	8.70	8.96	8.87	8.87	8.79	8.62	8.09	10.01	8.17		8.70	8.90	8.49
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2024 Olympic Games (Paris, FRA)			<i>Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season</i>															
date	04-Aug-24	time	2.55	3.61	4.65	5.68	6.72	7.75	8.80	9.85	10.93	12.02		13.46	5 / 4			
reaction time	0.147	interval		1.06	1.04	1.03	1.04	1.03	1.05	1.05	1.08	1.09	1.44			3.13	3.12	3.22
wind	0.7 m/s	velocity	5.38	8.62	8.79	8.87	8.79	8.87	8.70	8.70	8.46	8.39	9.74	8.17		8.76	8.79	8.52
Martinez, Asier (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Repechage 1 - 2024 Olympic Games (Paris, FRA)			<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	06-Aug-24	time	2.50	3.58	4.62	5.65	6.68	7.70	8.73	9.76	10.80	11.86		13.46	5 / 2			
reaction time	0.162	interval	7 steps	1.08	1.04	1.03	1.03	1.02	1.03	1.03	1.04	1.06	1.60			3.15	3.08	3.13
wind	0.2 m/s	velocity	5.49	8.46	8.79	8.87	8.87	8.96	8.87	8.87	8.79	8.62	8.76	8.17		8.70	8.90	8.76
Campbell, Tonie (USA) (1960)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)			<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>															
date	26-Sep-88	time	2.60	3.65	4.68	5.68	6.70	7.73	8.77	9.81	10.89	11.97		13.47	6 / 2			
reaction time	0.163	interval	7 steps	1.05	1.03	1.00	1.02	1.03	1.04	1.04	1.08	1.08	1.50			3.08	3.09	3.20
wind	0.0 m/s	velocity	5.28	8.70	8.87	9.14	8.96	8.87	8.79	8.79	8.46	8.46	9.35	8.17		8.90	8.87	8.57
Nsenga, Jonathan (BEL) (1973)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)			<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>															
date	24-Aug-99	time	2.56	3.61	4.66	5.70	6.71	7.74	8.77	9.86	10.91	12.00		13.47	7 / 4			
reaction time	0.134	interval		1.05	1.05	1.04	1.01	1.03	1.03	1.09	1.05	1.09	1.47			3.14	3.07	3.23
wind	0.0 m/s	velocity	5.36	8.70	8.70	8.79	9.05	8.87	8.87	8.39	8.70	8.39	9.54	8.17		8.73	8.93	8.49
Balzer, Falk (GER) (1973)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2000 ISTAF (Berlin, GER)			<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>															
date	01-Sep-00	time	2.60	3.67	4.70	5.72	6.72	7.73	8.78	9.80	10.88	12.00		13.47	1 / 4			
reaction time	0.158	interval		1.07	1.03	1.02	1.00	1.01	1.05	1.02	1.08	1.12	1.47			3.12	3.06	3.22
wind	-0.4 m/s	velocity	5.28	8.54	8.87	8.96	9.14	9.05	8.70	8.96	8.46	8.16	9.54	8.17		8.79	8.96	8.52
Chen Yanhao (CHN) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2001 Chinese National Grand Prix (Ningbo, CHN)			<i>Fang (2001) - analysis on technical characteristics in Liu Xiang's 110m hurdles</i>															
date	28-Apr-01	time	2.66	3.74	4.78	5.83	6.87	7.89	8.93	9.97	11.02	12.06		13.47	1 / 2			
reaction time		interval		1.08	1.04	1.05	1.04	1.02	1.04	1.04	1.05	1.04	1.41	PB		3.17	3.10	3.13
wind	2.5 m/s	velocity	5.16	8.46	8.79	8.70	8.79	8.96	8.79	8.79	8.70	8.79	9.94	8.17		8.65	8.85	8.76
Shi Dongpeng (CHN) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 National Grand Prix (Zhaoqing, CHN)			<i>Zhao (2009) - kinematic research on the 110m hurdle technique of Shi Dongpeng</i>															
date	19-May-07	time	2.63	3.70	4.73	5.75	6.77	7.79	8.82	9.86	10.92	11.99		13.47	1 / 1			
reaction time		interval		1.07	1.03	1.02	1.02	1.02	1.03	1.04	1.06	1.07	1.48			3.12	3.07	3.17
wind	0.4 m/s	velocity	5.22	8.54	8.87	8.96	8.96	8.96	8.87	8.79	8.62	8.54	9.47	8.17		8.79	8.93	8.65
Xie Wenjun (CHN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 Golden Grand Prix (Shanghai, CHN)			<i>Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles</i>															
date	20-Sep-08	time	2.66	3.70	4.74	5.78	6.80	7.84	8.90	9.94	11.04	12.08		13.47	1 / 2			
reaction time	0.223	interval		1.04	1.04	1.04	1.02	1.04	1.06	1.04	1.10	1.04	1.39	PB		3.12	3.12	3.18
wind	0.2 m/s	velocity	5.16	8.79	8.79	8.79	8.96	8.79	8.62	8.79	8.31	8.79	10.09	8.17		8.79	8.79	8.62
Sands, Shamar (BAH) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>															
date	20-Aug-09	time	2.51	3.58	4.62	5.64	6.68	7.73	8.78	9.86	10.94	12.04		13.47	1 / 4			
reaction time	0.144	interval		1.07	1.04	1.02	1.04	1.05	1.05	1.08	1.08	1.10	1.43			3.13	3.14	3.26
wind	0.1 m/s	velocity	5.47	8.54	8.79	8.96	8.79	8.70	8.70	8.46	8.46	8.31	9.80	8.17		8.76	8.73	8.41
Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Fuse Sprint (Tottori, JPN)			<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>															
date	05-Jun-16	time	2.61	3.67	4.72	5.76	6.79	7.84	8.88	9.93	11.00	12.07		13.47	5 / 1			
reaction time		interval	7 steps	1.06	1.05	1.04	1.03	1.05	1.04	1.05	1.07	1.07	1.40	PB		3.15	3.12	3.19
wind	1.4 m/s	velocity	5.26	8.62	8.70	8.79	8.87	8.70	8.79	8.70	8.54	8.54	10.01	8.17		8.70	8.79	8.60
Mallett, Aaron (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	09-Jul-17	time	2.58	3.66	4.74	5.76	6.78	7.82	8.84	9.88	10.92	11.98		13.47	1 / 6			
reaction time	0.198	interval	7 steps	1.08	1.08	1.02	1.02	1.04	1.02	1.04	1.04	1.06	1.49			3.18	3.08	3.14
wind	0.0 m/s	velocity	5.32	8.46	8.46	8.96	8.96	8.79	8.96	8.79	8.79	8.62	9.41	8.17		8.62	8.90	8.73

Baji, Balázs (HUN) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Müller Grand Prix (Birmingham, GBR) (TV Analysis)		Henson (2020) - Athlete First: 2017 year end hurdle report																
date	20-Aug-17	time	2.48	3.56	4.60	5.64	6.64	7.66	8.70	9.74	10.82	11.90	13.47	8 / 4				
reaction time	0.132	interval	7 steps	1.08	1.04	1.04	1.00	1.02	1.04	1.04	1.08	1.08	1.57			3.16	3.06	3.20
wind	-0.6 m/s	velocity	5.53	8.46	8.79	8.79	9.14	8.96	8.79	8.79	8.46	8.46	8.93	8.17		8.68	8.96	8.57
Trajkovic, Milan (CYP) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Memorial van Damme (Brussels, BEL) (TV Analysis)		Henson (2020) - Athlete First: 2017 year end hurdle report																
date	01-Sep-17	time	2.52	3.58	4.62	5.64	6.68	7.72	8.76	9.82	10.88	11.96	13.47	2 / 7				
reaction time	0.142	interval	7 steps	1.06	1.04	1.02	1.04	1.04	1.04	1.06	1.06	1.08	1.51			3.12	3.12	3.20
wind	0.5 m/s	velocity	5.44	8.62	8.79	8.96	8.79	8.79	8.79	8.62	8.62	8.46	9.28	8.17		8.79	8.79	8.57
Levy, Ronald (JAM) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)		Henson (2020) - Athlete First: 2018 year end hurdle report																
date	31-Aug-18	time	2.50	3.56	4.60	5.62	6.62	7.64	8.68	9.74	10.86	11.96	13.47	4 / 7				
reaction time	0.148	interval	7 steps	1.06	1.04	1.02	1.00	1.02	1.04	1.06	1.12	1.10	1.51			3.12	3.06	3.28
wind	-0.1 m/s	velocity	5.49	8.62	8.79	8.96	9.14	8.96	8.79	8.62	8.16	8.31	9.28	8.17		8.79	8.96	8.36
Xie Wenjun (CHN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2019 Asian Athletics Championships (Doha, QAT)		CAA Hurdle Development (2019)																
date	23-Apr-19	time	2.61	3.67	4.71	5.77	6.79	7.82	8.86	9.91	10.95	12.01	13.47	3 / 1				
reaction time	0.159	interval	7 steps	1.06	1.04	1.06	1.02	1.03	1.04	1.05	1.04	1.06	1.46			3.16	3.09	3.15
wind	1.6 m/s	velocity	5.26	8.62	8.79	8.62	8.96	8.87	8.79	8.70	8.79	8.62	9.60	8.17		8.68	8.87	8.70
Alkana, Antonio (RSA) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)		CAA Hurdle Development (2019)																
date	18-May-19	time	2.54	3.60	4.68	5.72	6.76	7.78	8.82	9.86	10.92	12.02	13.47	2 / 8				
reaction time	0.132	interval		1.06	1.08	1.04	1.04	1.02	1.04	1.04	1.06	1.10	1.45			3.18	3.10	3.20
wind	0.7 m/s	velocity	5.40	8.62	8.46	8.79	8.79	8.96	8.79	8.79	8.62	8.31	9.67	8.17		8.62	8.85	8.57
Kanai, Taio (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)		Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season																
date	19-May-19	time	2.54	3.61	4.67	5.71	6.75	7.79	8.82	9.90	10.98	12.06	13.47	5 / 3				
reaction time	0.102	interval	7 steps	1.07	1.06	1.04	1.04	1.04	1.03	1.08	1.08	1.08	1.41			3.17	3.11	3.24
wind	2.9 m/s	velocity	5.40	8.54	8.62	8.79	8.79	8.79	8.87	8.46	8.46	8.46	9.94	8.17		8.65	8.82	8.46
Liu Bowen (CHN) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)		CAA Hurdle Development (2019)																
date	14-Aug-19	time	2.54	3.61	4.67	5.69	6.73	7.76	8.80	9.86	10.91	11.99	13.47	5 / 2				
reaction time	0.144	interval		1.07	1.06	1.02	1.04	1.03	1.04	1.06	1.05	1.08	1.48	PB		3.15	3.11	3.19
wind	-0.3 m/s	velocity	5.40	8.54	8.62	8.96	8.79	8.87	8.79	8.62	8.70	8.46	9.47	8.17		8.70	8.82	8.60
Alkana, Antonio (RSA) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)		CAA Hurdle Development (2019)																
date	02-Oct-19	time	2.58	3.61	4.67	5.69	6.73	7.77	8.81	9.87	10.94	12.03	13.47	5 / 3				
reaction time	0.123	interval		1.03	1.06	1.02	1.04	1.04	1.04	1.06	1.07	1.09	1.44			3.11	3.12	3.22
wind	0.6 m/s	velocity	5.32	8.87	8.62	8.96	8.79	8.79	8.79	8.62	8.54	8.39	9.74	8.17		8.82	8.79	8.52
Takayama, Shunya (JPN) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Japanese National Championships (Niigata, JPN)		Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season																
date	03-Oct-20	time	2.57	3.60	4.63	5.66	6.70	7.73	8.78	9.84	10.92	12.02	13.47	7 / 2				
reaction time	0.146	interval		1.03	1.03	1.03	1.04	1.03	1.05	1.06	1.08	1.10	1.45			3.09	3.12	3.24
wind	-0.1 m/s	velocity	5.34	8.87	8.87	8.87	8.79	8.87	8.70	8.62	8.46	8.31	9.67	8.17		8.87	8.79	8.46
Britt, Jamal (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)		Henson (2021) - Athlete First: 2021 year end hurdle report																
date	26-Jun-21	time	2.47	3.53	4.57	5.60	6.64	7.67	8.72	9.77	10.85	11.95	13.47	7 / 7				
reaction time	0.158	interval	7 steps	1.06	1.04	1.03	1.04	1.03	1.05	1.05	1.08	1.10	1.52			3.13	3.12	3.23
wind	0.4 m/s	velocity	5.55	8.62	8.79	8.87	8.79	8.87	8.70	8.70	8.46	8.31	9.22	8.17		8.76	8.79	8.49
Yokochi, Taiga (JPN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Japanese National Championships (Osaka, JPN)		Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season																
date	27-Jun-21	time	2.62	3.70	4.72	5.75	6.76	7.77	8.84	9.89	10.96	12.03	13.47	8 / 5				
reaction time	0.167	interval	7 steps	1.08	1.02	1.03	1.01	1.01	1.07	1.05	1.07	1.07	1.44	PB		3.13	3.09	3.19
wind	1.2 m/s	velocity	5.24	8.46	8.96	8.87	9.05	9.05	8.54	8.70	8.54	8.54	9.74	8.17		8.76	8.87	8.60
Szűcs, Valdó (HUN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)		Henson (2021) - Athlete First: 2021 year end hurdle report																
date	06-Jul-21	time	2.45	3.50	4.52	5.57	6.61	7.61	8.67	9.72	10.78	11.86	13.47	2 / 5				
reaction time	0.147	interval	7 steps	1.05	1.02	1.05	1.04	1.00	1.06	1.05	1.06	1.08	1.61			3.12	3.10	3.19
wind	-0.1 m/s	velocity	5.60	8.70	8.96	8.70	8.79	9.14	8.62	8.70	8.62	8.46	8.71	8.17		8.79	8.85	8.60

Brathwaite, Shane (BAR) (1990)																
Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																
date	16-Jul-22	time	2.56	3.66	4.70	5.73	6.73	7.76	8.80	9.83	10.90	11.96		13.47	3 / 4	
reaction time	0.134	interval	7 steps	1.10	1.04	1.03	1.00	1.03	1.04	1.03	1.07	1.06	1.51		3.17	3.07
wind	0.2 m/s	velocity	5.36	8.31	8.79	8.87	9.14	8.87	8.79	8.87	8.54	8.62	9.28	8.17	8.65	8.93
Allen, Devon (USA) (1994)																
Heat 5 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																
date	16-Jul-22	time	2.56	3.58	4.63	5.63	6.66	7.70	8.76	9.83	10.93	12.00		13.47	3 / 1	
reaction time	0.123	interval	7 steps	1.02	1.05	1.00	1.03	1.04	1.06	1.07	1.10	1.07	1.47		3.07	3.13
wind	0.4 m/s	velocity	5.36	8.96	8.70	9.14	8.87	8.79	8.62	8.54	8.31	8.54	9.54	8.17	8.93	8.76
Zhoya, Sasha (FRA) (2002)																
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																
date	17-Jul-22	time	2.50	3.63	4.70	5.76	6.80	7.83	8.83	9.88	10.96	12.00		13.47	8 / 5	
reaction time	0.154	interval	7 steps	1.13	1.07	1.06	1.04	1.03	1.00	1.05	1.08	1.04	1.47		3.26	3.07
wind	-0.6 m/s	velocity	5.49	8.09	8.54	8.62	8.79	8.87	9.14	8.70	8.46	8.79	9.54	8.17	8.41	8.93
Takayama, Shunya (JPN) (1994)																
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)																
date	29-Apr-23	time	2.56	3.60	4.63	5.68	6.73	7.78	8.83	9.88	10.95	12.03		13.47	4 / 2	
reaction time	0.135	interval		1.04	1.03	1.05	1.05	1.05	1.05	1.05	1.07	1.08	1.44		3.12	3.15
wind	0.3 m/s	velocity	5.36	8.79	8.87	8.70	8.70	8.70	8.70	8.70	8.54	8.46	9.74	8.17	8.79	8.70
Pereira, Rafael (BRA) (1997)																
FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)																
date	02-Jun-23	time	2.54	3.58	4.64	5.64	6.66	7.70	8.74	9.82	10.88	11.97		13.47	2 / 7	
reaction time	0.145	interval		1.04	1.06	1.00	1.02	1.04	1.04	1.08	1.06	1.09	1.50		3.10	3.10
wind	-0.2 m/s	velocity	5.40	8.79	8.62	9.14	8.96	8.79	8.79	8.46	8.62	8.39	9.35	8.17	8.85	8.85
Yokochi, Taiga (JPN) (2000)																
FINAL - 2024 Michitaka Kinami Memorial (Osaka, JPN)																
date	12-May-24	time	2.67	3.73	4.78	5.82	6.83	7.85	8.87	9.93	10.98	12.07		13.47	7 / 2	
reaction time	0.179	interval		1.06	1.05	1.04	1.01	1.02	1.02	1.06	1.05	1.09	1.40		3.15	3.05
wind	0.9 m/s	velocity	5.14	8.62	8.70	8.79	9.05	8.96	8.96	8.62	8.70	8.39	10.01	8.17	8.70	8.99
Shulman, Connor (USA) (2001)																
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)																
date	09-Jun-23	time	2.53	3.57	4.62	5.64	6.66	7.72	8.79	9.84	10.89	11.97		13.47	6 / 7	
reaction time	0.179	interval	7 steps	1.04	1.05	1.02	1.02	1.06	1.07	1.05	1.05	1.08	1.50		3.11	3.15
wind	1.8 m/s	velocity	5.42	8.79	8.70	8.96	8.96	8.62	8.54	8.70	8.70	8.46	9.35	8.17	8.82	8.70
Ishikawa, Shuhei (JPN) (1995)																
FINAL - 2024 Japanese National Championships (Niigata, JPN)																
date	30-Jun-24	time	2.55	3.60	4.63	5.67	6.71	7.74	8.79	9.85	10.92	12.02		13.47	3 / 6	
reaction time	0.132	interval	7 steps	1.05	1.03	1.04	1.04	1.03	1.05	1.06	1.07	1.10	1.45		3.12	3.12
wind	0.2 m/s	velocity	5.38	8.70	8.87	8.79	8.79	8.87	8.70	8.62	8.54	8.31	9.67	8.17	8.79	8.79
Xu Zhuoyi (CHN) (2003)																
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)																
date	30-Jun-24	time	2.64	3.72	4.74	5.75	6.77	7.80	8.84	9.89	10.94	12.04		13.47	6 / 2	
reaction time	0.147	interval	7 steps	1.08	1.02	1.01	1.02	1.03	1.04	1.05	1.05	1.10	1.43		3.11	3.09
wind	0.9 m/s	velocity	5.20	8.46	8.96	9.05	8.96	8.87	8.79	8.70	8.70	8.31	9.80	8.17	8.82	8.87
Lecoeur, Romain (FRA) (1997)																
Heat 1 - 2024 Meeting de Paris (Paris, FRA)																
date	07-Jul-24	time	2.51	3.60	4.62	5.63	6.66	7.69	8.72	9.75	10.80	11.86		13.47	1 / 8	
reaction time	0.177	interval	7 steps	1.09	1.02	1.01	1.03	1.03	1.03	1.03	1.05	1.06	1.61		3.12	3.09
wind	0.1 m/s	velocity	5.47	8.39	8.96	9.05	8.87	8.87	8.87	8.87	8.70	8.62	8.71	8.17	8.79	8.87
Martinez, Asier (ESP) (2000)																
Heat 2 - 2024 Olympic Games (Paris, FRA)																
date	04-Aug-24	time	2.46	3.56	4.62	5.65	6.69	7.73	8.77	9.82	10.86	11.92		13.47	5 / 4	
reaction time	0.141	interval	7 steps	1.10	1.06	1.03	1.04	1.04	1.04	1.05	1.04	1.06	1.55		3.19	3.12
wind	1.2 m/s	velocity	5.58	8.31	8.62	8.87	8.79	8.79	8.79	8.70	8.79	8.62	9.05	8.17	8.60	8.79
Pereira, Rafael (BRA) (1997)																
Heat 3 - 2024 Olympic Games (Paris, FRA)																
date	04-Aug-24	time	2.41	3.49	4.55	5.59	6.61	7.63	8.66	9.71	10.77	11.86		13.47	4 / 6	
reaction time	0.142	interval		1.08	1.06	1.04	1.02	1.02	1.03	1.05	1.06	1.09	1.61		3.18	3.07
wind	1.1 m/s	velocity	5.69	8.46	8.62	8.79	8.96	8.96	8.87	8.70	8.62	8.39	8.71	8.17	8.62	8.93
Ojora, Tade (GBR) (1999)																

Semi-Final 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time	2.35	3.45	4.52	5.56	6.60	7.64	8.70	9.75	10.81	11.88		13.47	3 / 7			
reaction time	0.141	interval	7 steps	1.10	1.07	1.04	1.04	1.04	1.06	1.05	1.06	1.07	1.59			3.21	3.14	3.18
wind	-0.1 m/s	velocity	5.84	8.31	8.54	8.79	8.79	8.79	8.62	8.70	8.62	8.54	8.82	8.17		8.54	8.73	8.62

Belocian, Wilhem (FRA) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Short Hurdles - 2025 Grand Slam Track Miami (Miramar, FL) (TV Analysis)

Henson (2025) - Athlete First: 2025 year end hurdle report

date	02-May-25	time	2.57	3.60	4.64	5.62	6.62	7.67	8.71	9.77	10.84	11.95		13.47	1 / 8			
reaction time	0.170	interval	7 steps	1.03	1.04	0.98	1.00	1.05	1.04	1.06	1.07	1.11	1.52			3.05	3.09	3.24
wind	1.4 m/s	velocity	5.34	8.87	8.79	9.33	9.14	8.70	8.79	8.62	8.54	8.23	9.22	8.17		8.99	8.87	8.46

Hill, Thomas (USA) (1949)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1972 Olympic Games (Munich, FRG)

Kay (1972) - BAAB Munich Technical Report

date	07-Sep-72	time	2.5	3.5	4.6	5.6	6.6	7.6	8.7	9.8	10.9	12.0		13.48	7 / 3			
reaction time		interval		1.00	1.10	1.00	1.00	1.00	1.10	1.10	1.10	1.10	1.48			3.10	3.10	3.30
wind	0.3 m/s	velocity	5.49	9.14	8.31	9.14	9.14	9.14	8.31	8.31	8.31	8.31	9.47	8.16		8.85	8.85	8.31

Gault, Willie (USA) (1960)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1983 IAAF World Championships (Helsinki, FIN)

Knoke (1984) - the hurdles

date	12-Aug-83	time	2.54	3.57	4.64	5.69	6.72	7.74	8.78	9.83	10.97	12.05		13.48	8 / 3			
reaction time	0.161	interval		1.03	1.07	1.05	1.03	1.02	1.04	1.05	1.14	1.08	1.43			3.15	3.09	3.27
wind	1.3 m/s	velocity	5.40	8.87	8.54	8.70	8.87	8.96	8.79	8.70	8.02	8.46	9.80	8.16		8.70	8.87	8.39

Allen, Charles (CAN) (1977)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2004 Olympic Games (Athens, GRE)

Ruiz (2004) - las carreras con vallas de juegos olímpicos de atenas '04

date	27-Aug-04	time	2.46	3.50	4.53	5.57	6.63	7.66	8.71	9.75	10.82	11.88		13.48	1 / 6			
reaction time	0.139	interval		1.04	1.03	1.04	1.06	1.03	1.05	1.04	1.07	1.06	1.60			3.11	3.14	3.17
wind	0.3 m/s	velocity	5.58	8.79	8.87	8.79	8.62	8.87	8.70	8.79	8.54	8.62	8.76	8.16		8.82	8.73	8.65

Turner, Andy (GBR) (1980)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2007 European Cup (Munich, GER)Graubner (2007) - <http://www.fgs.uni-halle.de>

date	24-Jun-07	time	2.62	3.66	4.69	5.73	6.76	7.80	8.85	9.91	10.98	12.07		13.48	1 / 2			
reaction time	0.156	interval		1.04	1.03	1.04	1.03	1.04	1.05	1.06	1.07	1.09	1.41			3.11	3.12	3.22
wind	0.4 m/s	velocity	5.24	8.79	8.87	8.79	8.87	8.79	8.70	8.62	8.54	8.39	9.94	8.16		8.82	8.79	8.52

Shi Dongpeng (CHN) (1984)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2009 Osaka Grand Prix (Osaka, JPN)

Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles

date	09-May-09	time	2.64	3.70	4.74	5.79	6.83	7.84	8.88	9.95	11.00	12.09		13.48	1 / 2			
reaction time		interval		1.06	1.04	1.05	1.04	1.01	1.04	1.07	1.05	1.09	1.39			3.15	3.09	3.21
wind	0.2 m/s	velocity	5.20	8.62	8.79	8.70	8.79	9.05	8.79	8.54	8.70	8.39	10.09	8.16		8.70	8.87	8.54

Xie Wenjun (CHN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 Chinese National Grand Prix (Wuhan, CHN)

Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles

date	29-Apr-12	time	2.64	3.72	4.76	5.82	6.86	7.88	8.92	9.95	11.00	12.08		13.48	1 / 1			
reaction time		interval		1.08	1.04	1.06	1.04	1.02	1.04	1.03	1.05	1.08	1.40			3.18	3.10	3.16
wind	1.1 m/s	velocity	5.20	8.46	8.79	8.62	8.79	8.96	8.79	8.87	8.70	8.46	10.01	8.16		8.62	8.85	8.68

Xie Wenjun (CHN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 Chinese National Grand Prix (Zibo, CHN)

Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles

date	27-May-12	time	2.64	3.72	4.76	5.82	6.86	7.88	8.92	9.95	11.00	12.08		13.48	1 / 1			
reaction time		interval		1.08	1.04	1.06	1.04	1.02	1.04	1.03	1.05	1.08	1.40			3.18	3.10	3.16
wind	0.1 m/s	velocity	5.20	8.46	8.79	8.62	8.79	8.96	8.79	8.87	8.70	8.46	10.01	8.16		8.62	8.85	8.68

Mazáč, Martin (CZE) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2013 Czech Republic National Championships (Tábor, CZE)

Feher (2013) - Final report from the men's & women's Czech Republic national championships

date	15-Jun-13	time	2.66	3.72	4.76	5.78	6.79	7.81	8.88	9.95	11.00	12.04		13.48	4 / 1			
reaction time	0.151	interval		1.06	1.04	1.02	1.01	1.02	1.07	1.07	1.05	1.04	1.44			3.12	3.10	3.16
wind	0.4 m/s	velocity	5.16	8.62	8.79	8.96	9.05	8.96	8.54	8.54	8.70	8.79	9.74	8.16		8.79	8.85	8.68

Porter, Jeff (USA) (1985)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)

Henson (2021) - Athlete First: 2016 year end hurdle report

date	28-May-16	time	2.52	3.58	4.62	5.64	6.68	7.74	8.78	9.82	10.88	11.96		13.48	1 / 3			
reaction time		interval		1.06	1.04	1.02	1.04	1.06	1.04	1.04	1.06	1.08	1.52			3.12	3.14	3.18
wind	0.7 m/s	velocity	5.44	8.62	8.79	8.96	8.79	8.62	8.79	8.79	8.62	8.46	9.22	8.16		8.79	8.73	8.62

Yazawa, Wataru (JPN) (1991)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2016 Japanese National Championships (Nagoya, JPN)

Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers

date	26-Jun-16	time	2.62	3.69	4.73	5.77	6.81	7.85	8.88	9.93	10.98	12.06		13.48	7 / 1			
reaction time	0.138	interval		1.07	1.04	1.04	1.04	1.04	1.03	1.05	1.05	1.08	1.42			3.15	3.11	3.18
wind	2.4 m/s	velocity	5.24	8.54	8.79	8.79	8.79	8.79	8.87	8.70	8.70	8.46	9.87	8.16		8.70	8.82	8.62

Lovett, Eddie (ISV) (1992)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)

Henson (2020) - Athlete First: 2017 year end hurdle report

date		time																
reaction time		interval																
wind		velocity																

date	09-Jul-17	time	2.52	3.56	4.60	5.64	6.68	7.70	8.74	9.80	10.90	12.00	13.48	3 / 7			
reaction time	0.144	interval	7 steps	1.04	1.04	1.04	1.04	1.02	1.04	1.06	1.10	1.10	1.48		3.12	3.10	3.26
wind	0.0 m/s	velocity	5.44	8.79	8.79	8.79	8.79	8.96	8.79	8.62	8.31	8.31	9.47	8.16	8.79	8.85	8.41
Ortega, Orlando (ESP) (1991)																	
FINAL - 2017 Müller Grand Prix (Birmingham, GBR) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																	
date	20-Aug-17	time	2.56	3.62	4.68	5.72	6.74	7.78	8.82	9.86	10.92	12.02	13.48	4 / 5			
reaction time	0.140	interval		1.06	1.06	1.04	1.02	1.04	1.04	1.04	1.06	1.10	1.46		3.16	3.10	3.20
wind	-0.6 m/s	velocity	5.36	8.62	8.62	8.79	8.96	8.79	8.79	8.79	8.62	8.31	9.60	8.16	8.68	8.85	8.57
Parchment, Hansle (JAM) (1990)																	
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																	
date	12-May-18	time	2.58	3.64	4.68	5.70	6.74	7.74	8.78	9.82	10.86	11.94	13.48	2 / 5			
reaction time	0.137	interval	7 steps	1.06	1.04	1.02	1.04	1.00	1.04	1.04	1.04	1.08	1.54		3.12	3.08	3.16
wind	0.2 m/s	velocity	5.32	8.62	8.79	8.96	8.79	9.14	8.79	8.79	8.79	8.46	9.10	8.16	8.79	8.90	8.68
Manga, Aurel (FRA) (1992)																	
FINAL - 2018 Meeting de Paris (Paris, FRA) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																	
date	30-Jun-18	time	2.50	3.56	4.60	5.64	6.66	7.70	8.74	9.78	10.86	11.94	13.48	8 / 7			
reaction time	0.157	interval	7 steps	1.06	1.04	1.04	1.02	1.04	1.04	1.04	1.08	1.08	1.54		3.14	3.10	3.20
wind	1.5 m/s	velocity	5.49	8.62	8.79	8.79	8.96	8.79	8.79	8.79	8.46	8.46	9.10	8.16	8.73	8.85	8.57
Takayama, Shunya (JPN) (1994)																	
FINAL - 2018 Asian Games (Jakarta, INA)																	
<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																	
date	28-Aug-18	time	2.56	3.60	4.63	5.66	6.70	7.74	8.78	9.85	10.93	12.03	13.48	4 / 3			
reaction time	0.147	interval		1.04	1.03	1.03	1.04	1.04	1.04	1.07	1.08	1.10	1.45		3.10	3.12	3.25
wind	0.0 m/s	velocity	5.36	8.79	8.87	8.87	8.79	8.79	8.79	8.54	8.46	8.31	9.67	8.16	8.85	8.79	8.44
McLeod, Omar (JAM) (1994)																	
FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																	
date	16-Jun-19	time	2.44	3.46	4.48	5.48	6.50	7.52	8.56	9.58	10.62	11.72	13.48	5 / 5			
reaction time	0.145	interval		1.02	1.02	1.00	1.02	1.02	1.04	1.02	1.04	1.10	1.76		3.04	3.08	3.16
wind	0.3 m/s	velocity	5.62	8.96	8.96	9.14	8.96	8.96	8.79	8.96	8.79	8.31	7.97	8.16	9.02	8.90	8.68
Santos, Miguel (ESP) (1973)																	
FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																	
date	10-Aug-19	time	2.70	3.74	4.77	5.77	6.80	7.80	8.84	9.88	10.92	12.03	13.48	8 / 3			
reaction time	0.193	interval		1.04	1.03	1.00	1.03	1.00	1.04	1.04	1.04	1.11	1.45		3.07	3.07	3.19
wind	1.8 m/s	velocity	5.08	8.79	8.87	9.14	8.87	9.14	8.79	8.79	8.79	8.23	9.67	8.16	8.93	8.93	8.60
Roberts, Daniel (USA) (1998)																	
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																	
date	18-Aug-19	time	2.54	3.56	4.61	5.64	6.62	7.64	8.66	9.69	10.77	11.87	13.48	6 / 4			
reaction time	0.200	interval		1.02	1.05	1.03	0.98	1.02	1.02	1.03	1.08	1.10	1.61		3.10	3.02	3.21
wind	-0.2 m/s	velocity	5.40	8.96	8.70	8.87	9.33	8.96	8.96	8.87	8.46	8.31	8.71	8.16	8.85	9.08	8.54
Bascou, Dimitri (FRA) (1987)																	
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)																	
<i>CAA Hurdle Development (2019)</i>																	
date	02-Oct-19	time	2.58	3.62	4.66	5.68	6.70	7.74	8.80	9.88	10.94	12.04	13.48	2 / 3			
reaction time	0.152	interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.06	1.08	1.06	1.10	1.44		3.10	3.12	3.24
wind	1.1 m/s	velocity	5.32	8.79	8.79	8.96	8.96	8.79	8.62	8.46	8.62	8.31	9.74	8.16	8.85	8.79	8.46
Izumiya, Shunsuke (JPN) (2000)																	
FINAL - 2020 Japanese National Championships (Niigata, JPN)																	
<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>																	
date	03-Oct-20	time	2.59	3.65	4.69	5.71	6.74	7.81	8.85	9.92	10.97	12.07	13.48	5 / 3			
reaction time	0.130	interval		1.06	1.04	1.02	1.03	1.07	1.04	1.07	1.05	1.10	1.41		3.12	3.14	3.22
wind	-0.1 m/s	velocity	5.30	8.62	8.79	8.96	8.87	8.54	8.79	8.54	8.70	8.31	9.94	8.16	8.79	8.73	8.52
Ishikawa, Shuhei (JPN) (1995)																	
FINAL - 2021 Fuse Sprint (Tottori, JPN)																	
<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>																	
date	06-Jun-21	time	2.60	3.64	4.68	5.71	6.73	7.75	8.82	9.86	10.93	12.03	13.48	7 / 2			
reaction time	0.152	interval	7 steps	1.04	1.04	1.03	1.02	1.02	1.07	1.04	1.07	1.10	1.45		3.11	3.11	3.21
wind	1.8 m/s	velocity	5.28	8.79	8.79	8.87	8.96	8.96	8.54	8.79	8.54	8.31	9.67	8.16	8.82	8.82	8.54
Takayama, Shunya (JPN) (1994)																	
FINAL - 2021 Fuse Sprint (Tottori, JPN)																	
<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>																	
date	06-Jun-21	time	2.56	3.61	4.64	5.68	6.71	7.75	8.79	9.85	10.91	12.02	13.48	6 / 3			
reaction time	0.145	interval		1.05	1.03	1.04	1.03	1.04	1.04	1.06	1.06	1.11	1.46		3.12	3.11	3.23
wind	1.8 m/s	velocity	5.36	8.70	8.87	8.79	8.87	8.79	8.79	8.62	8.62	8.23	9.60	8.16	8.79	8.82	8.49
Lakka, Elmo (FIN) (1993)																	
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																	
<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																	
date	03-Aug-21	time	2.61	3.66	4.69	5.68	6.70	7.73	8.77	9.81	10.87	11.98	13.48	6 / 5			

reaction time	0.145	interval	7 steps	1.05	1.03	0.99	1.02	1.03	1.04	1.04	1.06	1.11	1.50			3.07	3.09	3.21
wind	-0.1 m/s	velocity	5.26	8.70	8.87	9.23	8.96	8.87	8.79	8.79	8.62	8.23	9.35	8.16		8.93	8.87	8.54

Nishi, Tetsuro (JPN) (2004)

ashi, Tetsuro (JPN) (2004)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese U18 National Championships (Matsuyama, JPN) (99cm)										Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season							
date	22-Oct-21	time	2.61	3.68	4.72	5.75	6.77	7.80	8.83	9.87	10.92	11.98	13.48	5 / 1			
reaction time	0.131	interval	7 steps	1.07	1.04	1.03	1.02	1.03	1.03	1.04	1.05	1.06	1.50		3.14	3.08	3.15
wind	-0.6 m/s	velocity	5.26	8.54	8.79	8.87	8.96	8.87	8.87	8.79	8.70	8.62	9.35	8.16	8.73	8.90	8.70

Ishikawa, Shuhei (JPN) (1995)

hiikawa, Shuhei (JPN) (1995)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Japanese National Championships (Osaka, JPN)										Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season							
date	12-Jun-22	time	2.60	3.67	4.70	5.72	6.75	7.77	8.83	9.88	10.93	12.03	13.48	4 / 3			
reaction time	0.155	interval	7 steps	1.07	1.03	1.02	1.03	1.02	1.06	1.05	1.05	1.10	1.45		3.12	3.11	3.20
wind	-1.2 m/s	velocity	5.28	8.54	8.87	8.96	8.87	8.96	8.62	8.70	8.70	8.31	9.67	8.16	8.79	8.82	8.57

Zhoya, Sasha (FRA) (2002)

Noya, Sasha (FRA) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	16-Jul-22	time	2.46	3.53	4.60	5.60	6.63	7.66	8.70	9.80	10.86	12.00	13.48	6 / 3			
reaction time	0.132	interval	7 steps	1.07	1.07	1.00	1.03	1.03	1.04	1.10	1.06	1.14	1.48		3.14	3.10	3.30
wind	-0.3 m/s	velocity	5.58	8.54	8.54	9.14	8.87	8.87	8.79	8.31	8.62	8.02	9.47	8.16	8.73	8.85	8.31

McCorry, Jacob (AUS) (1997)

Corry, Jacob (AUS) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)										Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season							
date	21-May-23	time	2.60	3.67	4.70	5.74	6.78	7.81	8.86	9.93	10.99	12.06	13.48	9 / 7			
reaction time	0.117	interval	7 steps	1.07	1.03	1.04	1.04	1.03	1.05	1.07	1.06	1.07	1.42	PB	3.14	3.12	3.20
wind	0.8 m/s	velocity	5.28	8.54	8.87	8.79	8.79	8.87	8.70	8.54	8.62	8.54	9.87	8.16	8.73	8.79	8.57

Dickson, Michael (USA) (1997)

Jackson, Michael (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)												Henson (2023) - Athlete First: 2023 year end hurdle report					
date	21-May-23	time	2.56	3.69	4.73	5.76	6.82	7.87	8.90	9.93	11.02	12.06	13.48	7 / 6			
reaction time	0.190	interval	7 steps	1.13	1.04	1.03	1.06	1.05	1.03	1.03	1.09	1.04	1.42		3.20	3.14	3.16
wind	4.0 m/s	velocity	5.36	8.09	8.79	8.87	8.62	8.70	8.87	8.87	8.39	8.79	9.87	8.16	8.57	8.73	8.68

Liu Junxi (CHN) (2003)

Lu Junxi (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)														Omega Timing (2024) - diamond league race analysis				
date	20-Apr-24	time	2.44	3.51	4.55	5.57	6.63	7.65	8.68	9.72	10.78	11.86		13.48	10 / 7			
reaction time	0.159	interval	7 steps	1.07	1.04	1.02	1.06	1.02	1.03	1.04	1.06	1.08	1.62			3.13	3.11	3.18
wind	-0.3 m/s	velocity	5.62	8.54	8.79	8.96	8.62	8.96	8.87	8.79	8.62	8.46	8.65	8.16		8.76	8.82	8.62

Ishikawa, Shuhei (JPN) (1995)

Shikawa, Shuhei (JPN) (1995)																	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Fuse Sprint (Tottori, JPN)																	Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date	02-Jun-24		time	2.57	3.63	4.66	5.69	6.73	7.78	8.83	9.89	10.96	12.05	13.48		3 / 4																
reaction time	0.138		interval	7 steps	1.06	1.03	1.03	1.04	1.05	1.05	1.06	1.07	1.09	1.43				3.12	3.14	3.22												
wind	1.3 m/s		velocity	5.34	8.62	8.87	8.87	8.79	8.70	8.70	8.62	8.54	8.39	9.80	8.16				8.79	8.73	8.52											

Fujii, Ryota (JPN) (1996)

Jiji, Ryota (JPN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National Championships (Niigata, JPN)							Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season										
date	30-Jun-24	time	2.58	3.62	4.66	5.68	6.70	7.73	8.80	9.86	10.93	12.02	13.48	2 / 7			
reaction time	0.159	interval		1.04	1.04	1.02	1.02	1.03	1.07	1.06	1.07	1.09	1.46		3.10	3.12	3.22
wind	0.2 m/s	velocity	5.32	8.79	8.79	8.96	8.96	8.87	8.54	8.62	8.54	8.39	9.60	8.16	8.85	8.79	8.52

Mordi, Manuel (GER) (2003)

ordi, Manuel (GER) (2003)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)				
date	04-Aug-24	time	2.46	3.54	4.58	5.59	6.61	7.62	8.66	9.72	10.79	11.86	13.48	6 / 4			
reaction time	0.159	interval	7 steps	1.08	1.04	1.01	1.02	1.01	1.04	1.06	1.07	1.07	1.62		3.13	3.07	3.20
wind	0.1 m/s	velocity	5.58	8.46	8.79	9.05	8.96	9.05	8.79	8.62	8.54	8.54	8.65	8.16	8.76	8.93	8.57

Belocian, Wilhem (FRA) (1995)

Pelocian, Wilhem (FRA) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)				
date	04-Aug-24	time	2.41	3.46	4.49	5.51	6.53	7.55	8.60	9.68	10.74	11.86	13.48	8 / 5			
reaction time	0.145	interval		1.05	1.03	1.02	1.02	1.02	1.05	1.08	1.06	1.12	1.62		3.10	3.09	3.26
wind	0.3 m/s	velocity	5.69	8.70	8.87	8.96	8.96	8.96	8.70	8.46	8.62	8.16	8.65	8.16	8.85	8.87	8.41

Xu Zhuoyi (CHN) (2003)

Zhuoyi (CHN) (2003)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)				
date	07-Aug-24	time	2.44	3.54	4.58	5.62	6.69	7.74	8.79	9.82	10.85	11.90	13.48	4 / 7			
reaction time	0.166	interval	7 steps	1.10	1.04	1.04	1.07	1.05	1.05	1.03	1.03	1.05	1.58		3.18	3.17	3.11
wind	0.6 m/s	velocity	5.62	8.31	8.79	8.79	8.54	8.70	8.70	8.87	8.87	8.70	8.87	8.16	8.62	8.65	8.82

Simonelli, Lorenzo Ndele (ITA) (2002)

monelli, Lorenzo Ndele (ITA) (2002)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)													Omega Timing (2024) - diamond league race analysis				
date	25-Aug-24	time	2.42	3.48	4.52	5.53	6.55	7.58	8.62	9.67	10.73	11.84	13.48	7 / 8			
reaction time	0.178	interval	7 steps	1.06	1.04	1.01	1.02	1.03	1.04	1.05	1.06	1.11	1.64		3.11	3.09	3.22

wind	1.1 m/s	velocity	5.67	8.62	8.79	9.05	8.96	8.87	8.79	8.70	8.62	8.23	8.55	8.16		8.82	8.87	8.52
Philibert, Dan (FRA) (1970)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)			<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>															
date	24-Aug-99	time	2.58	3.59	4.62	5.64	6.65	7.66	8.70	9.77	10.84	11.92		13.49	8 / 5			
reaction time	0.113	interval		1.01	1.03	1.02	1.01	1.01	1.04	1.07	1.07	1.08	1.57			3.06	3.06	3.22
wind	0.0 m/s	velocity	5.32	9.05	8.87	8.96	9.05	9.05	8.79	8.54	8.54	8.46	8.93	8.15		8.96	8.96	8.52
Kohutek, Artur (POL) (1971)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2002 European Championships (Munich, GER)			<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>															
date	09-Aug-02	time	2.68	3.74	4.78	5.78	6.80	7.83	8.85	9.92	10.98	12.05		13.49	1 / 1			
reaction time	0.152	interval		1.06	1.04	1.00	1.02	1.03	1.02	1.07	1.06	1.07	1.44			3.10	3.07	3.20
wind	0.5 m/s	velocity	5.12	8.62	8.79	9.14	8.96	8.87	8.96	8.54	8.62	8.54	9.74	8.15		8.85	8.93	8.57
Inocêncio, Mateus (BRA) (1981)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2004 Olympic Games (Athens, GRE)			<i>Ruiz (2004) - las carreras con vallas de juegos olímpicos de atenas '04</i>															
date	27-Aug-02	time	2.50	3.58	4.63	5.67	6.69	7.72	8.75	9.81	10.89	11.95		13.49	7 / 7			
reaction time	0.169	interval		1.08	1.05	1.04	1.02	1.03	1.03	1.06	1.08	1.06	1.54			3.17	3.08	3.20
wind	0.3 m/s	velocity	5.49	8.46	8.70	8.79	8.96	8.87	8.87	8.62	8.46	8.62	9.10	8.15		8.65	8.90	8.57
Hicks, Antwon (USA) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2007 USATF National Championships (Indianapolis, IN)			<i>USATF Men's Hurdle Development (2007)</i>															
date	23-Jun-07	time	2.57	3.64	4.70	5.77	6.81	7.82	8.88	9.91	10.96	12.05		13.49	7 / 2			
reaction time		interval		1.07	1.06	1.07	1.04	1.01	1.06	1.03	1.05	1.09	1.44			3.20	3.11	3.17
wind	0.1 m/s	velocity	5.34	8.54	8.62	8.54	8.79	9.05	8.62	8.87	8.70	8.39	9.74	8.15		8.57	8.82	8.65
Berger, Dominic (USA) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 Folsam GP (Göteborg, SWE)			<i>Blomkvist (2011) - www.sub13.se</i>															
date	11-Jun-11	time	2.48	3.56	4.60	5.64	6.68	7.72	8.76	9.80	10.86	11.92		13.49	1 / 2			
reaction time		interval		1.08	1.04	1.04	1.04	1.04	1.04	1.04	1.06	1.06	1.57			3.16	3.12	3.16
wind	0.6 m/s	velocity	5.53	8.46	8.79	8.79	8.79	8.79	8.79	8.79	8.62	8.62	8.93	8.15		8.68	8.79	8.68
Nossmys, Philip (SWE) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Windsprint (Sundsvall, SWE)			<i>(2013) - www.ssg.se/windsprint/Splittider/</i>															
date	28-Jul-13	time	2.62	3.68	4.73	5.78	6.81	7.86	8.91	9.96	11.02	12.08		13.49	3 / 1			
reaction time		interval		1.06	1.05	1.05	1.03	1.05	1.05	1.05	1.06	1.06	1.41			3.16	3.13	3.17
wind	1.7 m/s	velocity	5.24	8.62	8.70	8.70	8.87	8.70	8.70	8.70	8.62	8.62	9.94	8.15		8.68	8.76	8.65
Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 All Star Night (Hiratsuka, JPN)			<i>(2017) - tfdata-store.com/2017/07/26/post-1072/</i>															
date	22-Jul-17	time	2.59	3.66	4.71	5.74	6.78	7.82	8.87	9.93	11.00	12.07		13.49	6 / 1			
reaction time	0.146	interval	7 steps	1.07	1.05	1.03	1.04	1.04	1.05	1.06	1.07	1.07	1.42			3.15	3.13	3.20
wind	1.8 m/s	velocity	5.30	8.54	8.70	8.87	8.79	8.79	8.70	8.62	8.54	8.54	9.87	8.15		8.70	8.76	8.57
Brathwaite, Shane (BAR) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Memorial van Damme (Brussels, BEL) (TV Analysis)			<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	01-Sep-17	time	2.54	3.60	4.64	5.66	6.70	7.74	8.78	9.84	10.92	12.00		13.49	3 / 8			
reaction time	0.141	interval	7 steps	1.06	1.04	1.02	1.04	1.04	1.04	1.06	1.08	1.08	1.49			3.12	3.12	3.22
wind	0.5 m/s	velocity	5.40	8.62	8.79	8.96	8.79	8.79	8.79	8.62	8.46	8.46	9.41	8.15		8.79	8.79	8.52
Chen Kuei-Ru (TPE) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)			<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>															
date	20-May-18	time	2.60	3.66	4.71	5.75	6.78	7.83	8.90	9.96	11.05	12.13		13.49	5 / 1			
reaction time	0.153	interval	7 steps	1.06	1.05	1.04	1.03	1.05	1.07	1.06	1.09	1.08	1.36	NR PB		3.15	3.15	3.23
wind	-0.4 m/s	velocity	5.28	8.62	8.70	8.79	8.87	8.70	8.54	8.62	8.39	8.46	10.31	8.15		8.70	8.70	8.49
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	20-Jul-18	time	2.46	3.52	4.58	5.60	6.62	7.66	8.70	9.74	10.82	11.90		13.49	8 / 7			
reaction time	0.136	interval	7 steps	1.06	1.06	1.02	1.02	1.04	1.04	1.04	1.08	1.08	1.59			3.14	3.10	3.20
wind	-0.2 m/s	velocity	5.58	8.62	8.62	8.96	8.96	8.79	8.79	8.79	8.46	8.46	8.82	8.15		8.73	8.85	8.57
Chen Kuei-Ru (TPE) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	21-May-19	time	2.56	3.62	4.64	5.66	6.70	7.74	8.80	9.87	10.94	12.01		13.49	2 / 5			
reaction time	0.169	interval	7 steps	1.06	1.02	1.02	1.04	1.04	1.06	1.07	1.07	1.07	1.48			3.10	3.14	3.21
wind	0.1 m/s	velocity	5.36	8.62	8.96	8.96	8.79	8.79	8.62	8.54	8.54	8.54	9.47	8.15		8.85	8.73	8.54
Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Fuse Sprint (Tottori, JPN)			<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>															
date	02-Jun-19	time	2.57	3.62	4.66	5.70	6.73	7.77	8.83	9.88	10.94	12.04		13.49	5 / 2			
reaction time	0.149	interval	7 steps	1.05	1.04	1.04	1.03	1.04	1.06	1.05	1.06	1.10	1.45	PB		3.13	3.13	3.21
wind	1.9 m/s	velocity	5.34	8.70	8.79	8.79	8.87	8.79	8.62	8.70	8.62	8.31	9.67	8.15		8.76	8.76	8.54

Martinot Lagarde, Pascal (FRA) (199)																				
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)																				
date		21-Jul-19	time	2.45	3.51	4.55	5.58	6.60	7.63	8.66	9.73	10.80	11.90	Henson (2020) - Athlete First: 2019 year end hurdle report						
reaction time		0.152	interval	7 steps	1.06	1.04	1.03	1.02	1.03	1.03	1.07	1.07	1.10	1.59			3.13	3.08	3.24	
wind		0.4 m/s	velocity	5.60	8.62	8.79	8.87	8.96	8.87	8.87	8.54	8.54	8.31	8.82	8.15			8.76	8.90	8.46
Xie Wenjun (CHN) (1990)																				
FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)																				
date		06-Sep-19	time	2.54	3.60	4.66	5.70	6.72	7.74	8.80	9.84	10.88	11.98	Henson (2020) - Athlete First: 2019 year end hurdle report						
reaction time		0.150	interval	7 steps	1.06	1.06	1.04	1.02	1.02	1.06	1.04	1.04	1.10	1.51			3.16	3.10	3.18	
wind		0.0 m/s	velocity	5.40	8.62	8.62	8.79	8.96	8.96	8.62	8.79	8.79	8.31	9.28	8.15			8.68	8.85	8.62
Kurokawa, Kazuki (JPN) (2001)																				
FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (99cm)																				
date		06-Oct-19	time	2.61	3.69	4.75	5.78	6.80	7.83	8.88	9.92	10.97	12.02	Enomoto (2019) - research on athlete performance and technique- 2019 data book						
reaction time		0.157	interval		1.08	1.06	1.03	1.02	1.03	1.05	1.04	1.05	1.05	1.47			3.17	3.10	3.14	
wind		2.7 m/s	velocity	5.26	8.46	8.62	8.87	8.96	8.87	8.70	8.79	8.70	8.70	9.54	8.15			8.65	8.85	8.73
Belocian, Wilhem (FRA) (1995)																				
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																				
date		17-Sep-20	time	2.50	3.52	4.56	5.60	6.64	7.68	8.72	9.78	10.86	11.94	Henson (2020) - Athlete First: 2020 year end hurdle report						
reaction time		0.134	interval		1.02	1.04	1.04	1.04	1.04	1.04	1.06	1.08	1.08	1.55			3.10	3.12	3.22	
wind		0.1 m/s	velocity	5.49	8.96	8.79	8.79	8.79	8.79	8.79	8.62	8.46	8.46	9.05	8.15			8.85	8.79	8.52
Takayama, Shunya (JPN) (1994)																				
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)																				
date		24-Oct-20	time	2.53	3.58	4.61	5.65	6.68	7.73	8.79	9.84	10.93	12.01	Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season						
reaction time			interval		1.05	1.03	1.04	1.03	1.05	1.06	1.05	1.09	1.08	1.48			3.12	3.14	3.22	
wind		0.6 m/s	velocity	5.42	8.70	8.87	8.79	8.87	8.70	8.62	8.70	8.39	8.46	9.47	8.15			8.79	8.73	8.52
Xie Wenjun (CHN) (1990)																				
FINAL - 2021 Flavour Hangzhou Athletics Meeting (Hangzhou, CHN)																				
date		09-Jul-21	time	2.64	3.70	4.74	5.77	6.79	7.82	8.86	9.91	10.98	12.06	CAA Hurdle Development (2021)						
reaction time		0.154	interval		1.06	1.04	1.03	1.02	1.03	1.04	1.05	1.07	1.08	1.43			3.13	3.09	3.20	
wind		0.4 m/s	velocity	5.20	8.62	8.79	8.87	8.96	8.87	8.79	8.70	8.54	8.46	9.80	8.15			8.76	8.87	8.57
Pozzi, Andy (GBR) (1992)																				
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)																				
date		28-Aug-21	time	2.52	3.56	4.60	5.62	6.64	7.68	8.72	9.76	10.86	11.94	Henson (2021) - Athlete First: 2021 year end hurdle report						
reaction time		0.126	interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.04	1.04	1.10	1.08	1.55			3.10	3.10	3.22	
wind		0.7 m/s	velocity	5.44	8.79	8.79	8.96	8.96	8.79	8.79	8.79	8.31	8.46	9.05	8.15			8.85	8.85	8.52
Chen Kuei-Ru (TPE) (1993)																				
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)																				
date		08-May-22	time	2.58	3.62	4.68	5.70	6.74	7.77	8.82	9.88	10.95	12.02	Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season						
reaction time		0.166	interval	7 steps	1.04	1.06	1.02	1.04	1.03	1.05	1.06	1.07	1.07	1.47			3.12	3.12	3.20	
wind		0.1 m/s	velocity	5.32	8.79	8.62	8.96	8.79	8.87	8.70	8.62	8.54	8.54	9.54	8.15			8.79	8.79	8.57
Hough, Nicholas (AUS) (1993)																				
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)																				
date		08-May-22	time	2.66	3.77	4.82	5.85	6.87	7.89	8.90	9.94	10.98	12.05	Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season						
reaction time		0.155	interval	7 steps	1.11	1.05	1.03	1.02	1.02	1.01	1.04	1.04	1.07	1.44			3.19	3.05	3.15	
wind		0.1 m/s	velocity	5.16	8.23	8.70	8.87	8.96	8.96	9.05	8.79	8.79	8.54	9.74	8.15			8.60	8.99	8.70
Abe, Tatsuki (JPN) (2003)																				
FINAL - 2022 Japanese U20 National Championships (Osaka, JPN) (99cm)																				
date		12-Jun-22	time	2.65	3.73	4.77	5.80	6.82	7.85	8.91	9.96	11.01	12.09	Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season						
reaction time		0.157	interval	7 steps	1.08	1.04	1.03	1.02	1.03	1.06	1.05	1.05	1.08	1.40			3.15	3.11	3.18	
wind		1.1 m/s	velocity	5.18	8.46	8.79	8.87	8.96	8.87	8.62	8.70	8.70	8.46	10.01	8.15			8.70	8.82	8.62
Pozzi, Andy (GBR) (1992)																				
FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)																				
date		18-Jun-22	time	2.50	3.54	4.58	5.60	6.62	7.66	8.70	9.76	10.84	11.94	Henson (2022) - Athlete First: 2022 year end hurdle report						
reaction time		0.126	interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.04	1.06	1.08	1.10	1.55			3.10	3.10	3.24	
wind		-0.2 m/s	velocity	5.49	8.79	8.79	8.96	8.96	8.79	8.79	8.62	8.46	8.31	9.05	8.15			8.85	8.85	8.46
Joseph, Jason (SUI) (1998)																				
Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																				
date		16-Jul-22	time	2.53	3.56	4.60	5.60	6.63	7.66	8.76	9.80	10.86	11.96	Henson (2022) - Athlete First: 2022 year end hurdle report						
reaction time		0.140	interval	7 steps	1.03	1.04	1.00	1.03	1.03	1.10	1.04	1.06	1.10	1.53			3.07	3.16	3.20	
wind		-0.5 m/s	velocity	5.42	8.87	8.79	9.14	8.87	8.87	8.31	8.79	8.62	8.31	9.16	8.15			8.93	8.68	8.57

Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>		
date	16-Jul-22	time	2.53	3.56	4.60	5.63	6.66	7.70	8.76	9.80	10.86	11.96		13.49	1 / 5			
reaction time	0.134	interval	7 steps	1.03	1.04	1.03	1.03	1.04	1.06	1.04	1.06	1.10	1.53			3.10	3.13	3.20
wind	-0.5 m/s	velocity	5.42	8.87	8.79	8.87	8.87	8.79	8.62	8.79	8.62	8.31	9.16	8.15		8.85	8.76	8.57
Trajkovic, Milan (CYP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>		
date	17-Jul-22	time	2.56	3.63	4.70	5.70	6.73	7.76	8.83	9.88	10.93	12.03		13.49	5 / 6			
reaction time	0.142	interval	7 steps	1.07	1.07	1.00	1.03	1.03	1.07	1.05	1.05	1.10	1.46			3.14	3.13	3.20
wind	0.3 m/s	velocity	5.36	8.54	8.54	9.14	8.87	8.87	8.54	8.70	8.70	8.31	9.60	8.15		8.73	8.76	8.57
Pereira, Rafael (BRA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)																<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>		
date	26-Aug-22	time	2.57	3.60	4.67	5.67	6.71	7.74	8.81	9.88	10.95	12.03		13.49	1 / 5			
reaction time	0.140	interval		1.03	1.07	1.00	1.04	1.03	1.07	1.07	1.07	1.08	1.46			3.10	3.14	3.22
wind	0.0 m/s	velocity	5.34	8.87	8.54	9.14	8.79	8.87	8.54	8.54	8.46	9.60	8.15			8.85	8.73	8.52
Tinch, Cordell (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>		
date	20-Aug-23	time	2.50	3.55	4.56	5.58	6.60	7.63	8.72	9.78	10.88	11.96		13.49	9 / 4			
reaction time	0.170	interval	7 steps	1.05	1.01	1.02	1.02	1.03	1.09	1.06	1.10	1.08	1.53			3.08	3.14	3.24
wind	-0.3 m/s	velocity	5.49	8.70	9.05	8.96	8.96	8.87	8.39	8.62	8.31	8.46	9.16	8.15		8.90	8.73	8.46
Czykier, Damian (POL) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>		
date	20-Aug-23	time	2.56	3.60	4.62	5.63	6.65	7.70	8.73	9.82	10.92	12.00		13.49	7 / 3			
reaction time	0.152	interval	7 steps	1.04	1.02	1.01	1.02	1.05	1.03	1.09	1.10	1.08	1.49			3.07	3.10	3.27
wind	0.0 m/s	velocity	5.36	8.79	8.96	9.05	8.96	8.70	8.87	8.39	8.31	8.46	9.41	8.15		8.93	8.85	8.39
Campbell, Jerome (JAM) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)																<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>		
date	07-Jun-24	time	2.50	3.58	4.67	5.71	6.77	7.81	8.84	9.91	10.98	12.05		13.49	9 / 7			
reaction time		interval		1.08	1.09	1.04	1.06	1.04	1.03	1.07	1.07	1.07	1.44			3.21	3.13	3.21
wind	0.1 m/s	velocity	5.49	8.46	8.39	8.79	8.62	8.79	8.87	8.54	8.54	8.54	9.74	8.15		8.54	8.76	8.54
Chen Yuanjiang (CHN) (2006)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Chinese National Championships (Quzhou, CHN)																<i>Shandong Athletics Sport Science (2024)</i>		
date	16-Sep-24	time	2.62	3.69	4.72	5.76	6.79	7.82	8.84	9.88	10.95	12.04		13.49	4 / 3			
reaction time	0.160	interval	7 steps	1.07	1.03	1.04	1.03	1.03	1.02	1.04	1.07	1.09	1.45			3.14	3.08	3.20
wind	0.2 m/s	velocity	5.24	8.54	8.87	8.79	8.87	8.87	8.96	8.79	8.54	8.39	9.67	8.15		8.73	8.90	8.57
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2025 Xiamen Diamond League (Xiamen, CHN)																<i>Omega Timing (2025) - diamond league race analysis</i>		
date	26-Apr-25	time	2.51	3.57	4.60	5.62	6.63	7.64	8.67	9.71	10.76	11.84		13.49	8 / 9			
reaction time	0.150	interval	7 steps	1.06	1.03	1.02	1.01	1.01	1.03	1.04	1.05	1.08	1.65			3.11	3.05	3.17
wind	0.3 m/s	velocity	5.47	8.62	8.87	8.96	9.05	9.05	8.87	8.79	8.70	8.46	8.50	8.15		8.82	8.99	8.65
Bennett, Orlando (JAM) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2025 Yangtze River Delta Athletics Diamond Gala (Keqiao, CHN)																<i>Omega Timing (2025) - diamond league race analysis</i>		
date	03-May-25	time	2.40	3.51	4.56	5.59	6.63	7.66	8.69	9.75	10.81	11.87		13.49	1 / 8			
reaction time	0.142	interval		1.11	1.05	1.03	1.04	1.03	1.03	1.06	1.06	1.06	1.62			3.19	3.10	3.18
wind	0.6 m/s	velocity	5.72	8.23	8.70	8.87	8.79	8.87	8.87	8.62	8.62	8.62	8.65	8.15		8.60	8.85	8.62
Davenport, Willie (USA) (1943)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1972 Olympic Games (Munich, FRG)																<i>Kay (1972) - BAAB Munich Technical Report</i>		
date	07-Sep-72	time	2.5	3.5	4.6	5.6	6.6	7.6	8.7	9.8	10.9	11.9		13.50	1 / 4			
reaction time		interval		1.00	1.10	1.00	1.00	1.00	1.10	1.10	1.10	1.00	1.60			3.10	3.10	3.20
wind	0.3 m/s	velocity	5.49	9.14	8.31	9.14	9.14	9.14	8.31	8.31	8.31	9.14	8.76	8.15		8.85	8.85	8.57
Chen Yanhao (CHN) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1998 ??? (Hiroshima, JPN)																<i>Yuan (1998) - Chen Yanhao analysis of 110m results</i>		
date	12-May-98	time	2.56	3.60	4.64	5.67	6.70	7.72	8.84	9.87	10.92	11.99		13.50	1 / 1			
reaction time		interval		1.04	1.04	1.03	1.03	1.02	1.12	1.03	1.05	1.07	1.51			3.11	3.17	3.15
wind	???	velocity	5.36	8.79	8.79	8.87	8.87	8.96	8.16	8.87	8.70	8.54	9.28	8.15		8.82	8.65	8.70
Olijar, Stanislav (LAT) (1979)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2002 European Championships (Munich, GER)																<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>		
date	09-Aug-02	time	2.69	3.71	4.73	5.76	6.79	7.81	8.87	9.93	10.99	12.07		13.50	1 / 1			
reaction time	0.157	interval		1.02	1.02	1.03	1.03	1.02	1.06	1.06	1.06	1.08	1.43			3.07	3.11	3.20
wind	-0.1 m/s	velocity	5.10	8.96	8.96	8.87	8.87	8.96	8.62	8.62	8.62	8.46	9.80	8.15		8.93	8.82	8.57
Svoboda, Petr (CZE) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)*Feher (2014) - Final report from the Czech Republic national championships*

date	02-Aug-14	time	2.57	3.63	4.67	5.68	6.71	7.76	8.80	9.85	10.91	12.01	13.50	4 / 1			
reaction time	0.140	interval		1.06	1.04	1.01	1.03	1.05	1.04	1.05	1.06	1.10	1.49		3.11	3.12	3.21
wind	-1.2 m/s	velocity	5.34	8.62	8.79	9.05	8.87	8.70	8.79	8.70	8.62	8.31	9.41	8.15	8.82	8.79	8.54

Alkana, Antonio (RSA) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	06-May-16	time	2.56	3.60	4.66	5.72	6.74	7.78	8.82	9.88	10.94	12.04	13.50	1 / 8			
reaction time	0.139	interval		1.04	1.06	1.06	1.02	1.04	1.04	1.06	1.06	1.10	1.46		3.16	3.10	3.22
wind	1.4 m/s	velocity	5.36	8.79	8.62	8.62	8.96	8.79	8.79	8.62	8.62	8.31	9.60	8.15	8.68	8.85	8.52

Baji, Balázs (HUN) (1989)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	09-Sep-16	time	2.53	3.60	4.64	5.67	6.70	7.70	8.74	9.81	10.88	11.99	13.50	2 / 7			
reaction time	0.183	interval	7 steps	1.07	1.04	1.03	1.03	1.00	1.04	1.07	1.07	1.11	1.51		3.14	3.07	3.25
wind	0.2 m/s	velocity	5.42	8.54	8.79	8.87	8.87	9.14	8.79	8.54	8.54	8.23	9.28	8.15	8.73	8.93	8.44

Takayama, Shunya (JPN) (1994)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 3 - 2017 Japanese National Championships (Osaka, JPN)*(2017) - tfdata-store.com/2017/07/13/post-1040/*

date	24-Jun-17	time	2.59	3.64	4.69	5.74	6.78	7.83	8.87	9.93	11.00	12.08	13.50	7 / 1			
reaction time	0.159	interval		1.05	1.05	1.05	1.04	1.05	1.04	1.06	1.07	1.08	1.42	PB	3.15	3.13	3.21
wind	0.5 m/s	velocity	5.30	8.70	8.70	8.70	8.79	8.70	8.79	8.62	8.54	8.46	9.87	8.15	8.70	8.76	8.54

Al-Moualeed, Ahmad (KSA) (1988)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2018 Asian Games (Jakarta, INA)*Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season*

date	28-Aug-18	time	2.53	3.58	4.62	5.63	6.66	7.70	8.73	9.82	10.92	12.03	13.50	3 / 4			
reaction time	0.115	interval		1.05	1.04	1.01	1.03	1.04	1.03	1.09	1.10	1.11	1.47		3.10	3.10	3.30
wind	0.0 m/s	velocity	5.42	8.70	8.79	9.05	8.87	8.79	8.87	8.39	8.31	8.23	9.54	8.15	8.85	8.85	8.31

Masuno, Genta (JPN) (1993)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

A FINAL - 2018 National Sports Festival (Fukui, JPN)*Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season*

date	08-Oct-18	time	2.60	3.65	4.67	5.70	6.74	7.78	8.84	9.91	10.98	12.07	13.50	5 / 2			
reaction time	0.143	interval		1.05	1.02	1.03	1.04	1.04	1.06	1.07	1.07	1.09	1.43		3.10	3.14	3.23
wind	1.2 m/s	velocity	5.28	8.70	8.96	8.87	8.79	8.79	8.62	8.54	8.54	8.39	9.80	8.15	8.85	8.73	8.49

Ishikawa, Shuhei (JPN) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 Kinami Memorial (Osaka, JPN)*Matsubayashi (2019) - research on athlete performance and technique- 2019 data book*

date	06-May-19	time	2.57	3.61	4.66	5.72	6.77	7.81	8.85	9.91	10.96	12.06	13.50	6 / 2			
reaction time		interval	7 steps	1.04	1.05	1.06	1.05	1.04	1.04	1.06	1.05	1.10	1.44	PB	3.15	3.13	3.21
wind	0.3 m/s	velocity	5.34	8.79	8.70	8.62	8.70	8.79	8.79	8.62	8.70	8.31	9.74	8.15	8.70	8.76	8.54

Constantino, Gabriel (BRA) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	06-Jun-19	time	2.55	3.60	4.62	5.63	6.66	7.70	8.75	9.80	10.88	11.98	13.50	4 / 4			
reaction time	0.160	interval	7 steps	1.05	1.02	1.01	1.03	1.04	1.05	1.05	1.08	1.10	1.52		3.08	3.12	3.23
wind	0.4 m/s	velocity	5.38	8.70	8.96	9.05	8.87	8.79	8.70	8.70	8.46	8.31	9.22	8.15	8.90	8.79	8.49

Trajkovic, Milan (CYP) (1992)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	06-Jun-19	time	2.55	3.63	4.68	5.70	6.73	7.82	8.82	9.92	10.95	12.06	13.50	3 / 5			
reaction time	0.136	interval	7 steps	1.08	1.05	1.02	1.03	1.09	1.00	1.10	1.03	1.11	1.44		3.15	3.12	3.24
wind	0.4 m/s	velocity	5.38	8.46	8.70	8.96	8.87	8.39	9.14	8.31	8.87	8.23	9.74	8.15	8.70	8.79	8.46

Pozzi, Andy (GBR) (1992)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	06-Sep-19	time	2.52	3.58	4.60	5.60	6.62	7.66	8.70	9.72	10.82	11.90	13.50	2 / 6			
reaction time	0.141	interval	7 steps	1.06	1.02	1.00	1.02	1.04	1.04	1.02	1.10	1.08	1.60		3.08	3.10	3.20
wind	0.0 m/s	velocity	5.44	8.62	8.96	9.14	8.96	8.79	8.79	8.96	8.31	8.46	8.76	8.15	8.90	8.85	8.57

Szücs, Valdó (HUN) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	03-Aug-21	time	2.54	3.69	4.69	5.75	6.75	7.78	8.82	9.84	10.94	12.06	13.50	9 / 3			
reaction time	0.137	interval	7 steps	1.15	1.00	1.06	1.00	1.03	1.04	1.02	1.10	1.12	1.44		3.21	3.07	3.24
wind	0.0 m/s	velocity	5.40	7.95	9.14	8.62	9.14	8.87	8.79	8.96	8.31	8.16	9.74	8.15	8.54	8.93	8.46

Pozzi, Andy (GBR) (1992)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	03-Aug-21	time	2.58	3.66	4.70	5.71	6.72	7.70	8.77	9.83	10.88	11.98	13.50	2 / 4			
reaction time	0.135	interval	7 steps	1.08	1.04	1.01	1.01	0.98	1.07	1.06	1.05	1.10	1.52		3.13	3.06	3.21
wind	0.0 m/s	velocity	5.32	8.46	8.79	9.05	9.05	9.33	8.54	8.62	8.70	8.31	9.22	8.15	8.76	8.96	8.54

Kwaou-Mathey, Just (FRA) (1999)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	03-Aug-21	time	2.58	3.66	4.70	5.71	6.72	7.70	8.77	9.83	10.88	11.98	13.50	2 / 4			
reaction time	0.135	interval	7 steps	1.08	1.04	1.01	1.01	0.98	1.07	1.06	1.05	1.10	1.52		3.13	3.06	3.21
wind	0.0 m/s	velocity	5.32	8.46	8.79	9.05	9.05	9.33	8.54	8.62	8.70	8.31	9.22	8.15	8.76	8.96	8.54

date	28-Aug-21	time	2.60	3.64	4.68	5.72	6.74	7.76	8.78	9.84	10.92	12.00		13.50	1 / 7			
reaction time	0.161	interval	7 steps	1.04	1.04	1.04	1.02	1.02	1.02	1.06	1.08	1.08	1.50			3.12	3.06	3.22
wind	0.7 m/s	velocity	5.28	8.79	8.79	8.79	8.96	8.96	8.96	8.62	8.46	8.46	9.35	8.15		8.79	8.96	8.52
Hough, Nicholas (AUS) (1993)																		
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)											Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season							
date	01-May-22	time	2.70	3.76	4.80	5.82	6.86	7.90	8.92	9.95	11.00	12.05		13.50	3 / 1			
reaction time	0.168	interval	7 steps	1.06	1.04	1.02	1.04	1.04	1.02	1.03	1.05	1.05	1.45			3.12	3.10	3.13
wind	0.8 m/s	velocity	5.08	8.62	8.79	8.96	8.79	8.79	8.96	8.87	8.70	8.70	9.67	8.15		8.79	8.85	8.76
Leaston, Justin (USA) (2001)																		
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)											Henson (2022) - Athlete First: 2022 year end hurdle report							
date	10-Jun-22	time	2.52	3.58	4.63	5.66	6.70	7.74	8.77	9.83	10.89	11.98		13.50	3 / 7			
reaction time		interval		1.06	1.05	1.03	1.04	1.04	1.03	1.06	1.06	1.09	1.52			3.14	3.11	3.21
wind	0.0 m/s	velocity	5.44	8.62	8.70	8.87	8.79	8.79	8.87	8.62	8.62	8.39	9.22	8.15		8.73	8.82	8.54
Gaio, Finley (SUI) (1999)																		
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)											Henson (2022) - Athlete First: 2022 year end hurdle report							
date	17-Aug-22	time	2.58	3.64	4.70	5.72	6.74	7.78	8.82	9.86	10.94	12.02		13.50	2 / 5			
reaction time	0.172	interval	7 steps	1.06	1.06	1.02	1.02	1.04	1.04	1.04	1.08	1.08	1.48			3.14	3.10	3.20
wind	-0.2 m/s	velocity	5.32	8.62	8.62	8.96	8.96	8.79	8.79	8.79	8.46	8.46	9.47	8.15		8.73	8.85	8.57
Brown, Rasheem (CAY) (2000)																		
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)											Henson (2023) - Athlete First: 2023 year end hurdle report							
date	09-Jun-23	time	2.57	3.62	4.67	5.71	6.74	7.78	8.84	9.90	10.96	12.01		13.50	1 / 8			
reaction time		interval		1.05	1.05	1.04	1.03	1.04	1.06	1.06	1.06	1.05	1.49	PB		3.14	3.13	3.17
wind	1.8 m/s	velocity	5.34	8.70	8.70	8.79	8.87	8.79	8.62	8.62	8.62	8.70	9.41	8.15		8.73	8.76	8.65
Pereira, Rafael (BRA) (1997)																		
Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)											Omega Timing (2023) - diamond league race analysis							
date	16-Jul-23	time	2.43	3.52	4.57	5.61	6.66	7.70	8.74	9.78	10.83	11.89		13.50	7 / 5			
reaction time	0.136	interval		1.09	1.05	1.04	1.05	1.04	1.04	1.04	1.05	1.06	1.61			3.18	3.13	3.15
wind	-0.2 m/s	velocity	5.65	8.39	8.70	8.79	8.70	8.79	8.79	8.79	8.70	8.62	8.71	8.15		8.62	8.76	8.70
Simonelli, Lorenzo Ndele (ITA) (2002)																		
Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)											Henson (2023) - Athlete First: 2023 year end hurdle report							
date	20-Aug-23	time	2.53	3.58	4.63	5.65	6.72	7.76	8.80	9.86	10.95	12.03		13.50	4 / 4			
reaction time	0.152	interval	7 steps	1.05	1.05	1.02	1.07	1.04	1.04	1.06	1.09	1.08	1.47			3.12	3.15	3.23
wind	0.0 m/s	velocity	5.42	8.70	8.70	8.96	8.54	8.79	8.79	8.62	8.39	8.46	9.54	8.15		8.79	8.70	8.49
Fofana, Hassane (ITA) (1992)																		
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)											Henson (2023) - Athlete First: 2023 year end hurdle report							
date	21-Aug-23	time	2.56	3.66	4.73	5.75	6.78	7.82	8.88	9.92	10.96	12.03		13.50	9 / 7			
reaction time	0.147	interval	7 steps	1.10	1.07	1.02	1.03	1.04	1.06	1.04	1.04	1.07	1.47			3.19	3.13	3.15
wind	-0.1 m/s	velocity	5.36	8.31	8.54	8.96	8.87	8.79	8.62	8.79	8.79	8.54	9.54	8.15		8.60	8.76	8.70
Dickson, Michael (USA) (1997)																		
FINAL - 2024 Atlanta City Games (Atlanta, GA) (Street Race) (TV Analysis)											Henson (2024) - Athlete First: 2024 year end hurdle report							
date	18-May-24	time	2.58	3.65	4.68	5.75	6.77	7.79	8.82	9.88	10.95	12.01		13.50	4 / 3			
reaction time		interval	7 steps	1.07	1.03	1.07	1.02	1.02	1.03	1.06	1.07	1.06	1.49			3.17	3.07	3.19
wind	-0.7 m/s	velocity	5.32	8.54	8.87	8.54	8.96	8.96	8.87	8.62	8.54	8.62	9.41	8.15		8.65	8.93	8.60
Mendy, Louis François (SEN) (1999)																		
FINAL - 2024 Seiko Golden Grand Prix (Tokyo, JPN)											Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season							
date	19-May-24	time	2.68	3.75	4.78	5.82	6.84	7.87	8.89	9.93	11.01	12.08		13.50	8 / 2			
reaction time	0.214	interval		1.07	1.03	1.04	1.02	1.03	1.02	1.04	1.08	1.07	1.42			3.14	3.07	3.19
wind	-0.6 m/s	velocity	5.12	8.54	8.87	8.79	8.96	8.87	8.96	8.79	8.46	8.54	9.87	8.15		8.73	8.93	8.60
Shishkin, Vladimir (URS) (1964)																		
FINAL - 1988 Olympic Games (Seoul, KOR)											Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988							
date	26-Sep-88	time	2.57	3.63	4.67	5.71	6.74	7.79	8.83	9.87	10.96	12.06		13.51	3 / 4			
reaction time	0.139	interval	7 steps	1.06	1.04	1.04	1.03	1.05	1.04	1.04	1.09	1.10	1.45			3.14	3.12	3.23
wind	1.5 m/s	velocity	5.34	8.62	8.79	8.79	8.87	8.70	8.79	8.79	8.39	8.31	9.67	8.14		8.73	8.79	8.49
Blaschek, Thomas (GER) (1981)																		
FINAL - 2007 European Cup (Munich, GER)											Graubner (2007) - http://www.fgs.uni-halle.de							
date	24-Jun-07	time	2.63	3.67	4.71	5.73	6.75	7.78	8.83	9.89	10.97	12.07		13.51	1 / 3			
reaction time	0.133	interval		1.04	1.04	1.02	1.02	1.03	1.05	1.06	1.08	1.10	1.44			3.10	3.10	3.24
wind	0.4 m/s	velocity	5.22	8.79	8.79	8.96	8.96	8.87	8.70	8.62	8.46	8.31	9.74	8.14		8.85	8.85	8.46
Xie Wenjun (CHN) (1990)																		
FINAL - 2008 Good Luck Beijing 2008 Chinese Open (Beijing, CHN)											Wang (2016) - comparative analysis of grey relational grade of segment times & final results of 110m hurdles							
date	23-May-08	time	2.62	3.68	4.74	5.80	6.82	7.86	8.92	9.98	11.04	12.12		13.51	1 / 4			

reaction time	0.162	interval		1.06	1.06	1.06	1.02	1.04	1.06	1.06	1.06	1.08	1.39	PB		3.18	3.12	3.20
wind	0.0 m/s	velocity	5.24	8.62	8.62	8.62	8.96	8.79	8.62	8.62	8.62	8.46	10.09	8.14		8.62	8.79	8.57

Ji Wei (CHN) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Osaka Grand Prix (Osaka, JPN)			<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>															
date	09-May-09	time	2.63	3.69	4.73	5.77	6.78	7.80	8.81	9.84	10.91	11.99		13.51	1 / 3			
reaction time		interval		1.06	1.04	1.04	1.01	1.02	1.01	1.03	1.07	1.08	1.52			3.14	3.04	3.18
wind	0.2 m/s	velocity	5.22	8.62	8.79	8.79	9.05	8.96	9.05	8.87	8.54	8.46	9.22	8.14		8.73	9.02	8.62

Robles, Dayron (CUB) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Time Trial - 2009 University of Barcelona Hurdle Analysis (Barcelona, ESP)			<i>Padulles (2010) - valoracio funcinal / analisi tecnica biomecanica den dayron robles</i>															
date	Jun-09	time	2.34	3.39	4.42	5.44	6.49	7.54	8.60	9.64	10.70	11.80		13.51	5 / 1			
reaction time	0.184	interval	7 steps	1.05	1.03	1.02	1.05	1.05	1.06	1.04	1.06	1.10	1.71			3.10	3.16	3.20
wind	-0.4 m/s	velocity	5.86	8.70	8.87	8.96	8.70	8.70	8.62	8.79	8.62	8.31	8.20	8.14		8.85	8.68	8.57

Ji Wei (CHN) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>															
date	19-Aug-09	time	2.64	3.71	4.75	5.79	6.81	7.86	8.91	9.95	11.03	12.11		13.51	2 / 1			
reaction time	0.124	interval		1.07	1.04	1.04	1.02	1.05	1.05	1.04	1.08	1.08	1.40			3.15	3.12	3.20
wind	0.0 m/s	velocity	5.20	8.54	8.79	8.79	8.96	8.70	8.70	8.79	8.46	8.46	10.01	8.14		8.70	8.79	8.57

Trammell, Terrence (USA) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>															
date	19-Aug-09	time	2.61	3.67	4.71	5.72	6.73	7.80	8.87	9.93	11.01	12.11		13.51	8 / 2			
reaction time	0.202	interval		1.06	1.04	1.01	1.01	1.07	1.07	1.06	1.08	1.10	1.40			3.11	3.15	3.24
wind	0.0 m/s	velocity	5.26	8.62	8.79	9.05	9.05	8.54	8.54	8.62	8.46	8.31	10.01	8.14		8.82	8.70	8.46

Craddock, Kevin (USA) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Golden Grand Prix (Shanghai, CHN) (TV Analysis)			<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>															
date	19-May-12	time	2.44	3.52	4.54	5.56	6.58	7.62	8.68	9.76	10.84	11.94		13.51	9 / 6			
reaction time	0.167	interval	7 steps	1.08	1.02	1.02	1.02	1.04	1.06	1.08	1.08	1.10	1.57			3.12	3.12	3.26
wind	0.4 m/s	velocity	5.62	8.46	8.96	8.96	8.96	8.79	8.62	8.46	8.46	8.31	8.93	8.14		8.79	8.79	8.41

Riley, Andrew (JAM) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)			<i>Henson (2021) - Athlete First: major championships report</i>															
date	12-Aug-13	time	2.48	3.52	4.54	5.54	6.56	7.56	8.58	9.56	10.74	11.92		13.51	3 / 8			
reaction time	0.135	interval	7 steps	1.04	1.02	1.00	1.02	1.00	1.02	0.98	1.18	1.18	1.59			3.06	3.04	3.34
wind	0.3 m/s	velocity	5.53	8.79	8.96	9.14	8.96	9.14	8.96	9.33	7.75	7.75	8.82	8.14		8.96	9.02	8.21

Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)			<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>															
date	28-May-16	time	2.46	3.52	4.54	5.56	6.60	7.62	8.64	9.68	10.74	11.86		13.51	3 / 4			
reaction time		interval	7 steps	1.06	1.02	1.02	1.04	1.02	1.02	1.04	1.06	1.12	1.65			3.10	3.08	3.22
wind	0.7 m/s	velocity	5.58	8.62	8.96	8.96	8.79	8.96	8.96	8.79	8.62	8.16	8.50	8.14		8.85	8.90	8.52

Masuno, Genta (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Japanese National Championships (Nagoya, JPN)			<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>															
date	26-Jun-16	time	2.64	3.70	4.75	5.79	6.82	7.86	8.92	9.96	11.03	12.09		13.51	5 / 2			
reaction time	0.161	interval		1.06	1.05	1.04	1.03	1.04	1.06	1.04	1.07	1.06	1.42			3.15	3.13	3.17
wind	2.4 m/s	velocity	5.20	8.62	8.70	8.79	8.87	8.79	8.62	8.79	8.54	8.62	9.87	8.14		8.70	8.76	8.65

Xie Wenjun (CHN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)			<i>(2017) - tfdata-store.com/2017/05/22/post-599/</i>															
date	21-May-17	time	2.61	3.66	4.71	5.75	6.79	7.82	8.86	9.92	10.98	12.06		13.51	3 / 1			
reaction time	0.153	interval		1.05	1.05	1.04	1.04	1.03	1.04	1.06	1.06	1.08	1.45			3.14	3.11	3.20
wind	-1.8 m/s	velocity	5.26	8.70	8.70	8.79	8.79	8.87	8.79	8.62	8.62	8.46	9.67	8.14		8.73	8.82	8.57

Douvalidis, Konstadinos (GRE) (198)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)			<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	28-Jun-17	time	2.56	3.62	4.66	5.70	6.72	7.76	8.80	9.88	10.96	12.04		13.51	2 / 5			
reaction time	0.154	interval		1.06	1.04	1.04	1.02	1.04	1.04	1.08	1.08	1.08	1.47			3.14	3.10	3.24
wind	0.6 m/s	velocity	5.36	8.62	8.79	8.79	8.96	8.79	8.79	8.46	8.46	8.46	9.54	8.14		8.73	8.85	8.46

Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	26-May-18	time	2.54	3.60	4.60	5.60	6.60	7.64	8.68	9.74	10.84	11.94		13.51	3 / 7			
reaction time	0.164	interval	7 steps	1.06	1.00	1.00	1.00	1.04	1.04	1.06	1.10	1.10	1.57			3.06	3.08	3.26
wind	3.0 m/s	velocity	5.40	8.62	9.14	9.14	9.14	8.79	8.79	8.62	8.31	8.31	8.93	8.14		8.96	8.90	8.41

Eaton, Jarret (USA) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 USATF Championships (Des Moines, IA) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	24-Jun-18	time	2.47	3.50	4.52	5.54	6.56	7.56	8.60	9.68	10.76	11.88		13.51	7 / 3			
reaction time		interval	7 steps	1.03	1.02	1.02	1.02	1.00	1.04	1.08	1.08	1.12	1.63			3.07	3.06	3.28

wind	-1.8 m/s	velocity	5.55	8.87	8.96	8.96	8.96	9.14	8.79	8.46	8.46	8.16	8.60	8.14		8.93	8.96	8.36
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)			Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season															
date	19-May-19	time	2.57	3.62	4.68	5.72	6.76	7.80	8.84	9.90	10.96	12.05		13.51	7 / 4			
reaction time	0.143	interval		1.05	1.06	1.04	1.04	1.04	1.04	1.06	1.06	1.09	1.46			3.15	3.12	3.21
wind	2.9 m/s	velocity	5.34	8.70	8.62	8.79	8.79	8.79	8.79	8.62	8.62	8.39	9.60	8.14		8.70	8.79	8.54
Manga, Aurel (FRA) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)			Henson (2020) - Athlete First: 2019 year end hurdle report															
date	06-Jun-19	time	2.53	3.60	4.62	5.65	6.71	7.75	8.80	9.88	10.94	12.03		13.51	2 / 6			
reaction time	0.150	interval	7 steps	1.07	1.02	1.03	1.06	1.04	1.05	1.08	1.06	1.09	1.48			3.12	3.15	3.23
wind	0.4 m/s	velocity	5.42	8.54	8.96	8.87	8.62	8.79	8.70	8.46	8.62	8.39	9.47	8.14		8.79	8.70	8.49
Alkana, Antonio (RSA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)			Henson (2020) - Athlete First: 2019 year end hurdle report															
date	16-Jun-19	time	2.48	3.52	4.52	5.56	6.60	7.64	8.68	9.74	10.88	11.98		13.51	3 / 6			
reaction time	0.168	interval		1.04	1.00	1.04	1.04	1.04	1.04	1.06	1.14	1.10	1.53			3.08	3.12	3.30
wind	0.3 m/s	velocity	5.53	8.79	9.14	8.79	8.79	8.79	8.79	8.62	8.02	8.31	9.16	8.14		8.90	8.79	8.31
Alkana, Antonio (RSA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)			Henson (2020) - Athlete First: 2019 year end hurdle report															
date	21-Jul-19	time	2.43	3.46	4.51	5.53	6.55	7.57	8.62	9.71	10.78	11.91		13.51	7 / 5			
reaction time	0.111	interval		1.03	1.05	1.02	1.02	1.02	1.05	1.09	1.07	1.13	1.60			3.10	3.09	3.29
wind	0.4 m/s	velocity	5.65	8.87	8.70	8.96	8.96	8.96	8.70	8.39	8.54	8.09	8.76	8.14		8.85	8.87	8.33
Eaton, Jarret (USA) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)			Henson (2020) - Athlete First: 2019 year end hurdle report															
date	28-Jul-19	time	2.50	3.54	4.54	5.57	6.57	7.60	8.64	9.71	10.81	11.93		13.51	1 / 6			
reaction time		interval	7 steps	1.04	1.00	1.03	1.00	1.03	1.04	1.07	1.10	1.12	1.58			3.07	3.07	3.29
wind	-0.8 m/s	velocity	5.49	8.79	9.14	8.87	9.14	8.87	8.79	8.54	8.31	8.16	8.87	8.14		8.93	8.93	8.33
Mallett, Aaron (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)			Henson (2020) - Athlete First: 2019 year end hurdle report															
date	28-Jul-19	time	2.53	3.60	4.63	5.67	6.67	7.73	8.78	9.84	10.91	11.97		13.51	5 / 7			
reaction time		interval	7 steps	1.07	1.03	1.04	1.00	1.06	1.05	1.06	1.07	1.06	1.54			3.14	3.11	3.19
wind	-0.8 m/s	velocity	5.42	8.54	8.87	8.79	9.14	8.62	8.70	8.62	8.54	8.62	9.10	8.14		8.73	8.82	8.60
Swift, Greggmar (BAR) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)			Henson (2020) - Athlete First: 2019 year end hurdle report															
date	10-Aug-19	time	2.60	3.60	4.65	5.68	6.70	7.74	8.79	9.86	10.95	12.05		13.51	4 / 4			
reaction time	0.140	interval		1.00	1.05	1.03	1.02	1.04	1.05	1.07	1.09	1.10	1.46			3.08	3.11	3.26
wind	1.8 m/s	velocity	5.28	9.14	8.70	8.87	8.96	8.79	8.70	8.54	8.39	8.31	9.60	8.14		8.90	8.82	8.41
Kanai, Taio (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Japanese World Championships Trials (Fujiiyoshida, JPN)			Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season															
date	01-Sep-19	time	2.58	3.63	4.68	5.72	6.77	7.83	8.88	9.95	11.02	12.10		13.51	4 / 3			
reaction time		interval		1.05	1.05	1.04	1.05	1.06	1.05	1.07	1.07	1.08	1.41			3.14	3.16	3.22
wind	1.4 m/s	velocity	5.32	8.70	8.70	8.79	8.70	8.62	8.70	8.54	8.54	8.46	9.94	8.14		8.73	8.68	8.52
Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Japanese World Championships Trials (Fujiiyoshida, JPN)			Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season															
date	01-Sep-19	time	2.62	3.70	4.73	5.76	6.81	7.85	8.90	9.96	11.04	12.12		13.51	7 / 4			
reaction time		interval	7 steps	1.08	1.03	1.03	1.05	1.04	1.05	1.06	1.08	1.08	1.39			3.14	3.14	3.22
wind	1.4 m/s	velocity	5.24	8.46	8.87	8.87	8.70	8.79	8.70	8.62	8.46	8.46	10.09	8.14		8.73	8.73	8.52
Brathwaite, Shane (BAR) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2019 IAAF World Championships (Doha, QAT)			Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season															
date	30-Sep-19	time	2.62	3.65	4.72	5.73	6.76	7.81	8.84	9.88	10.96	12.04		13.51	3 / 4			
reaction time	0.156	interval		1.03	1.07	1.01	1.03	1.05	1.03	1.04	1.08	1.08	1.47			3.11	3.11	3.20
wind	0.5 m/s	velocity	5.24	8.87	8.54	9.05	8.87	8.70	8.87	8.79	8.46	8.46	9.54	8.14		8.82	8.82	8.57
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)			Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season															
date	20-Sep-20	time	2.58	3.64	4.67	5.69	6.73	7.78	8.83	9.88	10.95	12.05		13.51	5 / 1			
reaction time	0.153	interval		1.06	1.03	1.02	1.04	1.05	1.05	1.05	1.07	1.10	1.46			3.11	3.14	3.22
wind	0.1 m/s	velocity	5.32	8.62	8.87	8.96	8.79	8.70	8.70	8.70	8.54	8.31	9.60	8.14		8.82	8.73	8.52
Muratake, Rachid (JPN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)			Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season															
date	09-May-21	time	2.56	3.63	4.66	5.72	6.77	7.81	8.85	9.93	11.01	12.11		13.51	9 / 4			
reaction time	0.119	interval	7 steps	1.07	1.03	1.06	1.05	1.04	1.04	1.08	1.08	1.10	1.40	PB		3.16	3.13	3.26
wind	-0.8 m/s	velocity	5.36	8.54	8.87	8.62	8.70	8.79	8.79	8.46	8.46	8.31	10.01	8.14		8.68	8.76	8.41

Xie Wenjun (CHN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			Henson (2024) - Athlete First: 2021 year end hurdle report																
date	03-Aug-21	time	2.53	3.61	4.64	5.69	6.77	7.78	8.81	9.84	10.92	12.04		13.51	2 / 4				
reaction time	0.147	interval		1.08	1.03	1.05	1.08	1.01	1.03	1.03	1.08	1.12	1.47				3.16	3.12	3.23
wind	-0.2 m/s	velocity	5.42	8.46	8.87	8.70	8.46	9.05	8.87	8.87	8.46	8.16	9.54	8.14			8.68	8.79	8.49
Svoboda, Petr (CZE) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Boris Hanzeković Memorial (Zagreb, CRO) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report																
date	14-Sep-21	time	2.50	3.60	4.63	5.63	6.66	7.70	8.73	9.76	10.86	11.93		13.51	7 / 4				
reaction time	0.167	interval		1.10	1.03	1.00	1.03	1.04	1.03	1.03	1.10	1.07	1.58				3.13	3.10	3.20
wind	0.7 m/s	velocity	5.49	8.31	8.87	9.14	8.87	8.79	8.87	8.87	8.31	8.54	8.87	8.14			8.76	8.85	8.57
Sun Zhenjiang (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Chinese National Games (Xi'an, CHN)			Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers																
date	22-Sep-21	time	2.57	3.64	4.67	5.71	6.76	7.81	8.85	9.93	10.98	12.08		13.51	/ 3				
reaction time	0.136	interval	7 steps	1.07	1.03	1.04	1.05	1.05	1.04	1.08	1.05	1.10	1.43	PB			3.14	3.14	3.23
wind	0.0 m/s	velocity	5.34	8.54	8.87	8.79	8.70	8.70	8.79	8.46	8.70	8.31	9.80	8.14			8.73	8.73	8.49
Chen Kuei-Ru (TPE) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)			Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season																
date	01-May-22	time	2.59	3.63	4.68	5.71	6.74	7.78	8.84	9.89	10.98	12.07		13.51	7 / 2				
reaction time	0.158	interval	7 steps	1.04	1.05	1.03	1.03	1.04	1.06	1.05	1.09	1.09	1.44				3.12	3.13	3.23
wind	0.8 m/s	velocity	5.30	8.79	8.70	8.87	8.87	8.79	8.62	8.70	8.39	8.39	9.74	8.14			8.79	8.76	8.49
Gilbert, Tre'Bien (USA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)			USATF (2022) - Results powered by Karmarush.com																
date	26-Jun-22	time	2.54	3.58	4.62	5.65	6.66	7.68	8.71	9.77	10.85	11.95		13.51	8 / 5				
reaction time		interval		1.04	1.04	1.03	1.01	1.02	1.03	1.06	1.08	1.10	1.56				3.11	3.06	3.24
wind	0.1 m/s	velocity	5.40	8.79	8.79	8.87	9.05	8.96	8.87	8.62	8.46	8.31	8.99	8.14			8.82	8.96	8.46
King, David (GBR) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report																
date	17-Jul-22	time	2.56	3.63	4.66	5.66	6.73	7.76	8.83	9.88	10.93	12.03		13.51	2 / 7				
reaction time	0.120	interval	7 steps	1.07	1.03	1.00	1.07	1.03	1.07	1.05	1.05	1.10	1.48				3.10	3.17	3.20
wind	0.3 m/s	velocity	5.36	8.54	8.87	9.14	8.54	8.87	8.54	8.70	8.70	8.31	9.47	8.14			8.85	8.65	8.57
Yokochi, Taiga (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Japanese National Championships (Osaka, JPN)			Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season																
date	04-Jun-23	time	2.64	3.73	4.77	5.80	6.85	7.87	8.92	9.97	11.03	12.10		13.51	8 / 3				
reaction time	0.177	interval	7 steps	1.09	1.04	1.03	1.05	1.02	1.05	1.05	1.06	1.07	1.41				3.16	3.12	3.18
wind	-0.9 m/s	velocity	5.20	8.39	8.79	8.87	8.70	8.96	8.70	8.70	8.62	8.54	9.94	8.14			8.68	8.79	8.62
Rodrigues, Eduardo (BRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report																
date	04-Jun-23	time	2.65	3.74	4.77	5.78	6.79	7.81	8.83	9.93	10.98	12.10		13.51	7 / 6				
reaction time	0.149	interval	7 steps	1.09	1.03	1.01	1.01	1.02	1.02	1.10	1.05	1.12	1.41				3.13	3.05	3.27
wind	0.4 m/s	velocity	5.18	8.39	8.87	9.05	9.05	8.96	8.96	8.31	8.70	8.16	9.94	8.14			8.76	8.99	8.39
Fujii, Ryota (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Fuse Sprint (Tottori, JPN)			Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season																
date	25-Jun-23	time	2.57	3.64	4.67	5.70	6.73	7.77	8.83	9.88	10.97	12.05		13.51	5 / 3				
reaction time	0.147	interval		1.07	1.03	1.03	1.03	1.04	1.06	1.05	1.09	1.08	1.46				3.13	3.13	3.22
wind	1.1 m/s	velocity	5.34	8.54	8.87	8.87	8.87	8.79	8.62	8.70	8.39	8.46	9.60	8.14			8.76	8.76	8.52
Lecoeur, Romain (FRA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 French National Championships (Albi, FRA) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report																
date	29-Jul-23	time	2.56	3.60	4.64	5.68	6.70	7.74	8.78	9.82	10.90	12.00		13.51	1 / 6				
reaction time	0.203	interval	7 steps	1.04	1.04	1.04	1.02	1.04	1.04	1.04	1.08	1.10	1.51				3.12	3.10	3.22
wind	2.3 m/s	velocity	5.36	8.79	8.79	8.79	8.96	8.79	8.79	8.79	8.46	8.31	9.28	8.14			8.79	8.85	8.52
Fujii, Ryota (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Fuse Sprint (Tottori, JPN)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season																
date	02-Jun-24	time	2.61	3.65	4.70	5.74	6.79	7.83	8.88	9.94	11.00	12.08		13.51	8 / 5				
reaction time	0.165	interval		1.04	1.05	1.04	1.05	1.04	1.05	1.06	1.06	1.08	1.43				3.13	3.14	3.20
wind	1.3 m/s	velocity	5.26	8.79	8.70	8.79	8.70	8.79	8.70	8.62	8.62	8.46	9.80	8.14			8.76	8.73	8.57
Machi, Ryota (JPN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Fuse Sprint (Tottori, JPN)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season																
date	02-Jun-24	time	2.63	3.70	4.75	5.80	6.84	7.88	8.92	9.97	11.03	12.11		13.51	2 / 6				
reaction time	0.167	interval	7 steps	1.07	1.05	1.05	1.04	1.04	1.04	1.05	1.06	1.08	1.40				3.17	3.12	3.19
wind	1.3 m/s	velocity	5.22	8.54	8.70	8.70	8.79	8.79	8.79	8.70	8.62	8.46	10.01	8.14			8.65	8.79	8.60

FINAL - 2010 Folsam GP (Sollentuna, SWE)Blomkvist (2010) - www.sub13.se

date	01-Jul-10	time	2.48	3.54	4.57	5.60	6.63	7.67	8.70	9.75	10.81	11.88	13.52	5 / 1			
reaction time		interval	7 steps	1.06	1.03	1.03	1.03	1.04	1.03	1.05	1.06	1.07	1.64		3.12	3.10	3.18
wind	0.4 m/s	velocity	5.53	8.62	8.87	8.87	8.87	8.79	8.87	8.70	8.62	8.54	8.55	8.14	8.79	8.85	8.62

Clarke, Lawrence (GBR) (1990)**FINAL - 2012 AVIVA Grand Prix (Birmingham, GBR) (TV Analysis)** Henson (2020) - *Athlete First: 2012 Aries Merritt world record season*

date	26-Aug-12	time	2.45	3.50	4.57	5.60	6.62	7.66	8.72	9.78	10.84	11.94	13.52	6 / 6			
reaction time	0.146	interval		1.05	1.07	1.03	1.02	1.04	1.06	1.06	1.06	1.10	1.58		3.15	3.12	3.22
wind	-0.9 m/s	velocity	5.60	8.70	8.54	8.87	8.96	8.79	8.62	8.62	8.62	8.31	8.87	8.14	8.70	8.79	8.52

Eaton, Jarret (USA) (1989)**FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)** Henson (2021) - *Athlete First: 2016 year end hurdle report*

date	28-May-16	time	2.44	3.48	4.52	5.54	6.56	7.60	8.66	9.72	10.82	11.94	13.52	7 / 5			
reaction time		interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.06	1.06	1.10	1.12	1.58		3.10	3.12	3.28
wind	0.7 m/s	velocity	5.62	8.79	8.79	8.96	8.96	8.79	8.62	8.62	8.31	8.16	8.87	8.14	8.85	8.79	8.36

Omuro, Hideki (JPN) (1990)**FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)** (2017) - tfdata-store.com/2017/05/01/458/

date	29-Apr-17	time	2.61	3.67	4.73	5.77	6.82	7.87	8.92	9.98	11.07	12.13	13.52	5 / 1			
reaction time		interval		1.06	1.06	1.04	1.05	1.05	1.05	1.06	1.09	1.06	1.39		3.16	3.15	3.21
wind	1.5 m/s	velocity	5.26	8.62	8.62	8.79	8.70	8.70	8.62	8.39	8.62	8.39	10.09	8.14	8.68	8.70	8.54

Trajkovic, Milan (CYP) (1992)**FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)** (2017) - tfdata-store.com/2017/05/22/post-599/

date	21-May-17	time	2.56	3.61	4.64	5.70	6.75	7.76	8.81	9.87	10.96	12.05	13.52	5 / 2			
reaction time	0.155	interval	7 steps	1.05	1.03	1.06	1.05	1.01	1.05	1.06	1.09	1.09	1.47		3.14	3.11	3.24
wind	-1.8 m/s	velocity	5.36	8.70	8.87	8.62	8.70	9.05	8.70	8.62	8.39	8.39	9.54	8.14	8.73	8.82	8.46

Eaton, Jarret (USA) (1989)**FINAL - 2017 Galà dei Castelli (Bellinzona, SUI)** (2017.07.18) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	18-Jul-17	time	2.53	3.58	4.59	5.59	6.62	7.67	8.71	9.78	10.87	12.01	13.52	3 / 2			
reaction time		interval	7 steps	1.05	1.01	1.00	1.03	1.05	1.04	1.07	1.09	1.14	1.51		3.06	3.12	3.30
wind	-0.6 m/s	velocity	5.42	8.70	9.05	9.14	8.87	8.70	8.79	8.54	8.39	8.02	9.28	8.14	8.96	8.79	8.31

Xie Wenjun (CHN) (1990)**FINAL - 2017 Chinese National Games (Tianjin, CHN)** Henson (2017) - *coaching observations*

date	03-Sep-17	time	2.68	3.75	4.79	5.80	6.82	7.86	8.89	9.92	10.99	12.07	13.52	6 / 1			
reaction time		interval		1.07	1.04	1.01	1.02	1.04	1.03	1.03	1.07	1.08	1.45		3.12	3.09	3.18
wind	0.3 m/s	velocity	5.12	8.54	8.79	9.05	8.96	8.79	8.87	8.87	8.54	8.46	9.67	8.14	8.79	8.87	8.62

Kanai, Taio (JPN) (1995)**FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)** Shibayama (2018) - *Race analysis of men's 110m hurdle run in 2018 season*

date	29-Apr-18	time	2.60	3.66	4.71	5.75	6.78	7.83	8.90	9.96	11.05	12.13	13.52	6 / 1			
reaction time		interval		1.06	1.05	1.04	1.03	1.05	1.07	1.06	1.09	1.08	1.39		3.15	3.15	3.23
wind	2.6 m/s	velocity	5.28	8.62	8.70	8.79	8.87	8.70	8.54	8.62	8.39	8.46	10.09	8.14	8.70	8.70	8.49

Harris, Aleec (USA) (1990)**FINAL - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)** Henson (2020) - *Athlete First: 2018 year end hurdle report*

date	26-May-18	time	2.58	3.64	4.68	5.72	6.76	7.84	8.88	9.92	10.98	12.06	13.52	1 / 8			
reaction time	0.170	interval		1.06	1.04	1.04	1.04	1.08	1.04	1.04	1.06	1.08	1.46		3.14	3.16	3.18
wind	3.0 m/s	velocity	5.32	8.62	8.79	8.79	8.79	8.46	8.79	8.79	8.62	8.46	9.60	8.14	8.73	8.68	8.62

Kanai, Taio (JPN) (1995)**FINAL - 2018 Fuse Sprint (Tottori, JPN)** Shibayama (2018) - *Race analysis of men's 110m hurdle run in 2018 season*

date	03-Jun-18	time	2.58	3.63	4.67	5.73	6.75	7.80	8.85	9.92	10.99	12.10	13.52	1 / 1			
reaction time		interval		1.05	1.04	1.06	1.02	1.05	1.05	1.07	1.07	1.11	1.42		3.15	3.12	3.25
wind	0.5 m/s	velocity	5.32	8.70	8.79	8.62	8.96	8.70	8.70	8.54	8.54	8.23	9.87	8.14	8.70	8.79	8.44

Merritt, Aries (USA) (1985)**FINAL - 2018 USATF Championships (Des Moines, IA) (TV Analysis)** Henson (2020) - *Athlete First: 2018 year end hurdle report*

date	24-Jun-18	time	2.47	3.54	4.60	5.65	6.68	7.72	8.76	9.81	10.88	11.96	13.52	4 / 4			
reaction time		interval	7 steps	1.07	1.06	1.05	1.03	1.04	1.04	1.05	1.07	1.08	1.56		3.18	3.11	3.20
wind	-1.8 m/s	velocity	5.55	8.54	8.62	8.70	8.87	8.79	8.79	8.70	8.54	8.46	8.99	8.14	8.62	8.82	8.57

Pozzi, Andy (GBR) (1992)**FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)** Henson (2020) - *Athlete First: 2019 year end hurdle report*

date	21-Jul-19	time	2.38	3.43	4.45	5.46	6.46	7.50	8.55	9.63	10.77	11.89	13.52	3 / 6			
reaction time	0.131	interval	7 steps	1.05	1.02	1.01	1.00	1.04	1.05	1.08	1.14	1.12	1.63		3.08	3.09	3.34
wind	0.4 m/s	velocity	5.76	8.70	8.96	9.05	9.14	8.79	8.70	8.46	8.02	8.16	8.60	8.14	8.90	8.87	8.21

Shi Guoxing (CHN) (2000)**U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)** CAA Hurdle Development (2019)

14-Aug-19		time	2.67	3.76	4.81	5.85	6.87	7.91	8.96	10.00	11.07	12.13	13.52	8 / 3				
reaction time		0.144	interval	1.09	1.05	1.04	1.02	1.04	1.05	1.04	1.07	1.06	1.39	PB		3.18	3.11	3.17
wind		-0.3 m/s	velocity	5.14	8.39	8.70	8.79	8.96	8.79	8.70	8.79	8.54	8.62	10.09	8.14	8.62	8.82	8.65
Chen Kuei-Ru (TPE) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)			CAA Hurdle Development (2019)															
date		02-Oct-19	time	2.53	3.59	4.63	5.66	6.70	7.74	8.82	9.89	10.96	12.05	13.52	8 / 5			
reaction time		0.132	interval	7 steps	1.06	1.04	1.03	1.04	1.04	1.08	1.07	1.07	1.09	1.47		3.13	3.16	3.23
wind		0.9 m/s	velocity	5.42	8.62	8.79	8.87	8.79	8.79	8.46	8.54	8.54	8.39	9.54	8.14	8.76	8.68	8.49
Fofana, Hassane (ITA) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)			CAA Hurdle Development (2019)															
date		02-Oct-19	time	2.60	3.67	4.72	5.75	6.79	7.83	8.87	9.92	10.99	12.08	13.52	2 / 6			
reaction time		0.155	interval	7 steps	1.07	1.05	1.03	1.04	1.04	1.04	1.05	1.07	1.09	1.44		3.15	3.12	3.21
wind		0.9 m/s	velocity	5.28	8.54	8.70	8.87	8.79	8.79	8.79	8.70	8.54	8.39	9.74	8.14	8.70	8.79	8.54
Laviolette, Jeanice (FRA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)			Henson (2020) - Athlete First: 2020 year end hurdle report															
date		13-Sep-20	time	2.56	3.64	4.69	5.74	6.71	7.76	8.81	9.83	10.87	11.95	13.52	5 / 2			
reaction time		0.222	interval	7 steps	1.08	1.05	1.05	0.97	1.05	1.05	1.02	1.04	1.08	1.57	PB	3.18	3.07	3.14
wind		0.0 m/s	velocity	5.36	8.46	8.70	8.70	9.42	8.70	8.70	8.96	8.79	8.46	8.93	8.14	8.62	8.93	8.73
Dickson, Michael (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)			USATF (2022) - Results powered by Karmarush.com															
date		26-Jun-22	time	2.53	3.68	4.52	5.60	6.61	7.69	8.70	9.77	10.84	11.94	13.52	3 / 7			
reaction time			interval		1.15	0.84	1.08	1.01	1.08	1.01	1.07	1.07	1.10	1.58		3.07	3.10	3.24
wind		0.4 m/s	velocity	5.42	7.95	10.88	8.46	9.05	8.46	9.05	8.54	8.54	8.31	8.87	8.14	8.93	8.85	8.46
Trajkovic, Milan (CYP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report															
date		16-Jul-22	time	2.53	3.60	4.60	5.66	6.70	7.73	8.76	9.83	10.90	11.98	13.52	4 / 2			
reaction time		0.133	interval	7 steps	1.07	1.00	1.06	1.04	1.03	1.03	1.07	1.07	1.08	1.54		3.13	3.10	3.22
wind		0.4 m/s	velocity	5.42	8.54	9.14	8.62	8.79	8.87	8.87	8.54	8.54	8.46	9.10	8.14	8.76	8.85	8.52
Alkana, Antonio (RSA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 Meeting de Paris (Paris, FRA)			Omega Timing (2023) - diamond league race analysis															
date		09-Jun-23	time	2.39	3.46	4.50	5.52	6.54	7.57	8.62	9.69	10.78	11.88	13.52	2 / 6			
reaction time		0.114	interval		1.07	1.04	1.02	1.02	1.03	1.05	1.07	1.09	1.10	1.64		3.13	3.10	3.26
wind		-0.6 m/s	velocity	5.74	8.54	8.79	8.96	8.96	8.87	8.70	8.54	8.39	8.31	8.55	8.14	8.76	8.85	8.41
Pereira, Rafael (BRA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date		20-Aug-23	time	2.58	3.63	4.66	5.66	6.68	7.74	8.78	9.82	10.92	12.02	13.52	4 / 3			
reaction time		0.146	interval		1.05	1.03	1.00	1.02	1.06	1.04	1.04	1.10	1.10	1.50		3.08	3.12	3.24
wind		0.5 m/s	velocity	5.32	8.70	8.87	9.14	8.96	8.62	8.79	8.79	8.31	8.31	9.35	8.14	8.90	8.79	8.46
Rodrigues, Eduardo (BRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date		21-Aug-23	time	2.66	3.75	4.80	5.80	6.82	7.83	8.83	9.86	10.93	12.03	13.52	8 / 6			
reaction time		0.142	interval	7 steps	1.09	1.05	1.00	1.02	1.01	1.00	1.03	1.07	1.10	1.49		3.14	3.03	3.20
wind		-0.2 m/s	velocity	5.16	8.39	8.70	9.14	8.96	9.05	9.14	8.87	8.54	8.31	9.41	8.14	8.73	9.05	8.57
Pereira, Rafael (BRA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date		21-Aug-23	time	2.56	3.60	4.70	5.70	6.74	7.76	8.80	9.86	10.93	12.00	13.52	3 / 8			
reaction time		0.160	interval	7 steps	1.04	1.10	1.00	1.04	1.02	1.04	1.06	1.07	1.07	1.52		3.14	3.10	3.20
wind		-0.1 m/s	velocity	5.36	8.79	8.31	9.14	8.79	8.96	8.79	8.62	8.54	8.54	9.22	8.14	8.73	8.85	8.57
Abe, Tatsuki (JPN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Mikio Oda Memorial (Hiroshima, JPN)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date		29-Apr-24	time	2.65	3.73	4.78	5.80	6.85	7.89	8.94	9.99	11.06	12.14	13.52	5 / 2			
reaction time		0.147	interval	7 steps	1.08	1.05	1.02	1.05	1.04	1.05	1.05	1.07	1.08	1.38	PB	3.15	3.14	3.20
wind		-0.6 m/s	velocity	4.91	7.87	8.10	8.33	8.10	8.17	8.10	8.10	7.94	7.87	10.16	8.14	8.70	8.73	8.57
Takajo, Koki (JPN) (2008)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National U20 Championships (Niigata, JPN) (99.1cm)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date		30-Jun-24	time	2.64	3.73	4.76	5.82	6.86	7.88	8.92	9.95	11.00	12.05	13.52	3 / 1			
reaction time		0.141	interval		1.09	1.03	1.06	1.04	1.02	1.04	1.03	1.05	1.05	1.47	=PB	3.18	3.10	3.13
wind		0.1 m/s	velocity	5.20	8.39	8.87	8.62	8.79	8.96	8.79	8.87	8.70	8.70	9.54	8.14	8.62	8.85	8.76
Yamanaka, Kyouusuke (JPN) (2005)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National U20 Championships (Niigata, JPN) (99.1cm)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date		30-Jun-24	time	2.68	3.73	4.75	5.78	6.83	7.86	8.88	9.93	11.01	12.06	13.52	4 / 2			

reaction time	0.127	interval	1.05	1.02	1.03	1.05	1.03	1.02	1.05	1.08	1.05	1.46			3.10	3.10	3.18	
wind	0.1 m/s	velocity	5.12	8.70	8.96	8.87	8.70	8.87	8.96	8.70	8.46	8.70	9.60	8.14		8.85	8.85	8.62

Zhang Zijun (CHN) (2004)

Yang Zijun (CHN) (2004)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)															Shandong Athletics Sport Science (2024)			
date	30-Jun-24	time	2.60	3.69	4.73	5.78	6.82	7.86	8.91	9.98	11.04	12.10		13.52	8 / 3			
reaction time	0.148	interval		1.09	1.04	1.05	1.04	1.04	1.05	1.07	1.06	1.06	1.42	PB		3.18	3.13	3.19
wind	0.9 m/s	velocity	5.28	8.39	8.79	8.70	8.79	8.79	8.70	8.54	8.62	8.62	9.87	8.14		8.62	8.76	8.60

Shandong Athletics Sport Science (2024)

Liu Junxi (CHN) (2003)

Junxi (CHN) (2003)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Repechage 1 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)				
date	06-Aug-24	time	2.38	3.45	4.50	5.54	6.58	7.61	8.67	9.74	10.81	11.92	13.52	8 / 3			
reaction time	0.143	interval	7 steps	1.07	1.05	1.04	1.04	1.03	1.06	1.07	1.07	1.11	1.60		3.16	3.13	3.25
wind	0.2 m/s	velocity	5.76	8.54	8.70	8.79	8.79	8.87	8.62	8.54	8.54	8.23	8.76	8.14	8.68	8.76	8.44

Paris 2024 Olympic Games - Results Book (2024)

Belocian, Wilhem (FRA) (1995)

Alecian, Wilhem (FRA) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)					
date	07-Aug-24	time	2.38	3.45	4.49	5.51	6.54	7.56	8.63	9.70	10.78	11.87	13.52	9 / 8				
reaction time	0.148	interval		1.07	1.04	1.02	1.03	1.02	1.07	1.07	1.08	1.09	1.65			3.13	3.12	3.24
wind	0.6 m/s	velocity	5.76	8.54	8.79	8.96	8.87	8.96	8.54	8.54	8.46	8.39	8.50	8.14		8.76	8.79	8.46

Paris 2024 Olympic Games - Results Book (2024)

Cowling, Larry (USA) (1960)

bowling, Larry (USA) (1960)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1981 USSR vs. USA (Leningrad, URS)	Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies																
date	10-Jul-81	time	2.48	3.59	4.62	5.65	6.68	7.75	8.82	9.94	11.06	12.21		13.53	/ 2		
reaction time		interval		1.11	1.03	1.03	1.03	1.07	1.07	1.12	1.12	1.15	1.32		3.17	3.17	3.39
wind	2.8 m/s	velocity	5.53	8.23	8.87	8.87	8.87	8.54	8.54	8.16	8.16	7.95	10.62	8.13	8.65	8.65	8.09

Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies

Kislykh, Andrey (RUS) (1976)

Silykh, Andrey (RUS) (1976)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1997 European Cup (Munich, GER)															Jung (2003) - http://www.fgs.uni-halle.de		
date	22-Jun-97	time	2.65	3.70	4.71	5.73	6.74	7.78	8.84	9.90	10.97	12.05	13.53	1 / 3			
reaction time		interval		1.05	1.01	1.02	1.01	1.04	1.06	1.06	1.07	1.08	1.48		3.08	3.11	3.21
wind	0.2 m/s	velocity	5.18	8.70	9.05	8.96	9.05	8.79	8.62	8.62	8.54	8.46	9.47	8.13	8.90	8.82	8.54

Jung (2003) - <http://www.fgs.uni-halle.de>**Schwarthoff, Florian (GER) (1968)**

Zwarthoff, Florian (GER) (1968)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2002 European Championships (Munich, GER)													Graubner (2009) - http://www.fgs.uni-halle.de				
date	09-Aug-02	time	2.62	3.69	4.74	5.75	6.75	7.80	8.85	9.89	10.97	12.05	13.53	1 / 2			
reaction time	0.135	interval		1.07	1.05	1.01	1.00	1.05	1.05	1.04	1.08	1.08	1.48		3.13	3.10	3.20
wind	-0.9 m/s	velocity	5.24	8.54	8.70	9.05	9.14	8.70	8.70	8.79	8.46	8.46	9.47	8.13	8.76	8.85	8.57

Graubner (2009) - <http://www.fgs.uni-halle.de>**Lichtenegger, Elmar (AUT) (1974)**

Chitenegger, Elmar (AUT) (1974)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2002 European Championships (Munich, GER)													Graubner (2009) - http://www.fgs.uni-halle.de				
date	09-Aug-02	time	2.57	3.62	4.65	5.67	6.70	7.75	8.82	9.88	10.97	12.07	13.53	1 / 2			
reaction time	0.150	interval		1.05	1.03	1.02	1.03	1.05	1.07	1.06	1.09	1.10	1.46		3.10	3.15	3.25
wind	0.0 m/s	velocity	5.34	8.70	8.87	8.96	8.87	8.70	8.54	8.62	8.39	8.31	9.60	8.13	8.85	8.70	8.44

Graubner (2009) - <http://www.fgs.uni-halle.de>**Kronberg, Robert (SWE) (1976)**

Rönberg, Robert (SWE) (1976)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2002 European Championships (Munich, GER)													Graubner (2009) - http://www.fgs.uni-halle.de					
date	10-Aug-02	time	2.58	3.64	4.66	5.72	6.74	7.80	8.86	9.92	10.99	12.06	13.53	1 / 4				
reaction time	0.103	interval		1.06	1.02	1.06	1.02	1.06	1.06	1.06	1.07	1.07	1.47		3.14	3.14	3.20	
wind	0.8 m/s	velocity	5.32	8.62	8.96	8.62	8.96	8.62	8.62	8.62	8.54	8.54	9.54	8.13		8.73	8.73	8.57

Graubner (2009) - <http://www.fgs.uni-halle.de>**Kundert, Andreas (SUI) (1984)**

Undert, Andreas (SUI) (1984)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 Swiss National Championships (Fribourg, SUI)													Weber (2008) - wettkampfauswertung 110m hürden				
date	03-Aug-08	time	2.67	3.74	4.78	5.83	6.86	7.92	8.97	10.03	11.09	12.15	13.53	5 / 1			
reaction time		interval		1.07	1.04	1.05	1.03	1.06	1.05	1.06	1.06	1.06	1.38		3.16	3.14	3.18
wind	1.0 m/s	velocity	5.14	8.54	8.79	8.70	8.87	8.62	8.70	8.62	8.62	8.62	10.16	8.13	8.68	8.73	8.62

Weber (2008) - wettkampauswertung 110m hürden

Fourie, Lehann (RSA) (1987)

Daurie, Lehann (RSA) (1987)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)												Henson (2020) - Athlete First: 2012 Aries Merritt world record season					
date	08-Aug-12	time	2.48	3.56	4.58	5.58	6.62	7.66	8.74	9.78	10.90	12.02	13.53	3 / 7			
reaction time	0.136	interval	7 steps	1.08	1.02	1.00	1.04	1.04	1.08	1.04	1.12	1.12	1.51		3.10	3.16	3.28
wind	-0.3 m/s	velocity	5.53	8.46	8.96	9.14	8.79	8.79	8.46	8.79	8.16	8.16	9.28	8.13	8.85	8.68	8.36

Henson (2020) - Athlete First: 2012 Aries Merritt world record season

Townsend, Fred (USA) (1982)

Wonsend, Fred (USA) (1982)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Windsprint (Sundsvall, SWE)															(2013) - www.ssg.se/windsprint/Splittider/		
date	28-Jul-13	time	2.62	3.69	4.73	5.78	6.81	7.86	8.93	9.99	11.04	12.13	13.53	5 / 2			
reaction time		interval	7 steps	1.07	1.04	1.05	1.03	1.05	1.07	1.06	1.05	1.09	1.40		3.16	3.15	3.20
wind	1.7 m/s	velocity	5.24	8.54	8.79	8.70	8.87	8.70	8.54	8.62	8.70	8.39	10.01	8.13	8.68	8.70	8.57

(2013) - www.ssg.se/windsprint/Splittider/**Riley, Andrew (JAM) (1988)**

ley, Andrew (JAM) (1988)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)														Henson (2020) - Athlete First: 2017 year end hurdle report			
date	29-Apr-17	time	2.60	3.70	4.76	5.76	6.80	7.83	8.88	9.93	11.00	12.06	13.53	7 / 5			
reaction time		interval	7 steps	1.10	1.06	1.00	1.04	1.03	1.05	1.05	1.07	1.06	1.47		3.16	3.12	3.18

Henson (2020) - Athlete First: 2017 year end hurdle report

wind	1.8 m/s	velocity	5.28	8.31	8.62	9.14	8.79	8.87	8.70	8.70	8.54	8.62	9.54	8.13		8.68	8.79	8.62
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 East Japan Business Athletics Championships (Yuma, JPN)			(2017) - tfdata-store.com/2017/05/20/post-579/															
date	20-May-17	time	2.58	3.62	4.64	5.68	6.72	7.77	8.83	9.90	10.98	12.08		13.53	4 / 1			
reaction time	0.127	interval	1.04	1.02	1.04	1.04	1.05	1.06	1.07	1.08	1.10	1.45		PB		3.10	3.15	3.25
wind	1.1 m/s	velocity	5.32	8.79	8.96	8.79	8.79	8.70	8.62	8.54	8.46	8.31	9.67	8.13		8.85	8.70	8.44
Kanai, Taio (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 All Star Night (Hiratsuka, JPN)			(2017) - tfdata-store.com/2017/07/26/post-1072/															
date	22-Jul-17	time	2.55	3.62	4.67	5.73	6.79	7.83	8.90	9.97	11.04	12.12		13.53	7 / 2			
reaction time	0.127	interval	7 steps	1.07	1.05	1.06	1.06	1.04	1.07	1.07	1.07	1.08	1.41			3.18	3.17	3.22
wind	1.8 m/s	velocity	5.38	8.54	8.70	8.62	8.62	8.79	8.54	8.54	8.54	8.46	9.94	8.13		8.62	8.65	8.52
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Müller Grand Prix (Birmingham, GBR) (TV Analysis)			Henson (2020) - Athlete First: 2017 year end hurdle report															
date	20-Aug-17	time	2.50	3.54	4.56	5.58	6.62	7.70	8.74	9.80	10.88	11.98		13.53	3 / 6			
reaction time	0.119	interval	7 steps	1.04	1.02	1.02	1.04	1.08	1.04	1.06	1.08	1.10	1.55			3.08	3.16	3.24
wind	-0.6 m/s	velocity	5.49	8.79	8.96	8.96	8.79	8.46	8.79	8.62	8.46	8.31	9.05	8.13		8.90	8.68	8.46
Kanai, Taio (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)			Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season															
date	20-May-18	time	2.67	3.74	4.77	5.81	6.87	7.91	8.96	10.02	11.10	12.18		13.53	8 / 2			
reaction time	0.159	interval	7 steps	1.07	1.03	1.04	1.06	1.04	1.05	1.06	1.08	1.08	1.35	=PB		3.14	3.15	3.22
wind	-0.4 m/s	velocity	5.14	8.54	8.87	8.79	8.62	8.79	8.70	8.62	8.46	8.46	10.39	8.13		8.73	8.70	8.52
King, David (GBR) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)			Henson (2020) - Athlete First: 2018 year end hurdle report															
date	18-Aug-18	time	2.52	3.58	4.62	5.64	6.66	7.70	8.74	9.78	10.84	11.92		13.53	9 / 8			
reaction time	0.124	interval	7 steps	1.06	1.04	1.02	1.02	1.04	1.04	1.04	1.06	1.08	1.61			3.12	3.10	3.18
wind	1.3 m/s	velocity	5.44	8.62	8.79	8.96	8.96	8.79	8.79	8.79	8.62	8.46	8.71	8.13		8.79	8.85	8.62
Trajkovic, Milan (CYP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)			Henson (2020) - Athlete First: 2019 year end hurdle report															
date	16-Jun-19	time	2.54	3.62	4.64	5.68	6.70	7.74	8.80	9.86	10.90	12.00		13.53	8 / 7			
reaction time	0.098	interval	7 steps	1.08	1.02	1.04	1.02	1.04	1.06	1.06	1.04	1.10	1.53			3.14	3.12	3.20
wind	0.3 m/s	velocity	5.40	8.46	8.96	8.79	8.96	8.79	8.62	8.62	8.79	8.31	9.16	8.13		8.73	8.79	8.57
Joseph, Jason (SUI) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)			CAA Hurdle Development (2019)															
date	02-Oct-19	time	2.62	3.67	4.71	5.75	6.77	7.79	8.82	9.90	10.97	12.08		13.53	4 / 7			
reaction time	0.158	interval	7 steps	1.05	1.04	1.04	1.02	1.02	1.03	1.08	1.07	1.11	1.45			3.13	3.07	3.26
wind	0.9 m/s	velocity	5.24	8.70	8.79	8.79	8.96	8.96	8.87	8.46	8.54	8.23	9.67	8.13		8.76	8.93	8.41
Muratake, Rachid (JPN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)			Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season															
date	29-Apr-21	time	2.63	3.68	4.72	5.75	6.79	7.84	8.91	9.98	11.04	12.11		13.53	6 / 4			
reaction time		interval	7 steps	1.05	1.04	1.03	1.04	1.05	1.07	1.07	1.06	1.07	1.42	PB		3.12	3.16	3.20
wind	1.7 m/s	velocity	5.22	8.70	8.79	8.87	8.79	8.70	8.54	8.54	8.62	8.54	9.87	8.13		8.79	8.68	8.57
Marshall, Jamar (USA) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report															
date	11-Jun-21	time	2.50	3.53	4.57	5.60	6.60	7.60	8.63	9.70	10.80	11.93		13.53	7 / 5			
reaction time	0.161	interval	7 steps	1.03	1.04	1.03	1.00	1.00	1.03	1.07	1.10	1.13	1.60			3.10	3.03	3.30
wind	-0.6 m/s	velocity	5.49	8.87	8.79	8.87	9.14	9.14	8.87	8.54	8.31	8.09	8.76	8.13		8.85	9.05	8.31
Chen Kuei-Ru (TPE) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			Henson (2024) - Athlete First: 2021 year end hurdle report															
date	03-Aug-21	time	2.53	3.57	4.57	5.61	6.69	7.77	8.81	9.84	10.97	12.04		13.53	3 / 5			
reaction time	0.161	interval	7 steps	1.04	1.00	1.04	1.08	1.08	1.04	1.03	1.13	1.07	1.49			3.08	3.20	3.23
wind	-0.2 m/s	velocity	5.42	8.79	9.14	8.79	8.46	8.46	8.79	8.87	8.09	8.54	9.41	8.13		8.90	8.57	8.49
Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2022 World Athletics Championships (Eugene, OR)			Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season															
date	16-Jul-22	time	2.58	3.65	4.69	5.73	6.76	7.80	8.86	9.93	11.00	12.10		13.53	3 / 4			
reaction time	0.144	interval	7 steps	1.07	1.04	1.04	1.03	1.04	1.06	1.07	1.07	1.10	1.43			3.15	3.13	3.24
wind	-0.3 m/s	velocity	5.32	8.54	8.79	8.79	8.87	8.79	8.62	8.54	8.54	8.31	9.80	8.13		8.70	8.76	8.46
Thomas, Damion (JAM) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date	24-Jun-23	time	2.57	3.60	4.65	5.68	6.71	7.73	8.77	9.83	10.92	12.02		13.53	9 / 8			
reaction time	0.163	interval	7 steps	1.03	1.05	1.03	1.03	1.02	1.04	1.06	1.09	1.10	1.51			3.11	3.09	3.25
wind	1.6 m/s	velocity	5.34	8.87	8.70	8.87	8.87	8.96	8.79	8.62	8.39	8.31	9.28	8.13		8.82	8.87	8.44

Thomas, Damion (JAM) (1999)																
Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)																
date	16-Jul-23	time	2.47	3.55	4.59	5.62	6.65	7.69	8.73	9.78	10.85	11.93		13.53	9 / 8	
reaction time	0.147	interval	7 steps	1.08	1.04	1.03	1.03	1.04	1.05	1.07	1.08	1.60			3.15	3.11
wind	0.3 m/s	velocity	5.55	8.46	8.79	8.87	8.87	8.79	8.79	8.70	8.54	8.46	8.76	8.13	8.70	8.82
Fofana, Hassane (ITA) (1992)																
Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																
date	20-Aug-23	time	2.63	3.68	4.78	5.83	6.86	7.90	8.95	10.00	11.04	12.10		13.53	5 / 4	
reaction time	0.141	interval	7 steps	1.05	1.10	1.05	1.03	1.04	1.05	1.05	1.04	1.06	1.43		3.20	3.12
wind	0.5 m/s	velocity	5.22	8.70	8.31	8.70	8.87	8.79	8.70	8.70	8.79	8.62	9.80	8.13	8.57	8.79
Sophia, Matthew (NED) (2003)																
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)																
date	07-Jun-24	time	2.57	3.64	4.70	5.74	6.77	7.81	8.87	9.94	10.98	12.08		13.53	2 / 8	
reaction time		interval		1.07	1.06	1.04	1.03	1.04	1.06	1.07	1.04	1.10	1.45		3.17	3.13
wind	0.1 m/s	velocity	5.34	8.54	8.62	8.79	8.87	8.79	8.62	8.54	8.79	8.31	9.67	8.13	8.65	8.76
Hashimoto, Yu (JPN) (2006)																
FINAL - 2024 Japanese National U20 Championships (Niigata, JPN) (99.1cm)																
date	30-Jun-24	time	2.60	3.66	4.71	5.75	6.78	7.82	8.86	9.93	10.98	12.08		13.53	2 / 3	
reaction time	0.149	interval	7 steps	1.06	1.06	1.05	1.04	1.03	1.04	1.04	1.07	1.05	1.10	1.45	PB	3.15
wind	0.1 m/s	velocity	5.28	8.62	8.70	8.79	8.87	8.79	8.79	8.54	8.70	8.31	9.67	8.13	8.70	8.82
Chen Yuanjiang (CHN) (2006)																
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)																
date	30-Jun-24	time	2.63	3.69	4.74	5.78	6.84	7.87	8.91	9.98	11.04	12.12		13.53	4 / 4	
reaction time	0.155	interval	7 steps	1.06	1.06	1.05	1.04	1.06	1.03	1.04	1.07	1.06	1.41	PB	3.15	3.13
wind	0.9 m/s	velocity	5.22	8.62	8.70	8.79	8.62	8.87	8.79	8.54	8.62	8.46	9.94	8.13	8.70	8.76
McKoy, Mark (CAN) (1961)																
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)																
date	26-Sep-88	time	2.49	3.54	4.61	5.66	6.72	7.77	8.82	9.91	10.99	12.08		13.54	5 / 3	
reaction time	0.144	interval		1.05	1.07	1.05	1.06	1.05	1.05	1.09	1.08	1.09	1.46		3.17	3.16
wind	-0.7 m/s	velocity	5.51	8.70	8.54	8.70	8.62	8.70	8.70	8.39	8.46	8.39	9.60	8.12	8.65	8.68
Jarrett, Tony (GBR) (1968)																
FINAL - 1988 Olympic Games (Seoul, KOR)																
date	26-Sep-88	time	2.58	3.65	4.73	5.77	6.84	7.89	8.93	9.99	11.05	12.15		13.54	2 / 6	
reaction time	0.164	interval		1.07	1.08	1.04	1.07	1.05	1.04	1.06	1.06	1.10	1.39		3.19	3.16
wind	1.5 m/s	velocity	5.32	8.54	8.46	8.79	8.54	8.70	8.79	8.62	8.62	8.31	10.09	8.12	8.60	8.68
Nsenga, Jonathan (BEL) (1973)																
FINAL - 1998 European Championships (Budapest, HUN)																
date	22-Aug-98	time	2.62	3.66	4.71	5.76	6.81	7.83	8.87	9.94	11.02	12.12		13.54	1 / 8	
reaction time		interval		1.04	1.05	1.05	1.05	1.02	1.04	1.07	1.08	1.10	1.42		3.14	3.11
wind	1.5 m/s	velocity	5.24	8.79	8.70	8.70	8.70	8.96	8.79	8.54	8.46	8.31	9.87	8.12	8.73	8.82
Nsenga, Jonathan (BEL) (1973)																
FINAL - 1999 IAAF World Championships (Sevilla, ESP)																
date	25-Aug-99	time	2.61	3.65	4.72	5.77	6.80	7.86	8.90	9.93	11.01	12.08		13.54	1 / 8	
reaction time	0.142	interval		1.04	1.07	1.05	1.03	1.06	1.04	1.03	1.08	1.07	1.46		3.16	3.13
wind	1.0 m/s	velocity	5.26	8.79	8.54	8.70	8.87	8.62	8.79	8.87	8.46	8.54	9.60	8.12	8.68	8.76
Naito, Masato (JPN) (1980)																
Heat 3 - 2007 IAAF World Championships (Osaka, JPN)																
date	29-Aug-07	time	2.62	3.68	4.70	5.73	6.73	7.77	8.83	9.90	10.98	12.08		13.54	9 / 3	
reaction time	0.164	interval		1.06	1.02	1.03	1.00	1.04	1.06	1.07	1.08	1.10	1.46		3.11	3.10
wind	0.6 m/s	velocity	5.24	8.62	8.96	8.87	9.14	8.79	8.62	8.54	8.46	8.31	9.60	8.12	8.82	8.85
Wilson, Ryan (USA) (1980)																
FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)																
date	14-Sep-08	time	2.71	3.78	4.80	5.83	6.85	7.88	8.92	9.98	11.05	12.13		13.54	3 / 3	
reaction time	0.163	interval		1.07	1.02	1.03	1.02	1.03	1.04	1.06	1.07	1.08	1.41		3.12	3.09
wind	-1.3 m/s	velocity	5.06	8.54	8.96	8.87	8.96	8.87	8.79	8.62	8.54	8.46	9.94	8.12	8.79	8.87
Sedoc, Gregory (NED) (1981)																
Heat 5 - 2009 IAAF World Championships (Berlin, GER)																
date	19-Aug-09	time	2.63	3.69	4.74	5.77	6.79	7.83	8.90	9.95	11.03	12.14		13.54	7 / 3	
reaction time	0.145	interval		1.06	1.05	1.03	1.02	1.04	1.07	1.05	1.08	1.11	1.40		3.14	3.13
wind	0.0 m/s	velocity	5.22	8.62	8.70	8.87	8.96	8.79	8.54	8.70	8.46	8.23	10.01	8.12	8.73	8.76

Payne, David (USA) (1982)																
Heat 6 - 2009 IAAF World Championships (Berlin, GER)																
date	19-Aug-09	time	2.61	3.69	4.75	5.77	6.80	7.85	8.89	9.93	10.99	12.05	13.54	6 / 3		
reaction time	0.150	interval		1.08	1.06	1.02	1.03	1.05	1.04	1.04	1.06	1.06	1.49		3.16	3.12
wind	0.1 m/s	velocity	5.26	8.46	8.62	8.96	8.87	8.70	8.79	8.79	8.62	8.62	9.41	8.12	8.68	8.79
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																
Bascou, Dimitri (FRA) (1987)																
FINAL - 2012 Herculis Meeting International D'Athlétisme (Monaco, MON) (TV Analysis)																
date	20-Jul-12	time	2.50	3.55	4.60	5.64	6.67	7.71	8.77	9.84	10.91	12.01	13.54	1 / 8		
reaction time	0.159	interval	7 steps	1.05	1.05	1.04	1.03	1.04	1.06	1.07	1.07	1.10	1.53		3.14	3.13
wind	0.0 m/s	velocity	5.49	8.70	8.70	8.79	8.87	8.79	8.62	8.54	8.54	8.31	9.16	8.12	8.73	8.76
<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																
Dal Molin, Paolo (ITA) (1987)																
Heat 2 - 2014 European Championships (Zurich, SUI)																
date	13-Aug-14	time	2.55	3.64	4.67	5.73	6.77	7.80	8.90	9.97	11.05	12.14	13.54	6 / 4		
reaction time	0.138	interval		1.09	1.03	1.06	1.04	1.03	1.10	1.07	1.08	1.09	1.40		3.18	3.17
wind	0.4 m/s	velocity	5.38	8.39	8.87	8.62	8.79	8.87	8.31	8.54	8.46	8.39	10.01	8.12	8.62	8.65
<i>Incalza (2014) - https://www.youtube.com/watch?v=nliXgBWbl_k&list=UU7691fXeyNFIMROfkJ-WWUg</i>																
Omuro, Hideki (JPN) (1990)																
FINAL - 2016 Kansai Corporate Championships (Nagai, JPN)																
date	22-May-16	time	2.62	3.66	4.71	5.75	6.79	7.84	8.89	9.97	11.05	12.13	13.54	3 / 1		
reaction time		interval		1.04	1.05	1.04	1.04	1.05	1.05	1.08	1.08	1.08	1.41		3.13	3.14
wind	0.3 m/s	velocity	5.24	8.79	8.70	8.79	8.79	8.70	8.70	8.46	8.46	8.46	9.94	8.12	8.76	8.73
<i>(2016.05.22) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
Richardson, Jason (USA) (1986)																
FINAL - 2016 Meeting International Mohammed VI D'Athlétisme (Rabat, MAR) (TV Analysis)																
date	22-May-16	time	2.58	3.64	4.66	5.68	6.70	7.74	8.80	9.86	10.92	12.02	13.54	4 / 6		
reaction time	0.159	interval	7 steps	1.06	1.02	1.02	1.02	1.04	1.06	1.06	1.06	1.10	1.52		3.10	3.12
wind	1.4 m/s	velocity	5.32	8.62	8.96	8.96	8.96	8.79	8.62	8.62	8.62	8.31	9.22	8.12	8.85	8.79
<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																
Yazawa, Wataru (JPN) (1991)																
Heat 3 - 2016 Fuse Sprint (Tottori, JPN)																
date	05-Jun-16	time	2.64	3.71	4.75	5.80	6.85	7.89	8.94	10.00	11.06	12.14	13.54	6 / 1		
reaction time		interval	7 steps	1.07	1.04	1.05	1.05	1.04	1.05	1.06	1.06	1.08	1.40		3.16	3.14
wind	1.6 m/s	velocity	5.20	8.54	8.79	8.70	8.70	8.79	8.70	8.62	8.62	8.46	10.01	8.12	8.68	8.73
<i>(2016.06.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
Douvalidis, Konstadinos (GRE) (198)																
FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)																
date	23-Jul-16	time	2.60	3.63	4.66	5.73	6.76	7.80	8.85	9.90	10.98	12.06	13.54	7 / 3		
reaction time	0.146	interval		1.03	1.03	1.07	1.03	1.04	1.05	1.05	1.08	1.08	1.48		3.13	3.12
wind	-1.0 m/s	velocity	5.28	8.87	8.87	8.54	8.87	8.79	8.70	8.70	8.46	8.46	9.47	8.12	8.76	8.79
<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>																
Eaton, Jarret (USA) (1989)																
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)																
date	09-Sep-16	time	2.50	3.57	4.60	5.60	6.62	7.66	8.72	9.77	10.83	11.94	13.54	9 / 8		
reaction time	0.181	interval	7 steps	1.07	1.03	1.00	1.02	1.04	1.06	1.05	1.06	1.11	1.60		3.10	3.12
wind	0.2 m/s	velocity	5.49	8.54	8.87	9.14	8.96	8.79	8.62	8.70	8.62	8.23	8.76	8.12	8.85	8.79
<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																
Omuro, Hideki (JPN) (1990)																
Heat 5 - 2017 Fuse Sprint (Tottori, JPN)																
date	04-Jun-17	time	2.58	3.65	4.69	5.74	6.79	7.84	8.88	9.94	11.03	12.12	13.54	4 / 1		
reaction time		interval		1.07	1.04	1.05	1.05	1.05	1.04	1.06	1.09	1.09	1.42		3.16	3.14
wind	1.5 m/s	velocity	5.32	8.54	8.79	8.70	8.70	8.70	8.79	8.62	8.39	8.39	9.87	8.12	8.68	8.73
<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>																
Masuno, Genta (JPN) (1993)																
Semi-Final 2 - 2017 Japanese National Championships (Osaka, JPN)																
date	24-Jun-17	time	2.60	3.68	4.71	5.73	6.76	7.81	8.87	9.93	11.01	12.09	13.54	7 / 1		
reaction time	0.148	interval		1.08	1.03	1.02	1.03	1.05	1.06	1.06	1.08	1.08	1.45		3.13	3.14
wind	0.3 m/s	velocity	5.28	8.46	8.87	8.96	8.87	8.70	8.62	8.62	8.46	8.46	9.67	8.12	8.76	8.73
<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>																
Ishikawa, Shuhei (JPN) (1995)																
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																
date	28-Apr-19	time	2.59	3.36	4.68	5.70	6.74	7.77	8.81	9.86	10.97	12.09	13.54	6 / 1		
reaction time		interval	7 steps	0.77	1.32	1.02	1.04	1.03	1.04	1.05	1.11	1.12	1.45		3.11	3.11
wind	0.6 m/s	velocity	5.30	11.87	6.92	8.96	8.79	8.87	8.79	8.70	8.23	8.16	9.67	8.12	8.82	8.82
<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>																
Zeng Jianhang (CHN) (1998)																
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)																
date	02-Aug-19	time	2.56	3.60	4.64	5.67	6.74	7.76	8.82	9.88	10.96	12.08	13.54	3 / 2		
reaction time	0.150	interval		1.04	1.04	1.03	1.07	1.02	1.06	1.06	1.08	1.12	1.46		3.11	3.15
wind	0.0 m/s	velocity	5.36	8.79	8.79	8.87	8.54	8.96	8.62	8.62	8.46	8.16	9.60	8.12	8.82	8.70
<i>CAA Hurdle Development (2019)</i>																
Fillery, Cameron (GBR) (1998)																

FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)

date	18-Aug-19	time	2.58	3.65	4.74	5.76	6.77	7.78	8.83	9.88	10.92	12.02		13.54	9 / 5			
reaction time	0.109	interval	7 steps	1.07	1.09	1.02	1.01	1.01	1.05	1.05	1.04	1.10	1.52	PB		3.18	3.07	3.19
wind	-0.2 m/s	velocity	5.32	8.54	8.39	8.96	9.05	9.05	8.70	8.70	8.79	8.31	9.22	8.12		8.62	8.93	8.60

Henson (2020) - Athlete First: 2019 year end hurdle report
Douvalidis, Konstadinos (GRE) (198) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT) *CAA Hurdle Development (2019)*

date	02-Oct-19	time	2.65	3.71	4.75	5.77	6.81	7.86	8.92	9.99	11.05	12.13		13.54	9 / 4			
reaction time	0.198	interval	7 steps	1.06	1.04	1.02	1.04	1.05	1.06	1.07	1.06	1.08	1.41			3.12	3.15	3.21
wind	0.6 m/s	velocity	5.18	8.62	8.79	8.96	8.79	8.70	8.62	8.54	8.62	8.46	9.94	8.12		8.79	8.70	8.54

Kikuchi, Rintaro (JPN) (2001) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (99cm) *Enomoto (2019) - research on athlete performance and technique- 2019 data book*

date	06-Oct-19	time	2.57	3.62	4.70	5.76	6.83	7.85	8.92	9.94	11.02	12.10		13.54	2 / 4			
reaction time	0.132	interval		1.05	1.08	1.06	1.07	1.02	1.07	1.02	1.08	1.08	1.44			3.19	3.16	3.18
wind	2.7 m/s	velocity	5.34	8.70	8.46	8.62	8.54	8.96	8.54	8.96	8.46	8.46	9.74	8.12		8.60	8.68	8.62

Muratake, Rachid (JPN) (2002) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (99cm) *Kijima (2019) - research on athlete performance and technique- 2019 data book*

date	18-Oct-19	time	2.60	3.64	4.70	5.74	6.78	7.83	8.87	9.94	11.01	12.08		13.54	5 / 1			
reaction time	0.144	interval		1.04	1.06	1.04	1.04	1.05	1.04	1.07	1.07	1.07	1.46			3.14	3.13	3.21
wind	-0.6 m/s	velocity	5.28	8.79	8.62	8.79	8.79	8.70	8.79	8.54	8.54	8.54	9.60	8.12		8.73	8.76	8.54

King, David (GBR) (1994) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis) *Henson (2020) - Athlete First: 2020 year end hurdle report*

date	25-Sep-20	time	2.48	3.56	4.60	5.64	6.68	7.70	8.76	9.82	10.90	11.98		13.54	1 / 3			
reaction time	0.109	interval	7 steps	1.08	1.04	1.04	1.04	1.02	1.06	1.06	1.08	1.08	1.56			3.16	3.12	3.22
wind	0.3 m/s	velocity	5.53	8.46	8.79	8.79	8.79	8.96	8.62	8.62	8.46	8.46	8.99	8.12		8.68	8.79	8.52

Zeng Jianhang (CHN) (1998) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
FINAL - 2020 Chinese National Championships (Shaoxing, CHN) *CAA Hurdle Development (2020)*

date	16-Sep-20	time	2.58	3.62	4.66	5.69	6.72	7.76	8.82	9.90	10.98	12.09		13.54	6 / 2			
reaction time	0.156	interval		1.04	1.04	1.03	1.03	1.04	1.06	1.08	1.08	1.11	1.45			3.11	3.13	3.27
wind	0.4 m/s	velocity	5.32	8.79	8.79	8.87	8.87	8.79	8.62	8.46	8.46	8.23	9.67	8.12		8.82	8.76	8.39

Fujii, Ryota (JPN) (1996) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
FINAL - 2021 Japanese National Championships (Osaka, JPN) *Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season*

date	27-Jun-21	time	2.59	3.65	4.69	5.73	6.77	7.80	8.86	9.92	11.00	12.08		13.54	2 / 6			
reaction time	0.149	interval		1.06	1.04	1.04	1.04	1.03	1.06	1.06	1.08	1.08	1.46	PB		3.14	3.13	3.22
wind	1.2 m/s	velocity	5.30	8.62	8.79	8.79	8.79	8.87	8.62	8.62	8.46	8.46	9.60	8.12		8.73	8.76	8.52

Thomas, Damion (JAM) (1999) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis) *Henson (2024) - Athlete First: 2021 year end hurdle report*

date	03-Aug-21	time	2.70	3.78	4.81	5.81	6.85	7.89	8.90	9.97	11.04	12.12		13.54	8 / 3			
reaction time	0.142	interval	7 steps	1.08	1.03	1.00	1.04	1.04	1.01	1.07	1.07	1.08	1.42			3.11	3.09	
wind	-0.1 m/s	velocity	5.08	8.46	8.87	9.14	8.79	8.79	9.05	8.54	8.54	8.46	9.87	8.12		8.82	8.87	

Joseph, Jason (SUI) (1998) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis) *Henson (2022) - Athlete First: 2022 year end hurdle report*

date	08-Sep-22	time	2.60	3.64	4.68	5.70	6.74	7.76	8.81	9.88	10.96	12.04		13.54	9 / 6			
reaction time	0.178	interval	7 steps	1.04	1.04	1.02	1.04	1.02	1.05	1.07	1.08	1.08	1.50			3.10	3.11	3.23
wind	-1.0 m/s	velocity	5.28	8.79	8.79	8.96	8.79	8.96	8.70	8.54	8.46	8.46	9.35	8.12		8.85	8.82	8.49

Edwards, Eric (USA) (2000) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL) *Omega Timing (2023) - diamond league race analysis*

date	16-Jul-23	time	2.38	3.46	4.51	5.57	6.61	7.65	8.69	9.75	10.82	11.92		13.54	9 / 6			
reaction time	0.130	interval		1.08	1.05	1.06	1.04	1.04	1.04	1.06	1.07	1.10	1.62			3.19	3.12	3.23
wind	0.3 m/s	velocity	5.76	8.46	8.70	8.62	8.79	8.79	8.79	8.62	8.54	8.31	8.65	8.12		8.60	8.79	8.49

Vick, Brahmir (USA) (2002) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis) *Henson (2024) - Athlete First: 2024 year end hurdle report*

date	24-Jun-24	time	2.56	3.62	4.66	5.70	6.73	7.77	8.83	9.87	10.96	12.08		13.54	7 / 7			
reaction time		interval		1.06	1.04	1.04	1.03	1.04	1.06	1.04	1.09	1.12	1.46	PB		3.14	3.13	3.25
wind	1.8 m/s	velocity	5.36	8.62	8.79	8.79	8.87	8.79	8.62	8.79	8.39	8.16	9.60	8.12		8.73	8.76	8.44

Joseph, Jason (SUI) (1998) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON) *Omega Timing (2024) - diamond league race analysis*

date	12-Jul-24	time	2.54	3.62	4.64	5.66	6.68	7.71	8.74	9.78	10.85	11.93		13.54	1 / 6			
reaction time	0.154	interval	7 steps	1.08	1.02	1.02	1.02	1.03	1.03	1.04	1.07	1.08	1.61			3.12	3.08	3.19
wind	-0.7 m/s	velocity	5.40	8.46	8.96	8.96	8.96	8.87	8.87	8.79	8.54	8.46	8.71	8.12		8.79	8.90	8.60

Liu Junxi (CHN) (2003) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
Heat 4 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympic Games - Results Book (2024)*

date	04-Aug-24	time	2.40	3.48	4.52	5.52	6.56	7.60	8.66	9.73	10.81	11.91		13.54	2 / 6			
reaction time	0.162	interval	7 steps	1.08	1.04	1.00	1.04	1.04	1.06	1.07	1.08	1.10	1.63			3.12	3.14	3.25
wind	0.3 m/s	velocity	5.72	8.46	8.79	9.14	8.79	8.79	8.62	8.54	8.46	8.31	8.60	8.12		8.79	8.73	8.44
Pereira, Rafael (BRA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Repechage 2 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	06-Aug-24	time	2.43	3.52	4.55	5.60	6.62	7.65	8.69	9.75	10.83	11.94		13.54	3 / 1			
reaction time	0.140	interval		1.09	1.03	1.05	1.02	1.03	1.04	1.06	1.08	1.11	1.60			3.17	3.09	3.25
wind	-0.5 m/s	velocity	5.65	8.39	8.87	8.70	8.96	8.87	8.79	8.62	8.46	8.23	8.76	8.12		8.65	8.87	8.44
Mohamed, Raphaël (FRA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Repechage 2 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	06-Aug-24	time	2.52	3.61	4.66	5.70	6.74	7.77	8.81	9.86	10.92	11.99		13.54	7 / 2			
reaction time	0.195	interval	7 steps	1.09	1.05	1.04	1.04	1.03	1.04	1.05	1.06	1.07	1.55			3.18	3.11	3.18
wind	-0.5 m/s	velocity	5.44	8.39	8.70	8.79	8.79	8.87	8.79	8.70	8.62	8.54	9.05	8.12		8.62	8.82	8.62
Bouanani, Amine (ALG) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Repechage 2 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	06-Aug-24	time	2.51	3.61	4.65	5.67	6.69	7.72	8.75	9.81	10.87	11.95		13.54	6 / 3			
reaction time	0.187	interval	7 steps	1.10	1.04	1.02	1.02	1.03	1.03	1.06	1.06	1.08	1.59			3.16	3.08	3.20
wind	-0.5 m/s	velocity	5.47	8.31	8.79	8.96	8.96	8.87	8.87	8.62	8.62	8.46	8.82	8.12		8.68	8.90	8.57
Shi Guoxing (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Chinese National Championships (Quzhou, CHN)															<i>Shandong Athletics Sport Science (2024)</i>			
date	16-Sep-24	time	2.68	3.74	4.78	5.81	6.83	7.86	8.91	9.96	11.03	12.11		13.54	3 / 5			
reaction time	0.170	interval		1.06	1.04	1.03	1.02	1.03	1.05	1.05	1.07	1.08	1.43			3.13	3.10	3.20
wind	0.2 m/s	velocity	5.12	8.62	8.79	8.87	8.96	8.87	8.70	8.70	8.54	8.46	9.80	8.12		8.76	8.85	8.57
Jackson, Colin (GBR) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)															<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>			
date	26-Sep-88	time	2.58	3.69	4.73	5.74	6.78	7.81	8.85	9.89	10.97	12.05		13.55	4 / 3			
reaction time	0.137	interval		1.11	1.04	1.01	1.04	1.03	1.04	1.04	1.08	1.08	1.50			3.16	3.11	3.20
wind	0.00 m/s	velocity	5.32	8.23	8.79	9.05	8.79	8.87	8.79	8.79	8.46	8.46	9.35	8.12		8.68	8.82	8.57
Crear, Mark (USA) (1968)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1997 IAAF World Championships (Athens, GRE)															<i>Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>			
date	07-Aug-97	time	2.60	3.64	4.65	5.66	6.66	7.76	8.78	9.86	10.92	12.06		13.55	8 / 7			
reaction time	0.134	interval		1.04	1.01	1.01	1.00	1.10	1.02	1.08	1.06	1.14	1.49			3.06	3.12	3.28
wind	0.0 m/s	velocity	5.28	8.79	9.05	9.05	9.14	8.31	8.96	8.46	8.62	8.02	9.41	8.12		8.96	8.79	8.36
Giacconi, Andrea (ITA) (1974)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2002 European Championships (Munich, GER)															<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>			
date	09-Aug-02	time	2.61	3.69	4.75	5.79	6.81	7.87	8.91	9.97	11.02	12.11		13.55	1 / 1			
reaction time	0.116	interval		1.08	1.06	1.04	1.02	1.06	1.04	1.06	1.05	1.09	1.44			3.18	3.12	3.20
wind	2.0 m/s	velocity	5.26	8.46	8.62	8.79	8.96	8.62	8.79	8.62	8.70	8.39	9.74	8.12		8.62	8.79	8.57
Phillips, Christopher (USA) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 USATF National Championships (Palo Alto, CA)															<i>USATF Women's Sprint Development (2003)</i>			
date	21-Jun-03	time	2.42	3.50	4.55	5.56	6.62	7.64	8.68	9.71	10.78	11.88		13.55	7 / 4			
reaction time		interval		1.08	1.05	1.01	1.06	1.02	1.04	1.03	1.07	1.10	1.67			3.14	3.12	3.20
wind	-2.4 m/s	velocity	5.67	8.46	8.70	9.05	8.62	8.96	8.79	8.87	8.54	8.31	8.40	8.12		8.73	8.79	8.57
Shi Dongpeng (CHN) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 IAAF World Championships (Paris, FRA)															<i>Yao (2012) - research on rhythm training methods between men's straight hurdles</i>			
date	30-Aug-03	time	2.71	3.78	4.79	5.81	6.83	7.85	8.87	9.91	10.99	12.07		13.55	3 / ~~Z~~ 6			
reaction time	0.145	interval		1.07	1.01	1.02	1.02	1.02	1.02	1.04	1.08	1.08	1.48			3.10	3.06	3.20
wind	0.3 m/s	velocity	5.06	8.54	9.05	8.96	8.96	8.96	8.96	8.79	8.46	8.46	9.47	8.12		8.85	8.96	8.57
Yarbrough, Linnie (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2007 USATF National Championships (Indianapolis, IN)															<i>USATF Men's Hurdle Development (2007)</i>			
date	24-Jun-07	time	2.70	3.75	4.79	5.82	6.86	7.89	8.94	9.99	11.06	12.11		13.55	6 / 6			
reaction time		interval		1.05	1.04	1.03	1.04	1.03	1.05	1.05	1.07	1.05	1.44			3.12	3.12	3.17
wind	-0.9 m/s	velocity	5.08	8.70	8.79	8.87	8.79	8.87	8.70	8.70	8.54	8.70	9.74	8.12		8.79	8.79	8.65
Bascou, Dimitri (FRA) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2009 IAAF World Championships (Berlin, GER)															<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>			
date	19-Aug-09	time	2.65	3.72	4.75	5.77	6.80	7.85	8.91	9.97	11.05	12.13		13.55	6 / 4			
reaction time	0.158	interval		1.07	1.03	1.02	1.03	1.05	1.06	1.06	1.08	1.08	1.42			3.12	3.14	3.22
wind	0.0 m/s	velocity	5.18	8.54	8.87	8.96	8.87	8.70	8.62	8.62	8.46	8.46	9.87	8.12		8.79	8.73	8.52
Fofana, Hassane (ITA) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2014 European Championships (Zurich, SUI)															<i>Incalza (2014) - https://www.youtube.com/watch?v=wFOM-j9iZHE&list=UU7691fXeyNFIMROfkJ-WWUg</i>			
date	13-Aug-14	time	2.64	3.71	4.74	5.79	6.83	7.86	8.89	9.93	10.99	12.08		13.55	2 / 5			

reaction time	0.130	interval		1.07	1.03	1.05	1.04	1.03	1.03	1.04	1.06	1.09	1.47	PB		3.15	3.10	3.19
wind	0.7 m/s	velocity	5.20	8.54	8.87	8.70	8.79	8.87	8.87	8.79	8.62	8.39	9.54	8.12		8.70	8.85	8.60

Martinot Lagarde, Pascal (FRA) (199)																		
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)																		
date	28-May-16	time	2.52	3.56	4.58	5.62	6.66	7.70	8.74	9.78	10.86	11.96		13.55		5 / 6		
reaction time		interval	7 steps	1.04	1.02	1.04	1.04	1.04	1.04	1.08	1.10	1.59				3.10	3.12	3.22
wind	0.7 m/s	velocity	5.44	8.79	8.96	8.79	8.79	8.79	8.79	8.46	8.31	8.82	8.12			8.85	8.79	8.52

Bascou, Dimitri (FRA) (1987)																		
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)																		
date	27-May-17	time	2.48	3.50	4.54	5.56	6.60	7.66	8.74	9.82	10.90	12.00		13.55		3 / 8		
reaction time	0.158	interval	7 steps	1.02	1.04	1.02	1.04	1.06	1.08	1.08	1.08	1.10	1.55			3.08	3.18	3.26
wind	0.9 m/s	velocity	5.53	8.96	8.79	8.96	8.79	8.62	8.46	8.46	8.46	8.31	9.05	8.12		8.90	8.62	8.41

Martinsen, Andreas (DEN) (1990)																		
FINAL - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)																		
date	28-Jun-17	time	2.54	3.62	4.66	5.70	6.74	7.78	8.82	9.90	10.96	12.06		13.55		3 / 6		
reaction time	0.149	interval	7 steps	1.08	1.04	1.04	1.04	1.04	1.04	1.08	1.06	1.10	1.49			3.16	3.12	3.24
wind	0.6 m/s	velocity	5.40	8.46	8.79	8.79	8.79	8.79	8.46	8.62	8.31	9.41	8.12			8.68	8.79	8.46

Takayama, Shunya (JPN) (1994)																		
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)																		
date	20-May-18	time	2.61	3.69	4.74	5.78	6.83	7.89	8.94	10.00	11.07	12.17		13.55		6 / 3		
reaction time	0.150	interval		1.08	1.05	1.04	1.05	1.06	1.05	1.06	1.07	1.10	1.38			3.17	3.16	3.23
wind	-0.4 m/s	velocity	5.26	8.46	8.70	8.79	8.70	8.62	8.70	8.62	8.54	8.31	10.16	8.12		8.65	8.68	8.49

Lu Wei (CHN) (2000)																		
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)																		
date	14-Aug-19	time	2.67	3.73	4.77	5.82	6.82	7.86	8.89	9.93	11.01	12.09		13.55		7 / 4		
reaction time	0.170	interval		1.06	1.04	1.05	1.00	1.04	1.03	1.04	1.08	1.08	1.46	PB		3.15	3.07	3.20
wind	-0.3 m/s	velocity	5.14	8.62	8.79	8.70	9.14	8.79	8.87	8.79	8.46	8.46	9.60	8.12		8.70	8.93	8.57

Numoto, Syuusei (JPN) (1995)																		
FINAL - 2020 Japanese National Championships (Niigata, JPN)																		
date	03-Oct-20	time	2.54	3.63	4.68	5.73	6.78	7.83	8.90	9.97	11.05	12.13		13.55		8 / 4		
reaction time	0.145	interval	7 steps	1.09	1.05	1.05	1.05	1.05	1.07	1.07	1.08	1.08	1.42			3.19	3.17	3.23
wind	-0.1 m/s	velocity	5.40	8.39	8.70	8.70	8.70	8.70	8.54	8.54	8.46	8.46	9.87	8.12		8.60	8.65	8.49

Numoto, Syuusei (JPN) (1995)																		
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)																		
date	24-Oct-20	time	2.53	3.59	4.65	5.69	6.75	7.81	8.88	9.95	11.03	12.12		13.55		4 / 2		
reaction time		interval	7 steps	1.06	1.06	1.04	1.06	1.06	1.07	1.07	1.08	1.09	1.43			3.16	3.19	3.24
wind	0.6 m/s	velocity	5.42	8.62	8.62	8.79	8.62	8.62	8.54	8.54	8.46	8.39	9.80	8.12		8.68	8.60	8.46

Brooks, Devon (USA) (1998)																		
Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)																		
date	26-Jun-21	time	2.62	3.66	4.68	5.70	6.72	7.74	8.77	9.81	10.87	12.01		13.55		1 / 7		
reaction time	0.264	interval	7 steps	1.04	1.02	1.02	1.02	1.02	1.03	1.04	1.06	1.14	1.54			3.08	3.07	3.24
wind	1.8 m/s	velocity	5.24	8.79	8.96	8.96	8.96	8.96	8.87	8.79	8.62	8.02	9.10	8.12		8.90	8.93	8.46

Constantino, Gabriel (BRA) (1995)																		
Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																		
date	03-Aug-21	time	2.58	3.70	4.74	5.78	6.77	7.81	8.86	9.90	10.98	12.10		13.55		5 / 5		
reaction time	0.154	interval	7 steps	1.12	1.04	1.04	0.99	1.04	1.05	1.04	1.08	1.12	1.45			3.20	3.08	3.24
wind	0.0 m/s	velocity	5.32	8.16	8.79	8.79	9.23	8.79	8.70	8.79	8.46	8.16	9.67	8.12		8.57	8.90	8.46

King, David (GBR) (1994)																		
Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																		
date	03-Aug-21	time	2.53	3.57	4.62	5.66	6.75	7.81	8.82	9.85	10.98	12.06		13.55		1 / 6		
reaction time	0.111	interval	7 steps	1.04	1.05	1.04	1.09	1.06	1.01	1.03	1.13	1.08	1.49			3.13	3.16	3.24
wind	-0.2 m/s	velocity	5.42	8.79	8.70	8.79	8.39	8.62	9.05	8.87	8.09	8.46	9.41	8.12		8.76	8.68	8.46

Alkana, Antonio (RSA) (1990)																		
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																		
date	03-Aug-21	time	2.58	3.65	4.71	5.71	6.75	7.79	8.82	9.89	10.97	12.06		13.55		4 / 6		
reaction time	0.118	interval		1.07	1.06	1.00	1.04	1.04	1.03	1.07	1.08	1.09	1.49			3.13	3.11	3.24
wind	-0.1 m/s	velocity	5.32	8.54	8.62	9.14	8.79	8.79	8.87	8.54	8.46	8.39	9.41	8.12		8.76	8.82	8.46

Muratake, Rachid (JPN) (2002)																		
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)																		
date	29-Apr-22	time	2.66	3.73	4.78	5.80	6.84	7.88	8.92	9.97	11.03	12.12		13.55		6 / 1		
reaction time	0.159	interval	7 steps	1.07	1.05	1.02	1.04	1.04	1.04	1.05	1.06	1.09	1.43			3.14	3.12	3.20

wind	-1.5 m/s	velocity	5.16	8.54	8.70	8.96	8.79	8.79	8.79	8.70	8.62	8.39	9.80	8.12		8.73	8.79	8.57
Manago, Ryona (JPN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Japanese U20 National Championships (Osaka, JPN) (99cm)			Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season															
date	12-Jun-22	time	2.58	3.67	4.70	5.73	6.76	7.80	8.88	9.94	11.02	12.08		13.55	5 / 2			
reaction time	0.151	interval	7 steps	1.09	1.03	1.03	1.03	1.04	1.08	1.06	1.08	1.06	1.47			3.15	3.15	3.20
wind	1.1 m/s	velocity	5.32	8.39	8.87	8.87	8.87	8.79	8.46	8.62	8.46	8.62	9.54	8.12		8.70	8.70	8.57
Joseph, Jason (SUI) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)			Henson (2022) - Athlete First: 2022 year end hurdle report															
date	16-Jun-22	time	2.56	3.62	4.64	5.68	6.68	7.72	8.76	9.84	10.92	12.02		13.55	7 / 5			
reaction time	0.159	interval	7 steps	1.06	1.02	1.04	1.00	1.04	1.04	1.08	1.08	1.10	1.53			3.12	3.08	3.26
wind	-1.2 m/s	velocity	5.36	8.62	8.96	8.79	9.14	8.79	8.79	8.46	8.46	8.31	9.16	8.12		8.79	8.90	8.41
Brockman, Joshua (USA) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)			USATF (2022) - Results powered by Karmarush.com															
date	26-Jun-22	time	2.47	3.56	4.60	5.60	6.62	7.69	8.76	9.85	10.92	12.00		13.55	2 / 6			
reaction time		interval		1.09	1.04	1.00	1.02	1.07	1.07	1.09	1.07	1.08	1.55	PB		3.13	3.16	3.24
wind	0.1 m/s	velocity	5.55	8.39	8.79	9.14	8.96	8.54	8.54	8.39	8.54	8.46	9.05	8.12		8.76	8.68	8.46
Manga, Aurel (FRA) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 Meeting de Paris (Paris, FRA)			Omega Timing (2023) - diamond league race analysis															
date	09-Jun-23	time	2.41	3.48	4.52	5.55	6.58	7.61	8.67	9.76	10.84	11.92		13.55	1 / 7			
reaction time	0.163	interval	7 steps	1.07	1.04	1.03	1.03	1.03	1.06	1.09	1.08	1.08	1.63			3.14	3.12	3.25
wind	-0.6 m/s	velocity	5.69	8.54	8.79	8.87	8.87	8.87	8.62	8.39	8.46	8.46	8.60	8.12		8.73	8.79	8.44
Ishida Thomas, Higashi (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Michitaka Kinami Memorial (Osaka, JPN)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date	12-May-24	time	2.60	3.64	4.67	5.71	6.75	7.78	8.82	9.88	10.97	12.08		13.55	3 / 3			
reaction time	0.188	interval		1.04	1.03	1.04	1.04	1.03	1.04	1.06	1.09	1.11	1.47			3.11	3.11	3.26
wind	0.9 m/s	velocity	5.28	8.79	8.87	8.79	8.79	8.87	8.79	8.62	8.39	8.23	9.54	8.12		8.82	8.82	8.41
Rollins, Louis (USA) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Atlanta City Games (Atlanta, GA) (Street Race) (TV Analysis)			Henson (2024) - Athlete First: 2024 year end hurdle report															
date	18-May-24	time	2.56	3.61	4.65	5.68	6.72	7.80	8.85	9.92	10.98	12.06		13.55	2 / 4			
reaction time		interval		1.05	1.04	1.03	1.04	1.08	1.05	1.07	1.06	1.08	1.49			3.12	3.17	3.21
wind	-0.7 m/s	velocity	5.36	8.70	8.79	8.87	8.79	8.46	8.70	8.54	8.62	8.46	9.41	8.12		8.79	8.65	8.54
Edwards, Eric (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Seiko Golden Grand Prix (Tokyo, JPN)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date	19-May-24	time	2.63	3.68	4.73	5.75	6.80	7.84	8.88	9.94	11.03	12.10		13.55	4 / 3			
reaction time	0.158	interval		1.05	1.05	1.02	1.05	1.04	1.04	1.06	1.09	1.07	1.45			3.12	3.13	3.22
wind	-0.6 m/s	velocity	5.22	8.70	8.70	8.96	8.70	8.79	8.79	8.62	8.39	8.54	9.67	8.12		8.79	8.76	8.52
Machi, Ryota (JPN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National Championships (Niigata, JPN)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date	30-Jun-24	time	2.61	3.69	4.73	5.75	6.81	7.85	8.90	9.96	11.04	12.12		13.55	5 / 8			
reaction time	0.135	interval	7 steps	1.08	1.04	1.02	1.06	1.04	1.05	1.06	1.08	1.08	1.43			3.14	3.15	3.22
wind	0.2 m/s	velocity	5.26	8.46	8.79	8.96	8.62	8.79	8.70	8.62	8.46	8.46	9.80	8.12		8.73	8.70	8.52
Mordi, Manuel (GER) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Repechage 2 - 2024 Olympic Games (Paris, FRA)			Paris 2024 Olympic Games - Results Book (2024)															
date	06-Aug-24	time	2.48	3.55	4.58	5.59	6.61	7.63	8.68	9.74	10.82	11.92		13.55	5 / 4			
reaction time	0.177	interval	7 steps	1.07	1.03	1.01	1.02	1.02	1.05	1.06	1.08	1.10	1.63			3.11	3.09	3.24
wind	-0.5 m/s	velocity	5.53	8.54	8.87	9.05	8.96	8.96	8.70	8.62	8.46	8.31	8.60	8.12		8.82	8.87	8.46
Zhu Shenglong (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Chinese National Championships (Quzhou, CHN)			Shandong Athletics Sport Science (2024)															
date	16-Sep-24	time	2.60	3.66	4.69	5.72	6.74	7.77	8.84	9.91	10.94	12.06		13.55	5 / 6			
reaction time	0.141	interval	7 steps	1.06	1.03	1.03	1.02	1.03	1.07	1.07	1.03	1.12	1.49			3.12	3.12	3.22
wind	0.2 m/s	velocity	5.28	8.62	8.87	8.87	8.96	8.87	8.54	8.54	8.87	8.16	9.41	8.12		8.79	8.79	8.52
Pohland, Holger (GDR) (1963)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1986 East German National Championships (Jena, GDR)			Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes															
date	27-Jun-86	time	2.61	3.66	4.68	5.71	6.76	7.81	8.88	9.94	11.03	12.12		13.56	1 / 1			
reaction time		interval		1.05	1.02	1.03	1.05	1.05	1.07	1.06	1.09	1.09	1.44			3.10	3.17	3.24
wind	1.7 m/s	velocity	5.26	8.70	8.96	8.87	8.70	8.70	8.54	8.62	8.39	8.39	9.74	8.11		8.85	8.65	8.46
Jarrett, Tony (GBR) (1968)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)			Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988															
date	26-Sep-88	time	2.54	3.62	4.69	5.74	6.78	7.82	8.90	9.96	11.04	12.11		13.56	6 / 4			
reaction time	0.152	interval		1.08	1.07	1.05	1.04	1.04	1.08	1.06	1.08	1.07	1.45			3.20	3.16	3.21
wind	-0.7 m/s	velocity	5.40	8.46	8.54	8.70	8.79	8.79	8.46	8.62	8.46	8.54	9.67	8.11		8.57	8.68	8.54

Oliver, David (USA) (1982)																
Heat 4 - 2007 USATF National Championships (Indianapolis, IN)																
USATF Men's Hurdle Development (2007)																
date	23-Jun-07	time	2.64	3.69	4.77	5.81	6.84	7.91	8.96	10.01	11.08	12.15		13.56	7 / 1	
reaction time	0.234	interval		1.05	1.08	1.04	1.03	1.07	1.05	1.05	1.07	1.07	1.41		3.17	3.15
wind	-2.8 m/s	velocity	5.20	8.70	8.46	8.79	8.87	8.54	8.70	8.70	8.54	8.54	9.94	8.11	8.65	8.70
Merritt, Aries (USA) (1985)																
FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)																
Graubner (2009) - http://www.fgs.uni-halle.de																
date	14-Sep-08	time	2.66	3.72	4.77	5.80	6.83	7.87	8.91	9.96	11.02	12.10		13.56	4 / 4	
reaction time	0.156	interval		1.06	1.05	1.03	1.03	1.04	1.04	1.05	1.06	1.08	1.46		3.14	3.11
wind	-1.3 m/s	velocity	5.16	8.62	8.70	8.87	8.87	8.79	8.79	8.70	8.62	8.46	9.60	8.11	8.73	8.82
Sands, Shamar (BAH) (1985)																
FINAL - 2009 ISTAF (Berlin, GER)																
Graubner (2009) - http://www.fgs.uni-halle.de																
date	14-Jun-09	time	2.59	3.65	4.69	5.71	6.73	7.77	8.81	9.87	10.93	12.09		13.56	8 / 4	
reaction time	0.234	interval		1.06	1.04	1.02	1.02	1.04	1.04	1.06	1.06	1.16	1.47		3.12	3.10
wind	0.7 m/s	velocity	5.30	8.62	8.79	8.96	8.96	8.79	8.79	8.62	8.62	7.88	9.54	8.11	8.79	8.85
Townsend, Fred (USA) (1982)																
FINAL - 2009 Windsprint (Sundsvall, SWE)																
(2009) - www.ssg.se/en/Windsprint/Split-times/																
date	25-Jul-09	time		3.67			6.79			9.98				13.56	/ 1	
reaction time		interval					3.12			3.19			3.58			
wind	1.6 m/s	velocity		6.23			8.79			8.60			9.02	8.11		
Shi Dongpeng (CHN) (1984)																
Heat 1 - 2009 IAAF World Championships (Berlin, GER)																
Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																
date	19-Aug-09	time	2.68	3.75	4.79	5.82	6.84	7.90	8.95	10.00	11.06	12.12		13.56	2 / 1	
reaction time	0.155	interval		1.07	1.04	1.03	1.02	1.06	1.05	1.05	1.06	1.06	1.44		3.14	3.13
wind	-0.4 m/s	velocity	5.12	8.54	8.79	8.87	8.96	8.62	8.70	8.70	8.62	8.62	9.74	8.11	8.73	8.76
Svoboda, Petr (CZE) (1984)																
Heat 3 - 2009 IAAF World Championships (Berlin, GER)																
Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																
date	19-Aug-09	time	2.63	3.69	4.72	5.74	6.75	7.78	8.85	9.91	10.99	12.09		13.56	6 / =1	
reaction time	0.152	interval		1.06	1.03	1.02	1.01	1.03	1.07	1.06	1.08	1.10	1.47		3.11	3.11
wind	0.2 m/s	velocity	5.22	8.62	8.87	8.96	9.05	8.87	8.54	8.62	8.46	8.31	9.54	8.11	8.82	8.82
Darien, Garfield (FRA) (1987)																
Heat 3 - 2009 IAAF World Championships (Berlin, GER)																
Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																
date	19-Aug-09	time	2.67	3.71	4.75	5.80	6.83	7.87	8.93	9.99	11.07	12.15		13.56	2 / =1	
reaction time	0.149	interval		1.04	1.04	1.05	1.03	1.04	1.06	1.06	1.08	1.08	1.41		3.13	3.13
wind	0.2 m/s	velocity	5.14	8.79	8.79	8.70	8.87	8.79	8.62	8.62	8.46	8.46	9.94	8.11	8.76	8.76
Noga, Artur (POL) (1988)																
Heat 3 - 2009 IAAF World Championships (Berlin, GER)																
Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																
date	19-Aug-09	time	2.70	3.77	4.83	5.87	6.90	7.93	8.97	10.02	11.07	12.14		13.56	3 / 3	
reaction time	0.176	interval		1.07	1.06	1.04	1.03	1.03	1.04	1.05	1.05	1.07	1.42		3.17	3.10
wind	0.2 m/s	velocity	5.08	8.54	8.62	8.79	8.87	8.87	8.79	8.70	8.70	8.54	9.87	8.11	8.65	8.85
Thomas, Dwight (JAM) (1980)																
FINAL - 2009 IAAF World Championships (Berlin, GER)																
Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																
date	20-Aug-09	time	2.66	3.73	4.77	5.80	6.84	7.88	8.90	9.95	11.00	12.14		13.56	2 / 7	
reaction time	0.145	interval		1.07	1.04	1.03	1.04	1.04	1.02	1.05	1.05	1.14	1.42		3.14	3.10
wind	0.1 m/s	velocity	5.16	8.54	8.79	8.87	8.79	8.79	8.96	8.70	8.70	8.02	9.87	8.11	8.73	8.85
Nossmys, Philip (SWE) (1982)																
FINAL - 2010 Folksam GP (Sollentuna, SWE)																
Blomkvist (2010) - www.sub13.se																
date	01-Jul-10	time	2.49	3.56	4.62	5.66	6.70	7.75	8.80	9.86	10.91	11.99		13.56	4 / 2	
reaction time		interval		1.07	1.06	1.04	1.04	1.05	1.05	1.06	1.05	1.08	1.57		3.17	3.14
wind	0.4 m/s	velocity	5.51	8.54	8.62	8.79	8.79	8.70	8.70	8.62	8.70	8.46	8.93	8.11	8.65	8.73
Nossmys, Philip (SWE) (1982)																
FINAL - 2012 Windsprint (Sundsvall, SWE)																
Blomkvist (2012) - www.sub13.se																
date	17-Jun-12	time	2.65	3.74	4.76	5.81	6.84	7.88	8.94	9.99	11.04	12.13		13.56	5 / 2	
reaction time		interval		1.09	1.02	1.05	1.03	1.04	1.06	1.05	1.05	1.09	1.43		3.16	3.13
wind	1.1 m/s	velocity	5.18	8.39	8.96	8.70	8.87	8.79	8.62	8.70	8.70	8.39	9.80	8.11	8.68	8.76
Harris, Aleec (USA) (1990)																
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)																
Henson (2020) - Athlete First: 2016 year end hurdle report																
date	09-Jul-16	time	2.53	3.60	4.64	5.67	6.70	7.74	8.81	9.84	10.91	12.00		13.56	8 / 7	
reaction time	0.186	interval		1.07	1.04	1.03	1.03	1.04	1.07	1.03	1.07	1.09	1.56		3.14	3.14
wind	1.0 m/s	velocity	5.42	8.54	8.79	8.87	8.87	8.79	8.54	8.87	8.54	8.39	8.99	8.11	8.73	8.73

Adams, Spencer (USA) (1989)																
FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)																
date	29-Apr-17	time	2.50	3.56	4.60	5.63	6.66	7.70	8.73	9.80	10.90	12.00		13.56	8 / 6	
reaction time		interval	7 steps	1.06	1.04	1.03	1.03	1.04	1.03	1.07	1.10	1.10	1.56		3.13	3.10
wind	1.8 m/s	velocity	5.49	8.62	8.79	8.87	8.87	8.79	8.87	8.54	8.31	8.31	8.99	8.11	8.76	8.85
Czykier, Damian (POL) (1992)																
FINAL - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)																
date	28-Jun-17	time	2.56	3.62	4.68	5.70	6.72	7.78	8.82	9.88	10.96	12.06		13.56	7 / 7	
reaction time	0.177	interval	7 steps	1.06	1.06	1.02	1.02	1.06	1.04	1.06	1.08	1.10	1.50		3.14	3.12
wind	0.6 m/s	velocity	5.36	8.62	8.62	8.96	8.96	8.62	8.79	8.62	8.46	8.31	9.35	8.11	8.73	8.79
Izumiya, Shunsuke (JPN) (2000)																
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																
date	28-Apr-19	time	2.56	3.62	4.68	5.72	6.77	7.82	8.88	9.95	11.04	12.13		13.56	4 / 2	
reaction time		interval		1.06	1.06	1.04	1.05	1.05	1.06	1.07	1.09	1.09	1.43	NJR PB	3.16	3.16
wind	0.6 m/s	velocity	5.36	8.62	8.62	8.79	8.70	8.70	8.62	8.54	8.39	8.39	9.80	8.11	8.68	8.68
Trajkovic, Milan (CYP) (1992)																
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)																
date	21-May-19	time	2.62	3.67	4.73	5.76	6.79	7.85	8.90	9.96	11.02	12.11		13.56	4 / 6	
reaction time	0.192	interval	7 steps	1.05	1.06	1.03	1.03	1.06	1.05	1.06	1.06	1.09	1.45		3.14	3.14
wind	0.1 m/s	velocity	5.24	8.70	8.62	8.87	8.87	8.62	8.70	8.62	8.62	8.39	9.67	8.11	8.73	8.73
Swift, Greggmar (BAR) (1991)																
FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)																
date	30-Jun-19	time	2.55	3.58	4.62	5.68	6.70	7.74	8.82	9.86	10.93	12.03		13.56	9 / 9	
reaction time	0.150	interval		1.03	1.04	1.06	1.02	1.04	1.08	1.04	1.07	1.10	1.53		3.13	3.14
wind	0.3 m/s	velocity	5.38	8.87	8.79	8.62	8.96	8.79	8.46	8.79	8.54	8.31	9.16	8.11	8.76	8.73
Warner, Damion (CAN) (1989)																
Decathlon - Heat 3 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)																
date	03-Oct-19	time	2.48	3.56	4.58	5.62	6.66	7.70	8.76	9.82	10.88	11.96		13.56	5 / 1	
reaction time	0.157	interval	7 steps	1.08	1.02	1.04	1.04	1.04	1.06	1.06	1.06	1.08	1.60		3.14	3.14
wind	0.8 m/s	velocity	5.53	8.46	8.96	8.79	8.79	8.79	8.62	8.62	8.62	8.46	8.76	8.11	8.73	8.73
Sun Zhenjiang (CHN) (1999)																
FINAL - 2021 Chinese National Championships (Chongqing, CHN)																
date	25-Jun-21	time	2.60	3.70	4.73	5.77	6.80	7.86	8.88	9.96	11.02	12.09		13.56	7 / 1	
reaction time	0.143	interval	7 steps	1.10	1.03	1.04	1.03	1.06	1.02	1.08	1.06	1.07	1.47	PB	3.17	3.11
wind	1.6 m/s	velocity	5.28	8.31	8.87	8.79	8.87	8.62	8.96	8.46	8.62	8.54	9.54	8.11	8.65	8.82
King, David (GBR) (1994)																
FINAL - 2021 Boris Hanžeković Memorial (Zagreb, CRO) (TV Analysis)																
date	14-Sep-21	time	2.50	3.60	4.63	5.66	6.66	7.70	8.73	9.76	10.86	12.03		13.56	3 / 5	
reaction time	0.140	interval	7 steps	1.10	1.03	1.03	1.00	1.04	1.03	1.03	1.10	1.17	1.53		3.16	3.07
wind	0.7 m/s	velocity	5.49	8.31	8.87	8.87	9.14	8.79	8.87	8.87	8.31	7.81	9.16	8.11	8.68	8.93
Izumiya, Shunsuke (JPN) (2000)																
Heat 5 - 2022 World Athletics Championships (Eugene, OR)																
date	16-Jul-22	time	2.62	3.67	4.73	5.77	6.81	7.85	8.93	9.98	11.07	12.17		13.56	1 / 3	
reaction time	0.128	interval	7 steps	1.05	1.06	1.04	1.04	1.04	1.08	1.05	1.09	1.10	1.39		3.15	3.16
wind	0.4 m/s	velocity	5.24	8.70	8.62	8.79	8.79	8.79	8.46	8.70	8.39	8.31	10.09	8.11	8.70	8.68
Chen Kuei-Ru (TPE) (1993)																
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)																
date	21-May-23	time	2.60	3.66	4.68	5.70	6.73	7.76	8.82	9.88	10.97	12.07		13.56	8 / 8	
reaction time	0.160	interval	7 steps	1.06	1.02	1.02	1.03	1.03	1.06	1.06	1.09	1.10	1.49		3.10	3.12
wind	0.8 m/s	velocity	5.28	8.62	8.96	8.96	8.87	8.87	8.62	8.62	8.39	8.31	9.41	8.11	8.85	8.79
Pereira, Rafael (BRA) (1997)																
FINAL - 2023 Athletissima (Lausanne, SUI)																
date	30-Jun-23	time	2.43	3.50	4.55	5.58	6.61	7.64	8.69	9.75	10.83	11.92		13.56	2 / 6	
reaction time	0.153	interval		1.07	1.05	1.03	1.03	1.03	1.05	1.06	1.08	1.09	1.64		3.15	3.11
wind	-1.0 m/s	velocity	5.65	8.54	8.70	8.87	8.87	8.87	8.70	8.62	8.46	8.39	8.55	8.11	8.70	8.82
Al-Yoha, Yaqoub (KUW) (1993)																
Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																
date	20-Aug-23	time	2.60	3.68	4.72	5.75	6.77	7.80	8.86	9.92	10.96	12.06		13.56	1 / 5	
reaction time	0.140	interval	7 steps	1.08	1.04	1.03	1.02	1.03	1.06	1.06	1.04	1.10	1.50		3.15	3.11
wind	-0.3 m/s	velocity	5.28	8.46	8.79	8.87	8.96	8.87	8.62	8.62	8.79	8.31	9.35	8.11	8.70	8.82
Cherubin, Yves (HAI) (1999)																

Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	20-Aug-23	time	2.52	3.60	4.64	5.67	6.70	7.72	8.80	9.83	10.93	12.05		13.56	6 / 6			
reaction time	0.180	interval		1.08	1.04	1.03	1.03	1.02	1.08	1.03	1.10	1.12	1.51	PB		3.15	3.13	3.25
wind	-0.6 m/s	velocity	5.44	8.46	8.79	8.87	8.87	8.96	8.46	8.87	8.31	8.16	9.28	8.11		8.70	8.76	8.44

Xu Zhuoyi (CHN) (2003)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)*Omega Timing (2023) - diamond league race analysis*

date	02-Sep-23	time	2.49	3.56	4.63	5.68	6.72	7.75	8.80	9.85	10.92	11.98		13.56	9 / 10			
reaction time	0.166	interval	7 steps	1.07	1.07	1.05	1.04	1.03	1.05	1.05	1.07	1.06	1.58			3.19	3.12	3.18
wind	0.0 m/s	velocity	5.51	8.54	8.54	8.70	8.79	8.87	8.70	8.70	8.54	8.62	8.87	8.11		8.60	8.79	8.62

Liu Junxi (CHN) (2003)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 Mikio Oda Memorial (Hiroshima, JPN)*Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season*

date	29-Apr-24	time	2.64	3.72	4.74	5.78	6.81	7.85	8.90	9.95	11.04	12.12		13.56	2 / 3			
reaction time	0.201	interval	7 steps	1.08	1.02	1.04	1.03	1.04	1.05	1.05	1.09	1.08	1.44			3.14	3.12	3.22
wind	-0.6 m/s	velocity	4.92	7.87	8.33	8.17	8.25	8.17	8.10	8.10	7.80	7.87	9.74	8.11		8.73	8.79	8.52

Fujii, Ryota (JPN) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 Michitaka Kinami Memorial (Osaka, JPN)*Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season*

date	12-May-24	time	2.58	3.63	4.65	5.68	6.71	7.76	8.81	9.87	10.95	12.06		13.56	4 / 4			
reaction time	0.173	interval		1.05	1.02	1.03	1.03	1.05	1.05	1.06	1.08	1.11	1.50			3.10	3.13	3.25
wind	0.9 m/s	velocity	5.32	8.70	8.96	8.87	8.87	8.70	8.70	8.62	8.46	8.23	9.35	8.11		8.85	8.76	8.44

Takayama, Shunya (JPN) (1994)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 Seiko Golden Grand Prix (Tokyo, JPN)*Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season*

date	19-May-24	time	2.56	3.60	4.62	5.66	6.71	7.76	8.81	9.88	10.98	12.09		13.56	5 / 4			
reaction time	0.130	interval		1.04	1.02	1.04	1.05	1.05	1.05	1.07	1.10	1.11	1.47			3.10	3.15	3.28
wind	-0.6 m/s	velocity	5.36	8.79	8.96	8.79	8.70	8.70	8.70	8.54	8.31	8.23	9.54	8.11		8.85	8.70	8.36

Bates, Di'Niko (USA) (2003)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	24-Jun-24	time	2.56	3.60	4.67	5.76	6.76	7.78	8.80	9.88	11.00	12.08		13.56	8 / 6			
reaction time		interval	7 steps	1.04	1.07	1.09	1.00	1.02	1.02	1.08	1.12	1.08	1.48			3.20	3.04	3.28
wind	1.2 m/s	velocity	5.36	8.79	8.54	8.39	9.14	8.96	8.96	8.46	8.16	8.46	9.47	8.11		8.57	9.02	8.36

Brown, Darius (USA) (2002)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	24-Jun-24	time	2.55	3.66	4.70	5.72	6.76	7.82	8.86	9.95	11.04	12.14		13.56	8 / 6			
reaction time		interval		1.11	1.04	1.02	1.04	1.06	1.04	1.09	1.09	1.10	1.42			3.17	3.14	3.28
wind	0.8 m/s	velocity	5.38	8.23	8.79	8.96	8.79	8.62	8.79	8.39	8.39	8.31	9.87	8.11		8.65	8.73	8.36

Diessl, Enzo (AUT) (2004)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Repechage 1 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	06-Aug-24	time	2.43	3.53	4.56	5.60	6.63	7.67	8.72	9.78	10.86	11.94		13.56	7 / 4			
reaction time	0.109	interval	7 steps	1.10	1.03	1.04	1.03	1.04	1.05	1.06	1.08	1.08	1.62			3.17	3.12	3.22
wind	0.2 m/s	velocity	5.65	8.31	8.87	8.79	8.87	8.79	8.70	8.62	8.46	8.46	8.65	8.11		8.65	8.79	8.52

Schwarthoff, Florian (GER) (1968)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2001 European Cup (Bremen, GER)*Graubner (2007) - <http://www.fgs.uni-halle.de>*

date	24-Jun-01	time	2.60	3.65	4.74	5.81	6.85	7.87	8.91	9.96	11.06	12.14		13.57	3 / 2			
reaction time	0.129	interval	7 steps	1.05	1.09	1.07	1.04	1.02	1.04	1.05	1.10	1.08	1.43			3.21	3.10	3.23
wind	1.3 m/s	velocity	5.28	8.70	8.39	8.54	8.79	8.96	8.79	8.70	8.31	8.46	9.80	8.11		8.54	8.85	8.49

Fenner, Mike (GER) (1971)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2002 European Championships (Munich, GER)*Graubner (2009) - <http://www.fgs.uni-halle.de>*

date	09-Aug-02	time	2.64	3.70	4.76	5.81	6.84	7.88	8.94	9.99	11.05	12.14		13.57	1 / 2			
reaction time	0.134	interval		1.06	1.06	1.05	1.03	1.04	1.06	1.05	1.06	1.09	1.43			3.17	3.13	3.20
wind	0.5 m/s	velocity	5.20	8.62	8.62	8.70	8.87	8.79	8.62	8.70	8.62	8.39	9.80	8.11		8.65	8.76	8.57

van der Westen, Marcel (NED) (1976)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)*Graubner (2009) - <http://www.fgs.uni-halle.de>*

date	14-Sep-08	time	2.64	3.69	4.72	5.76	6.79	7.83	8.87	9.93	11.00	12.09		13.57	1 / 5			
reaction time	0.136	interval		1.05	1.03	1.04	1.03	1.04	1.04	1.06	1.07	1.09	1.48			3.12	3.11	3.22
wind	-1.3 m/s	velocity	5.20	8.70	8.87	8.79	8.87	8.79	8.79	8.62	8.54	8.39	9.47	8.11		8.79	8.82	8.52

Tanonaka, Tasuku (JPN) (1978)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2009 Japanese National Championships (Hiroshima, JPN)*Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles*

date	27-Jun-09	time	2.59	3.67	4.72	5.76	6.80	7.87	8.91	9.97	11.05	12.13		13.57	3 / 1			
reaction time		interval		1.08	1.05	1.04	1.04	1.07	1.04	1.06	1.08	1.08	1.44			3.17	3.15	3.22
wind	1.6 m/s	velocity	5.30	8.46	8.70	8.79	8.79	8.54	8.79	8.62	8.46	8.46	9.74	8.11		8.65	8.70	8.52

Thomas, Dwight (JAM) (1980)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.64	3.70	4.78	5.82	6.86	7.89	8.94	10.00	11.08	12.16	13.57	7 / 2			
reaction time	0.138	interval		1.06	1.08	1.04	1.04	1.03	1.05	1.06	1.08	1.08	1.41		3.18	3.12	3.22
wind	-0.4 m/s	velocity	5.20	8.62	8.46	8.79	8.79	8.87	8.70	8.62	8.46	8.46	9.94	8.11	8.62	8.79	8.52
Sands, Shamar (BAH) (1985)																	
Heat 5 - 2009 IAAF World Championships (Berlin, GER)																	
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																	
date	19-Aug-09	time	2.63	3.69	4.75	5.79	6.81	7.86	8.90	9.95	11.03	12.13	13.57	4 / 5			
reaction time	0.243	interval		1.06	1.06	1.04	1.02	1.05	1.04	1.05	1.08	1.10	1.44		3.16	3.11	3.23
wind	0.0 m/s	velocity	5.22	8.62	8.62	8.79	8.96	8.70	8.79	8.70	8.46	8.31	9.74	8.11	8.68	8.82	8.49
Ji Wei (CHN) (1984)																	
FINAL - 2009 IAAF World Championships (Berlin, GER)																	
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																	
date	20-Aug-09	time	2.68	3.77	4.80	5.84	6.86	7.92	8.96	10.02	11.09	12.17	13.57	1 / 8			
reaction time	0.144	interval		1.09	1.03	1.04	1.02	1.06	1.04	1.06	1.07	1.08	1.40		3.16	3.12	3.21
wind	0.1 m/s	velocity	5.12	8.39	8.87	8.79	8.96	8.62	8.79	8.62	8.54	8.46	10.01	8.11	8.68	8.79	8.54
Townsend, Fred (USA) (1982)																	
FINAL - 2011 Folsam GP (Göteborg, SWE)																	
<i>Blomkvist (2011) - www.sub13.se</i>																	
date	11-Jun-11	time	2.52	3.56	4.60	5.64	6.68	7.72	8.78	9.84	10.90	11.98	13.57	1 / 3			
reaction time		interval		1.04	1.04	1.04	1.04	1.04	1.06	1.06	1.06	1.08	1.59		3.12	3.14	3.20
wind	0.6 m/s	velocity	5.44	8.79	8.79	8.79	8.79	8.79	8.62	8.62	8.62	8.46	8.82	8.11	8.79	8.73	8.57
Cabral, Johnathan (CAN) (1992)																	
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)																	
<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>																	
date	28-May-16	time	2.56	3.68	4.70	5.74	6.78	7.82	8.86	9.90	10.98	12.06	13.57	8 / 7			
reaction time		interval	7 steps	1.12	1.02	1.04	1.04	1.04	1.04	1.08	1.08	1.51			3.18	3.12	3.20
wind	0.7 m/s	velocity	5.36	8.16	8.96	8.79	8.79	8.79	8.79	8.46	8.46	9.28	8.11		8.62	8.79	8.57
Omuro, Hideki (JPN) (1990)																	
FINAL - 2017 Michitaka Memorial (Osaka, JPN)																	
<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>																	
date	07-May-17	time	2.63	3.69	4.75	5.80	6.86	7.90	8.96	10.01	11.08	12.17	13.57	7 / 1			
reaction time		interval		1.06	1.06	1.05	1.06	1.04	1.06	1.05	1.07	1.09	1.40		3.17	3.16	3.21
wind	-0.8 m/s	velocity	5.22	8.62	8.62	8.70	8.62	8.79	8.62	8.70	8.54	8.39	10.01	8.11	8.65	8.68	8.54
Furuya, Takumu (JPN) (1997)																	
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)																	
<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																	
date	29-Apr-18	time	2.67	3.74	4.77	5.81	6.87	7.91	8.96	10.02	11.10	12.18	13.57	2 / 2			
reaction time		interval		1.07	1.03	1.04	1.06	1.04	1.05	1.06	1.08	1.08	1.39		3.14	3.15	3.22
wind	2.6 m/s	velocity	5.14	8.54	8.87	8.79	8.62	8.79	8.70	8.62	8.46	8.46	10.09	8.11	8.73	8.70	8.52
Omuro, Hideki (JPN) (1990)																	
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)																	
<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																	
date	29-Apr-18	time	2.61	3.69	4.74	5.78	6.83	7.89	8.94	10.00	11.07	12.17	13.57	3 / 3			
reaction time		interval		1.08	1.05	1.04	1.05	1.06	1.05	1.06	1.07	1.10	1.40		3.17	3.16	3.23
wind	2.6 m/s	velocity	5.26	8.46	8.70	8.79	8.70	8.62	8.70	8.62	8.54	8.31	10.01	8.11	8.65	8.68	8.49
Kim Byung-Jun (KOR) (1991)																	
FINAL - 2018 Asian Games (Jakarta, INA)																	
<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																	
date	28-Aug-18	time	2.62	3.69	4.72	5.75	6.79	7.82	8.86	9.93	11.00	12.09	13.57	2 / 5			
reaction time	0.188	interval		1.07	1.03	1.03	1.04	1.03	1.04	1.07	1.07	1.09	1.48		3.13	3.11	3.23
wind	0.0 m/s	velocity	5.24	8.54	8.87	8.87	8.79	8.87	8.79	8.54	8.54	8.39	9.47	8.11	8.76	8.82	8.49
Allen, Devon (USA) (1994)																	
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)																	
<i>Henson (2021) - Athlete First: 2018 year end hurdle report</i>																	
date	09-Sep-18	time	2.52	3.60	4.64	5.68	6.72	7.72	8.80	9.88	10.96	12.02	13.57	7 / 5			
reaction time	0.118	interval		1.08	1.04	1.04	1.04	1.00	1.08	1.08	1.08	1.06	1.55		3.16	3.12	3.22
wind	0.9 m/s	velocity	5.44	8.46	8.79	8.79	8.79	9.14	8.46	8.46	8.46	8.62	9.05	8.11	8.68	8.79	8.52
Amaoka, Naoki (JPN) (2000)																	
U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm)																	
<i>Joshi (2018) - research on athlete performance and technique- 2018 data book</i>																	
date	07-Oct-18	time	2.64	3.71	4.77	5.83	6.86	7.91	8.96	10.02	11.08	12.17	13.57	5 / 2			
reaction time	0.140	interval		1.07	1.06	1.06	1.03	1.05	1.05	1.06	1.06	1.09	1.40		3.19	3.13	3.21
wind	1.5 m/s	velocity	5.20	8.54	8.62	8.62	8.87	8.70	8.70	8.62	8.62	8.39	10.01	8.11	8.60	8.76	8.54
Al-Yoha, Yaqoub (KUW) (1993)																	
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)																	
<i>CAA Hurdle Development (2019)</i>																	
date	02-Oct-19	time	2.62	3.66	4.70	5.72	6.74	7.76	8.82	9.90	10.98	12.10	13.57	9 / 4			
reaction time	0.154	interval		1.04	1.04	1.02	1.02	1.02	1.06	1.08	1.08	1.12	1.47		3.10	3.10	3.28
wind	1.1 m/s	velocity	5.24	8.79	8.79	8.96	8.96	8.96	8.62	8.46	8.46	8.16	9.54	8.11	8.85	8.85	8.36
Riley, Andrew (JAM) (1988)																	
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)																	
<i>CAA Hurdle Development (2019)</i>																	
date	02-Oct-19	time	2.57	3.60	4.66	5.68	6.76	7.82	8.88	9.94	11.02	12.13	13.57	8 / 5			

reaction time	0.136	interval	1.03	1.06	1.02	1.08	1.06	1.06	1.06	1.08	1.11	1.44			3.11	3.20	3.25
wind	0.6 m/s	velocity	5.34	8.87	8.62	8.96	8.46	8.62	8.62	8.46	8.23	9.74	8.11		8.82	8.57	8.44

King, David (GBR) (1994)

ing, David (GBR) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)													Henson (2020) - Athlete First: 2020 year end hurdle report					
date	11-Aug-20	time	2.60	3.67	4.70	5.75	6.77	7.84	8.88	9.91	11.01	12.08		13.57	5 / 3			
reaction time	0.148	interval	7 steps	1.07	1.03	1.05	1.02	1.07	1.04	1.03	1.10	1.07	1.49			3.15	3.13	3.20
wind	1.1 m/s	velocity	5.28	8.54	8.87	8.70	8.96	8.54	8.79	8.87	8.31	8.54	9.41	8.11		8.70	8.76	8.57

Fujii, Ryota (JPN) (1996)

Jiji, Ryota (JPN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 Athlete Night Games (Fukui, JPN)												Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season					
date	29-Aug-20	time	2.57	3.61	4.64	5.68	6.72	7.78	8.87	9.93	11.03	12.10	13.57	/ 1			
reaction time		interval		1.04	1.03	1.04	1.04	1.06	1.09	1.06	1.10	1.07	1.47	PB	3.11	3.19	3.23
wind	1.5 m/s	velocity	5.34	8.79	8.87	8.79	8.79	8.62	8.39	8.62	8.31	8.54	9.54	8.11	8.82	8.60	8.49

Ojora, Tade (GBR) (1999)

ora, Tade (GBR) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report				
date	11-Jun-21	time	2.63	3.70	4.77	5.83	6.85	7.87	8.93	9.97	11.07	12.13	13.57	9 / 6			
reaction time	0.224	interval		1.07	1.07	1.06	1.02	1.02	1.06	1.04	1.10	1.06	1.44	PB	3.20	3.10	3.20
wind	-0.6 m/s	velocity	5.22	8.54	8.54	8.62	8.96	8.96	8.62	8.79	8.31	8.62	9.74	8.11	8.57	8.85	8.57

Hough, Nicholas (AUS) (1993)

Dough, Nicholas (AUS) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													Henson (2024) - Athlete First: 2021 year end hurdle report				
date	03-Aug-21	time	2.61	3.65	4.68	5.73	6.73	7.75	8.81	9.91	10.97	12.04	13.57	3 / 3			
reaction time	0.162	interval	7 steps	1.04	1.03	1.05	1.00	1.02	1.06	1.10	1.06	1.07	1.53		3.12	3.08	3.23
wind	-0.1 m/s	velocity	5.26	8.79	8.87	8.70	9.14	8.96	8.62	8.31	8.62	8.54	9.16	8.11	8.79	8.90	8.49

Chen Kuei-Ru (TPE) (1993)

Ben Kuei-Ru (TPE) (1993)												H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												Henson (2024) - Athlete First: 2021 year end hurdle report																	
date	04-Aug-21		time	2.56	3.64	4.68	5.71	6.71	7.76	8.83	9.90	10.96	12.08		13.57	2 / 6													
reaction time	0.146	interval	7 steps	1.08	1.04	1.03	1.00	1.05	1.07	1.07	1.06	1.12	1.49													3.15	3.12	3.25	
wind	0.1 m/s	velocity	5.36	8.46	8.79	8.87	9.14	8.70	8.54	8.54	8.62	8.16	9.41	8.11												8.70	8.79	8.44	

Koike, Ryo (JPN) (2003)

Daiké, Ryo (JPN) (2003)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Japanese U20 National Championships (Osaka, JPN) (99cm)													Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season				
date	12-Jun-22	time	2.58	3.69	4.74	5.79	6.80	7.83	8.87	9.93	11.00	12.10	13.57	7 / 3			
reaction time	0.155	interval	7 steps	1.11	1.05	1.05	1.01	1.03	1.04	1.06	1.07	1.10	1.47	PB	3.21	3.08	3.23
wind	1.1 m/s	velocity	5.32	8.23	8.70	8.70	9.05	8.87	8.79	8.62	8.54	8.31	9.54	8.11	8.54	8.90	8.49

Takahasai, Yusuke (JPN) (1996)

Akahasai, Yusuke (JPN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Japanese National Championships (Osaka, JPN)										Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season							
date	12-Jun-22	time	2.63	3.70	4.74	5.78	6.83	7.87	8.94	9.99	11.08	12.17	13.57	6 / 4			
reaction time	0.152	interval		1.07	1.04	1.04	1.05	1.04	1.07	1.05	1.09	1.09	1.40		3.15	3.16	3.23
wind	-1.2 m/s	velocity	5.22	8.54	8.79	8.79	8.70	8.79	8.54	8.70	8.39	8.39	10.01	8.11	8.70	8.68	8.49

King, David (GBR) (1994)

ing, David (GBR) (1994)													H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Heat 5 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
date	16-Jul-22	time	2.58	3.66	4.73	5.73	6.76	7.83	8.90	9.93	11.00	12.10		13.57	5 / 4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

Tokuoka, Ryo (JPN) (1999)

Akiyoko, Ryo (JPN) (1999)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)												Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season					
date	29-Apr-23	time	2.64	3.70	4.73	5.78	6.84	7.88	8.92	9.99	11.05	12.14	13.57	2 / 3			
reaction time	0.169	interval	7 steps	1.06	1.03	1.05	1.06	1.04	1.04	1.07	1.06	1.09	1.43		3.14	3.14	3.22
wind	0.3 m/s	velocity	5.20	8.62	8.87	8.70	8.62	8.79	8.79	8.54	8.62	8.39	9.80	8.11	8.73	8.73	8.52

Simonelli, Lorenzo Ndele (ITA) (2002)

monelli, Lorenzo Ndele (ITA) (2002																	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)																	Henson (2023) - Athlete First: 2023 year end hurdle report															
date	02-Jun-23		time	2.54	3.58	4.66	5.74	6.78	7.84	8.86	9.92	11.00	12.10	13.57		8 / 8																
reaction time	0.153	interval	7 steps	1.04	1.08	1.08	1.04	1.06	1.02	1.06	1.08	1.10	1.47	PB		3.20 3.12 3.24																
wind	-0.2 m/s		velocity	5.40	8.79	8.46	8.46	8.79	8.62	8.96	8.62	8.46	8.31	9.54	8.11		8.57 8.79 8.46															

Pereira, Rafael (BRA) (1997)

Bereira, Rafael (BRA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 Meeting de Paris (Paris, FRA)													Omega Timing (2023) - diamond league race analysis				
date	09-Jun-23	time	2.42	3.48	4.52	5.55	6.56	7.61	8.65	9.72	10.81	11.90	13.57	8 / 8			
reaction time	0.149	interval		1.06	1.04	1.03	1.01	1.05	1.04	1.07	1.09	1.09	1.67		3.13	3.10	3.25
wind	-0.6 m/s	velocity	5.67	8.62	8.79	8.87	9.05	8.70	8.79	8.54	8.39	8.39	8.40	8.11	8.76	8.85	8.44

Cunningham, Trey (USA) (1998)

Nunningham, Trey (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report				
date	24-Jun-23	time	2.53	3.59	4.61	5.64	6.67	7.71	8.77	9.85	10.94	12.05	13.57	4 / 9			
reaction time	0.157	interval	7 steps	1.06	1.02	1.03	1.03	1.04	1.06	1.08	1.09	1.11	1.52		3.11	3.13	3.28

wind	1.6 m/s	velocity	5.42	8.62	8.96	8.87	8.87	8.79	8.62	8.46	8.39	8.23	9.22	8.11		8.82	8.76	8.36
Dickson, Michael (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)			Omega Timing (2023) - diamond league race analysis															
date	16-Jul-23	time	2.46	3.55	4.60	5.65	6.69	7.74	8.81	9.87	10.93	12.01		13.57	8 / 6			
reaction time	0.183	interval	7 steps	1.09	1.05	1.05	1.04	1.05	1.07	1.06	1.06	1.08	1.56			3.19	3.16	3.20
wind	-0.2 m/s	velocity	5.58	8.39	8.70	8.70	8.79	8.70	8.54	8.62	8.62	8.46	8.99	8.11		8.60	8.68	8.57
Morris, Eli (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)			Henson (2024) - Athlete First: 2024 year end hurdle report															
date	24-Jun-24	time	2.62	3.67	4.70	5.78	6.80	7.83	8.87	9.93	11.00	12.08		13.57	9 / 7			
reaction time		interval		1.05	1.03	1.08	1.02	1.03	1.04	1.06	1.07	1.08	1.49			3.16	3.09	3.21
wind	1.2 m/s	velocity	5.24	8.70	8.87	8.46	8.96	8.87	8.79	8.62	8.54	8.46	9.41	8.11		8.68	8.87	8.54
Jackson, Colin (GBR) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 1987 IAAF World Championships (Rome, ITA)			Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics															
date	01-Sep-87	time	2.64	3.68	4.77	5.80	6.84	7.88	8.92	10.00	11.08	12.17		13.58	6 / 4			
reaction time		interval		1.04	1.09	1.03	1.04	1.04	1.04	1.08	1.08	1.09	1.41			3.16	3.12	3.25
wind	-1.2 m/s	velocity	5.20	8.79	8.39	8.87	8.79	8.79	8.79	8.46	8.46	8.39	9.94	8.10		8.68	8.79	8.44
Jarrett, Tony (GBR) (1968)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2001 European Cup (Bremen, GER)			Graubner (2007) - http://www.fgs.uni-halle.de															
date	24-Jun-01	time	2.64	3.70	4.76	5.80	6.84	7.91	8.95	10.01	11.10	12.17		13.58	4 / 3			
reaction time	0.150	interval		1.06	1.06	1.04	1.04	1.07	1.04	1.06	1.09	1.07	1.41			3.16	3.15	3.22
wind	1.3 m/s	velocity	5.20	8.62	8.62	8.79	8.79	8.54	8.79	8.62	8.39	8.54	9.94	8.10		8.68	8.70	8.52
Lavanne, Cédric (FRA) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2002 European Championships (Munich, GER)			Graubner (2009) - http://www.fgs.uni-halle.de															
date	09-Aug-02	time	2.65	3.73	4.76	5.81	6.84	7.87	8.91	9.98	11.03	12.13		13.58	1 / 2			
reaction time	0.142	interval		1.08	1.03	1.05	1.03	1.03	1.04	1.07	1.05	1.10	1.45	PB		3.16	3.10	3.22
wind	2.0 m/s	velocity	5.18	8.46	8.87	8.70	8.87	8.87	8.79	8.54	8.70	8.31	9.67	8.10		8.68	8.85	8.52
Olijar, Stanislav (LAT) (1979)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 IAAF World Cup (Madrid, ESP)			Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas															
date	21-Sep-02	time	2.52	3.54	4.57	5.60	6.64	7.70	8.76	9.83	10.90	11.97		13.58	3 / 3			
reaction time	0.151	interval		1.02	1.03	1.03	1.04	1.06	1.06	1.07	1.07	1.07	1.61			3.08	3.16	3.21
wind	-2.2 m/s	velocity	5.44	8.96	8.87	8.87	8.79	8.62	8.62	8.54	8.54	8.54	8.71	8.10		8.90	8.68	8.54
Bramlett, Ron (USA) (1979)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2005 USATF National Championships (Carson, CA)			USATF Women's Sprint Development (2005)															
date	24-Jun-05	time	2.59	3.62	4.71	5.73	6.74	7.78	8.83	9.87	10.92	12.01		13.58	9 / 9			
reaction time		interval		1.03	1.09	1.02	1.01	1.04	1.05	1.04	1.05	1.09	1.57			3.14	3.10	3.18
wind	0.2 m/s	velocity	5.30	8.87	8.39	8.96	9.05	8.79	8.70	8.79	8.70	8.39	8.93	8.10		8.73	8.85	8.62
Xie Wenjun (CHN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 Shanghai Diamond League (Shanghai, CHN)			He (2014) - kinematic analysis of Xie Wenjun's hurdle technique															
date	23-May-10	time	2.64	3.54	4.54	5.44	6.64	7.74	8.84	9.84	10.84	11.84		13.58	1 / 4			
reaction time	0.165	interval		0.90	1.00	0.90	1.20	1.10	1.10	1.00	1.00	1.00	1.74			2.80	3.40	3.00
wind	-0.4 m/s	velocity	5.20	10.16	9.14	10.16	7.62	8.31	8.31	9.14	9.14	9.14	8.06	8.10		9.79	8.06	9.14
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2013 Japanese National Championships (Chofu, JPN)			Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13															
date	09-Jun-13	time	2.61	3.66	4.71	5.75	6.80	7.86	8.93	10.01	11.07	12.16		13.58	7 / 1			
reaction time		interval		1.05	1.05	1.04	1.05	1.06	1.07	1.08	1.06	1.09	1.42			3.14	3.18	3.23
wind	1.5 m/s	velocity	5.26	8.70	8.70	8.79	8.70	8.62	8.54	8.46	8.62	8.39	9.87	8.10		8.73	8.62	8.49
Masuno, Genta (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Japanese National Championships (Fukushima, JPN)			(2017.02.22) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	08-Jun-14	time	2.64	3.71	4.78	5.82	6.87	7.92	8.98	10.04	11.10	12.18		13.58	5 / 1			
reaction time	0.144	interval		1.07	1.07	1.04	1.05	1.05	1.06	1.06	1.06	1.08	1.40	PB		3.18	3.16	3.20
wind	0.4 m/s	velocity	5.20	8.54	8.54	8.79	8.70	8.70	8.62	8.62	8.62	8.46	10.01	8.10		8.62	8.68	8.57
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)			Henson (2021) - Athlete First: 2016 year end hurdle report															
date	28-May-16	time	2.52	3.58	4.60	5.60	6.60	7.60	8.60	9.64	10.72	11.88		13.58	2 / 8			
reaction time		interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.00	1.04	1.08	1.16	1.70			3.08	3.00	3.28
wind	0.7 m/s	velocity	5.44	8.62	8.96	9.14	9.14	9.14	9.14	8.79	8.46	7.88	8.25	8.10		8.90	9.14	8.36
Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Kinami Memorial (Osaka, JPN)			Matsubayashi (2019) - research on athlete performance and technique- 2019 data book															
date	06-May-19	time	2.59	3.63	4.71	5.76	6.78	7.87	8.96	10.01	11.07	12.20		13.58	7 / 3			
reaction time		interval		1.04	1.08	1.05	1.02	1.09	1.09	1.05	1.06	1.13	1.38			3.17	3.20	3.24
wind	0.3 m/s	velocity	5.30	8.79	8.46	8.70	8.96	8.39	8.39	8.70	8.62	8.09	10.16	8.10		8.65	8.57	8.46

Chen Kuei-Ru (TPE) (1993)																
FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)																
date	04-Jun-19	time	2.61	3.67	4.70	5.74	6.79	7.84	8.90	9.96	11.02	12.13		13.58		CAA Hurdle Development (2019)
reaction time	0.187	interval	7 steps	1.06	1.03	1.04	1.05	1.05	1.06	1.06	1.06	1.11	1.45			3.13 3.16 3.23
wind	-0.3 m/s	velocity	5.26	8.62	8.87	8.79	8.70	8.70	8.62	8.62	8.62	8.23	9.67	8.10		8.76 8.68 8.49
Perini, Lorenzo (ITA) (1994)																
FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																
date	06-Jun-19	time	2.60	3.66	4.72	5.75	6.78	7.83	8.88	9.94	11.00	12.08		13.58		Henson (2020) - Athlete First: 2019 year end hurdle report
reaction time	0.161	interval		1.06	1.06	1.03	1.03	1.05	1.05	1.06	1.06	1.08	1.50			3.15 3.13 3.20
wind	0.4 m/s	velocity	5.28	8.62	8.62	8.87	8.87	8.70	8.70	8.62	8.62	8.46	9.35	8.10		8.70 8.76 8.57
Santos Rodrigues, Eduardo (BRA) (1994)																
FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)																
date	16-Jun-19	time	2.58	3.66	4.70	5.74	6.78	7.80	8.86	9.90	10.98	12.06		13.58		Henson (2020) - Athlete First: 2019 year end hurdle report
reaction time	0.156	interval		1.08	1.04	1.04	1.04	1.02	1.06	1.04	1.08	1.08	1.52			3.16 3.12 3.20
wind	0.3 m/s	velocity	5.32	8.46	8.79	8.79	8.79	8.96	8.62	8.79	8.46	8.46	9.22	8.10		8.68 8.79 8.57
Takayama, Shunya (JPN) (1994)																
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)																
date	02-Oct-19	time	2.54	3.58	4.58	5.60	6.61	7.67	8.86	9.99	11.07	12.16		13.58		CAA Hurdle Development (2019)
reaction time	0.144	interval		1.04	1.00	1.02	1.01	1.06	1.19	1.13	1.08	1.09	1.42			3.06 3.26 3.30
wind	0.6 m/s	velocity	5.40	8.79	9.14	8.96	9.05	8.62	7.68	8.09	8.46	8.39	9.87	8.10		8.96 8.41 8.31
Alkana, Antonio (RSA) (1990)																
FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)																
date	11-Aug-20	time	2.57	3.60	4.64	5.70	6.77	7.84	8.88	9.91	11.01	12.08		13.58		Henson (2020) - Athlete First: 2020 year end hurdle report
reaction time	0.158	interval		1.03	1.04	1.06	1.07	1.07	1.04	1.03	1.10	1.07	1.50			3.13 3.18 3.20
wind	1.1 m/s	velocity	5.34	8.87	8.79	8.62	8.54	8.54	8.79	8.87	8.31	8.54	9.35	8.10		8.76 8.62 8.57
Fujii, Ryota (JPN) (1996)																
FINAL - 2020 Athlete Night Games (Fukui, JPN)																
date	29-Aug-20	time	2.59	3.65	4.68	5.70	6.76	7.82	8.87	9.94	11.02	12.14		13.58		Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season
reaction time		interval		1.06	1.03	1.02	1.06	1.06	1.05	1.07	1.08	1.12	1.44			3.11 3.17 3.27
wind	1.4 m/s	velocity	5.30	8.62	8.87	8.96	8.62	8.62	8.70	8.54	8.46	8.16	9.74	8.10		8.82 8.65 8.39
Xie Wenjun (CHN) (1990)																
Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	04-Aug-21	time	2.64	3.70	4.77	5.81	6.84	7.84	8.89	9.92	11.01	12.09		13.58		Henson (2024) - Athlete First: 2021 year end hurdle report
reaction time	0.154	interval		1.06	1.07	1.04	1.03	1.00	1.05	1.03	1.09	1.08	1.49			3.17 3.08 3.20
wind	-0.1 m/s	velocity	5.20	8.62	8.54	8.79	8.87	9.14	8.70	8.87	8.39	8.46	9.41	8.10		8.65 8.90 8.57
Parchment, Hansle (JAM) (1990)																
FINAL - 2021 Athletissima (Lausanne, SUI) (TV Analysis)																
date	26-Aug-21	time	2.52	3.52	4.54	5.52	6.54	7.54	8.56	9.56	10.66	11.76		13.58		Henson (2021) - Athlete First: 2021 year end hurdle report
reaction time	0.133	interval	7 steps	1.00	1.02	0.98	1.02	1.00	1.02	1.00	1.10	1.10	1.82			3.00 3.04 3.20
wind	2.5 m/s	velocity	5.44	9.14	8.96	9.33	8.96	9.14	8.96	9.14	8.31	8.31	7.70	8.10		9.14 9.02 8.57
Ishikawa, Shuhei (JPN) (1995)																
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)																
date	01-May-22	time	2.60	3.65	4.70	5.75	6.80	7.83	8.89	9.95	11.02	12.12		13.58		Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season
reaction time	0.157	interval	7 steps	1.05	1.05	1.05	1.05	1.03	1.06	1.06	1.07	1.10	1.46			3.15 3.14 3.23
wind	0.8 m/s	velocity	5.28	8.70	8.70	8.70	8.70	8.87	8.62	8.62	8.54	8.31	9.60	8.10		8.70 8.73 8.49
Ojora, Tade (GBR) (1999)																
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)																
date	10-Jun-22	time	2.53	3.60	4.67	5.70	6.74	7.81	8.86	9.93	10.98	12.05		13.58		Henson (2022) - Athlete First: 2022 year end hurdle report
reaction time		interval	7 steps	1.07	1.07	1.03	1.04	1.07	1.05	1.07	1.05	1.07	1.53			3.17 3.16 3.19
wind	0.0 m/s	velocity	5.42	8.54	8.54	8.87	8.79	8.54	8.70	8.54	8.70	8.54	9.16	8.10		8.65 8.68 8.60
Rollins, Louis (USA) (1996)																
Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)																
date	26-Jun-22	time	2.47	3.51	4.60	5.61	6.69	7.72	8.77	9.82	10.95	12.03		13.58		USATF (2022) - Results powered by Karmarush.com
reaction time		interval		1.04	1.09	1.01	1.08	1.03	1.05	1.05	1.13	1.08	1.55			3.14 3.16 3.26
wind	0.4 m/s	velocity	5.55	8.79	8.39	9.05	8.46	8.87	8.70	8.70	8.09	8.46	9.05	8.10		8.73 8.68 8.41
Czykier, Damian (POL) (1992)																
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)																
date	26-Aug-22	time	2.64	3.70	4.74	5.74	6.77	7.81	8.87	9.94	11.01	12.11		13.58		Henson (2022) - Athlete First: 2022 year end hurdle report
reaction time	0.166	interval	7 steps	1.06	1.04	1.00	1.03	1.04	1.06	1.07	1.07	1.10	1.47			3.10 3.13 3.24
wind	0.0 m/s	velocity	5.20	8.62	8.79	9.14	8.87	8.79	8.62	8.54	8.54	8.31	9.54	8.10		8.85 8.76 8.46

Martinot Lagarde, Pascal (FRA) (199)																		
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)																		
date		26-Aug-22	time	2.60	3.65	4.70	5.74	6.76	7.81	8.84	9.91	10.99	12.09	13.58	7 / 7			
reaction time		0.155	interval	7 steps	1.05	1.05	1.04	1.02	1.05	1.03	1.07	1.08	1.10	1.49		3.14	3.10	3.25
wind		0.0 m/s	velocity	5.28	8.70	8.70	8.79	8.96	8.70	8.87	8.54	8.46	8.31	9.41	8.10	8.73	8.85	8.44
Manga, Aurel (FRA) (1992)																		
FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)																		
date		04-Jun-23	time	2.58	3.66	4.72	5.75	6.77	7.82	8.86	9.95	11.03	12.14	13.58	8 / 7			
reaction time		0.151	interval	7 steps	1.08	1.06	1.03	1.02	1.05	1.04	1.09	1.08	1.11	1.44		3.17	3.11	3.28
wind		0.4 m/s	velocity	5.32	8.46	8.62	8.87	8.96	8.70	8.79	8.39	8.46	8.23	9.74	8.10	8.65	8.82	8.36
Zeller, Joshua (GBR) (2000)																		
FINAL - 2023 Athletissima (Lausanne, SUI)																		
date		30-Jun-23	time	2.47	3.56	4.60	5.64	6.66	7.69	8.73	9.79	10.87	11.96	13.58	8 / 7			
reaction time		0.153	interval		1.09	1.04	1.04	1.02	1.03	1.04	1.06	1.08	1.09	1.62		3.17	3.09	3.23
wind		-1.0 m/s	velocity	5.55	8.39	8.79	8.79	8.96	8.87	8.79	8.62	8.46	8.39	8.65	8.10	8.65	8.87	8.49
Bennett, Orlando (JAM) (1999)																		
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)																		
date		20-Apr-24	time	2.49	3.57	4.62	5.65	6.69	7.72	8.75	9.80	10.86	11.95	13.58	2 / 8			
reaction time		0.182	interval		1.08	1.05	1.03	1.04	1.03	1.03	1.05	1.06	1.09	1.63		3.16	3.10	3.20
wind		-0.3 m/s	velocity	5.51	8.46	8.70	8.87	8.79	8.87	8.87	8.70	8.62	8.39	8.60	8.10	8.68	8.85	8.57
Britt, Jamal (USA) (1998)																		
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)																		
date		27-Apr-24	time	2.54	3.60	4.67	5.70	6.74	7.77	8.84	9.91	10.96	12.08	13.58	1 / 8			
reaction time		0.128	interval	7 steps	1.06	1.07	1.03	1.04	1.03	1.07	1.07	1.05	1.12	1.50		3.16	3.14	3.24
wind		0.8 m/s	velocity	5.40	8.62	8.54	8.87	8.79	8.87	8.54	8.54	8.70	8.16	9.35	8.10	8.68	8.73	8.46
Williams, Tyson (USA) (2002)																		
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																		
date		24-Jun-24	time	2.53	3.65	4.70	5.77	6.82	7.86	8.92	9.96	11.05	12.13	13.58	7 / 7			
reaction time			interval	7 steps	1.12	1.05	1.07	1.05	1.04	1.06	1.04	1.09	1.08	1.45		3.24	3.15	3.21
wind		0.8 m/s	velocity	5.42	8.16	8.70	8.54	8.70	8.79	8.62	8.79	8.39	8.46	9.67	8.10	8.46	8.70	8.54
Young, Ahmad (USA) (2000)																		
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																		
date		27-Jun-24	time	2.60	3.65	4.73	5.77	6.80	7.83	8.86	9.93	10.98	12.08	13.58	9 / 6			
reaction time			interval	7 steps	1.05	1.08	1.04	1.03	1.03	1.03	1.07	1.05	1.10	1.50		3.17	3.09	3.22
wind		-0.2 m/s	velocity	5.28	8.70	8.46	8.79	8.87	8.87	8.87	8.54	8.70	8.31	9.35	8.10	8.65	8.87	8.52
Bouanani, Amine (ALG) (1997)																		
Heat 2 - 2024 Olympic Games (Paris, FRA)																		
date		04-Aug-24	time	2.49	3.58	4.63	5.67	6.71	7.74	8.78	9.84	10.91	11.99	13.58	8 / 5			
reaction time		0.163	interval	7 steps	1.09	1.05	1.04	1.04	1.03	1.04	1.06	1.07	1.08	1.59		3.18	3.11	3.21
wind		1.2 m/s	velocity	5.51	8.39	8.70	8.79	8.79	8.87	8.79	8.62	8.54	8.46	8.82	8.10	8.62	8.82	8.54
Li Tong (CHN) (1967)																		
Heat 1 - 1992 Fresno Relays (Fresno, CA)																		
date		04-Apr-92	time	2.54	3.64	4.67	5.71	6.76	7.83	8.90	9.99	11.09	12.21	13.59	/ 1			
reaction time			interval		1.10	1.03	1.04	1.05	1.07	1.07	1.09	1.10	1.12	1.38		3.17	3.19	3.31
wind		0.0 m/s	velocity	5.40	8.31	8.87	8.79	8.70	8.54	8.54	8.39	8.31	8.16	10.16	8.09	8.65	8.60	8.28
Chen Yanhao (CHN) (1972)																		
FINAL - 1993 Chinese National Games (Beijing, CHN)																		
date		13-Sep-93	time	2.59	3.69	4.77	5.83	6.89	7.93	8.98	10.03	11.11	12.22	13.59	/ 1			
reaction time			interval		1.10	1.08	1.06	1.06	1.04	1.05	1.05	1.08	1.11	1.37	PB	3.24	3.15	3.24
wind		-0.5 m/s	velocity	5.30	8.31	8.46	8.62	8.62	8.79	8.70	8.70	8.46	8.23	10.23	8.09	8.46	8.70	8.46
Favaro, Denis (ITA) (1972)																		
FINAL - 2002 European Championships (Munich, GER)																		
date		10-Aug-02	time	2.73	3.79	4.85	5.89	6.93	7.95	8.99	10.03	11.09	12.18	13.59	/ 6			
reaction time		0.202	interval		1.06	1.06	1.04	1.04	1.02	1.04	1.04	1.06	1.09	1.41	PB	3.16	3.10	3.19
wind		0.4 m/s	velocity	5.03	8.62	8.62	8.79	8.79	8.96	8.79	8.79	8.62	8.39	9.94	8.09	8.68	8.85	8.60
Tanonaka, Tasuku (JPN) (1978)																		
FINAL - 2007 Osaka Grand Prix (Osaka, JPN)																		
date		05-May-07	time	2.40	3.48	4.52	5.56	6.62	7.68	8.74	9.82	10.90	11.99	13.59	/ 3			
reaction time			interval		1.08	1.04	1.04	1.06	1.06	1.06	1.08	1.08	1.09	1.60		3.16	3.18	3.25
wind		0.8 m/s	velocity	5.72	8.46	8.79	8.79	8.62	8.62	8.62	8.46	8.46	8.39	8.76	8.09	8.68	8.62	8.44
Olijar, Stanislav (LAT) (1979)																		

Heat 4 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.72	3.79	4.83	5.85	6.87	7.91	8.96	10.00	11.07	12.15	13.59	8 / 4			
reaction time	0.160	interval		1.07	1.04	1.02	1.02	1.04	1.05	1.04	1.07	1.08	1.44		3.13	3.11	3.19
wind	0.5 m/s	velocity	5.04	8.54	8.79	8.96	8.96	8.79	8.70	8.79	8.54	8.46	9.74	8.09	8.76	8.82	8.60

Sato, Hiroyuki (JPN) (1990)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****A FINAL - 2012 Mikio Oda Memorial (Hiroshima, JPN)***Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13*

date	29-Apr-12	time	2.61	3.66	4.71	5.74	6.79	7.84	8.91	9.99	11.07	12.17	13.59	3 / 2			
reaction time		interval		1.05	1.05	1.03	1.05	1.05	1.07	1.08	1.08	1.10	1.42		3.13	3.17	3.26
wind	2.1 m/s	velocity	5.26	8.70	8.70	8.87	8.70	8.70	8.54	8.46	8.46	8.31	9.87	8.09	8.76	8.65	8.41

Fourie, Lehann (RSA) (1987)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2012 AVIVA Grand Prix (Birmingham, GBR) (TV Analysis)***Henson (2020) - Athlete First: 2012 Aries Merritt world record season*

date	26-Aug-12	time	2.48	3.52	4.54	5.56	6.58	7.60	8.70	9.81	10.87	11.99	13.59	8 / 7			
reaction time	0.139	interval	7 steps	1.04	1.02	1.02	1.02	1.02	1.10	1.11	1.06	1.12	1.60		3.08	3.14	3.29
wind	-0.9 m/s	velocity	5.53	8.79	8.96	8.96	8.96	8.96	8.31	8.23	8.62	8.16	8.76	8.09	8.90	8.73	8.33

Yazawa, Wataru (JPN) (1991)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2013 Japanese National Championships (Chofu, JPN)***Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13*

date	09-Jun-13	time	2.60	3.69	4.76	5.81	6.86	7.89	8.95	10.01	11.07	12.18	13.59	7 / 1			
reaction time		interval	7 steps	1.09	1.07	1.05	1.05	1.03	1.06	1.06	1.06	1.11	1.41	PB	3.21	3.14	3.23
wind	1.3 m/s	velocity	5.28	8.39	8.54	8.70	8.70	8.87	8.62	8.62	8.62	8.23	9.94	8.09	8.54	8.73	8.49

Yazawa, Wataru (JPN) (1991)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2014 Japanese National Championships (Fukushima, JPN)***(2017.02.22) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	08-Jun-14	time	2.60	3.69	4.74	5.78	6.81	7.87	8.93	10.00	11.07	12.15	13.59	4 / 2			
reaction time	0.137	interval	7 steps	1.09	1.05	1.04	1.03	1.06	1.06	1.07	1.07	1.08	1.44	=PB	3.18	3.15	3.22
wind	0.4 m/s	velocity	5.28	8.39	8.70	8.79	8.87	8.62	8.62	8.54	8.54	8.46	9.74	8.09	8.62	8.70	8.52

Fofana, Hassane (ITA) (1992)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2015 Italian National Championships (Torino, ITA)***Incalza (FIDAL - Centro Studi & Ricerche) (2015) - https://www.youtube.com/watch?v=Ytpg1XHNpfg*

date	25-Jul-15	time	2.66	3.74	4.79	5.82	6.85	7.91	8.96	9.99	11.09	12.17	13.59	6 / 1			
reaction time		interval		1.08	1.05	1.03	1.03	1.06	1.05	1.03	1.10	1.08	1.42		3.16	3.14	3.21
wind	1.8 m/s	velocity	5.16	8.46	8.70	8.87	8.87	8.62	8.70	8.87	8.31	8.46	9.87	8.09	8.68	8.73	8.54

Zhang Honglin (CHN) (1994)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)***Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers*

date	08-May-16	time	2.69	3.72	4.76	5.78	6.82	7.84	8.90	9.94	11.02	12.12	13.59	8 / 2			
reaction time	0.162	interval		1.03	1.04	1.02	1.04	1.02	1.06	1.04	1.08	1.10	1.47		3.09	3.12	3.22
wind	-0.6 m/s	velocity	5.10	8.87	8.79	8.96	8.79	8.96	8.62	8.79	8.46	8.31	9.54	8.09	8.87	8.79	8.52

Masuno, Genta (JPN) (1993)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2016 Fuse Sprint (Tottori, JPN)***Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers*

date	05-Jun-16	time	2.62	3.68	4.73	5.78	6.82	7.89	8.95	10.01	11.10	12.17	13.59	6 / 2			
reaction time		interval		1.06	1.05	1.05	1.04	1.07	1.06	1.06	1.09	1.07	1.42		3.16	3.17	3.22
wind	1.4 m/s	velocity	5.24	8.62	8.70	8.70	8.79	8.54	8.62	8.62	8.39	8.54	9.87	8.09	8.68	8.65	8.52

Manga, Aurel (FRA) (1992)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)***Henson (2021) - Athlete First: 2016 year end hurdle report*

date	23-Jul-16	time	2.46	3.52	4.58	5.62	6.63	7.74	8.82	9.88	11.02	12.08	13.59	9 / 4			
reaction time	0.155	interval	7 steps	1.06	1.06	1.04	1.01	1.11	1.08	1.06	1.14	1.06	1.51		3.16	3.20	3.26
wind	-1.0 m/s	velocity	5.58	8.62	8.62	8.79	9.05	8.23	8.46	8.62	8.02	8.62	9.28	8.09	8.68	8.57	8.41

Omuro, Hideki (JPN) (1990)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)***(2017) - tfdata-store.com/2017/05/22/post-599/*

date	21-May-17	time	2.59	3.65	4.69	5.74	6.81	7.87	8.92	9.99	11.06	12.14	13.59	7 / 3			
reaction time	0.141	interval		1.06	1.04	1.05	1.07	1.06	1.05	1.07	1.07	1.08	1.45		3.15	3.18	3.22
wind	-1.8 m/s	velocity	5.30	8.62	8.79	8.70	8.54	8.62	8.70	8.54	8.54	8.46	9.67	8.09	8.70	8.62	8.52

Sato, Hiroyuki (JPN) (1990)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final 1 - 2017 Japanese National Championships (Osaka, JPN)***(2017) - tfdata-store.com/2017/07/13/post-1040/*

date	24-Jun-17	time	2.59	3.63	4.67	5.73	6.77	7.83	8.89	9.98	11.08	12.18	13.59	5 / 2			
reaction time	0.169	interval		1.04	1.04	1.06	1.04	1.06	1.06	1.09	1.10	1.10	1.41	PB	3.14	3.16	3.29
wind	0.6 m/s	velocity	5.30	8.79	8.79	8.62	8.79	8.62	8.62	8.39	8.31	8.31	9.94	8.09	8.73	8.68	8.33

Nomoto, Syuusei (JPN) (1995)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2017 Nambu Memorial (Sapporo, JPN)***(2017) - tfdata-store.com/2017/07/12/post-1025/*

date	09-Jul-17	time	2.61	3.70	4.75	5.79	6.84	7.91	8.96	10.04	11.11	12.22	13.59	7 / 1			
reaction time		interval	7 steps	1.09	1.05	1.04	1.05	1.07	1.05	1.08	1.07	1.11	1.37		3.18	3.17	3.26
wind	2.7 m/s	velocity	5.26	8.39	8.70	8.79	8.70	8.54	8.70	8.46	8.54	8.23	10.23	8.09	8.62	8.65	8.41

Alkana, Antonio (RSA) (1990)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final 3 - 2017 IAAF World Championships (London, GBR)***Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles*

date	06-Aug-17	time	2.66	3.74	4.78	5.81	6.82	7.85	8.88	9.95	11.02	12.13		13.59	9 / 4			
reaction time	0.230	interval		1.08	1.04	1.03	1.01	1.03	1.03	1.07	1.07	1.11	1.46			3.15	3.07	3.25
wind	0.3 m/s	velocity	5.16	8.46	8.79	8.87	9.05	8.87	8.87	8.54	8.54	8.23	9.60	8.09		8.70	8.93	8.44
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Asian Athletics Championships (Doha, QAT)			CAA Hurdle Development (2019)															
date	24-Apr-19	time	2.57	3.59	4.65	5.69	6.75	7.82	8.89	9.98	11.08	12.16		13.59	4 / 4			
reaction time	0.145	interval		1.02	1.06	1.04	1.06	1.07	1.07	1.09	1.10	1.08	1.43			3.12	3.20	3.27
wind	1.7 m/s	velocity	5.34	8.96	8.62	8.79	8.62	8.54	8.54	8.39	8.31	8.46	9.80	8.09		8.79	8.57	8.39
Zeng Jianhang (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese National Championships (Shenyang, CHN)			CAA Hurdle Development (2019)															
date	08-Jul-19	time	2.58	3.65	4.70	5.75	6.77	7.86	8.92	9.99	11.09	12.18		13.59	8 / 1			
reaction time	0.174	interval		1.07	1.05	1.05	1.02	1.09	1.06	1.07	1.10	1.09	1.41			3.17	3.17	3.26
wind	0.1 m/s	velocity	5.32	8.54	8.70	8.70	8.96	8.39	8.62	8.54	8.31	8.39	9.94	8.09		8.65	8.65	8.41
Ning Xiaohan (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)			CAA Hurdle Development (2019)															
date	14-Aug-19	time	2.58	3.62	4.64	5.67	6.69	7.71	8.74	9.80	10.88	12.04		13.59	6 / 1			
reaction time	0.135	interval		1.04	1.02	1.03	1.02	1.02	1.03	1.06	1.08	1.16	1.55			3.09	3.07	3.30
wind	0.6 m/s	velocity	5.32	8.79	8.96	8.87	8.96	8.96	8.87	8.62	8.46	7.88	9.05	8.09		8.87	8.93	8.31
Kuriki, Anthony Tyrell (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)			Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season															
date	01-Sep-19	time	2.60	3.69	4.73	5.77	6.82	7.86	8.91	9.97	11.03	12.10		13.59	8 / 5			
reaction time		interval	7 steps	1.09	1.04	1.04	1.05	1.04	1.05	1.06	1.06	1.07	1.49	PB		3.17	3.14	3.19
wind	1.4 m/s	velocity	5.28	8.39	8.79	8.79	8.70	8.79	8.70	8.62	8.62	8.54	9.41	8.09		8.65	8.73	8.60
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)			Henson (2020) - Athlete First: 2019 year end hurdle report															
date	10-Sep-19	time	2.53	3.60	4.63	5.63	6.65	7.71	8.75	9.82	10.90	12.06		13.59	3 / 4			
reaction time	0.155	interval	7 steps	1.07	1.03	1.00	1.02	1.06	1.04	1.07	1.08	1.16	1.53			3.10	3.12	3.31
wind	0.1 m/s	velocity	5.42	8.54	8.87	9.14	8.96	8.62	8.79	8.54	8.46	7.88	9.16	8.09		8.85	8.79	8.28
Masuno, Genta (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 Japanese National Championships (Niigata, JPN)			Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season															
date	02-Oct-20	time	2.63	3.69	4.75	5.79	6.83	7.88	8.93	10.00	11.08	12.16		13.59	8 / 2			
reaction time	0.148	interval		1.06	1.06	1.04	1.04	1.05	1.05	1.07	1.08	1.08	1.43			3.16	3.14	3.23
wind	0.4 m/s	velocity	5.22	8.62	8.62	8.79	8.79	8.70	8.70	8.54	8.46	8.46	9.80	8.09		8.68	8.73	8.49
Moore, Isaiah (USA) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report															
date	26-Jun-21	time	2.54	3.63	4.69	5.72	6.77	7.81	8.86	9.91	10.96	12.06		13.59	7 / 8			
reaction time	0.147	interval		1.09	1.06	1.03	1.05	1.04	1.05	1.05	1.05	1.10	1.53			3.18	3.14	3.20
wind	1.8 m/s	velocity	5.40	8.39	8.62	8.87	8.70	8.79	8.70	8.70	8.70	8.31	9.16	8.09		8.62	8.73	8.57
Trajkovic, Milan (CYP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			Henson (2024) - Athlete First: 2021 year end hurdle report															
date	03-Aug-21	time	2.61	3.69	4.69	5.72	6.78	7.86	8.89	9.91	11.04	12.13		13.59	2 / 4			
reaction time	0.117	interval	7 steps	1.08	1.00	1.03	1.06	1.08	1.03	1.02	1.13	1.09	1.46			3.11	3.17	
wind	-0.1 m/s	velocity	5.26	8.46	9.14	8.87	8.62	8.46	8.87	8.96	8.09	8.39	9.60	8.09		8.82	8.65	
Fujii, Ryota (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)			Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season															
date	01-May-22	time	2.59	3.65	4.69	5.73	6.77	7.83	8.88	9.95	11.02	12.14		13.59	4 / 4			
reaction time	0.147	interval		1.06	1.04	1.04	1.04	1.06	1.05	1.07	1.07	1.12	1.45			3.14	3.15	3.26
wind	0.8 m/s	velocity	5.30	8.62	8.79	8.79	8.79	8.62	8.70	8.54	8.54	8.16	9.67	8.09		8.73	8.70	8.41
Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)			Omega Timing (2023) - diamond league race analysis															
date	16-Jul-23	time	2.45	3.55	4.60	5.64	6.69	7.74	8.79	9.85	10.91	11.99		13.59	3 / 7			
reaction time	0.153	interval	7 steps	1.10	1.05	1.04	1.05	1.05	1.05	1.06	1.06	1.08	1.60			3.19	3.15	3.20
wind	-0.2 m/s	velocity	5.60	8.31	8.70	8.79	8.70	8.70	8.70	8.62	8.62	8.46	8.76	8.09		8.60	8.70	8.57
Hojo, Yuki (JPN) (2005)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National U20 Championships (Niigata, JPN) (99.1cm)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date	30-Jun-24	time	2.65	3.73	4.78	5.81	6.86	7.90	8.94	10.00	11.05	12.14		13.59	6 / 4			
reaction time	0.158	interval	7 steps	1.08	1.05	1.03	1.05	1.04	1.04	1.06	1.05	1.09	1.45	PB		3.16	3.13	3.20
wind	0.1 m/s	velocity	5.18	8.46	8.70	8.87	8.70	8.79	8.79	8.62	8.70	8.39	9.67	8.09		8.68	8.76	8.57
Koga, Jieremi (JPN) (2007)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)			Takashima (2024) - national high school sports festival - biomechanics data															
date	01-Aug-24	time	2.57	3.64	4.68	5.75	6.77	7.83	8.90	9.96	11.04	12.14		13.59	7 / 1			

reaction time	0.152	interval		1.07	1.04	1.07	1.02	1.06	1.07	1.06	1.08	1.10	1.45	PB		3.18	3.15	3.24
wind	-0.7 m/s	velocity	5.34	8.54	8.79	8.54	8.96	8.62	8.54	8.62	8.46	8.31	9.67	8.09		8.62	8.70	8.46

Ferguson, Kenneth (USA) (1984)

Burguson, Kenneth (USA) (1984)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)														USATF Women's Sprint Development (2003)				
date	21-Jun-03	time	2.55	3.62	4.67	5.69	6.72	7.75	8.79	9.86	10.94	12.04		13.60	4 / 1			
reaction time		interval		1.07	1.05	1.02	1.03	1.03	1.04	1.07	1.08	1.10	1.56			3.14	3.10	3.25
wind	-2.4 m/s	velocity	5.38	8.54	8.70	8.96	8.87	8.87	8.79	8.54	8.46	8.31	8.99	8.09		8.73	8.85	8.44

Tanonaka, Tasuku (JPN) (1978)

Anonaka, Tasuku (JPN) (1978)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2007 Mikio Oda Memorial (Hiroshima, JPN)										Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles							
date	29-Apr-07	time	2.40	3.49	4.55	5.60	6.65	7.70	8.76	9.83	10.90	11.99	13.60	/ 1			
reaction time		interval		1.09	1.06	1.05	1.05	1.05	1.06	1.07	1.07	1.09	1.61		3.20	3.16	3.23
wind	2.6 m/s	velocity	5.72	8.39	8.62	8.70	8.70	8.70	8.62	8.54	8.54	8.39	8.71	8.09	8.57	8.68	8.49

Naito, Masato (JPN) (1980)

aito, Masato (JPN) (1980)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 Osaka Grand Prix (Osaka, JPN)										Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles							
date	05-May-07	time	2.43	3.51	4.55	5.58	6.62	7.66	8.71	9.78	10.87	11.96	13.60	/ 4			
reaction time		interval		1.08	1.04	1.03	1.04	1.04	1.05	1.07	1.09	1.09	1.64		3.15	3.13	3.25
wind	0.8 m/s	velocity	5.65	8.46	8.79	8.87	8.79	8.79	8.70	8.54	8.39	8.39	8.55	8.09	8.70	8.76	8.44

Johnson, Allen (USA) (1971)

Johnson, Allen (USA) (1971)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 USATF National Championships (Indianapolis, IN)															USATF Men's Hurdle Development (2007)		
date	24-Jun-07	time	2.59	3.62	4.64	5.64	6.67	7.69	8.76	9.78	10.93	12.03	13.60	2 / 7			
reaction time		interval		1.03	1.02	1.00	1.03	1.02	1.07	1.02	1.15	1.10	1.57		3.05	3.12	3.27
wind	0.5 m/s	velocity	5.30	8.87	8.96	9.14	8.87	8.96	8.54	8.96	7.95	8.31	8.93	8.09	8.99	8.79	8.39

Phillips, Richard (JAM) (1983)

Phillips, Richard (JAM) (1983)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2008 Olympic Games (Beijing, CHN)																	
Tsiokanos (2018) - race pattern of men's 110m hurdles- time analysis of olympic hurdle performance																	
date	21-Aug-08	time	2.62	3.70	4.73	5.77	6.80	7.82	8.90	9.96	11.02	12.15		13.60	3 / 7		
reaction time	0.154	interval		1.08	1.03	1.04	1.03	1.02	1.08	1.06	1.06	1.13	1.45		3.15	3.13	3.25
wind	0.1 m/s	velocity	5.24	8.46	8.87	8.79	8.87	8.96	8.46	8.62	8.62	8.09	9.67	8.09	8.70	8.76	8.44

Shi Dongpeng (CHN) (1984)

Ni Dongpeng (CHN) (1984)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Golden Grand Prix (Shanghai, CHN) (TV Analysis)												Henson (2020) - Athlete First: 2012 Aries Merritt world record season					
date	19-May-12	time	2.52	3.60	4.66	5.70	6.74	7.78	8.82	9.86	10.96	12.06		13.60	1 / 7		
reaction time	0.155	interval		1.08	1.06	1.04	1.04	1.04	1.04	1.04	1.10	1.10	1.54		3.18	3.12	3.24
wind	0.4 m/s	velocity	5.44	8.46	8.62	8.79	8.79	8.79	8.79	8.31	8.31	9.10	8.09		8.62	8.79	8.46

Yazawa, Wataru (JPN) (1991)

Zazawa, Wataru (JPN) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Japanese Corporate Championships (Hiratsuka, JPN)									(2016.11.18) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en								
date	19-Oct-13	time	2.72	3.80	4.85	5.89	6.93	7.95	9.00	10.06	11.12	12.21	13.60	4 / 1			
reaction time		interval		1.08	1.05	1.04	1.04	1.02	1.05	1.06	1.06	1.09	1.39		3.17	3.11	3.21
wind	6.7 m/s	velocity	5.04	8.46	8.70	8.79	8.79	8.96	8.70	8.62	8.62	8.39	10.09	8.09	8.65	8.82	8.54

Yazawa, Wataru (JPN) (1991)

azawa, Wataru (JPN) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2014 Japanese National Championships (Fukushima, JPN)									(2017.02.26) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en								
date	08-Jun-14	time	2.63	3.71	4.75	5.79	6.84	7.89	8.94	10.01	11.08	12.17	13.60	6 / 1			
reaction time	0.147	interval	7 steps	1.08	1.04	1.04	1.05	1.05	1.05	1.07	1.07	1.09	1.43		3.16	3.15	3.23
wind	-0.5 m/s	velocity	5.22	8.46	8.79	8.79	8.70	8.70	8.70	8.54	8.54	8.39	9.80	8.09	8.68	8.70	8.49

Yazawa, Wataru (JPN) (1991)

azawa, Wataru (JPN) (1991)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 5 - 2017 Fuse Sprint (Tottori, JPN)																	
(2017) - tfdata-store.com/2017/06/04/post-848/																	
date	04-Jun-17	time	2.60	3.68	4.74	5.78	6.82	7.87	8.93	9.99	11.07	12.16	13.60	6 / 2			
reaction time		interval	7 steps	1.08	1.06	1.04	1.04	1.05	1.06	1.06	1.08	1.09	1.44		3.18	3.15	3.23
wind	1.5 m/s	velocity	5.28	8.46	8.62	8.79	8.79	8.70	8.62	8.62	8.46	8.39	9.74	8.09	8.62	8.70	8.49

Cabral, Johnathan (CAN) (1992)

abral, Johnathan (CAN) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)													Henson (2020) - Athlete First: 2017 year end hurdle report				
date	08-Jun-17	time	2.52	3.58	4.64	5.66	6.70	7.74	8.78	9.86	10.94	12.08		13.60	2 / 7		
reaction time	0.130	interval	7 steps	1.06	1.06	1.02	1.04	1.04	1.04	1.08	1.08	1.14	1.52		3.14	3.12	3.30
wind	-0.3 m/s	velocity	5.44	8.62	8.62	8.96	8.79	8.79	8.79	8.46	8.46	8.02	9.22	8.09	8.73	8.79	8.31

Kuriki, Anthony Tyrell (JPN) (1996)

Kuriki, Anthony Tyrell (JPN) (1996)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 All Star Night (Hiratsuka, JPN)													(2017) - tfdata-store.com/2017/07/26/post-1072/				
date	22-Jul-17	time	2.62	3.72	4.77	5.82	6.87	7.92	8.98	10.06	11.12	12.19	13.60	3 / 3			
reaction time	0.128	interval	7 steps	1.10	1.05	1.05	1.05	1.05	1.06	1.08	1.06	1.07	1.41		3.20	3.16	3.21
wind	1.8 m/s	velocity	5.24	8.31	8.70	8.70	8.70	8.70	8.62	8.46	8.62	8.54	9.94	8.09	8.57	8.68	8.54

Morita, Kanon (JPN) (2000)

Morita, Kanon (JPN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm)													Joshi (2018) - research on athlete performance and technique- 2018 data book				
date	07-Oct-18	time	2.59	3.67	4.72	5.79	6.83	7.90	8.97	10.04	11.11	12.20	13.60	6 / 3			
reaction time	0.126	interval		1.08	1.05	1.07	1.04	1.07	1.07	1.07	1.07	1.09	1.40		3.20	3.18	3.23

wind	1.5 m/s	velocity	5.30	8.46	8.70	8.54	8.79	8.54	8.54	8.54	8.39	10.01	8.09			8.57	8.62	8.49
Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Fuse Sprint (Tottori, JPN)			<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>															
date	02-Jun-19	time	2.61	3.69	4.78	5.83	6.86	7.91	8.95	10.01	11.08	12.16		13.60	4 / 3			
reaction time	0.128	interval	7 steps	1.08	1.09	1.05	1.03	1.05	1.04	1.06	1.07	1.08	1.44			3.22	3.12	3.21
wind	1.9 m/s	velocity	5.26	8.46	8.39	8.70	8.87	8.70	8.79	8.62	8.54	8.46	9.74	8.09		8.52	8.79	8.54
Sun Zhenjiang (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese National Championships (Shenyang, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	08-Jul-19	time	2.58	3.64	4.69	5.72	6.77	7.82	8.88	9.96	11.04	12.13		13.60	5 / 2			
reaction time	0.164	interval	7 steps	1.06	1.05	1.03	1.05	1.05	1.06	1.08	1.08	1.09	1.47	PB		3.14	3.16	3.25
wind	0.1 m/s	velocity	5.32	8.62	8.70	8.87	8.70	8.70	8.62	8.46	8.46	8.39	9.54	8.09		8.73	8.68	8.44
Levy, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	21-Jul-19	time	2.43	3.51	4.56	5.61	6.63	7.70	8.73	9.82	10.92	11.99		13.60	2 / 7			
reaction time	0.165	interval	7 steps	1.08	1.05	1.05	1.02	1.07	1.03	1.09	1.10	1.07	1.61			3.18	3.12	3.26
wind	0.4 m/s	velocity	5.65	8.46	8.70	8.70	8.96	8.54	8.87	8.39	8.31	8.54	8.71	8.09		8.62	8.79	8.41
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)			<i>CAA Hurdle Development (2019)</i>															
date	02-Oct-19	time	2.58	3.61	4.64	5.66	6.68	7.74	8.86	9.94	11.04	12.14		13.60	4 / 5			
reaction time	0.123	interval	7 steps	1.03	1.03	1.02	1.02	1.06	1.12	1.08	1.10	1.10	1.46			3.08	3.20	3.28
wind	1.1 m/s	velocity	5.32	8.87	8.87	8.96	8.96	8.62	8.16	8.46	8.31	8.31	9.60	8.09		8.90	8.57	8.36
Bennett, Orlando (JAM) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)			<i>CAA Hurdle Development (2019)</i>															
date	02-Oct-19	time	2.62	3.72	4.76	5.80	6.84	7.90	8.92	10.00	11.08	12.18		13.60	3 / 6			
reaction time	0.162	interval		1.10	1.04	1.04	1.04	1.06	1.02	1.08	1.08	1.10	1.42			3.18	3.12	3.26
wind	1.1 m/s	velocity	5.24	8.31	8.79	8.79	8.79	8.62	8.96	8.46	8.46	8.31	9.87	8.09		8.62	8.79	8.41
Levy, Ronald (JAM) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)			<i>CAA Hurdle Development (2019)</i>															
date	02-Oct-19	time	2.62	3.70	4.74	5.78	6.80	7.82	8.86	9.90	10.96	12.04		13.60	7 / 7			
reaction time	0.163	interval	7 steps	1.08	1.04	1.04	1.02	1.02	1.04	1.04	1.06	1.08	1.56	DQ		3.16	3.08	3.18
wind	1.1 m/s	velocity	5.24	8.46	8.79	8.79	8.96	8.96	8.79	8.79	8.62	8.46	8.99	8.09		8.68	8.90	8.62
Belocian, Wilhem (FRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)			<i>CAA Hurdle Development (2019)</i>															
date	02-Oct-19	time	2.58	3.64	4.66	5.67	6.72	7.74	8.80	9.90	11.00	12.12		13.60	3 / 7			
reaction time	0.133	interval		1.06	1.02	1.01	1.05	1.02	1.06	1.10	1.10	1.12	1.48			3.09	3.13	3.32
wind	0.6 m/s	velocity	5.32	8.62	8.96	9.05	8.70	8.96	8.62	8.31	8.31	8.16	9.47	8.09		8.87	8.76	8.26
Miyazaki, Takumi (JPN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (99cm)			<i>Enomoto (2019) - research on athlete performance and technique- 2019 data book</i>															
date	06-Oct-19	time	2.64	3.72	4.79	5.86	6.89	7.94	8.97	10.03	11.08	12.15		13.60	5 / 5			
reaction time	0.150	interval		1.08	1.07	1.07	1.03	1.05	1.03	1.06	1.05	1.07	1.45			3.22	3.11	3.18
wind	2.7 m/s	velocity	5.20	8.46	8.54	8.54	8.87	8.70	8.87	8.62	8.70	8.54	9.67	8.09		8.52	8.82	8.62
Takahashi, Harumasa (JPN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (99cm)			<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>															
date	18-Oct-19	time	2.62	3.73	4.80	5.85	6.90	7.92	8.97	10.01	11.08	12.15		13.60	6 / 1			
reaction time	0.131	interval		1.11	1.07	1.05	1.05	1.02	1.05	1.04	1.07	1.07	1.45			3.23	3.12	3.18
wind	-0.4 m/s	velocity	5.24	8.23	8.54	8.70	8.70	8.96	8.70	8.79	8.54	8.54	9.67	8.09		8.49	8.79	8.62
Kondo, Mizuki (JPN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (99cm)			<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>															
date	18-Oct-19	time	2.64	3.70	4.76	5.80	6.83	7.88	8.92	9.97	11.03	12.13		13.60	3 / 2			
reaction time	0.152	interval		1.06	1.06	1.04	1.03	1.05	1.04	1.05	1.06	1.10	1.47			3.16	3.12	3.21
wind	-0.4 m/s	velocity	5.20	8.62	8.62	8.79	8.87	8.70	8.79	8.70	8.62	8.31	9.54	8.09		8.68	8.79	8.54
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)			<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	19-Aug-20	time	2.50	3.54	4.54	5.57	6.57	7.61	8.64	9.68	10.74	11.91		13.60	5 / 6			
reaction time	0.127	interval	7 steps	1.04	1.00	1.03	1.00	1.04	1.03	1.04	1.06	1.17	1.69			3.07	3.07	3.27
wind	0.3 m/s	velocity	5.49	8.79	9.14	8.87	9.14	8.79	8.87	8.79	8.62	7.81	8.30	8.09		8.93	8.93	8.39
Takahasai, Yusuke (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Athlete Night Games (Fukui, JPN)			<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>															
date	29-Aug-20	time	2.62	3.72	4.76	5.81	6.87	7.93	9.01	10.07	11.15	12.23		13.60	4 / 6			
reaction time		interval		1.10	1.04	1.05	1.06	1.06	1.08	1.06	1.08	1.08	1.37	PB		3.19	3.20	3.22
wind	1.4 m/s	velocity	5.24	8.31	8.79	8.70	8.62	8.62	8.46	8.62	8.46	8.46	10.23	8.09		8.60	8.57	8.52

Al-Yoha, Yaqoub (KUW) (1993)																
FINAL	- 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)															
date	17-Sep-20	time	2.56	3.64	4.68	5.70	6.74	7.78	8.82	9.86	10.94	12.08				
reaction time	0.139	interval		1.08	1.04	1.02	1.04	1.04	1.04	1.08	1.14	1.52			3.14	3.12
wind	0.1 m/s	velocity	5.36	8.46	8.79	8.96	8.79	8.79	8.79	8.46	8.02	9.22		8.09	8.73	8.79
Constantino, Gabriel (BRA) (1995)																
FINAL	- 2020 Doha Diamond League (Doha, QAT) (TV Analysis)															
date	25-Sep-20	time	2.44	3.48	4.52	5.54	6.56	7.60	8.64	9.68	10.74	11.94				
reaction time	0.122	interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.04	1.04	1.06	1.20	1.66		3.10	3.10
wind	0.3 m/s	velocity	5.62	8.79	8.79	8.96	8.96	8.79	8.79	8.79	8.62	7.62	8.45	8.09	8.85	8.85
Ning Xiaohan (CHN) (2000)																
FINAL	- 2020 Chinese National Championships (Shaoxing, CHN)															
date	16-Sep-20	time	2.60	3.69	4.76	5.81	6.86	7.90	8.95	10.01	11.07	12.15				
reaction time	0.160	interval	7 steps	1.09	1.07	1.05	1.05	1.04	1.05	1.06	1.06	1.08	1.45		3.21	3.14
wind	0.4 m/s	velocity	5.28	8.39	8.54	8.70	8.70	8.79	8.70	8.62	8.62	8.46	9.67	8.09	8.54	8.73
Yokochi, Taiga (JPN) (2000)																
Heat 1	- 2020 Japanese National Championships (Niigata, JPN)															
date	02-Oct-20	time	2.69	3.76	4.80	5.83	6.85	7.90	8.93	10.00	11.06	12.15				
reaction time	0.160	interval	7 steps	1.07	1.04	1.03	1.02	1.05	1.03	1.07	1.06	1.09	1.45		3.14	3.10
wind	0.8 m/s	velocity	5.10	8.54	8.79	8.87	8.96	8.70	8.87	8.54	8.62	8.39	9.67	8.09	8.73	8.85
Takayama, Shunya (JPN) (1994)																
FINAL	- 2022 Japanese National Championships (Osaka, JPN)															
date	12-Jun-22	time	2.56	3.58	4.64	5.69	6.73	7.79	8.85	9.93	11.03	12.13				
reaction time	0.136	interval		1.02	1.06	1.05	1.04	1.06	1.06	1.08	1.10	1.10	1.47		3.13	3.16
wind	-1.2 m/s	velocity	5.36	8.96	8.62	8.70	8.79	8.62	8.62	8.46	8.31	8.31	9.54	8.09	8.76	8.68
Yokochi, Taiga (JPN) (2000)																
FINAL	- 2023 Mikio Oda Memorial (Hiroshima, JPN)															
date	29-Apr-23	time	2.64	3.74	4.79	5.82	6.88	7.91	8.97	10.05	11.13	12.19				
reaction time	0.160	interval	7 steps	1.10	1.05	1.03	1.06	1.03	1.06	1.08	1.08	1.06	1.41		3.18	3.15
wind	0.3 m/s	velocity	5.20	8.31	8.70	8.87	8.62	8.87	8.62	8.46	8.46	8.62	9.94	8.09	8.62	8.70
Yokochi, Taiga (JPN) (2000)																
FINAL	- 2023 Michitaka Kinami Memorial (Osaka, JPN)															
date	07-May-23	time	2.66	3.79	4.85	5.90	6.93	7.97	9.02	10.07	11.13	12.21				
reaction time	0.158	interval	7 steps	1.13	1.06	1.05	1.03	1.04	1.05	1.05	1.06	1.08	1.39		3.24	3.12
wind	-0.3 m/s	velocity	5.16	8.09	8.62	8.70	8.87	8.79	8.70	8.70	8.62	8.46	10.09	8.09	8.46	8.79
Ishikawa, Shuhei (JPN) (1995)																
FINAL	- 2023 Japanese National Championships (Osaka, JPN)															
date	04-Jun-23	time	2.60	3.66	4.69	5.73	6.77	7.81	8.85	9.90	10.99	12.10				
reaction time	0.172	interval	7 steps	1.06	1.03	1.04	1.04	1.04	1.04	1.05	1.09	1.11	1.50		3.13	3.12
wind	-0.9 m/s	velocity	5.28	8.62	8.87	8.79	8.79	8.79	8.79	8.70	8.39	8.23	9.35	8.09	8.76	8.79
Hrelja, Max (SWE) (1998)																
Semi-Final 1	- 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															
date	21-Aug-23	time	2.63	3.70	4.80	5.85	6.88	7.93	9.00	10.03	11.07	12.15				
reaction time	0.162	interval	7 steps	1.07	1.10	1.05	1.03	1.05	1.07	1.03	1.04	1.08	1.45		3.22	3.15
wind	-0.2 m/s	velocity	5.22	8.54	8.31	8.70	8.87	8.70	8.54	8.87	8.79	8.46	9.67	8.09	8.52	8.70
King, David (GBR) (1994)																
FINAL	- 2023 Weltklasse (Zürich, SUI)															
date	31-Aug-23	time	2.44	3.51	4.55	5.57	6.61	7.66	8.72	9.79	10.87	11.98				
reaction time	0.122	interval	7 steps	1.07	1.04	1.02	1.04	1.05	1.06	1.07	1.08	1.11	1.62		3.13	3.15
wind	-0.1 m/s	velocity	5.62	8.54	8.79	8.96	8.79	8.70	8.62	8.54	8.46	8.23	8.65	8.09	8.76	8.70
Simonelli, Lorenzo Ndele (ITA) (2002)																
FINAL	- 2023 Weltklasse (Zürich, SUI)															
date	31-Aug-23	time	2.43	3.50	4.50	5.50	6.50	7.56	8.60	9.60	10.70	11.80				
reaction time	0.142	interval	7 steps	1.07	1.00	1.00	1.00	1.06	1.04	1.00	1.10	1.10	1.80		3.07	3.10
wind	-0.1 m/s	velocity	5.65	8.54	9.14	9.14	9.14	8.62	8.79	9.14	8.31	8.31	7.79	8.09	8.93	8.85
Hunter, Myles (USA) (1995)																
FINAL	- 2024 Atlanta City Games (Atlanta, GA) (Street Race) (TV Analysis)															
date	18-May-24	time	2.55	3.64	4.71	5.75	6.80	7.84	8.88	9.92	10.96	12.05				
reaction time		interval		1.09	1.07	1.04	1.05	1.04	1.04	1.04	1.04	1.09	1.55		3.20	3.13
wind	-0.7 m/s	velocity	5.38	8.39	8.54	8.79	8.70	8.79	8.79	8.79	8.79	8.39	9.05	8.09	8.57	8.76

Bennett, Orlando (JAM) (1999)																
FINAL - 2024 Seiko Golden Grand Prix (Tokyo, JPN)																
date	19-May-24	time	2.64	3.70	4.75	5.78	6.81	7.86	8.91	9.96	11.05	12.15		13.60	7 / 5	
reaction time	0.129	interval		1.06	1.05	1.03	1.03	1.05	1.05	1.05	1.09	1.10	1.45		3.14	3.13
wind	-0.6 m/s	velocity	5.20	8.62	8.70	8.87	8.87	8.70	8.70	8.70	8.39	8.31	9.67	8.09	8.73	8.76
Williams, Paris (USA) (1998)																
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																
date	24-Jun-24	time	2.63	3.70	4.73	5.79	6.81	7.86	8.92	10.00	11.07	12.16		13.60	7 / 6	
reaction time		interval	7 steps	1.07	1.03	1.06	1.02	1.05	1.06	1.08	1.07	1.09	1.44		3.16	3.13
wind	-0.3 m/s	velocity	5.22	8.54	8.87	8.62	8.96	8.70	8.62	8.46	8.54	8.39	9.74	8.09	8.68	8.76
Ning Xiaohan (CHN) (2000)																
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)																
date	30-Jun-24	time	2.60	3.65	4.71	5.73	6.76	7.80	8.86	9.91	10.99	12.11		13.60	9 / 5	
reaction time	0.127	interval		1.05	1.06	1.02	1.03	1.04	1.06	1.05	1.08	1.12	1.49		3.13	3.13
wind	0.9 m/s	velocity	5.28	8.70	8.62	8.96	8.87	8.79	8.62	8.70	8.46	8.16	9.41	8.09	8.76	8.76
Dickson, Michael (USA) (1997)																
Heat 2 - 2024 Meeting de Paris (Paris, FRA)																
date	07-Jul-24	time	2.45	3.54	4.58	5.61	6.66	7.70	8.75	9.83	10.90	11.99		13.60	2 / 6	
reaction time	0.192	interval	7 steps	1.09	1.04	1.03	1.05	1.04	1.05	1.08	1.07	1.09	1.61		3.16	3.14
wind	0.4 m/s	velocity	5.60	8.39	8.79	8.87	8.70	8.79	8.70	8.46	8.54	8.39	8.71	8.09	8.68	8.73
Thorne, Craig (CAN) (2001)																
Heat 3 - 2024 Olympic Games (Paris, FRA)																
date	04-Aug-24	time	2.45	3.54	4.60	5.63	6.67	7.70	8.76	9.80	10.86	11.96		13.60	5 / 7	
reaction time	0.157	interval		1.09	1.06	1.03	1.04	1.03	1.06	1.04	1.06	1.10	1.64		3.18	3.13
wind	1.1 m/s	velocity	5.60	8.39	8.62	8.87	8.79	8.87	8.62	8.79	8.62	8.31	8.55	8.09	8.62	8.76
Joseph, Jason (SUI) (1998)																
FINAL - 2024 Weltklasse (Zürich, SUI)																
date	05-Sep-24	time	2.50	3.59	4.62	5.61	6.62	7.66	8.71	9.77	10.85	11.93		13.60	9 / 9	
reaction time	0.170	interval	7 steps	1.09	1.03	0.99	1.01	1.04	1.05	1.06	1.08	1.08	1.67		3.11	3.10
wind	-0.3 m/s	velocity	5.49	8.39	8.87	9.23	9.05	8.79	8.70	8.62	8.46	8.46	8.40	8.09	8.82	8.85
McKoy, Mark (CAN) (1961)																
FINAL - 1988 Olympic Games (Seoul, KOR)																
date	26-Sep-88	time	2.49	3.55	4.57	5.62	6.65	7.77	8.86	9.97	11.08	12.17		13.61	8 / 7	
reaction time	0.142	interval		1.06	1.02	1.05	1.03	1.12	1.09	1.11	1.11	1.09	1.44		3.13	3.24
wind	1.5 m/s	velocity	5.51	8.62	8.96	8.70	8.87	8.16	8.39	8.23	8.23	8.39	9.74	8.08	8.76	8.46
Yarbrough, Linnie (USA) (1982)																
Heat 4 - 2007 USATF National Championships (Indianapolis, IN)																
date	23-Jun-07	time	2.64	3.70	4.74	5.79	6.87	7.92	8.98	10.04	11.11	12.18		13.61	5 / 2	
reaction time		interval		1.06	1.04	1.05	1.08	1.05	1.06	1.06	1.07	1.07	1.43		3.15	3.19
wind	-2.8 m/s	velocity	5.20	8.62	8.79	8.70	8.46	8.70	8.62	8.62	8.54	8.54	9.80	8.08	8.70	8.60
Peremota, Igor (RUS) (1981)																
FINAL - 2007 European Cup (Munich, GER)																
date	24-Jun-07	time	2.61	3.63	4.67	5.69	6.73	7.77	8.83	9.93	11.03	12.15		13.61	1 / 4	
reaction time	0.132	interval		1.02	1.04	1.02	1.04	1.04	1.06	1.10	1.10	1.12	1.46		3.08	3.14
wind	0.4 m/s	velocity	5.26	8.96	8.79	8.96	8.79	8.79	8.62	8.31	8.31	8.16	9.60	8.08	8.90	8.73
Yarbrough, John (USA) (1985)																
Semi-Final 2 - 2007 USATF National Championships (Indianapolis, IN)																
date	24-Jun-07	time	2.69	3.75	4.80	5.84	6.87	7.92	8.98	10.02	11.08	12.16		13.61	7 / 7	
reaction time		interval		1.06	1.05	1.04	1.03	1.05	1.06	1.04	1.06	1.08	1.45		3.15	3.14
wind	-0.9 m/s	velocity	5.10	8.62	8.70	8.79	8.87	8.70	8.62	8.79	8.62	8.46	9.67	8.08	8.70	8.73
Tanonaka, Tasuku (JPN) (1978)																
Heat 4 - 2007 IAAF World Championships (Osaka, JPN)																
date	29-Aug-07	time	2.64	3.69	4.76	5.81	6.84	7.89	8.94	10.03	11.11	12.19		13.61	5 / 3	
reaction time	0.140	interval		1.05	1.07	1.05	1.03	1.05	1.05	1.09	1.08	1.08	1.42		3.17	3.13
wind	0.6 m/s	velocity	5.20	8.70	8.54	8.70	8.87	8.70	8.70	8.39	8.46	8.46	9.87	8.08	8.65	8.76
Capetillo, Dayron (CUB) (1987)																
Heat 6 - 2009 IAAF World Championships (Berlin, GER)																
date	19-Aug-09	time	2.63	3.67	4.74	5.77	6.79	7.83	8.87	9.93	11.05	12.15		13.61	4 / 4	
reaction time	0.168	interval	7 steps	1.04	1.07	1.03	1.02	1.04	1.04	1.06	1.12	1.10	1.46		3.14	3.10
wind	0.1 m/s	velocity	5.22	8.79	8.54	8.87	8.96	8.79	8.79	8.62	8.16	8.31	9.60	8.08	8.73	8.85
van der Westen, Marcel (NED) (1976)																

FINAL - 2010 European Team Championships, 1st League (Budapest, HUN)Blomkvist (2010) - www.sub13.se

date	20-Jun-10	time	2.46	3.53	4.57	5.59	6.64	7.68	8.75	9.81	10.90	11.98		13.61	3 / 2			
reaction time	0.130	interval		1.07	1.04	1.02	1.05	1.04	1.07	1.06	1.09	1.08	1.63			3.13	3.16	3.23
wind	1.1 m/s	velocity	5.58	8.54	8.79	8.96	8.70	8.79	8.54	8.62	8.39	8.46	8.60	8.08		8.76	8.68	8.49

Sato, Hiroyuki (JPN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2013 Japanese National Championships (Chofu, JPN)

Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13

date	09-Jun-13	time	2.60	3.67	4.72	5.77	6.83	7.88	8.93	10.01	11.09	12.20		13.61	8 / 2			
reaction time		interval		1.07	1.05	1.05	1.06	1.05	1.05	1.08	1.08	1.11	1.41			3.17	3.16	3.27
wind	1.3 m/s	velocity	5.28	8.54	8.70	8.70	8.62	8.70	8.70	8.46	8.46	8.23	9.94	8.08		8.65	8.68	8.39

Masuno, Genta (JPN) (1993)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 1 - 2014 Japanese National Championships (Fukushima, JPN)(2017.02.27) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	08-Jun-14	time	2.65	3.71	4.75	5.80	6.85	7.90	8.95	10.02	11.09	12.19		13.61	5 / 1			
reaction time	0.148	interval		1.06	1.04	1.05	1.05	1.05	1.05	1.07	1.07	1.10	1.42			3.15	3.15	3.24
wind	0.2 m/s	velocity	5.18	8.62	8.79	8.70	8.70	8.70	8.70	8.54	8.54	8.31	9.87	8.08		8.70	8.70	8.46

Omuro, Hideki (JPN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)

Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers

date	08-May-16	time	2.58	3.64	4.67	5.72	6.78	7.84	8.92	10.00	11.09	12.19		13.61	4 / 3			
reaction time	0.123	interval		1.06	1.03	1.05	1.06	1.06	1.08	1.08	1.09	1.10	1.42			3.14	3.20	3.27
wind	-0.6 m/s	velocity	5.32	8.62	8.87	8.70	8.62	8.62	8.46	8.46	8.39	8.31	9.87	8.08		8.73	8.57	8.39

Kanai, Taio (JPN) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2016 Japanese National Championships (Nagoya, JPN)

Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers

date	26-Jun-16	time	2.58	3.66	4.73	5.78	6.84	7.90	8.96	10.03	11.10	12.19		13.61	3 / 3			
reaction time	0.136	interval		1.08	1.07	1.05	1.06	1.06	1.06	1.07	1.07	1.09	1.42			3.20	3.18	3.23
wind	2.4 m/s	velocity	5.32	8.46	8.54	8.70	8.62	8.62	8.54	8.54	8.39	9.87	8.08			8.57	8.62	8.49

Yazawa, Wataru (JPN) (1991)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Japanese National Championships (Osaka, JPN)(2017) - tfdata-store.com/2017/07/13/post-1040/

date	25-Jun-17	time	2.61	3.69	4.74	5.78	6.83	7.88	8.93	9.99	11.07	12.17		13.61	8 / 2			
reaction time	0.144	interval	7 steps	1.08	1.05	1.04	1.05	1.05	1.05	1.06	1.08	1.10	1.44			3.17	3.15	3.24
wind	-0.2 m/s	velocity	5.26	8.46	8.70	8.79	8.70	8.70	8.70	8.62	8.46	8.31	9.74	8.08		8.65	8.70	8.46

Masuno, Genta (JPN) (1993)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Japanese National Championships (Osaka, JPN)(2017) - tfdata-store.com/2017/07/13/post-1040/

date	25-Jun-17	time	2.61	3.67	4.71	5.74	6.81	7.85	8.92	9.99	11.05	12.15		13.61	5 / 3			
reaction time	0.156	interval		1.06	1.04	1.03	1.07	1.04	1.07	1.07	1.06	1.10	1.46			3.13	3.18	3.23
wind	-0.2 m/s	velocity	5.26	8.62	8.79	8.87	8.54	8.79	8.54	8.54	8.62	8.31	9.60	8.08		8.76	8.62	8.49

Furuya, Takumu (JPN) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)

Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season

date	20-May-18	time	2.66	3.73	4.77	5.82	6.86	7.92	8.98	10.04	11.12	12.22		13.61	2 / 4			
reaction time	0.133	interval		1.07	1.04	1.05	1.04	1.06	1.06	1.06	1.08	1.10	1.39			3.16	3.16	3.24
wind	-0.4 m/s	velocity	5.16	8.54	8.79	8.70	8.79	8.62	8.62	8.62	8.46	8.31	10.09	8.08		8.68	8.68	8.46

Alkana, Antonio (RSA) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)

CAA Hurdle Development (2019)

date	21-May-19	time	2.55	3.60	4.66	5.72	6.76	7.81	8.87	9.95	11.03	12.14		13.61	3 / 7			
reaction time	0.140	interval		1.05	1.06	1.06	1.04	1.05	1.06	1.08	1.08	1.11	1.47			3.17	3.15	3.27
wind	0.1 m/s	velocity	5.38	8.70	8.62	8.62	8.79	8.70	8.62	8.46	8.46	8.23	9.54	8.08		8.65	8.70	8.39

Cabral, Johnathan (CAN) (1992)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)

Henson (2020) - Athlete First: 2019 year end hurdle report

date	06-Jun-19	time	2.60	3.68	4.71	5.75	6.78	7.83	8.88	9.95	11.00	12.11		13.61	1 / 8			
reaction time	0.142	interval	7 steps	1.08	1.03	1.04	1.03	1.05	1.05	1.07	1.05	1.11	1.50			3.15	3.13	3.23
wind	0.4 m/s	velocity	5.28	8.46	8.87	8.79	8.87	8.70	8.70	8.54	8.70	8.23	9.35	8.08		8.70	8.76	8.49

Alkana, Antonio (RSA) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)

Henson (2020) - Athlete First: 2019 year end hurdle report

date	06-Sep-19	time	2.48	3.56	4.60	5.64	6.70	7.76	8.82	9.88	10.96	12.04		13.61	8 / 7			
reaction time	0.136	interval		1.08	1.04	1.04	1.06	1.06	1.06	1.06	1.08	1.08	1.57			3.16	3.18	3.22
wind	0.0 m/s	velocity	5.53	8.46	8.79	8.79	8.62	8.62	8.62	8.62	8.46	8.46	8.93	8.08		8.68	8.62	8.52

Hough, Nicholas (AUS) (1993)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)

CAA Hurdle Development (2019)

date	02-Oct-19	time	2.66	3.72	4.77	5.78	6.84	7.90	8.93	10.00	11.06	12.15		13.61	2 / 8			
reaction time	0.176	interval	7 steps	1.06	1.05	1.01	1.06	1.06	1.03	1.07	1.06	1.09	1.46			3.12	3.15	3.22
wind	0.6 m/s	velocity	5.16	8.62	8.70	9.05	8.62	8.62	8.87	8.54	8.62	8.39	9.60	8.08		8.79	8.70	8.52

Brathwaite, Shane (BAR) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 IAAF World Championships (Doha, QAT)

CAA Hurdle Development (2019)

date	02-Oct-19	time	2.66	3.72	4.77	5.78	6.84	7.90	8.93	10.00	11.06	12.15		13.61	2 / 8			
reaction time	0.176	interval	7 steps	1.06	1.05	1.01	1.06	1.06	1.03	1.07	1.06	1.09	1.46			3.12	3.15	3.22
wind	0.6 m/s	velocity	5.16	8.62	8.70	9.05	8.62	8.62	8.87	8.54	8.62	8.39	9.60	8.08		8.79	8.70	8.52

[illegible]

reaction time	0.137	interval	1.10	1.05	1.05	1.06	1.07	1.04	1.06	1.07	1.06	1.41	PB	3.20	3.17	3.19	
wind	1.0 m/s	velocity	5.18	8.31	8.70	8.70	8.62	8.54	8.79	8.62	8.54	8.62	9.94	8.08	8.57	8.65	8.60

Moore, Anwar (USA) (1979)

Moore, Anwar (USA) (1979)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2007 USATF National Championships (Indianapolis, IN)														USATF Men's Hurdle Development (2007)			
date	23-Jun-07	time	2.60	3.67	4.69	5.76	6.79	7.87	8.93	10.00	11.06	12.15	13.62	3 / 1			
reaction time		interval	1.07	1.02	1.07	1.03	1.08	1.06	1.07	1.06	1.09	1.47			3.16	3.17	3.22
wind	-3.2 m/s	velocity	5.28	8.54	8.96	8.54	8.87	8.46	8.62	8.54	8.62	8.39	9.54	8.08	8.68	8.65	8.52

Tanonaka, Tasuku (JPN) (1978)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 Mikio Oda Memorial (Hiroshima, JPN) <i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>																
date	29-Apr-08	time	2.40	3.47	4.52	5.57	6.63	7.69	8.75	9.84	10.93	12.02	13.62	/ 2		
reaction time		interval	1.07	1.05	1.05	1.06	1.06	1.06	1.09	1.09	1.09	1.60		3.17	3.18	3.27
wind	1.6 m/s	velocity	5.72	8.54	8.70	8.70	8.62	8.62	8.39	8.39	8.39	8.76	8.08	8.65	8.62	8.39

Akins, Ty (USA) (1986)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER) <i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																
date	14-Sep-08	time	2.61	3.69	4.76	5.80	6.86	7.93	9.00	10.06	11.13	12.22	13.62	5 / 6		
reaction time	0.150	interval	1.08	1.07	1.04	1.06	1.07	1.07	1.06	1.07	1.09	1.40		3.19	3.20	3.22
wind	-1.3 m/s	velocity	5.26	8.46	8.54	8.79	8.62	8.54	8.62	8.54	8.39	10.01	8.08	8.60	8.57	8.52

Wignall, Maurice (JAM) (1976)

Iginall, Maurice (JAM) (1976)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 ISTAF (Berlin, GER)													Graubner (2009) - http://www.fgs.uni-halle.de				
date	14-Jun-09	time	2.61	3.69	4.71	5.78	6.80	7.85	8.93	9.99	11.08	12.19	13.62	5 / 5			
reaction time	0.189	interval	1.08	1.02	1.07	1.02	1.05	1.08	1.06	1.09	1.11	1.43			3.17	3.15	3.26
wind	0.7 m/s	velocity	5.26	8.46	8.96	8.54	8.96	8.70	8.46	8.62	8.39	8.23	9.80	8.08	8.65	8.70	8.41

Wignall, Maurice (JAM) (1976)

ignall, Maurice (JAM) (1976)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2009 IAAF World Championships (Berlin, GER)										Graubner (2009) - biomechanical analyses at the 12th IAAF world championships							
date	19-Aug-09	time	2.63	3.71	4.75	5.79	6.89	7.97	9.01	10.08	11.15	12.23	13.62	3 / 1			
reaction time	0.168	interval	1.08	1.04	1.04	1.10	1.08	1.04	1.07	1.07	1.08	1.39			3.16	3.22	3.22
wind	-0.2 m/s	velocity	5.22	8.46	8.79	8.79	8.31	8.46	8.79	8.54	8.54	8.46	10.09	8.08	8.68	8.52	8.52

Yazawa, Wataru (JPN) (1991)

Izawa, Wataru (JPN) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2013 Japanese National Championships (Chofu, JPN)										Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13							
date	08-Jun-13	time	2.61	3.70	4.75	5.79	6.83	7.88	8.95	10.03	11.12	12.21	13.62	6 / 1			
reaction time		interval	7 steps	1.09	1.05	1.04	1.04	1.05	1.07	1.08	1.09	1.09	1.41	PB	3.18	3.16	3.26
wind	0.1 m/s	velocity	5.26	8.39	8.70	8.79	8.79	8.70	8.54	8.46	8.39	8.39	9.94	8.08	8.62	8.68	8.41

Yazawa, Wataru (JPN) (1991)

Izawa, Wataru (JPN) (1991)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Kinan Memorial (Osaka, JPN) (2016.05.17) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																	
date	08-May-16	time	2.66	3.74	4.80	5.85	6.91	7.97	9.02	10.08	11.14	12.22	13.62	6 / 1			
reaction time		interval	7 steps	1.08	1.06	1.05	1.06	1.06	1.05	1.06	1.06	1.08	1.40		3.19	3.17	3.20
wind	-0.2 m/s	velocity	5.16	8.46	8.62	8.70	8.62	8.62	8.70	8.62	8.62	8.46	10.01	8.08	8.60	8.65	8.57

Yazawa, Wataru (JPN) (1991)

Izawa, Wataru (JPN) (1991)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 National Sports Festival (Kitakami, JPN) (2016.10.11) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																	
date	10-Oct-16	time	2.64	3.72	4.78	5.82	6.87	7.92	8.97	10.03	11.10	12.18	13.62	4 / 1			
reaction time	0.146	interval	7 steps	1.08	1.06	1.04	1.05	1.05	1.05	1.06	1.07	1.08	1.44		3.18	3.15	3.21
wind	0.3 m/s	velocity	5.20	8.46	8.62	8.79	8.70	8.70	8.70	8.62	8.54	8.46	9.74	8.08	8.62	8.70	8.54

Oliver, David (USA) (1982)

iver, David (USA) (1982)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)													Henson (2020) - Athlete First: 2017 year end hurdle report				
date	13-May-17	time	2.54	3.62	4.64	5.68	6.72	7.76	8.84	9.90	10.98	12.06	13.62	8 / 8			
reaction time	0.156	interval	7 steps	1.08	1.02	1.04	1.04	1.04	1.08	1.06	1.08	1.08	1.56		3.14	3.16	3.22
wind	0.5 m/s	velocity	5.40	8.46	8.96	8.79	8.79	8.79	8.46	8.62	8.46	8.46	8.99	8.08	8.73	8.68	8.52

Takayama, Shunya (JPN) (1994)

Takayama, Shunya (JPN) (1994)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Fuse Sprint (Tottori, JPN)																	
(2017) - tfdata-store.com/2017/06/04/post-848/																	
date	04-Jun-17	time	2.62	3.67	4.72	5.77	6.82	7.87	8.93	10.00	11.08	12.18	13.62	5 / 2			
reaction time		interval	1.05	1.05	1.05	1.05	1.05	1.06	1.07	1.08	1.10	1.44		3.15	3.16	3.25	
wind	3.2 m/s	velocity	5.24	8.70	8.70	8.70	8.70	8.70	8.62	8.54	8.46	8.31	9.74	8.08	8.70	8.68	8.44

Kanai, Taio (JPN) (1995)

Anai, Taio (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)														(2017) - tfdata-store.com/2017/07/13/post-1040/			
date	24-Jun-17	time	2.57	3.63	4.67	5.71	6.77	7.84	8.91	9.99	11.08	12.18	13.62	6 / 2			
reaction time	0.135	interval	7 steps	1.06	1.04	1.04	1.06	1.07	1.07	1.08	1.09	1.10	1.44	PB	3.14	3.20	3.27
wind	0.0 m/s	velocity	5.34	8.62	8.79	8.79	8.62	8.54	8.54	8.46	8.39	8.31	9.74	8.08	8.73	8.57	8.39

Noga, Artur (POL) (1988)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Golden Spike (Ostrava, CZE) (TV Analysis) <i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																
date	28-Jun-17	time	2.56	3.64	4.70	5.72	6.76	7.80	8.84	9.90	10.98	12.10	13.62	1 / 8		
reaction time	0.164	interval	7 steps	1.08	1.06	1.02	1.04	1.04	1.06	1.08	1.12	1.52		3.16	3.12	3.26

wind	0.6 m/s	velocity	5.36	8.46	8.62	8.96	8.79	8.79	8.79	8.62	8.46	8.16	9.22	8.08		8.68	8.79	8.41
Zeng Jianhang (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	21-May-19	time	2.59	3.64	4.70	5.73	6.76	7.82	8.87	9.95	11.04	12.16		13.62	10 / 8			
reaction time	0.146	interval	1.05	1.06	1.03	1.03	1.06	1.05	1.08	1.09	1.12	1.46		PB		3.14	3.14	3.29
wind	0.1 m/s	velocity	5.30	8.70	8.62	8.87	8.87	8.62	8.70	8.46	8.39	8.16	9.60	8.08		8.73	8.73	8.33
Kuriki, Anthony Tyrell (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	07-Jun-19	time	2.60	3.70	4.74	5.79	6.82	7.86	8.92	9.99	11.07	12.17		13.62	4 / 3			
reaction time	0.130	interval	7 steps	1.10	1.04	1.05	1.03	1.04	1.06	1.07	1.08	1.10	1.45			3.19	3.13	3.25
wind	1.2 m/s	velocity	5.28	8.31	8.79	8.70	8.87	8.79	8.62	8.54	8.46	8.31	9.67	8.08		8.60	8.76	8.44
Masuno, Genta (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Athlete Night Games (Fukui, JPN)			<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>															
date	29-Aug-20	time	2.61	3.67	4.72	5.75	6.81	7.88	8.94	10.00	11.09	12.19		13.62	1 / 7			
reaction time		interval	1.06	1.05	1.03	1.06	1.07	1.06	1.06	1.09	1.10	1.43				3.14	3.19	3.25
wind	1.4 m/s	velocity	5.26	8.62	8.70	8.87	8.62	8.54	8.62	8.62	8.39	8.31	9.80	8.08		8.73	8.60	8.44
Zeng Jianhang (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	24-Apr-21	time	2.56	3.62	4.66	5.69	6.72	7.77	8.84	9.91	11.00	12.10		13.62	5 / 1			
reaction time	0.151	interval	1.06	1.04	1.03	1.03	1.05	1.07	1.07	1.09	1.10	1.52				3.13	3.15	3.26
wind	-1.2 m/s	velocity	5.36	8.62	8.79	8.87	8.87	8.70	8.54	8.54	8.39	8.31	9.22	8.08		8.76	8.70	8.41
Chen Kuei-Ru (TPE) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)			<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>															
date	09-May-21	time	2.58	3.61	4.65	5.69	6.73	7.77	8.84	9.92	11.02	12.13		13.62	2 / 5			
reaction time	0.161	interval	7 steps	1.03	1.04	1.04	1.04	1.04	1.07	1.08	1.10	1.11	1.49			3.11	3.15	3.29
wind	-0.8 m/s	velocity	5.32	8.87	8.79	8.79	8.79	8.79	8.54	8.46	8.31	8.23	9.41	8.08		8.82	8.70	8.33
Pereira, Rafael (BRA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>															
date	04-Aug-21	time	2.61	3.64	4.69	5.72	6.78	7.82	8.89	9.94	11.04	12.14		13.62	5 / 6			
reaction time	0.154	interval	1.03	1.05	1.03	1.06	1.04	1.07	1.05	1.10	1.10	1.48				3.11	3.17	3.25
wind	-0.1 m/s	velocity	5.26	8.87	8.70	8.87	8.62	8.79	8.54	8.70	8.31	8.31	9.47	8.08		8.82	8.65	8.44
Rodrigues, Eduardo (BRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	17-Jul-22	time	2.63	3.70	4.73	5.76	6.86	7.90	8.93	10.00	11.03	12.13		13.62	7 / 8			
reaction time	0.130	interval	7 steps	1.07	1.03	1.03	1.10	1.04	1.03	1.07	1.03	1.10	1.49			3.13	3.17	3.20
wind	0.3 m/s	velocity	5.22	8.54	8.87	8.87	8.31	8.79	8.87	8.54	8.87	8.31	9.41	8.08		8.76	8.65	8.57
Ishida Thomas, Higashi (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)			<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>															
date	29-Apr-23	time	2.59	3.64	4.70	5.73	6.79	7.84	8.92	9.97	11.07	12.17		13.62	3 / 5			
reaction time	0.146	interval	7 steps	1.05	1.06	1.03	1.06	1.05	1.08	1.05	1.10	1.10	1.45			3.14	3.19	3.25
wind	0.3 m/s	velocity	5.30	8.70	8.62	8.87	8.62	8.70	8.46	8.70	8.31	8.31	9.67	8.08		8.73	8.60	8.44
Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Mikio Oda Memorial (Hiroshima, JPN)			<i>Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season</i>															
date	29-Apr-24	time	2.63	3.71	4.75	5.80	6.85	7.90	8.95	10.03	11.09	12.18		13.62	7 / 4			
reaction time	0.177	interval	7 steps	1.08	1.04	1.05	1.05	1.05	1.05	1.08	1.06	1.09	1.44			3.17	3.15	3.23
wind	-0.6 m/s	velocity	4.94	7.87	8.17	8.10	8.10	8.10	7.87	8.02	7.80	9.74		8.08		8.65	8.70	8.49
Kim Kyung-Tae (KOR) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Michitaka Kinami Memorial (Osaka, JPN)			<i>Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season</i>															
date	12-May-24	time	2.59	3.66	4.69	5.75	6.80	7.85	8.90	9.96	11.04	12.12		13.62	2 / 5			
reaction time	0.156	interval	1.07	1.03	1.06	1.05	1.05	1.05	1.06	1.08	1.08	1.50		PB		3.16	3.15	3.22
wind	0.9 m/s	velocity	5.30	8.54	8.87	8.62	8.70	8.70	8.62	8.46	8.46	9.35		8.08		8.68	8.70	8.52
Zhu Shenglong (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)			<i>Shandong Athletics Sport Science (2024)</i>															
date	30-Jun-24	time	2.62	3.67	4.69	5.72	6.74	7.80	8.86	9.93	11.02	12.13		13.62	5 / 6			
reaction time	0.148	interval	7 steps	1.05	1.02	1.03	1.02	1.06	1.06	1.07	1.09	1.11	1.49			3.10	3.14	3.27
wind	0.9 m/s	velocity	5.24	8.70	8.96	8.87	8.96	8.62	8.62	8.54	8.39	8.23	9.41	8.08		8.85	8.73	8.39
Warner, Damion (CAN) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)			<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	03-Aug-24	time	2.44	3.53	4.57	5.63	6.67	7.71	8.76	9.83	10.92	12.00		13.62	3 / 1			
reaction time	0.144	interval	7 steps	1.09	1.04	1.06	1.04	1.04	1.05	1.07	1.09	1.08	1.62			3.19	3.13	3.24
wind	0.7 m/s	velocity	5.62	8.39	8.79	8.62	8.79	8.79	8.70	8.54	8.39	8.46	8.65	8.08		8.60	8.76	8.46

															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Thorne, Craig (CAN) (2001)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
Repechage 1 - 2024 Olympic Games (Paris, FRA)																														
date	06-Aug-24	time	2.47	3.57	4.63	5.66	6.70	7.75	8.80	9.87	10.94	12.04		13.62		4 / 5														
reaction time	0.167	interval		1.10	1.06	1.03	1.04	1.05	1.05	1.07	1.07	1.10	1.58				3.19	3.14	3.24											
wind	0.2 m/s	velocity	5.55	8.31	8.62	8.87	8.79	8.70	8.70	8.54	8.54	8.31	8.87	8.08			8.60	8.73	8.46											
Oschkenat, Andreas (GDR) (1962)															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1986 East German National Championships (Jena, GDR)															<i>Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes</i>															
date	27-Jun-86	time	2.62	3.68	4.73	5.76	6.82	7.88	8.95	10.01	11.10	12.17		13.63		1 / 2														
reaction time		interval		1.06	1.05	1.03	1.06	1.06	1.07	1.06	1.09	1.07	1.46				3.14	3.19	3.22											
wind	1.7 m/s	velocity	5.24	8.62	8.70	8.87	8.62	8.62	8.54	8.62	8.39	8.54	9.60	8.07			8.73	8.60	8.52											
Touret, Philippe (FRA) (1967)															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1991 European Cup (Frankfurt, GER)															<i>Federle (2003) - http://www.fgs.uni-halle.de</i>															
date	30-Jun-91	time	2.63	3.72	4.77	5.82	6.87	7.93	8.97	10.07	11.09	12.20		13.63		1 / 3														
reaction time		interval		1.09	1.05	1.05	1.05	1.06	1.04	1.10	1.02	1.11	1.43				3.19	3.15	3.23											
wind	-0.9 m/s	velocity	5.22	8.39	8.70	8.70	8.70	8.62	8.79	8.31	8.96	8.23	9.80	8.07			8.60	8.70	8.49											
Jarrett, Tony (GBR) (1968)															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2002 European Championships (Munich, GER)															<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>															
date	09-Aug-02	time	2.66	3.72	4.78	5.80	6.86	7.90	8.96	10.01	11.09	12.19		13.63		1 / 2														
reaction time	0.153	interval		1.06	1.06	1.02	1.06	1.04	1.06	1.05	1.08	1.10	1.44				3.14	3.16	3.23											
wind	-0.1 m/s	velocity	5.16	8.62	8.62	8.96	8.62	8.79	8.62	8.70	8.46	8.31	9.74	8.07			8.73	8.68	8.49											
Kronberg, Robert (SWE) (1976)															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 European Championships (Munich, GER)															<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>															
date	10-Aug-02	time	2.63	3.67	4.71	5.76	6.77	7.85	8.89	9.95	11.06	12.15		13.63		1 / 7														
reaction time	0.134	interval		1.04	1.04	1.05	1.01	1.08	1.04	1.06	1.11	1.09	1.48				3.13	3.13	3.26											
wind	0.4 m/s	velocity	5.22	8.79	8.79	8.70	9.05	8.46	8.79	8.62	8.23	8.39	9.47	8.07			8.76	8.76	8.41											
Douvalidis, Konstadinos (GRE) (198															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 European Cup (Munich, GER)															<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>															
date	24-Jun-07	time	2.63	3.70	4.74	5.79	6.83	7.91	8.97	10.03	11.10	12.20		13.63		1 / 5														
reaction time	0.141	interval		1.07	1.04	1.05	1.04	1.08	1.06	1.06	1.07	1.10	1.43				3.16	3.18	3.23											
wind	0.4 m/s	velocity	5.22	8.54	8.79	8.70	8.79	8.46	8.62	8.62	8.54	8.31	9.80	8.07			8.68	8.62	8.49											
Townsend, Fred (USA) (1982)															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 Windsprint (Sundsvall, SWE)															<i>(2008) - www.ssg.se/en/Windsprint/Split-times/</i>															
date	06-Jul-08	time		3.72			6.78			10.04				13.63		4 / 1														
reaction time		interval					3.06			3.26			3.59																	
wind	0.5 m/s	velocity		6.15			8.96			8.41			9.00	8.07																
Quiñónez, Jackson (ESP) (1980)															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2009 IAAF World Championships (Berlin, GER)															<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>															
date	19-Aug-09	time	2.70	3.76	4.79	5.82	6.84	7.88	8.92	9.98	11.06	12.16		13.63		8 / 3														
reaction time	0.221	interval		1.06	1.03	1.03	1.02	1.04	1.04	1.06	1.08	1.10	1.47				3.12	3.10	3.24											
wind	-0.4 m/s	velocity	5.08	8.62	8.87	8.87	8.96	8.79	8.79	8.62	8.46	8.31	9.54	8.07			8.79	8.85	8.46											
Yazawa, Wataru (JPN) (1991)															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2013 Japanese National Championships (Chofu, JPN)															<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	09-Jun-13	time	2.62	3.71	4.75	5.82	6.86	7.91	8.97	10.03	11.11	12.21		13.63		6 / 1														
reaction time		interval	7 steps	1.09	1.04	1.07	1.04	1.05	1.06	1.06	1.08	1.10	1.42				3.20	3.15	3.24											
wind	1.2 m/s	velocity	5.24	8.39	8.79	8.54	8.79	8.70	8.62	8.62	8.46	8.31	9.87	8.07			8.57	8.70	8.46											
Omuro, Hideki (JPN) (1990)															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Tokushima Athletics Carnival (Naruto, JPN)															<i>(2017) - tfdata-store.com/2017/04/09/post-285/</i>															
date	08-Apr-17	time	2.65	3.74	4.79	5.86	6.91	7.96	9.03	10.10	11.16	12.23		13.63		6 / 1														
reaction time		interval		1.09	1.05	1.07	1.05	1.05	1.07	1.07	1.06	1.07	1.40				3.21	3.17	3.20											
wind	0.7 m/s	velocity	5.18	8.39	8.70	8.54	8.70	8.70	8.54	8.54	8.62	8.54	10.01	8.07			8.54	8.65	8.57											
Kanai, Taio (JPN) (1995)															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)															<i>(2017) - tfdata-store.com/2017/06/08/914/</i>															
date	26-May-17	time	2.58	3.63	4.68	5.74	6.80	7.87	8.93	10.01	11.09	12.21		13.63		5 / 1														
reaction time	0.149	interval	7 steps	1.05	1.05	1.06	1.06	1.07	1.06	1.08	1.08	1.12	1.42	PB			3.16	3.19	3.28											
wind	0.4 m/s	velocity	5.32	8.70	8.70	8.62	8.62	8.54	8.62	8.46	8.46	8.16	9.87	8.07			8.68	8.60	8.36											
Takayama, Shunya (JPN) (1994)															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2017 Fuse Sprint (Tottori, JPN)															<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>															
date	04-Jun-17	time	2.57	3.61	4.68	5.73	6.77	7.82	8.89	9.96	11.04	12.16		13.63		5 / 3														
reaction time		interval		1.04	1.07	1.05	1.04	1.05	1.07	1.07	1.08	1.12	1.47				3.16	3.16	3.27											
wind	1.5 m/s	velocity	5.34	8.79	8.54	8.70	8.79	8.70	8.54	8.54	8.46	8.16	9.54	8.07			8.68	8.68	8.39											

FINAL - 2022 Japanese U20 National Championships (Osaka, JPN) (99cm)

date	12-Jun-22	time	2.65	3.72	4.78	5.83	6.87	7.90	9.00	10.08	11.14	12.23	13.63	6 / 4			
reaction time	0.145	interval		1.07	1.06	1.05	1.04	1.03	1.10	1.08	1.06	1.09	1.40	PB	3.18	3.17	3.23
wind	1.1 m/s	velocity	5.18	8.54	8.62	8.70	8.79	8.87	8.31	8.46	8.62	8.39	10.01	8.07	8.62	8.65	8.49

Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season

Fujii, Ryota (JPN) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2022 Japanese National Championships (Osaka, JPN)

Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season

date	12-Jun-22	time	2.58	3.65	4.70	5.73	6.76	7.82	8.89	9.97	11.05	12.15	13.63	9 / 6			
reaction time	0.145	interval		1.07	1.05	1.03	1.03	1.06	1.07	1.08	1.08	1.10	1.48		3.15	3.16	3.26
wind	-1.2 m/s	velocity	5.32	8.54	8.70	8.87	8.87	8.62	8.54	8.46	8.46	8.31	9.47	8.07	8.70	8.68	8.41

Tokuoka, Ryo (JPN) (1999)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)

Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season

date	07-May-23	time	2.65	3.73	4.77	5.81	6.86	7.92	8.98	10.03	11.11	12.20	13.63	3 / 5			
reaction time	0.168	interval	7 steps	1.08	1.04	1.04	1.05	1.06	1.06	1.05	1.08	1.09	1.43		3.16	3.17	3.22
wind	-0.3 m/s	velocity	5.18	8.46	8.79	8.79	8.70	8.62	8.62	8.70	8.46	8.39	9.80	8.07	8.68	8.65	8.52

Yokochi, Taiga (JPN) (2000)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 Mikio Oda Memorial (Hiroshima, JPN)

Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season

date	29-Apr-24	time	2.68	3.78	4.80	5.86	6.92	7.96	9.00	10.05	11.13	12.23	13.63	8 / 5			
reaction time	0.204	interval	7 steps	1.10	1.02	1.06	1.06	1.04	1.04	1.05	1.08	1.10	1.40		3.18	3.14	3.23
wind	-0.6 m/s	velocity	4.85	7.73	8.33	8.02	8.02	8.17	8.17	8.10	7.87	7.73	10.01	8.07	8.62	8.73	8.49

Abe, Tatsuki (JPN) (2003)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 Seiko Golden Grand Prix (Tokyo, JPN)

Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season

date	19-May-24	time	2.61	3.69	4.77	5.83	6.88	7.95	9.00	10.09	11.14	12.25	13.63	2 / 6			
reaction time	0.140	interval	7 steps	1.08	1.08	1.06	1.05	1.07	1.05	1.09	1.05	1.11	1.38		3.22	3.17	3.25
wind	-0.6 m/s	velocity	5.26	8.46	8.46	8.62	8.70	8.54	8.70	8.39	8.70	8.23	10.16	8.07	8.52	8.65	8.44

Brackins, Johnny (USA) (2003)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)

Henson (2024) - Athlete First: 2024 year end hurdle report

date	07-Jun-24	time	2.53	3.60	4.64	5.71	6.77	7.82	8.91	10.01	11.06	12.18	13.63	7 / 9			
reaction time		interval	7 steps	1.07	1.04	1.07	1.06	1.05	1.09	1.10	1.05	1.12	1.45		3.18	3.20	3.27
wind	0.1 m/s	velocity	5.42	8.54	8.79	8.54	8.62	8.70	8.39	8.31	8.70	8.16	9.67	8.07	8.62	8.57	8.39

Bownes, Shaun (RSA) (1970)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)

Henson (2024) - Athlete First: 2024 year end hurdle report

date	24-Jun-24	time	2.60	3.63	4.66	5.73	6.78	7.83	8.90	9.95	11.03	12.13	13.63	3 / 7			
reaction time		interval	7 steps	1.03	1.03	1.07	1.05	1.05	1.07	1.05	1.08	1.10	1.50		3.13	3.17	3.23
wind	-0.3 m/s	velocity	5.28	8.87	8.87	8.54	8.70	8.70	8.54	8.70	8.46	8.31	9.35	8.07	8.76	8.65	8.49

Diessl, Enzo (AUT) (2004)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	04-Aug-24	time	2.50	3.60	4.65	5.69	6.75	7.79	8.84	9.91	10.96	12.04	13.63	2 / 6			
reaction time	0.203	interval	7 steps	1.10	1.05	1.04	1.06	1.04	1.05	1.07	1.05	1.08	1.59		3.19	3.15	3.20
wind	1.2 m/s	velocity	5.49	8.31	8.70	8.79	8.62	8.79	8.70	8.54	8.70	8.46	8.82	8.07	8.60	8.70	8.57

Willis, Tayleb (AUS) (2003)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 5 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	04-Aug-24	time	2.37	3.46	4.53	5.58	6.62	7.69	8.75	9.84	10.94	12.04	13.63	2 / 5			
reaction time	0.153	interval		1.09	1.07	1.05	1.04	1.07	1.06	1.09	1.10	1.10	1.59		3.21	3.17	3.29
wind	0.7 m/s	velocity	5.79	8.39	8.54	8.70	8.79	8.54	8.62	8.39	8.31	8.31	8.82	8.07	8.54	8.65	8.33

Szymański, Jakub (POL) (2002)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Repechage 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	06-Aug-24	time	2.43	3.51	4.53	5.55	6.56	7.58	8.63	9.69	10.78	11.91	13.63	5 / 4			
reaction time	0.153	interval	7 steps	1.08	1.02	1.02	1.01	1.02	1.05	1.06	1.09	1.13	1.72		3.12	3.08	3.28
wind	-1.1 m/s	velocity	5.65	8.46	8.96	8.96	9.05	8.96	8.70	8.62	8.40	8.07	8.15	8.07	8.79	8.90	8.36

Kazanov, Igor (URS) (1963)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1991 European Cup (Frankfurt, GER)Federle (2003) - <http://www.fgs.uni-halle.de>

date	30-Jun-91	time	2.54	3.64	4.69	5.75	6.79	7.86	8.93	9.99	11.09	12.18	13.64	1 / 4			
reaction time		interval		1.10	1.05	1.06	1.04	1.07	1.07	1.06	1.10	1.09	1.46		3.21	3.18	3.25
wind	-0.9 m/s	velocity	5.40	8.31	8.70	8.62	8.79	8.54	8.54	8.62	8.31	8.39	9.60	8.06	8.54	8.62	8.44

Monachon, Raphael (SUI) (1973)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Race 3 - 2004 Atletica (Genève, SUI)

Weber (2004) - wettkampfauswertung 110m hürden

date	12-Jun-04	time	2.70	3.78	4.80	5.84	6.86	7.96	9.02	10.09	11.16	12.26	13.64	1 / 3			
reaction time	0.200	interval		1.08	1.02	1.04	1.02	1.10	1.06	1.07	1.07	1.10	1.38		3.14	3.18	3.24
wind	1.0 m/s	velocity	5.08	8.46	8.96	8.79	8.96	8.31	8.62	8.54	8.54	8.31	10.16	8.06	8.73	8.62	8.46

Naito, Masato (JPN) (1980)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2006 Osaka Grand Prix (Osaka, JPN)

Akirabun (2007) - speed analysis of the 100m and hurdles with a laser system

date	06-May-06	time	2.46	3.53	4.58	5.60	6.64	7.69	8.75	9.82	10.91	12.02	13.64	/ 3				
reaction time		interval		1.07	1.05	1.02	1.04	1.05	1.06	1.07	1.09	1.11	1.62			3.14	3.15	3.27
wind	1.2 m/s	velocity	5.58	8.54	8.70	8.96	8.79	8.70	8.62	8.54	8.39	8.23	8.65	8.06		8.73	8.70	8.39
Naito, Masato (JPN) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 Mikio Oda Memorial (Hiroshima, JPN)			Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles															
date	29-Apr-07	time	2.42	3.50	4.55	5.59	6.64	7.69	8.75	9.82	10.90	12.01	13.64	/ 1				
reaction time		interval		1.08	1.05	1.04	1.05	1.05	1.06	1.07	1.08	1.11	1.63			3.17	3.16	3.26
wind	0.0 m/s	velocity	5.67	8.46	8.70	8.79	8.70	8.70	8.62	8.54	8.46	8.23	8.60	8.06		8.65	8.68	8.41
Wilson, Ryan (USA) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2007 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2007)															
date	23-Jun-07	time	2.65	3.70	4.77	5.86	6.89	7.93	8.98	10.04	11.11	12.18	13.64	5 / 2				
reaction time		interval		1.05	1.07	1.09	1.03	1.04	1.05	1.06	1.07	1.07	1.46			3.21	3.12	3.20
wind	-3.2 m/s	velocity	5.18	8.70	8.54	8.39	8.87	8.79	8.70	8.62	8.54	8.54	9.60	8.06		8.54	8.79	8.57
Tanonaka, Tasuku (JPN) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 Nambu Chuhei Memorial (Harodate, JPN)			Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles															
date	06-Jul-08	time	2.44	3.52	4.57	5.62	6.67	7.74	8.81	9.88	10.95	12.04	13.64	/ 1				
reaction time		interval		1.08	1.05	1.05	1.05	1.07	1.07	1.07	1.07	1.09	1.60			3.18	3.19	3.23
wind	0.5 m/s	velocity	5.62	8.46	8.70	8.70	8.70	8.54	8.54	8.54	8.54	8.39	8.76	8.06		8.62	8.60	8.49
John, Alexander (GER) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)			Graubner (2009) - biomechanical analyses at the 12th IAAF world championships															
date	20-Aug-09	time	2.65	3.71	4.77	5.84	6.89	7.95	9.03	10.09	11.17	12.27	13.64	6 / 8				
reaction time	0.185	interval		1.06	1.06	1.07	1.05	1.06	1.08	1.06	1.08	1.10	1.37			3.19	3.19	3.24
wind	0.6 m/s	velocity	5.18	8.62	8.62	8.54	8.70	8.62	8.46	8.62	8.46	8.31	10.23	8.06		8.60	8.60	8.46
Townsend, Fred (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 Windsprint (Sundsvall, SWE)			Blomkvist (2010) - www.sub13.se															
date	08-Aug-10	time	2.61	3.68	4.74	5.79	6.82	7.88	8.94	9.99	11.08	12.16	13.64	/ 1				
reaction time		interval		1.07	1.06	1.05	1.03	1.06	1.06	1.05	1.09	1.08	1.48			3.18	3.15	3.22
wind	1.1 m/s	velocity	5.26	8.54	8.62	8.70	8.87	8.62	8.62	8.70	8.39	8.46	9.47	8.06		8.62	8.70	8.52
Xie Wenjun (CHN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Golden Grand Prix (Shanghai, CHN) (TV Analysis)			Henson (2020) - Athlete First: 2012 Aries Merritt world record season															
date	19-May-12	time	2.54	3.64	4.68	5.74	6.78	7.82	8.88	9.96	11.06	12.14	13.64	8 / 8				
reaction time	0.179	interval		1.10	1.04	1.06	1.04	1.04	1.06	1.08	1.10	1.08	1.50			3.20	3.14	3.26
wind	0.4 m/s	velocity	5.40	8.31	8.79	8.62	8.79	8.79	8.62	8.46	8.31	8.46	9.35	8.06		8.57	8.73	8.41
Bühler, Matthias (GER) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Windsprint (Sundsvall, SWE)			(2013) - www.ssg.se/windsprint/Splittider/															
date	28-Jul-13	time	2.72	3.78	4.84	5.87	6.92	7.95	8.99	10.03	11.07	12.14	13.64	7 / 3				
reaction time		interval		1.06	1.06	1.03	1.05	1.03	1.04	1.04	1.04	1.07	1.50			3.15	3.12	3.15
wind	1.7 m/s	velocity	5.04	8.62	8.62	8.87	8.70	8.87	8.79	8.79	8.79	8.54	9.35	8.06		8.70	8.79	8.70
Svoboda, Petr (CZE) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)			Feher (2014) - Final report from the Czech Republic national championships															
date	02-Aug-14	time	2.57	3.65	4.70	5.75	6.81	7.87	8.92	9.98	11.05	12.15	13.64	4 / 1				
reaction time	0.133	interval		1.08	1.05	1.05	1.06	1.06	1.05	1.06	1.07	1.10	1.49			3.18	3.17	3.23
wind	-1.6 m/s	velocity	5.34	8.46	8.70	8.70	8.62	8.62	8.70	8.62	8.54	8.31	9.41	8.06		8.62	8.65	8.49
Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 East Japan Corporate Championships (Kumagaya, JPN)			(2016.05.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	21-May-16	time	2.66	3.74	4.79	5.85	6.90	7.96	9.03	10.09	11.16	12.24	13.64	5 / 1				
reaction time		interval	7 steps	1.08	1.05	1.06	1.05	1.06	1.07	1.06	1.07	1.08	1.40			3.19	3.18	3.21
wind	-0.7 m/s	velocity	5.16	8.46	8.70	8.62	8.70	8.62	8.54	8.62	8.54	8.46	10.01	8.06		8.60	8.62	8.54
Brathwaite, Shane (BAR) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)			Henson (2020) - Athlete First: 2016 year end hurdle report															
date	02-Jun-16	time	2.52	3.58	4.62	5.66	6.70	7.74	8.80	9.86	10.96	12.10	13.64	3 / 4				
reaction time	0.133	interval	7 steps	1.06	1.04	1.04	1.04	1.04	1.06	1.06	1.10	1.14	1.54			3.14	3.14	3.30
wind	0.6 m/s	velocity	5.44	8.62	8.79	8.79	8.79	8.79	8.62	8.62	8.31	8.02	9.10	8.06		8.73	8.73	8.31
Czykier, Damian (POL) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)			Henson (2021) - Athlete First: 2016 year end hurdle report															
date	15-Jul-16	time	2.56	3.58	4.62	5.66	6.70	7.72	8.80	9.88	10.96	12.08	13.64	1 / 6				
reaction time	0.157	interval	7 steps	1.02	1.04	1.04	1.04	1.02	1.08	1.08	1.08	1.12	1.56			3.10	3.14	3.28
wind	0.0 m/s	velocity	5.36	8.96	8.79	8.79	8.79	8.96	8.46	8.46	8.46	8.16	8.99	8.06		8.85	8.73	8.36
Omoregie, David (GBR) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)			Henson (2021) - Athlete First: 2016 year end hurdle report															
date	23-Jul-16	time	2.50	3.60	4.63	5.70	6.78	7.83	8.90	10.02	11.08	12.16	13.64	4 / 5				

reaction time	0.153	interval	1.10	1.03	1.07	1.08	1.05	1.07	1.12	1.06	1.08	1.48			3.20	3.20	3.26
wind	-1.0 m/s	velocity	5.49	8.31	8.87	8.54	8.46	8.70	8.54	8.16	8.62	8.46	9.47	8.06	8.57	8.57	8.41

Manga, Aurel (FRA) (1992)

Anga, Aurel (FRA) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)													Henson (2020) - Athlete First: 2016 year end hurdle report				
date	09-Sep-16	time	2.50	3.57	4.60	5.62	6.64	7.69	8.75	9.81	10.91	12.06	13.64	1 / 9			
reaction time	0.173	interval	7 steps	1.07	1.03	1.02	1.02	1.05	1.06	1.06	1.10	1.15	1.58		3.12	3.13	3.31
wind	0.2 m/s	velocity	5.49	8.54	8.87	8.96	8.96	8.70	8.62	8.62	8.31	7.95	8.87	8.06	8.79	8.76	8.28

Henson (2020) - Athlete First: 2016 year end hurdle report
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Higuchi, Rikuto (JPN) (1999)

Guchi, Rikuto (JPN) (1999)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm) (2016.10.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																	
date	21-Oct-16	time	2.63	3.70	4.75	5.81	6.87	7.92	8.98	10.06	11.12	12.23		13.64		3 / 1	
reaction time		interval	1.07	1.05	1.06	1.06	1.05	1.06	1.08	1.06	1.11	1.41		NYR	3.18	3.17	3.25
wind	-0.1 m/s	velocity	5.22	8.54	8.70	8.62	8.62	8.70	8.62	8.46	8.62	8.23	9.94	8.06	8.62	8.65	8.44

(2016.10.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en
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Kim Byung-Jun (KOR) (1991)

Byung-Jun (KOR) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)															(2017) - tdata-store.com/2017/05/01/458/		
date	29-Apr-17	time	2.63	3.69	4.75	5.80	6.85	7.90	8.96	10.01	11.08	12.15	13.64	4 / 2			
reaction time		interval	7 steps	1.06	1.06	1.05	1.05	1.05	1.06	1.05	1.07	1.07	1.49		3.17	3.16	3.19
wind	1.5 m/s	velocity	5.22	8.62	8.62	8.70	8.70	8.70	8.62	8.70	8.54	8.54	9.41	8.06	8.65	8.68	8.60

(2017) - tdata-store.com/2017/05/01/458/

Cabral, Johnathan (CAN) (1992)

Abbral, Johnathan (CAN) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)													Henson (2020) - Athlete First: 2017 year end hurdle report				
date	29-Apr-17	time	2.63	3.70	4.73	5.76	6.80	7.80	8.83	9.90	10.98	12.10	13.64	6 / 7			
reaction time		interval	7 steps	1.07	1.03	1.03	1.04	1.00	1.03	1.07	1.08	1.12	1.54		3.13	3.07	3.27
wind	1.8 m/s	velocity	5.22	8.54	8.87	8.87	8.79	9.14	8.87	8.54	8.46	8.16	9.10	8.06	8.76	8.93	8.39

Henson (2020) - Athlete First: 2017 year end hurdle report
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Tanaka, Shinya (JPN) (1993)

Osaka, Shinya (JPN) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2017 Japanese National Championships (Osaka, JPN)														(2017) - tfdata-store.com/2017/07/13/post-1040/			
date	24-Jun-17	time	2.62	3.69	4.74	5.78	6.84	7.88	8.95	10.02	11.11	12.19	13.64	6 / 1			
reaction time	0.148	interval	7 steps	1.07	1.05	1.04	1.06	1.04	1.07	1.07	1.09	1.08	1.45	PB	3.16	3.17	3.24
wind	0.0 m/s	velocity	5.24	8.54	8.70	8.79	8.62	8.79	8.54	8.54	8.39	8.46	9.67	8.06	8.68	8.65	8.46

(2017) - tdata-store.com/2017/07/13/post-1040/

Kuriki, Anthony Tyrell (JPN) (1996)

Kuriki, Anthony Tyrell (JPN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)												Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season					
date	29-Apr-18	time	2.66	3.73	4.77	5.82	6.86	7.92	8.98	10.04	11.12	12.22	13.64	4 / 4			
reaction time		interval	1.07	1.04	1.05	1.04	1.06	1.06	1.06	1.08	1.10	1.42			3.16	3.16	3.24
wind	2.6 m/s	velocity	5.16	8.54	8.79	8.70	8.79	8.62	8.62	8.62	8.46	8.31	9.87	8.06	8.68	8.68	8.46

Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season
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Masuno, Genta (JPN) (1993)

asuno, Genta (JPN) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)												Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season					
date	06-May-18	time	2.61	3.66	4.73	5.77	6.83	7.87	8.91	10.00	11.10	12.20	13.64	7 / 1			
reaction time		interval		1.05	1.07	1.04	1.06	1.04	1.04	1.09	1.10	1.10	1.44		3.16	3.14	3.29
wind	1.6 m/s	velocity	5.26	8.70	8.54	8.79	8.62	8.79	8.79	8.39	8.31	8.31	9.74	8.06	8.68	8.73	8.33

Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season
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Kuriki, Anthony Tyrell (JPN) (1996)

Uraki, Anthony Tyrell (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)													Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season					
date	20-May-18	time	2.64	3.71	4.78	5.83	6.89	7.95	9.01	10.09	11.17	12.25		13.64	3 / 5			
reaction time	0.134	interval	7 steps	1.07	1.07	1.05	1.06	1.06	1.06	1.08	1.08	1.08	1.39			3.19	3.18	3.24
wind	-0.4 m/s	velocity	5.20	8.54	8.54	8.70	8.62	8.62	8.62	8.46	8.46	8.46	10.09	8.06		8.60	8.62	8.46

Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season
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Cunningham, Trey (USA) (1998)

Lunningham, Trey (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)													Henson (2020) - Athlete First: 2018 year end hurdle report				
date	08-Jun-18	time	2.58	3.65	4.68	5.72	6.76	7.80	8.85	9.90	11.00	12.08	13.64	8 / 4			
reaction time		interval		1.07	1.03	1.04	1.04	1.04	1.05	1.05	1.10	1.08	1.56		3.14	3.13	3.23
wind	-1.1 m/s	velocity	5.32	8.54	8.87	8.79	8.79	8.79	8.70	8.70	8.31	8.46	8.99	8.06	8.73	8.76	8.49

Henson (2020) - Athlete First: 2018 year end hurdle report
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Tanaka, Shinya (JPN) (1993)

anaka, Shinya (JPN) (1993)																
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)																
Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season																
date	24-Jun-18	time	2.60	3.66	4.70	5.73	6.83	7.90	8.98	10.06	11.15	12.23				
reaction time	0.145	interval	1.06	1.04	1.03	1.10	1.07	1.08	1.08	1.09	1.08	1.41				
wind	0.7 m/s	velocity	5.28	8.62	8.79	8.87	8.31	8.54	8.46	8.46	8.39	8.46	9.94			
													</			

Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season
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Kanai, Taio (JPN) (1995)

Anai, Taio (JPN) (1995)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Asian Athletics Championships (Doha, QAT)																	
CAA Hurdle Development (2019)																	
date	24-Apr-19	time	2.58	3.64	4.70	5.73	6.80	7.87	8.94	10.02	11.11	12.21		13.64	9 / 5		
reaction time	0.138	interval	7 steps	1.06	1.06	1.03	1.07	1.07	1.07	1.08	1.09	1.10	1.43		3.15	3.21	3.27
wind	1.7 m/s	velocity	5.32	8.62	8.62	8.87	8.54	8.54	8.54	8.46	8.39	8.31	9.80	8.06	8.70	8.54	8.39

CAA Hurdle Development (2019)
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Kuriki, Anthony Tyrell (JPN) (1996)

uriki, Anthony Tyrell (JPN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Athlete Night Games (Fukui, JPN)												Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season					
date	29-Aug-20	time	2.65	3.72	4.77	5.83	6.85	7.90	8.95	10.04	11.10	12.19	13.64	2 / 8			
reaction time		interval	7 steps	1.07	1.05	1.06	1.02	1.05	1.05	1.09	1.06	1.09	1.45		3.18	3.12	3.24

Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season
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wind	1.4 m/s	velocity	5.18	8.54	8.70	8.62	8.96	8.70	8.70	8.39	8.62	8.39	9.67	8.06		8.62	8.79	8.46
Dal Molin, Paolo (ITA) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	10-Jun-21	time	2.48	3.54	4.60	5.68	6.72	7.80	8.86	9.94	11.00	12.12		13.64	2 / 7			
reaction time	0.142	interval	7 steps	1.06	1.06	1.08	1.04	1.08	1.06	1.08	1.06	1.12	1.52			3.20	3.18	3.26
wind	-0.1 m/s	velocity	5.53	8.62	8.62	8.46	8.79	8.46	8.62	8.46	8.62	8.16	9.22	8.06		8.57	8.62	8.41
Eaton, Jarret (USA) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	26-Jun-21	time	2.47	3.50	4.50	5.54	6.54	7.57	8.64	9.71	10.84	11.98		13.64	1 / 8			
reaction time	0.137	interval	7 steps	1.03	1.00	1.04	1.00	1.03	1.07	1.07	1.13	1.14	1.66			3.07	3.10	3.34
wind	0.4 m/s	velocity	5.55	8.87	9.14	8.79	9.14	8.87	8.54	8.54	8.09	8.02	8.45	8.06		8.93	8.85	8.21
Brathwaite, Shane (BAR) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)															<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>			
date	03-Aug-21	time	2.66	3.73	4.71	5.73	6.73	7.78	8.90	10.02	11.09	12.22		13.64	4 / 6			
reaction time	0.151	interval	7 steps	1.07	0.98	1.02	1.00	1.05	1.12	1.12	1.07	1.13	1.42			3.07	3.17	
wind	-0.1 m/s	velocity	5.16	8.54	9.33	8.96	9.14	8.70	8.16	8.16	8.54	8.09	9.87	8.06		8.93	8.65	
King, David (GBR) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	21-May-22	time	2.53	3.60	4.70	5.72	6.74	7.80	8.87	9.93	11.00	12.08		13.64	2 / 7			
reaction time	0.137	interval	7 steps	1.07	1.10	1.02	1.02	1.06	1.07	1.06	1.07	1.08	1.56			3.19	3.15	3.21
wind	0.7 m/s	velocity	5.42	8.54	8.31	8.96	8.96	8.62	8.54	8.62	8.54	8.46	8.99	8.06		8.60	8.70	8.54
Ishida Thomas, Higashi (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Fuse Sprint (Tottori, JPN)															<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>			
date	25-Jun-23	time	2.60	3.65	4.69	5.73	6.78	7.84	8.89	9.95	11.05	12.17		13.64	6 / 4			
reaction time	0.152	interval	7 steps	1.05	1.04	1.04	1.05	1.06	1.05	1.06	1.10	1.12	1.47			3.13	3.16	3.28
wind	1.1 m/s	velocity	5.28	8.70	8.79	8.79	8.70	8.62	8.70	8.62	8.31	8.16	9.54	8.06		8.76	8.68	8.36
Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)															<i>Omega Timing (2023) - diamond league race analysis</i>			
date	16-Jul-23	time	2.41	3.48	4.53	5.58	6.62	7.67	8.74	9.82	10.91	12.00		13.64	2 / 8			
reaction time	0.133	interval	7 steps	1.07	1.05	1.05	1.04	1.05	1.07	1.08	1.09	1.09	1.64			3.17	3.16	3.26
wind	-0.2 m/s	velocity	5.69	8.54	8.70	8.70	8.79	8.70	8.54	8.46	8.39	8.39	8.55	8.06		8.65	8.68	8.41
Czykier, Damian (POL) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Weltklasse (Zürich, SUI)															<i>Omega Timing (2023) - diamond league race analysis</i>			
date	31-Aug-23	time	2.42	3.52	4.56	5.59	6.62	7.66	8.73	9.81	10.90	12.01		13.64	7 / 6			
reaction time	0.144	interval	7 steps	1.10	1.04	1.03	1.03	1.04	1.07	1.08	1.09	1.11	1.63			3.17	3.14	3.28
wind	-0.1 m/s	velocity	5.67	8.31	8.79	8.87	8.87	8.79	8.54	8.46	8.39	8.23	8.60	8.06		8.65	8.73	8.36
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Mikio Oda Memorial (Hiroshima, JPN)															<i>Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season</i>			
date	29-Apr-24	time	2.58	3.65	4.68	5.73	6.76	7.81	8.86	9.96	11.04	12.15		13.64	6 / 6			
reaction time	0.149	interval		1.07	1.03	1.05	1.03	1.05	1.05	1.10	1.08	1.11	1.49			3.15	3.13	3.29
wind	-0.6 m/s	velocity	5.04	7.94	8.25	8.10	8.25	8.10	8.10	7.73	7.87	7.66	9.41	8.06		8.70	8.76	8.33
Qin Weiibo (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	04-Aug-24	time	2.50	3.60	4.64	5.65	6.67	7.69	8.72	9.79	10.89	12.00		13.64	3 / 6			
reaction time	0.199	interval	7 steps	1.10	1.04	1.01	1.02	1.02	1.03	1.07	1.10	1.11	1.64			3.15	3.07	3.28
wind	0.7 m/s	velocity	5.49	8.31	8.79	9.05	8.96	8.96	8.87	8.54	8.31	8.23	8.55	8.06		8.70	8.93	8.36
Kronberg, Robert (SWE) (1976)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 Windsprint (Sundsvall, SWE)															<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>			
date	24-Jul-07	time		3.68			6.82			10.01				13.65	1 / 1			
reaction time		interval					3.14			3.19			3.64					
wind	1.3 m/s	velocity		6.21			8.73			8.60			8.87	8.06				
Tanonaka, Tasuku (JPN) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)															<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>			
date	29-Apr-09	time	2.60	3.68	4.74	5.80	6.85	7.90	8.96	10.04	11.12	12.20		13.65	1 / 2			
reaction time		interval		1.08	1.06	1.06	1.05	1.05	1.06	1.08	1.08	1.08	1.45			3.20	3.16	3.24
wind	1.9 m/s	velocity	5.28	8.46	8.62	8.62	8.70	8.70	8.62	8.46	8.46	8.46	9.67	8.06		8.57	8.68	8.46
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Fuse Sprint (Tottori, JPN)															<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>			
date	05-Jun-16	time	2.62	3.68	4.72	5.77	6.81	7.86	8.95	10.03	11.13	12.21		13.65	7 / 3			
reaction time		interval		1.06	1.04	1.05	1.04	1.05	1.09	1.08	1.10	1.08	1.44			3.15	3.18	3.26
wind	1.4 m/s	velocity	5.24	8.62	8.79	8.70	8.79	8.70	8.39	8.46	8.31	8.46	9.74	8.06		8.70	8.62	8.41

Yazawa, Wataru (JPN) (1991)																
FINAL	- 2016 Japanese National Corporate Championships (Osaka, JPN)															
date	25-Sep-16	time	2.63	3.71	4.78	5.84	6.88	7.93	8.99	10.04	11.12	12.20		13.65	4 / 1	
reaction time	0.153	interval	7 steps	1.08	1.07	1.06	1.04	1.05	1.06	1.05	1.08	1.08	1.45		3.21	3.15
wind	0.7 m/s	velocity	5.22	8.46	8.54	8.62	8.79	8.70	8.62	8.70	8.46	8.46	9.67	8.06	8.54	8.70
Perini, Lorenzo (ITA) (1994)																
FINAL	- 2017 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)															
date	08-Jun-17	time	2.56	3.62	4.68	5.74	6.80	7.84	8.90	9.96	11.06	12.14		13.65	1 / 8	
reaction time	0.141	interval		1.06	1.06	1.06	1.06	1.04	1.06	1.06	1.10	1.08	1.51		3.18	3.16
wind	-0.3 m/s	velocity	5.36	8.62	8.62	8.62	8.62	8.79	8.62	8.62	8.31	8.46	9.28	8.06	8.62	8.68
Sato, Hiroyuki (JPN) (1990)																
Heat 4	- 2017 Japanese National Championships (Osaka, JPN)															
date	24-Jun-17	time	2.58	3.66	4.71	5.76	6.80	7.86	8.92	10.02	11.11	12.22		13.65	2 / 2	
reaction time	0.165	interval		1.08	1.05	1.05	1.04	1.06	1.06	1.10	1.09	1.11	1.43		3.18	3.16
wind	0.0 m/s	velocity	5.32	8.46	8.70	8.70	8.79	8.62	8.62	8.31	8.39	8.23	9.80	8.06	8.62	8.68
Yazawa, Wataru (JPN) (1991)																
Heat 4	- 2017 Japanese National Championships (Osaka, JPN)															
date	24-Jun-17	time	2.61	3.69	4.76	5.80	6.85	7.90	8.96	10.03	11.12	12.23		13.65	8 / 3	
reaction time	0.143	interval	7 steps	1.08	1.07	1.04	1.05	1.05	1.06	1.07	1.09	1.11	1.42		3.19	3.16
wind	0.0 m/s	velocity	5.26	8.46	8.54	8.79	8.70	8.70	8.62	8.54	8.39	8.23	9.87	8.06	8.60	8.68
Contreras, Yidiel (ESP) (1992)																
Semi-Final 2	- 2017 IAAF World Championships (London, GBR)															
date	06-Aug-17	time	2.40	3.46	4.52	5.57	6.65	7.67	8.73	9.80	10.88	12.00		13.65	8 / 7	
reaction time	0.157	interval	7 steps	1.06	1.06	1.05	1.08	1.02	1.06	1.07	1.08	1.12	1.65		3.17	3.16
wind	0.6 m/s	velocity	5.72	8.62	8.62	8.70	8.46	8.96	8.62	8.54	8.46	8.16	8.50	8.06	8.65	8.68
King, David (GBR) (1994)																
FINAL	- 2017 Müller Grand Prix (Birmingham, GBR) (TV Analysis)															
date	20-Aug-17	time	2.58	3.64	4.70	5.76	6.82	7.88	8.92	10.00	11.04	12.12		13.65	1 / 7	
reaction time	0.138	interval	7 steps	1.06	1.06	1.06	1.06	1.06	1.04	1.08	1.04	1.08	1.53		3.18	3.16
wind	-0.6 m/s	velocity	5.32	8.62	8.62	8.62	8.62	8.62	8.79	8.46	8.79	8.46	9.16	8.06	8.62	8.68
Merritt, Aries (USA) (1985)																
FINAL	- 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)															
date	12-May-18	time	2.48	3.54	4.60	5.64	6.68	7.72	8.84	9.92	11.00	12.10		13.65	7 / 6	
reaction time	0.126	interval	7 steps	1.06	1.06	1.04	1.04	1.04	1.12	1.08	1.08	1.10	1.55		3.16	3.20
wind	0.2 m/s	velocity	5.53	8.62	8.62	8.79	8.79	8.79	8.16	8.46	8.46	8.31	9.05	8.06	8.68	8.57
Zeng Jianhang (CHN) (1998)																
FINAL	- 2018 National Grand Prix Final (Guiyang, CHN) (Altitude)															
date	17-Jun-18	time	2.60	3.64	4.69	5.72	6.75	7.78	8.85	9.91	11.00	12.11		13.65	4 / 1	
reaction time		interval		1.04	1.05	1.03	1.03	1.03	1.07	1.06	1.09	1.11	1.54	PB	3.12	3.13
wind	-0.3 m/s	velocity	5.28	8.79	8.70	8.87	8.87	8.87	8.54	8.62	8.39	8.23	9.10	8.06	8.79	8.76
Zeng Jianhang (CHN) (1998)																
FINAL	- 2018 Asian Games (Jakarta, INA)															
date	28-Aug-18	time	2.63	3.66	4.70	5.76	6.79	7.85	8.90	9.98	11.06	12.19		13.65	1 / 6	
reaction time	0.221	interval		1.03	1.04	1.06	1.03	1.06	1.05	1.08	1.08	1.13	1.46	=PB	3.13	3.14
wind	0.0 m/s	velocity	5.22	8.87	8.79	8.62	8.87	8.62	8.70	8.46	8.46	8.09	9.60	8.06	8.76	8.73
Ogata, Akihiro (JPN) (1993)																
A FINAL	- 2018 National Sports Festival (Fukui, JPN)															
date	08-Oct-18	time	2.60	3.66	4.72	5.75	6.80	7.87	8.93	10.00	11.08	12.18		13.65	4 / 3	
reaction time	0.161	interval		1.06	1.06	1.03	1.05	1.07	1.06	1.07	1.08	1.10	1.47	=PB	3.15	3.18
wind	1.2 m/s	velocity	5.28	8.62	8.62	8.87	8.70	8.54	8.62	8.54	8.46	8.31	9.54	8.06	8.70	8.62
Zeng Jianhang (CHN) (1998)																
FINAL	- 2019 Chinese National Grand Prix Final (Daqing, CHN)															
date	24-Aug-19	time	2.62	3.67	4.72	5.75	6.79	7.84	8.89	9.98	11.07	12.17		13.65	5 / 1	
reaction time	0.177	interval		1.05	1.05	1.03	1.04	1.05	1.05	1.09	1.09	1.10	1.48		3.13	3.14
wind	-0.1 m/s	velocity	5.24	8.70	8.70	8.87	8.79	8.70	8.70	8.39	8.39	8.31	9.47	8.06	8.76	8.73
Fujii, Ryota (JPN) (1996)																
FINAL	- 2019 Japanese World Championships Trials (Fujiiyoshida, JPN)															
date	01-Sep-19	time	2.59	3.65	4.70	5.74	6.80	7.86	8.92	10.00	11.10	12.21		13.65	2 / 6	
reaction time		interval		1.06	1.05	1.04	1.06	1.06	1.06	1.08	1.10	1.11	1.44	PB	3.15	3.18
wind	1.4 m/s	velocity	5.30	8.62	8.70	8.79	8.62	8.62	8.62	8.46	8.31	8.23	9.74	8.06	8.70	8.62

Muratake, Rachid (JPN) (2002)																
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)																
date	23-Aug-20	time	2.58	3.67	4.72	5.79	6.84	7.90	8.96	10.04	11.13	12.22	13.65	2 / 2		
reaction time	0.138	interval		1.09	1.05	1.07	1.05	1.06	1.06	1.08	1.09	1.09	1.43	PB	3.21	3.17
wind	-0.4 m/s	velocity	5.32	8.39	8.70	8.54	8.70	8.62	8.62	8.46	8.39	8.39	9.80	8.06	8.54	8.41
Roberts, Giano (JAM) (2000)																
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)																
date	11-Jun-21	time	2.57	3.63	4.70	5.73	6.75	7.79	8.83	9.95	11.07	12.13	13.65	3 / 7		
reaction time	0.152	interval		1.06	1.07	1.03	1.02	1.04	1.04	1.12	1.12	1.06	1.52		3.16	3.10
wind	-0.6 m/s	velocity	5.34	8.62	8.54	8.87	8.96	8.79	8.79	8.16	8.16	8.62	9.22	8.06	8.68	8.31
Obasuyi, Michael (BEL) (1999)																
Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	03-Aug-21	time	2.62	3.70	4.77	5.82	6.83	7.86	8.90	10.00	11.06	12.20	13.65	8 / 6		
reaction time	0.141	interval	7 steps	1.08	1.07	1.05	1.01	1.03	1.04	1.10	1.06	1.14	1.45		3.20	3.08
wind	0.0 m/s	velocity	5.24	8.46	8.54	8.70	9.05	8.87	8.79	8.31	8.62	8.02	9.67	8.06	8.57	8.31
Traber, Gregor (GER) (1992)																
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	03-Aug-21	time	2.53	3.56	4.62	5.65	6.68	7.72	8.77	9.88	10.97	12.07	13.65	4 / 5		
reaction time	0.136	interval	7 steps	1.03	1.06	1.03	1.04	1.05	1.11	1.09	1.10	1.10	1.58		3.12	3.12
wind	-0.1 m/s	velocity	5.42	8.87	8.62	8.87	8.87	8.79	8.70	8.23	8.39	8.31	8.87	8.06	8.79	8.31
Vukicevic, Vladimir (NOR) (1991)																
FINAL - 2021 Boris Hanzeković Memorial (Zagreb, CRO) (TV Analysis)																
date	14-Sep-21	time	2.56	3.63	4.66	5.70	6.73	7.76	8.83	9.90	11.00	12.10	13.65	2 / 7		
reaction time	0.136	interval		1.07	1.03	1.04	1.03	1.03	1.07	1.07	1.10	1.10	1.55		3.14	3.13
wind	0.7 m/s	velocity	5.36	8.54	8.87	8.79	8.87	8.87	8.54	8.54	8.31	8.31	9.05	8.06	8.73	8.39
Czykier, Damian (POL) (1992)																
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)																
date	08-Sep-22	time	2.60	3.67	4.70	5.74	6.77	7.81	8.84	9.88	11.01	12.11	13.65	1 / 7		
reaction time	0.142	interval	7 steps	1.07	1.03	1.04	1.03	1.04	1.03	1.04	1.13	1.10	1.54		3.14	3.10
wind	-1.0 m/s	velocity	5.28	8.54	8.87	8.79	8.87	8.79	8.87	8.79	8.09	8.31	9.10	8.06	8.73	8.39
McCorry, Jacob (AUS) (1997)																
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)																
date	29-Apr-23	time	2.62	3.69	4.74	5.80	6.83	7.88	8.95	10.03	11.08	12.19	13.65	1 / 6		
reaction time	0.110	interval	7 steps	1.07	1.05	1.06	1.03	1.05	1.07	1.08	1.05	1.11	1.46		3.18	3.15
wind	0.3 m/s	velocity	5.24	8.54	8.70	8.62	8.87	8.70	8.54	8.46	8.70	8.23	9.60	8.06	8.62	8.46
Fujii, Ryota (JPN) (1996)																
FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)																
date	07-May-23	time	2.59	3.65	4.72	5.77	6.81	7.88	8.94	10.00	11.09	12.19	13.65	5 / 6		
reaction time	0.143	interval		1.06	1.07	1.05	1.04	1.07	1.06	1.06	1.09	1.10	1.46		3.18	3.17
wind	-0.3 m/s	velocity	5.30	8.62	8.54	8.70	8.79	8.54	8.62	8.62	8.39	8.31	9.60	8.06	8.62	8.44
Mohamed, Raphael (FRA) (1998)																
Heat 1 - 2023 Meeting de Paris (Paris, FRA)																
date	09-Jun-23	time	2.48	3.56	4.62	5.66	6.70	7.75	8.82	9.89	10.97	12.05	13.65	1 / 6		
reaction time	0.165	interval	7 steps	1.08	1.06	1.04	1.04	1.05	1.07	1.07	1.08	1.08	1.60		3.18	3.16
wind	-2.0 m/s	velocity	5.53	8.46	8.62	8.79	8.79	8.70	8.54	8.54	8.46	8.46	8.76	8.06	8.62	8.49
Czykier, Damian (POL) (1992)																
Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)																
date	16-Jul-23	time	2.48	3.57	4.62	5.65	6.70	7.75	8.80	9.85	10.93	12.03	13.65	7 / 9		
reaction time	0.154	interval	7 steps	1.09	1.05	1.03	1.05	1.05	1.05	1.05	1.08	1.10	1.62		3.17	3.15
wind	0.3 m/s	velocity	5.53	8.39	8.70	8.87	8.70	8.70	8.70	8.70	8.46	8.31	8.65	8.06	8.65	8.49
Machi, Ryota (JPN) (2001)																
FINAL - 2024 Mikio Oda Memorial (Hiroshima, JPN)																
date	29-Apr-24	time	2.63	3.72	4.77	5.82	6.85	7.88	8.94	10.01	11.09	12.20	13.65	4 / 7		
reaction time	0.159	interval	7 steps	1.09	1.05	1.05	1.03	1.03	1.06	1.07	1.08	1.11	1.45		3.19	3.12
wind	-0.6 m/s	velocity	5.22	8.39	8.70	8.70	8.87	8.87	8.62	8.54	8.46	8.23	9.67	8.06	8.60	8.41
Yokochi, Taiga (JPN) (2000)																
FINAL - 2024 Seiko Golden Grand Prix (Tokyo, JPN)																
date	19-May-24	time	2.67	3.76	4.78	5.83	6.85	7.90	8.95	10.01	11.08	12.18	13.65	1 / 7		
reaction time	0.171	interval	7 steps	1.09	1.02	1.05	1.02	1.05	1.05	1.06	1.07	1.10	1.47		3.16	3.12
wind	-0.6 m/s	velocity	5.14	8.39	8.96	8.70	8.96	8.70	8.70	8.62	8.54	8.31	9.54	8.06	8.68	8.49
Bramlett, Ron (USA) (1979)																

FINAL - 2003 USATF National Championships (Palo Alto, CA)

USATF Women's Sprint Development (2003)

date	21-Jun-03	time	2.39	3.47	4.51	5.57	6.61	7.66	8.69	9.73	10.83	11.95	13.66	2 / 5			
reaction time		interval		1.08	1.04	1.06	1.04	1.05	1.03	1.04	1.10	1.12	1.71		3.18	3.12	3.26
wind	-2.4 m/s	velocity	5.74	8.46	8.79	8.62	8.79	8.70	8.87	8.79	8.31	8.16	8.20	8.05	8.62	8.79	8.41

Arnold, Dominique (USA) (1973)H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 2 - 2007 USATF National Championships (Indianapolis, IN) USATF Men's Hurdle Development (2007)

date	23-Jun-07	time	2.74	3.80	4.87	5.91	6.89	7.92	8.96	10.01	11.09	12.24	13.66	6 / 1			
reaction time		interval		1.06	1.07	1.04	0.98	1.03	1.04	1.05	1.08	1.15	1.42		3.17	3.05	3.28
wind	-1.9 m/s	velocity	5.01	8.62	8.54	8.79	9.33	8.87	8.79	8.70	8.46	7.95	9.87	8.05	8.65	8.99	8.36

Naïto, Masato (JPN) (1980)H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2008 Japanese National Championships (Kawasaki, JPN) Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles

date	28-Jun-08	time	2.41	3.49	4.53	5.57	6.60	7.64	8.69	9.75	10.85	11.96	13.66	1 / 1			
reaction time		interval		1.08	1.04	1.04	1.03	1.04	1.05	1.06	1.10	1.11	1.70		3.16	3.12	3.27
wind	-0.2 m/s	velocity	5.69	8.46	8.79	8.79	8.87	8.79	8.70	8.62	8.31	8.23	8.25	8.05	8.68	8.79	8.39

Olijar, Stanislav (LAT) (1979)H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2009 ISTAF (Berlin, GER) Graubner (2009) - http://www.fgs.uni-halle.de

date	14-Jun-09	time	2.69	3.77	4.81	5.82	6.86	7.91	8.97	10.03	11.13	12.23	13.66	2 / 6			
reaction time	0.172	interval		1.08	1.04	1.01	1.04	1.05	1.06	1.06	1.10	1.10	1.43		3.13	3.15	3.26
wind	0.7 m/s	velocity	5.10	8.46	8.79	9.05	8.79	8.70	8.62	8.62	8.31	8.31	9.80	8.05	8.76	8.70	8.41

Schwarzer, Helge (GER) (1985)H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 2 - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - biomechanical analyses at the 12th IAAF world championships

date	19-Aug-09	time	2.59	3.63	4.71	5.74	6.78	7.84	8.91	9.99	11.07	12.17	13.66	7 / 2			
reaction time	0.136	interval		1.04	1.08	1.03	1.04	1.06	1.07	1.08	1.08	1.10	1.49		3.15	3.17	3.26
wind	-0.2 m/s	velocity	5.30	8.79	8.46	8.87	8.79	8.62	8.54	8.46	8.46	8.31	9.41	8.05	8.70	8.65	8.41

Omuro, Hideki (JPN) (1990)H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2011 Mikio Oda Memorial (Hiroshima, JPN) Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13

date	29-Apr-11	time	2.59	3.67	4.72	5.80	6.87	7.90	8.98	10.04	11.14	12.23	13.66	1 / 2			
reaction time		interval		1.08	1.05	1.08	1.07	1.03	1.08	1.06	1.10	1.09	1.43		3.21	3.18	3.25
wind	2.4 m/s	velocity	5.30	8.46	8.70	8.46	8.54	8.87	8.46	8.62	8.31	8.39	9.80	8.05	8.54	8.62	8.44

Omuro, Hideki (JPN) (1990)H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2016 Japanese National Championships (Nagoya, JPN) Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers

date	26-Jun-16	time	2.60	3.68	4.74	5.80	6.86	7.92	8.98	10.06	11.14	12.23	13.66	6 / 4			
reaction time	0.144	interval		1.08	1.06	1.06	1.06	1.06	1.06	1.08	1.08	1.09	1.43		3.20	3.18	3.25
wind	2.4 m/s	velocity	5.28	8.46	8.62	8.62	8.62	8.62	8.62	8.46	8.46	8.39	9.80	8.05	8.57	8.62	8.44

Alkana, Antonio (RSA) (1990)H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis) Henson (2021) - Athlete First: 2016 year end hurdle report

date	15-Jul-16	time	2.48	3.54	4.60	5.64	6.68	7.76	8.80	9.88	11.04	12.12	13.66	7 / 7			
reaction time	0.130	interval		1.06	1.06	1.04	1.04	1.08	1.04	1.08	1.16	1.08	1.54		3.16	3.16	3.32
wind	0.0 m/s	velocity	5.53	8.62	8.62	8.79	8.79	8.46	8.79	8.46	7.88	8.46	9.10	8.05	8.68	8.68	8.26

Yazawa, Wataru (JPN) (1991)H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Semi-Final 1 - 2017 Japanese National Championships (Osaka, JPN) (2017) - ifdata-store.com/2017/07/13/post-1040/

date	24-Jun-17	time	2.61	3.68	4.73	5.78	6.82	7.88	8.95	10.03	11.12	12.23	13.66	6 / 3			
reaction time	0.146	interval	7 steps	1.07	1.05	1.05	1.04	1.06	1.07	1.08	1.09	1.11	1.43		3.17	3.17	3.28
wind	0.6 m/s	velocity	5.26	8.54	8.70	8.70	8.79	8.62	8.54	8.46	8.39	8.23	9.80	8.05	8.65	8.65	8.36

Pozzi, Andy (GBR) (1992)H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN) CAA Hurdle Development (2019)

date	21-May-19	time	2.57	3.60	4.60	5.61	6.64	7.67	8.73	9.78	10.88	12.02	13.66	8 / 9			
reaction time	0.146	interval	7 steps	1.03	1.00	1.01	1.03	1.03	1.06	1.05	1.10	1.14	1.64		3.04	3.12	3.29
wind	0.1 m/s	velocity	5.34	8.87	9.14	9.05	8.87	8.87	8.62	8.70	8.31	8.02	8.55	8.05	9.02	8.79	8.33

King, David (GBR) (1994)H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis) Henson (2020) - Athlete First: 2019 year end hurdle report

date	21-Jul-19	time	2.45	3.51	4.56	5.61	6.65	7.72	8.77	9.85	10.92	12.05	13.66	1 / 8			
reaction time	0.135	interval	7 steps	1.06	1.05	1.05	1.04	1.07	1.05	1.08	1.07	1.13	1.61		3.16	3.16	3.28
wind	0.4 m/s	velocity	5.60	8.62	8.70	8.70	8.79	8.54	8.70	8.46	8.54	8.09	8.71	8.05	8.68	8.68	8.36

Liu Bowen (CHN) (2001)H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm) CAA Hurdle Development (2019)

date	14-Aug-19	time	2.57	3.61	4.67	5.71	6.74	7.77	8.83	9.89	10.98	12.08	13.66	7 / 2			
reaction time	0.152	interval		1.04	1.06	1.04	1.03	1.03	1.06	1.06	1.09	1.10	1.58		3.14	3.12	3.25
wind	0.6 m/s	velocity	5.34	8.79	8.62	8.79	8.87	8.87	8.62	8.62	8.39	8.31	8.87	8.05	8.73	8.79	8.44

Hough, Nicholas (AUS) (1993)H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis) Henson (2020) - Athlete First: 2019 year end hurdle report

date	21-Jul-19	time	2.45	3.51	4.56	5.61	6.65	7.72	8.77	9.85	10.92	12.05	13.66	1 / 8			
reaction time	0.135	interval	7 steps	1.06	1.05	1.05	1.04	1.07	1.05	1.08	1.07	1.13	1.61		3.16	3.16	3.28
wind	0.4 m/s	velocity	5.60	8.62	8.70	8.70	8.79	8.54	8.70	8.46	8.54	8.09	8.71	8.05	8.68	8.68	8.36

date	18-Aug-19	time	2.62	3.69	4.75	5.77	6.77	7.78	8.84	9.90	10.94	12.10		13.66	8 / 6			
reaction time	0.149	interval	7 steps	1.07	1.06	1.02	1.00	1.01	1.06	1.06	1.04	1.16	1.56			3.15	3.07	3.26
wind	-0.2 m/s	velocity	5.24	8.54	8.62	8.96	9.14	9.05	8.62	8.62	8.79	7.88	8.99	8.05		8.70	8.93	8.41
kana, Antonio (RSA) (1990)																		
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																		
Henson (2020) - Athlete First: 2020 year end hurdle report																		
date	17-Sep-20	time	2.52	3.60	4.68	5.76	6.80	7.84	8.88	9.96	11.04	12.14		13.66	8 / 7			
reaction time	0.130	interval		1.08	1.08	1.08	1.04	1.04	1.04	1.08	1.08	1.10	1.52			3.24	3.12	3.26
wind	0.1 m/s	velocity	5.44	8.46	8.46	8.46	8.79	8.79	8.79	8.46	8.46	8.31	9.22	8.05		8.46	8.79	8.41
ang Honglin (CHN) (1994)																		
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)																		
CAA Hurdle Development (2020)																		
date	16-Sep-20	time	2.63	3.74	4.80	5.86	6.90	7.94	9.01	10.08	11.16	12.26		13.66	4 / 4			
reaction time	0.167	interval		1.11	1.06	1.06	1.04	1.04	1.07	1.07	1.08	1.10	1.40			3.23	3.15	3.25
wind	0.4 m/s	velocity	5.22	8.23	8.62	8.62	8.79	8.79	8.54	8.54	8.46	8.31	10.01	8.05		8.49	8.70	8.44
omoto, Syuusei (JPN) (1995)																		
FINAL - 2021 Fuse Sprint (Tottori, JPN)																		
Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season																		
date	06-Jun-21	time	2.57	3.62	4.68	5.75	6.80	7.85	8.93	10.00	11.11	12.22		13.66	8 / 4			
reaction time	0.144	interval	7 steps	1.05	1.06	1.07	1.05	1.05	1.08	1.07	1.11	1.11	1.44			3.18	3.18	3.29
wind	1.8 m/s	velocity	5.34	8.70	8.62	8.54	8.70	8.70	8.46	8.54	8.23	8.23	9.74	8.05		8.62	8.62	8.33
ozzi, Andy (GBR) (1992)																		
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)																		
Henson (2022) - Athlete First: 2022 year end hurdle report																		
date	17-Aug-22	time	2.52	3.58	4.64	5.68	6.72	7.76	8.82	9.92	11.02	12.14		13.66	1 / 6			
reaction time	0.166	interval	7 steps	1.06	1.06	1.04	1.04	1.04	1.06	1.10	1.10	1.12	1.52			3.16	3.14	3.32
wind	-0.2 m/s	velocity	5.44	8.62	8.62	8.79	8.79	8.79	8.62	8.31	8.31	8.16	9.22	8.05		8.68	8.73	8.26
seph, Jason (SUI) (1998)																		
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)																		
Henson (2022) - Athlete First: 2022 year end hurdle report																		
date	26-Aug-22	time	2.58	3.65	4.72	5.77	6.81	7.84	8.91	9.98	11.08	12.18		13.66	2 / 8			
reaction time	0.158	interval	7 steps	1.07	1.07	1.05	1.04	1.03	1.07	1.07	1.10	1.10	1.48			3.19	3.14	3.27
wind	0.0 m/s	velocity	5.32	8.54	8.54	8.70	8.79	8.87	8.54	8.54	8.31	8.31	9.47	8.05		8.60	8.73	8.39
ascou, Dimitri (FRA) (1987)																		
Heat 1 - 2023 Meeting de Paris (Paris, FRA)																		
Omega Timing (2023) - diamond league race analysis																		
date	09-Jun-23	time	2.43	3.49	4.54	5.58	6.61	7.65	8.69	9.74	10.85	11.98		13.66	8 / 7			
reaction time	0.162	interval	7 steps	1.06	1.05	1.04	1.03	1.04	1.04	1.05	1.11	1.13	1.68			3.15	3.11	3.29
wind	-2.0 m/s	velocity	5.65	8.62	8.70	8.79	8.87	8.79	8.79	8.70	8.23	8.09	8.35	8.05		8.70	8.82	8.33
herubin, Yves (HAI) (1999)																		
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																		
Henson (2023) - Athlete First: 2023 year end hurdle report																		
date	21-Aug-23	time	2.63	3.70	4.73	5.80	6.83	7.86	8.93	9.98	11.05	12.14		13.66	9 / 7			
reaction time	0.178	interval		1.07	1.03	1.07	1.03	1.03	1.07	1.05	1.07	1.09	1.52			3.17	3.13	3.21
wind	-0.2 m/s	velocity	5.22	8.54	8.87	8.54	8.87	8.87	8.54	8.70	8.54	8.39	9.22	8.05		8.65	8.76	8.54
oudoula Afuzileasimu (CHN) (2002)																		
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)																		
Shandong Athletics Sport Science (2024)																		
date	30-Jun-24	time	2.64	3.70	4.77	5.82	6.87	7.91	8.97	10.04	11.12	12.25		13.66	2 / 7			
reaction time	0.136	interval		1.06	1.07	1.05	1.05	1.04	1.06	1.07	1.08	1.13	1.41	=PB		3.18	3.15	3.28
wind	0.9 m/s	velocity	5.20	8.62	8.54	8.70	8.70	8.79	8.62	8.54	8.46	8.09	9.94	8.05		8.62	8.70	8.36
abang, John (PHI) (2001)																		
Heat 1 - 2024 Olympic Games (Paris, FRA)																		
Paris 2024 Olympic Games - Results Book (2024)																		
date	04-Aug-24	time	2.45	3.53	4.56	5.60	6.63	7.69	8.76	9.84	10.92	12.01		13.66	3 / 6			
reaction time	0.154	interval		1.08	1.03	1.04	1.03	1.06	1.07	1.08	1.08	1.09	1.65			3.15	3.16	3.25
wind	0.1 m/s	velocity	5.60	8.46	8.87	8.79	8.87	8.62	8.54	8.46	8.46	8.39	8.50	8.05		8.70	8.68	8.44
acari, Elie (BEL) (2003)																		
Heat 4 - 2024 Olympic Games (Paris, FRA)																		
Paris 2024 Olympic Games - Results Book (2024)																		
date	04-Aug-24	time	2.39	3.47	4.51	5.53	6.57	7.61	8.67	9.74	10.81	11.91		13.66	3 / 7			
reaction time	0.135	interval	7 steps	1.08	1.04	1.02	1.04	1.04	1.06	1.07	1.07	1.10	1.75			3.14	3.14	3.24
wind	0.3 m/s	velocity	5.74	8.46	8.79	8.96	8.79	8.79	8.62	8.54	8.54	8.31	8.01	8.05		8.73	8.73	8.46
ees, Tony (USA) (1963)																		
FINAL - 1996 USA Olympic Trials (Atlanta, GA)																		
McNichols (2000) - Hurdle technique study through video analysis																		
date	23-Jun-96	time	2.45	3.47	4.52	5.51	6.57	7.62	8.68	9.80	10.88	12.01		13.67	2 / 6			
reaction time		interval		1.02	1.05	0.99	1.06	1.05	1.06	1.12	1.08	1.13	1.66			3.06	3.17	3.33
wind	0.9 m/s	velocity	5.60	8.96	8.70	9.23	8.62	8.70	8.62	8.16	8.46	8.09	8.45	8.05		8.96	8.65	8.23
arico, Vincent (FRA) (1966)																		
FINAL - 1997 European Cup (Munich, GER)																		
Jung (2003) - http://www.fgs.uni-halle.de																		
date	22-Jun-97	time	2.66	3.72	4.78	5.82	6.88	7.92	9.00	10.06	11.16	12.28		13.67	1 / 4			

reaction time		interval	1.06	1.06	1.04	1.06	1.04	1.08	1.06	1.10	1.12	1.39			3.16	3.18	3.28	
wind	0.2 m/s	velocity	5.16	8.62	8.62	8.79	8.62	8.79	8.46	8.62	8.31	8.16	10.09	8.05	8.68	8.62	8.36	
Videnov, Zhivko (BUL) (1977)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 European Championships (Munich, GER)			Graubner (2009) - http://www.fgs.uni-halle.de															
date	10-Aug-02	time	2.63	3.69	4.73	5.75	6.79	7.85	8.90	10.01	11.09	12.25		13.67	1 / 8			
reaction time	0.146	interval		1.06	1.04	1.02	1.04	1.06	1.05	1.11	1.08	1.16	1.42			3.12	3.15	3.35
wind	0.4 m/s	velocity	5.22	8.62	8.79	8.96	8.79	8.62	8.70	8.23	8.46	7.88	9.87	8.05		8.79	8.70	8.19
Bownes, Shaun (RSA) (1970)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 IAAF World Cup (Madrid, ESP)			Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas															
date	21-Sep-02	time	2.58	3.62	4.65	5.66	6.69	7.75	8.83	9.89	10.97	12.07		13.67	1 / 4			
reaction time	0.146	interval	7 steps	1.04	1.03	1.01	1.03	1.06	1.08	1.06	1.08	1.10	1.60			3.08	3.17	3.24
wind	-2.2 m/s	velocity	5.32	8.79	8.87	9.05	8.87	8.62	8.46	8.62	8.46	8.31	8.76	8.05		8.90	8.65	8.46
Faulk, Dexter (USA) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2007 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2007)															
date	23-Jun-07	time	2.56	3.65	4.67	5.72	6.87	7.93	9.01	10.08	11.18	12.23		13.67	1 / 4			
reaction time		interval		1.09	1.02	1.05	1.15	1.06	1.08	1.07	1.10	1.05	1.44			3.16	3.29	3.22
wind	0.1 m/s	velocity	5.36	8.39	8.96	8.70	7.95	8.62	8.46	8.54	8.31	8.70	9.74	8.05		8.68	8.33	8.52
Deghelt, Adrien (BEL) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 European Cup (Munich, GER)			Graubner (2007) - http://www.fgs.uni-halle.de															
date	24-Jun-07	time	2.65	3.71	4.75	5.80	6.85	7.91	8.96	10.03	11.13	12.23		13.67	1 / 6			
reaction time	0.149	interval		1.06	1.04	1.05	1.05	1.06	1.05	1.07	1.10	1.10	1.44	PB		3.15	3.16	3.27
wind	0.4 m/s	velocity	5.18	8.62	8.79	8.70	8.70	8.62	8.70	8.54	8.31	8.31	9.74	8.05		8.70	8.68	8.39
Tanonaka, Tasuku (JPN) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2008 Mikio Oda Memorial (Hiroshima, JPN)			Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles															
date	29-Apr-08	time	2.43	3.51	4.56	5.61	6.65	7.71	8.77	9.86	10.95	12.04		13.67	1 / 1			
reaction time		interval		1.08	1.05	1.05	1.04	1.06	1.06	1.09	1.09	1.09	1.63			3.18	3.16	3.27
wind	1.3 m/s	velocity	5.65	8.46	8.70	8.70	8.79	8.62	8.62	8.39	8.39	8.39	8.60	8.05		8.62	8.68	8.39
Ohashi, Yuji (JPN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2008 Nambu Chuhei Memorial (Harodate, JPN)			Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles															
date	06-Jul-08	time	2.44	3.51	4.55	5.57	6.63	7.72	8.78	9.84	10.92	12.03		13.67	1 / 1			
reaction time		interval		1.07	1.04	1.02	1.06	1.09	1.06	1.06	1.08	1.11	1.64			3.13	3.21	3.25
wind	2.0 m/s	velocity	5.62	8.54	8.79	8.96	8.62	8.39	8.62	8.62	8.46	8.23	8.55	8.05		8.76	8.54	8.44
Tanonaka, Tasuku (JPN) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Osaka Grand Prix (Osaka, JPN)			Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles															
date	09-May-09	time	2.60	3.69	4.73	5.79	6.84	7.89	8.96	10.02	11.10	12.19		13.67	1 / 4			
reaction time		interval		1.09	1.04	1.06	1.05	1.05	1.07	1.06	1.08	1.09	1.48			3.19	3.17	3.23
wind	0.2 m/s	velocity	5.28	8.39	8.79	8.62	8.70	8.70	8.54	8.62	8.46	8.39	9.47	8.05		8.60	8.65	8.49
Fourie, Lehann (RSA) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2009 IAAF World Championships (Berlin, GER)			Graubner (2009) - biomechanical analyses at the 12th IAAF world championships															
date	19-Aug-09	time	2.62	3.66	4.72	5.78	6.84	7.88	8.96	10.02	11.10	12.21		13.67	3 / 4			
reaction time	0.139	interval		1.04	1.06	1.06	1.06	1.04	1.08	1.06	1.08	1.11	1.46			3.16	3.18	3.25
wind	-0.4 m/s	velocity	5.24	8.79	8.62	8.62	8.62	8.79	8.46	8.62	8.46	8.23	9.60	8.05		8.68	8.62	8.44
Robles, Dayron (CUB) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2009 IAAF World Championships (Berlin, GER)			Graubner (2009) - biomechanical analyses at the 12th IAAF world championships															
date	19-Aug-09	time	2.71	3.81	4.91	5.99	7.03	8.08	9.11	10.14	11.17	12.21		13.67	2 / 3			
reaction time	0.178	interval	7 steps	1.10	1.10	1.08	1.04	1.05	1.03	1.03	1.03	1.04	1.46			3.28	3.12	3.10
wind	-0.2 m/s	velocity	5.06	8.31	8.31	8.46	8.79	8.70	8.87	8.87	8.87	8.79	9.60	8.05		8.36	8.79	8.85
Nossmys, Philip (SWE) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 Windsprint (Sundsvall, SWE)			Blomkvist (2010) - www.sub13.se															
date	08-Aug-10	time	2.67	3.74	4.82	5.86	6.91	7.97	9.04	10.09	11.17	12.26		13.67	1 / 2			
reaction time		interval		1.07	1.08	1.04	1.05	1.06	1.07	1.05	1.08	1.09	1.41			3.19	3.18	3.22
wind	1.1 m/s	velocity	5.14	8.54	8.46	8.79	8.70	8.62	8.54	8.70	8.46	8.39	9.94	8.05		8.60	8.62	8.52
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)			Henson (2021) - Athlete First: major championships report															
date	29-Aug-11	time	2.50	3.54	4.57	5.57	6.61	7.71	8.79	9.88	10.94	12.01		13.67	7 / 5			
reaction time	0.140	interval		1.04	1.03	1.00	1.04	1.10	1.08	1.09	1.06	1.07	1.66			3.07	3.22	3.22
wind	-1.1 m/s	velocity	5.49	8.79	8.87	9.14	8.79	8.31	8.46	8.39	8.62	8.54	8.45	8.05		8.93	8.52	8.52
Sharman, William (GBR) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)			Henson (2021) - Athlete First: major championships report															
date	29-Aug-11	time	2.52	3.62	4.68	5.74	6.77	7.81	8.86	9.92	11.00	12.11		13.67	8 / 5			
reaction time	0.178	interval	7 steps	1.10	1.06	1.06	1.03	1.04	1.05	1.06	1.08	1.11	1.56			3.22	3.12	3.25

wind	-1.1 m/s	velocity	5.44	8.31	8.62	8.62	8.87	8.79	8.70	8.62	8.46	8.23	8.99	8.05		8.52	8.79	8.44	
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 Japanese National Championships (Chofu, JPN)			<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>																
date	09-Jun-13	time	2.58	3.64	4.70	5.76	6.82	7.87	8.97	10.05	11.13	12.22		13.67	5 / 4		3.18	3.21	3.25
reaction time	0.148	interval		1.06	1.06	1.06	1.06	1.05	1.10	1.08	1.08	1.09	1.45				3.18	3.21	3.25
wind	1.3 m/s	velocity	5.32	8.62	8.62	8.62	8.62	8.70	8.31	8.46	8.46	8.39	9.67	8.05		8.62	8.54	8.44	
Masuno, Genta (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)			<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>																
date	08-May-16	time	2.63	3.71	4.76	5.80	6.87	7.91	8.97	10.05	11.13	12.22		13.67	3 / 4		3.17	3.17	3.25
reaction time	0.148	interval		1.08	1.05	1.04	1.07	1.04	1.06	1.08	1.08	1.09	1.45				3.17	3.17	3.25
wind	-0.6 m/s	velocity	5.22	8.46	8.70	8.79	8.54	8.79	8.62	8.46	8.46	8.39	9.67	8.05		8.65	8.65	8.44	
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)			<i>(2017) - tfdata-store.com/2017/05/01/458/</i>																
date	29-Apr-17	time	2.62	3.68	4.74	5.80	6.85	7.92	8.97	10.05	11.13	12.21		13.67	6 / 3		3.18	3.17	3.24
reaction time		interval		1.06	1.06	1.06	1.05	1.07	1.05	1.08	1.08	1.08	1.46				3.18	3.17	3.24
wind	1.5 m/s	velocity	5.24	8.62	8.62	8.62	8.70	8.54	8.70	8.46	8.46	8.46	9.60	8.05		8.62	8.65	8.46	
Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2017 Japanese National Championships (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>																
date	24-Jun-17	time	2.57	3.65	4.73	5.80	6.86	7.91	8.96	10.03	11.10	12.20		13.67	4 / 2		3.23	3.16	3.24
reaction time	0.156	interval	7 steps	1.08	1.08	1.07	1.06	1.05	1.05	1.07	1.07	1.10	1.47	PB			3.23	3.16	3.24
wind	1.3 m/s	velocity	5.34	8.46	8.46	8.54	8.62	8.70	8.70	8.54	8.54	8.31	9.54	8.05		8.49	8.68	8.46	
Lovett, Eddie (ISV) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2017 IAAF World Championships (London, GBR)			<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles</i>																
date	06-Aug-17	time	2.49	3.56	4.62	5.67	6.71	7.77	8.81	9.90	10.99	12.10		13.67	6 / 5		3.18	3.14	3.29
reaction time	0.180	interval	7 steps	1.07	1.06	1.05	1.04	1.06	1.04	1.09	1.09	1.11	1.57				3.18	3.14	3.29
wind	0.3 m/s	velocity	5.51	8.54	8.62	8.70	8.79	8.62	8.79	8.39	8.39	8.23	8.93	8.05		8.62	8.73	8.33	
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Fuse Sprint (Tottori, JPN)			<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																
date	03-Jun-18	time	2.63	3.69	4.74	5.79	6.83	7.88	8.96	10.03	11.11	12.20		13.67	1 / 2		3.16	3.17	3.24
reaction time		interval		1.06	1.05	1.05	1.04	1.05	1.08	1.07	1.08	1.09	1.47				3.16	3.17	3.24
wind	0.5 m/s	velocity	5.22	8.62	8.70	8.70	8.79	8.70	8.46	8.54	8.46	8.39	9.54	8.05		8.68	8.65	8.46	
Zeng Jianhang (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)			<i>CAA Hurdle Development (2019)</i>																
date	13-Apr-19	time	2.62	3.70	4.74	5.78	6.82	7.86	8.94	10.02	11.12	12.22		13.67	4 / 1		3.16	3.16	3.28
reaction time	0.186	interval		1.08	1.04	1.04	1.04	1.04	1.08	1.08	1.10	1.10	1.45				3.16	3.16	3.28
wind	-0.3 m/s	velocity	5.24	8.46	8.79	8.79	8.79	8.79	8.46	8.46	8.31	8.31	9.67	8.05		8.68	8.68	8.36	
Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)			<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>																
date	30-Jun-19	time	2.57	3.65	4.71	5.76	6.83	7.87	8.93	10.00	11.08	12.20		13.67	4 / 3		3.19	3.17	3.27
reaction time	0.137	interval	7 steps	1.08	1.06	1.05	1.07	1.04	1.06	1.07	1.08	1.12	1.47				3.19	3.17	3.27
wind	-0.6 m/s	velocity	5.34	8.46	8.62	8.70	8.54	8.79	8.62	8.54	8.46	8.16	9.54	8.05		8.60	8.65	8.39	
Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)			<i>Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season</i>																
date	01-Sep-19	time	2.56	3.64	4.69	5.75	6.82	7.89	8.95	10.02	11.12	12.23		13.67	3 / 7		3.19	3.20	3.28
reaction time		interval	7 steps	1.08	1.05	1.06	1.07	1.07	1.06	1.07	1.10	1.11	1.44				3.19	3.20	3.28
wind	1.4 m/s	velocity	5.36	8.46	8.70	8.62	8.54	8.54	8.62	8.54	8.31	8.23	9.74	8.05		8.60	8.57	8.36	
Constantino, Gabriel (BRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)			<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																
date	17-Sep-20	time	2.54	3.58	4.62	5.66	6.70	7.76	8.82	9.92	11.04	12.16		13.67	2 / 8		3.12	3.16	3.34
reaction time	0.161	interval	7 steps	1.04	1.04	1.04	1.04	1.06	1.06	1.10	1.12	1.12	1.51				3.12	3.16	3.34
wind	0.1 m/s	velocity	5.40	8.79	8.79	8.79	8.79	8.62	8.62	8.31	8.16	8.16	9.28	8.05		8.79	8.68	8.21	
Ishida Thomas, Higashi (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Japanese National Championships (Niigata, JPN)			<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>																
date	03-Oct-20	time	2.64	3.71	4.75	5.79	6.83	7.88	8.94	10.00	11.08	12.21		13.67	9 / 6		3.15	3.15	3.27
reaction time	0.153	interval	7 steps	1.07	1.04	1.04	1.04	1.05	1.06	1.06	1.08	1.13	1.46				3.15	3.15	3.27
wind	-0.1 m/s	velocity	5.20	8.54	8.79	8.79	8.79	8.70	8.62	8.62	8.46	8.09	9.60	8.05		8.70	8.70	8.39	
Yokochi, Taiga (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)			<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>																
date	24-Oct-20	time	2.67	3.77	4.80	5.87	6.91	7.95	9.04	10.07	11.15	12.24		13.67	5 / 3		3.20	3.17	3.20
reaction time		interval	7 steps	1.10	1.03	1.07	1.04	1.04	1.09	1.03	1.08	1.09	1.43				3.20	3.17	3.20
wind	0.6 m/s	velocity	5.14	8.31	8.87	8.54	8.79	8.79	8.39	8.87	8.46	8.39	9.80	8.05		8.57	8.65	8.57	

Tokuoka, Ryo (JPN) (1999)																
FINAL	- 2021 Mikio Oda Memorial (Hiroshima, JPN)															
date	29-Apr-21	time	2.64	3.70	4.75	5.80	6.85	7.88	8.95	10.00	11.09	12.20	13.67	8 / 5		
reaction time	0.139	interval		1.06	1.05	1.05	1.05	1.03	1.07	1.05	1.09	1.11	1.47		3.16	3.15
wind	1.7 m/s	velocity	5.20	8.62	8.70	8.70	8.70	8.87	8.54	8.70	8.39	8.23	9.54	8.05	8.68	8.70
Ishikawa, Shuhei (JPN) (1995)																
FINAL	- 2021 Ready Steady Tokyo (Tokyo, JPN)															
date	09-May-21	time	2.65	3.74	4.77	5.80	6.86	7.93	8.99	10.07	11.15	12.25	13.67	8 / 6		
reaction time	0.141	interval		7 steps	1.09	1.03	1.06	1.07	1.06	1.08	1.08	1.10	1.42		3.15	3.19
wind	-0.8 m/s	velocity	5.18	8.39	8.87	8.87	8.62	8.54	8.62	8.46	8.46	8.31	9.87	8.05	8.70	8.60
Yokochi, Taiga (JPN) (2000)																
FINAL	- 2021 Ready Steady Tokyo (Tokyo, JPN)															
date	09-May-21	time	2.58	3.64	4.69	5.73	6.78	7.83	8.88	9.98	11.09	12.20	13.67	6 / 7		
reaction time	0.139	interval		7 steps	1.08	1.05	1.04	1.05	1.05	1.10	1.11	1.11	1.47		3.15	3.15
wind	-0.8 m/s	velocity	5.32	8.62	8.70	8.79	8.70	8.70	8.70	8.31	8.23	8.23	9.54	8.05	8.70	8.70
Lakka, Elmo (FIN) (1993)																
Semi-Final 2	- 2020 Olympic Games (Tokyo, JPN) (TV Analysis)															
date	04-Aug-21	time	2.60	3.68	4.73	5.79	6.85	7.89	8.93	10.00	11.11	12.19	13.67	3 / 7		
reaction time	0.139	interval		7 steps	1.08	1.05	1.06	1.06	1.04	1.04	1.07	1.11	1.08	1.48	3.19	3.14
wind	0.1 m/s	velocity	5.28	8.46	8.70	8.62	8.62	8.79	8.79	8.54	8.23	8.46	9.47	8.05	8.60	8.73
King, David (GBR) (1994)																
Semi-Final 3	- 2020 Olympic Games (Tokyo, JPN) (TV Analysis)															
date	04-Aug-21	time	2.62	3.65	4.72	5.78	6.82	7.85	8.89	9.92	11.02	12.13	13.67	2 / 7		
reaction time	0.141	interval		7 steps	1.03	1.07	1.06	1.04	1.03	1.04	1.03	1.10	1.11	1.54	3.16	3.11
wind	-0.1 m/s	velocity	5.24	8.87	8.54	8.62	8.79	8.87	8.79	8.87	8.31	8.23	9.10	8.05	8.68	8.82
Walters, Ruebin (TTO) (1995)																
FINAL	- 2022 New York Grand Prix (New York, NY) (TV Analysis)															
date	12-Jun-22	time	2.53	3.60	4.66	5.73	6.77	7.83	8.90	9.95	11.03	12.12	13.67	2 / 7		
reaction time	0.139	interval		1.07	1.06	1.07	1.04	1.06	1.07	1.05	1.08	1.09	1.55		3.20	3.17
wind	1.6 m/s	velocity	5.42	8.54	8.62	8.54	8.79	8.62	8.54	8.70	8.46	8.39	9.05	8.05	8.57	8.65
Bennett, Orlando (JAM) (1999)																
Semi-Final 1	- 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															
date	17-Jul-22	time	2.56	3.60	4.70	5.76	6.80	7.85	8.90	9.96	11.06	12.17	13.67	2 / 6		
reaction time	0.139	interval		1.04	1.10	1.06	1.04	1.05	1.05	1.06	1.10	1.11	1.50		3.20	3.14
wind	-0.6 m/s	velocity	5.36	8.79	8.31	8.62	8.79	8.70	8.70	8.62	8.31	8.23	9.35	8.05	8.57	8.73
Joseph, Jason (SUI) (1998)																
Semi-Final 1	- 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															
date	17-Jul-22	time	2.58	3.63	4.66	5.70	6.75	7.80	8.86	9.96	11.03	12.17	13.67	7 / 7		
reaction time	0.149	interval		7 steps	1.05	1.03	1.04	1.05	1.05	1.06	1.10	1.07	1.14	1.50	3.12	3.16
wind	-0.6 m/s	velocity	5.32	8.70	8.87	8.79	8.70	8.70	8.62	8.31	8.54	8.02	9.35	8.05	8.79	8.68
Rollins, Louis (USA) (1996)																
FINAL	- 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)															
date	21-May-23	time	2.60	3.70	4.75	5.83	6.87	7.92	8.97	10.04	11.13	12.25	13.67	1 / 7		
reaction time	0.179	interval		1.10	1.05	1.08	1.04	1.05	1.05	1.07	1.09	1.12	1.42		3.23	3.14
wind	4.0 m/s	velocity	5.28	8.31	8.70	8.46	8.79	8.70	8.70	8.54	8.39	8.16	9.87	8.05	8.49	8.73
Warner, Damion (CAN) (1989)																
Decathlon - Heat 3	- 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															
date	26-Aug-23	time	2.62	3.68	4.76	5.82	6.85	7.90	8.98	10.03	11.10	12.25	13.67	4 / 1		
reaction time	0.151	interval		7 steps	1.06	1.08	1.06	1.03	1.05	1.08	1.05	1.07	1.15	1.42	3.20	3.16
wind	0.2 m/s	velocity	5.24	8.62	8.46	8.62	8.87	8.70	8.46	8.70	8.54	7.95	9.87	8.05	8.57	8.68
Vick, Brahmir (USA) (2002)																
Semi-Final 1	- 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															
date	27-Jun-24	time	2.57	3.65	4.69	5.74	6.78	7.84	8.90	9.98	11.05	12.18	13.67	1 / 7		
reaction time		interval		1.08	1.04	1.05	1.04	1.06	1.06	1.08	1.07	1.13	1.49		3.17	3.16
wind	0.3 m/s	velocity	5.34	8.46	8.79	8.70	8.79	8.62	8.62	8.46	8.54	8.09	9.41	8.05	8.65	8.68
Xie Wenjun (CHN) (1990)																
FINAL	- 2024 Chinese National Grand Prix Final (Rizhao, CHN)															
date	30-Jun-24	time	2.65	3.74	4.79	5.82	6.87	7.93	8.96	10.02	11.09	12.19	13.67	3 / 8		
reaction time	0.156	interval		7 steps	1.09	1.05	1.03	1.05	1.06	1.03	1.06	1.07	1.10	1.48	3.17	3.14
wind	0.9 m/s	velocity	5.18	8.39	8.70	8.87	8.70	8.62	8.87	8.62	8.54	8.31	9.47	8.05	8.65	8.73

Czykier, Damian (POL) (1992)																
Heat 2 - 2024 Meeting de Paris (Paris, FRA)																
date	07-Jul-24	time	2.43	3.53	4.56	5.59	6.62	7.67	8.72	9.80	10.89	12.00		13.67	1 / 7	
reaction time	0.152	interval	7 steps	1.10	1.03	1.03	1.03	1.05	1.05	1.08	1.09	1.11	1.67			3.16 3.13 3.28
wind	0.4 m/s	velocity	5.65	8.31	8.87	8.87	8.87	8.70	8.70	8.46	8.39	8.23	8.40	8.05		8.68 8.76 8.36
Kiljan, Krzysztof (POL) (1999)																
Heat 3 - 2024 Olympic Games (Paris, FRA)																
date	04-Aug-24	time	2.41	3.49	4.55	5.60	6.64	7.69	8.75	9.82	10.90	12.01		13.67	9 / 8	
reaction time	0.153	interval	7 steps	1.08	1.06	1.05	1.04	1.05	1.06	1.07	1.08	1.11	1.66			3.19 3.15 3.26
wind	1.1 m/s	velocity	5.69	8.46	8.62	8.70	8.79	8.70	8.62	8.54	8.46	8.23	8.45	8.05		8.60 8.70 8.41
Willis, Tayleb (AUS) (2003)																
Repechage 3 - 2024 Olympic Games (Paris, FRA)																
date	06-Aug-24	time	2.38	3.46	4.52	5.56	6.61	7.69	8.77	9.86	10.95	12.06		13.67	6 / 5	
reaction time	0.160	interval		1.08	1.06	1.04	1.05	1.08	1.08	1.09	1.09	1.11	1.61			3.18 3.21 3.29
wind	-1.1 m/s	velocity	5.76	8.46	8.62	8.79	8.70	8.46	8.46	8.39	8.39	8.23	8.71	8.05		8.62 8.54 8.33
Yang Quanlei (CHN) (1999)																
FINAL - 2024 Chinese National Championships (Quzhou, CHN)																
date	16-Sep-24	time	2.62	3.72	4.77	5.81	6.84	7.89	8.96	10.04	11.13	12.22		13.67	2 / 7	
reaction time	0.153	interval		1.10	1.05	1.04	1.03	1.05	1.07	1.08	1.09	1.09	1.45			3.19 3.15 3.26
wind	0.2 m/s	velocity	5.24	8.31	8.70	8.79	8.87	8.70	8.54	8.46	8.39	8.39	9.67	8.05		8.60 8.70 8.41
Foster, Charles (USA) (1953)																
Heat 1 - 1976 Olympic Games (Montreal, CAN)																
date	26-Jul-76	time	2.4		5.5	6.6								13.68	6 / 1	
reaction time		interval			3.15	1.07										3.15
wind	0.0 m/s	velocity	5.84		8.70	8.54								8.04		8.70
Ridgeon, Jon (GBR) (1967)																
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)																
date	26-Sep-88	time	2.60	3.73	4.77	5.84	6.89	7.97	9.05	10.13	11.20	12.31		13.68	1 / 4	
reaction time	0.170	interval		1.13	1.04	1.07	1.05	1.08	1.08	1.08	1.07	1.11	1.37			3.24 3.21 3.26
wind	0.0 m/s	velocity	5.28	8.09	8.79	8.54	8.70	8.46	8.46	8.46	8.54	8.23	10.23	8.04		8.46 8.54 8.41
Crear, Mark (USA) (1968)																
FINAL - 2003 USATF National Championships (Palo Alto, CA)																
date	21-Jun-03	time	2.44	3.54	4.59	5.66	6.69	7.70	8.73	9.78	10.83	11.93		13.68	8 / 6	
reaction time		interval		1.10	1.05	1.07	1.03	1.01	1.03	1.05	1.05	1.10	1.75			3.22 3.07 3.20
wind	-2.4 m/s	velocity	5.62	8.31	8.70	8.54	8.87	9.05	8.87	8.70	8.70	8.31	8.01	8.04		8.52 8.93 8.57
Bitzi, Ivan (SUI) (1975)																
Heat 4 - 2006 European Championships (Göteborg, SWE)																
date	11-Aug-06	time	2.71	3.77	4.82	5.87	6.91	7.96	9.02	10.12	11.21	12.30		13.68	4 / 4	
reaction time		interval		1.06	1.05	1.05	1.04	1.05	1.06	1.10	1.09	1.09	1.38			3.16 3.15 3.28
wind	-1.1 m/s	velocity	5.06	8.62	8.70	8.70	8.79	8.70	8.62	8.31	8.39	8.39	10.16	8.04		8.68 8.70 8.36
Merritt, Aries (USA) (1985)																
Heat 2 - 2007 USATF National Championships (Indianapolis, IN)																
date	23-Jun-07	time	2.75	3.89	4.92	5.99	7.06	8.11	9.16	10.21	11.26	12.35		13.68	2 / 2	
reaction time		interval		1.14	1.03	1.07	1.07	1.05	1.05	1.05	1.05	1.09	1.33			3.24 3.17 3.19
wind	-1.9 m/s	velocity	4.99	8.02	8.87	8.54	8.54	8.70	8.70	8.70	8.70	8.39	10.54	8.04		8.46 8.65 8.60
Turner, Andy (GBR) (1980)																
FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)																
date	14-Sep-08	time	2.65	3.74	4.79	5.83	6.88	7.93	8.98	10.06	11.14	12.24		13.68	2 / 7	
reaction time	0.125	interval		1.09	1.05	1.04	1.05	1.05	1.05	1.08	1.08	1.10	1.44			3.18 3.15 3.26
wind	-1.3 m/s	velocity	5.18	8.39	8.70	8.79	8.70	8.70	8.70	8.46	8.46	8.31	9.74	8.04		8.62 8.70 8.41
Eaton, Ashton (USA) (1988)																
Decathlon - Heat 2 - 2010 NCAA National Championships (Eugene, OR)																
date	01-Jun-10	time	2.4	3.5	4.7	5.7	6.7	7.7	8.8	9.9	11.1	12.1		13.68	6 / 1	
reaction time		interval		1.1	1.2	1.0	1.0	1.0	1.1	1.1	1.2	1.0	1.58			3.30 3.10 3.30
wind	1.6 m/s	velocity	5.72	8.31	7.62	9.14	9.14	9.14	8.31	8.31	7.62	9.14	8.87	8.04		8.31 8.85 8.31
Omuro, Hideki (JPN) (1990)																
FINAL - 2016 West Japan Carnival (Kita-Kyushu, JPN)																
date	03-Nov-16	time	2.62	3.69	4.74	5.79	6.84	7.91	8.98	10.05	11.13	12.24		13.68	5 / 1	
reaction time		interval		1.07	1.05	1.05	1.05	1.07	1.07	1.07	1.08	1.11	1.44			3.17 3.19 3.26
wind	1.1 m/s	velocity	5.24	8.54	8.70	8.70	8.70	8.54	8.54	8.54	8.46	8.23	9.74	8.04		8.65 8.60 8.41
Eaton, Jarret (USA) (1989)																

FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	29-Apr-17	time	2.50	3.56	4.60	5.60	6.64	7.68	8.76	9.86	10.96	12.10		13.68	2 / 8			
reaction time		interval	7 steps	1.06	1.04	1.00	1.04	1.04	1.08	1.10	1.10	1.14	1.58			3.10	3.16	3.34
wind	1.8 m/s	velocity	5.49	8.62	8.79	9.14	8.79	8.79	8.46	8.31	8.31	8.02	8.87	8.04		8.85	8.68	8.21

Kim Byung-Jun (KOR) (1991)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Michitaka Memorial (Osaka, JPN)*(2017) - tfdata-store.com/2017/05/08/post-413/*

date	07-May-17	time	2.60	3.68	4.74	5.81	6.88	7.93	8.99	10.04	11.11	12.20		13.68	8 / 2			
reaction time		interval	7 steps	1.08	1.06	1.07	1.07	1.05	1.06	1.05	1.07	1.09	1.48			3.21	3.18	3.21
wind	-0.8 m/s	velocity	5.28	8.46	8.62	8.54	8.54	8.70	8.62	8.70	8.54	8.39	9.47	8.04		8.54	8.62	8.54

Kim Byung-Jun (KOR) (1991)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)*(2017) - tfdata-store.com/2017/05/08/post-413/*

date	07-May-17	time	2.67	3.74	4.79	5.82	6.87	7.91	8.96	10.03	11.12	12.21		13.68	2 / 1			
reaction time		interval	7 steps	1.07	1.05	1.03	1.05	1.04	1.05	1.07	1.09	1.09	1.47			3.15	3.14	3.25
wind	-1.5 m/s	velocity	5.14	8.54	8.70	8.87	8.70	8.79	8.70	8.54	8.39	8.39	9.54	8.04		8.70	8.73	8.44

Tanaka, Shinya (JPN) (1993)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Fuse Sprint (Tottori, JPN)*(2017) - tfdata-store.com/2017/06/04/post-848/*

date	04-Jun-17	time	2.61	3.68	4.73	5.79	6.85	7.92	8.99	10.07	11.16	12.25		13.68	9 / 3			
reaction time		interval	7 steps	1.07	1.05	1.06	1.06	1.07	1.07	1.08	1.09	1.09	1.43			3.18	3.20	3.26
wind	3.2 m/s	velocity	5.26	8.54	8.70	8.62	8.62	8.54	8.54	8.46	8.39	8.39	9.80	8.04		8.62	8.57	8.41

Wado, Tatsuya (JPN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Fuse Sprint (Tottori, JPN)*(2017) - tfdata-store.com/2017/06/04/post-848/*

date	04-Jun-17	time	2.58	3.66	4.70	5.75	6.81	7.87	8.92	9.99	11.08	12.18		13.68	8 / 4			
reaction time		interval		1.08	1.04	1.05	1.06	1.06	1.05	1.07	1.09	1.10	1.50			3.17	3.17	3.26
wind	3.2 m/s	velocity	5.32	8.46	8.79	8.70	8.62	8.62	8.70	8.54	8.39	8.31	9.35	8.04		8.65	8.65	8.41

Kuriki, Anthony Tyrell (JPN) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2017 Japanese National Championships (Osaka, JPN)*(2017) - tfdata-store.com/2017/07/13/post-1040/*

date	24-Jun-17	time	2.66	3.73	4.79	5.85	6.90	7.95	9.01	10.08	11.16	12.26		13.68	5 / 3			
reaction time	0.140	interval	7 steps	1.07	1.06	1.06	1.05	1.05	1.06	1.07	1.08	1.10	1.42			3.19	3.16	3.25
wind	1.3 m/s	velocity	5.16	8.54	8.62	8.62	8.70	8.70	8.62	8.54	8.46	8.31	9.87	8.04		8.60	8.68	8.44

Guo Zhongjie (CHN) (2001)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)*CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.64	3.70	4.75	5.77	6.79	7.82	8.87	9.93	11.03	12.14		13.68	9 / 5			
reaction time	0.162	interval		1.06	1.05	1.02	1.02	1.03	1.05	1.06	1.10	1.11	1.54	PB		3.13	3.10	3.27
wind	-0.3 m/s	velocity	5.20	8.62	8.70	8.96	8.96	8.87	8.70	8.62	8.31	8.23	9.10	8.04		8.76	8.85	8.39

Yokochi, Taiga (JPN) (2000)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)*Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season*

date	29-Apr-21	time	2.65	3.75	4.81	5.85	6.89	7.93	8.99	10.06	11.14	12.24		13.68	1 / 6			
reaction time		interval	7 steps	1.10	1.06	1.04	1.04	1.04	1.06	1.07	1.08	1.10	1.44			3.20	3.14	3.25
wind	1.7 m/s	velocity	5.18	8.31	8.62	8.79	8.79	8.79	8.62	8.54	8.46	8.31	9.74	8.04		8.57	8.73	8.44

Nomoto, Syuusei (JPN) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)*Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season*

date	08-May-22	time	2.57	3.70	4.79	5.83	6.88	7.91	8.97	10.05	11.14	12.23		13.68	3 / 4			
reaction time	0.156	interval	7 steps	1.13	1.09	1.04	1.05	1.03	1.06	1.08	1.09	1.09	1.45			3.26	3.14	3.26
wind	0.1 m/s	velocity	5.34	8.09	8.39	8.79	8.70	8.87	8.62	8.46	8.39	8.39	9.67	8.04		8.41	8.73	8.41

Ishida Thomas, Higashi (JPN) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2022 Japanese National Championships (Osaka, JPN)*Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season*

date	12-Jun-22	time	2.55	3.65	4.68	5.71	6.75	7.81	8.89	9.97	11.09	12.20		13.68	8 / 7			
reaction time	0.147	interval	7 steps	1.10	1.03	1.03	1.04	1.06	1.08	1.08	1.12	1.11	1.48			3.16	3.18	3.31
wind	-1.2 m/s	velocity	5.38	8.31	8.87	8.87	8.79	8.62	8.46	8.46	8.16	8.23	9.47	8.04		8.68	8.62	8.28

Liu Junxi (CHN) (2003)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2022 Chinese National Grand Prix (Huangshi, CHN)*Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers*

date	15-Jul-22	time	2.57	3.64	4.68	5.73	6.78	7.85	8.92	10.00	11.10	12.19		13.68	/ 1			
reaction time		interval		1.07	1.04	1.05	1.05	1.07	1.07	1.08	1.10	1.09	1.49	PB		3.16	3.19	3.27
wind	-0.2 m/s	velocity	5.34	8.54	8.79	8.70	8.70	8.54	8.54	8.46	8.31	8.39	9.41	8.04		8.68	8.60	8.39

Ishikawa, Shuhei (JPN) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)*Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season*

date	17-Jul-22	time	2.63	3.70	4.78	5.85	6.90	7.95	9.02	10.07	11.14	12.25		13.68	1 / 8			
reaction time	0.144	interval	7 steps	1.07	1.08	1.07	1.05	1.05	1.07	1.05	1.07	1.11	1.43			3.22	3.17	3.23
wind	-0.6 m/s	velocity	5.22	8.54	8.46	8.54	8.70	8.70	8.54	8.70	8.54	8.23	9.80	8.04		8.52	8.65	8.49

Pereira, Rafael (BRA) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)*Omega Timing (2023) - diamond league race analysis*

date	28-May-23	time	2.43	3.52	4.57	5.62	6.66	7.70	8.77	9.82	10.90	12.01	13.68	8 / 6				
reaction time	0.165	interval		1.09	1.05	1.05	1.04	1.04	1.07	1.05	1.08	1.11	1.67		3.19	3.15	3.24	
wind	-1.3 m/s	velocity	5.65	8.39	8.70	8.70	8.79	8.79	8.54	8.70	8.46	8.23	8.40	8.04	8.60	8.70	8.46	
Kotani, Arata (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Fuse Sprint (Tottori, JPN)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date	02-Jun-24	time	2.61	3.66	4.73	5.78	6.84	7.90	8.93	10.05	11.14	12.24	13.68	9 / 7				
reaction time	0.148	interval		1.05	1.07	1.05	1.06	1.06	1.03	1.12	1.09	1.10	1.44		3.17	3.15	3.31	
wind	1.3 m/s	velocity	5.26	8.70	8.54	8.70	8.62	8.62	8.87	8.16	8.39	8.31	9.74	8.04	8.65	8.70	8.28	
Takajo, Koki (JPN) (2008)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)			Takashima (2024) - national high school sports festival - biomechanics data															
date	01-Aug-24	time	2.64	3.70	4.77	5.81	6.84	7.90	8.97	10.03	11.12	12.20	13.68	5 / 2				
reaction time	0.136	interval		1.06	1.07	1.04	1.03	1.06	1.07	1.06	1.09	1.08	1.48	PB	3.17	3.16	3.23	
wind	-0.7 m/s	velocity	5.20	8.62	8.54	8.79	8.87	8.62	8.54	8.62	8.39	8.46	9.47	8.04	8.65	8.68	8.49	
Munkelt, Thomas (GDR) (1952)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 1976 Olympic Games (Montreal, CAN)			Lamare (1976) - les jeux de la XXI olympia, Montreal 1976															
date	26-Jul-76	time	2.3			5.5	6.6							13.69	1 / 1			
reaction time		interval	7 steps			3.22	1.12								3.22			
wind	0.0 m/s	velocity	6.04			8.52	8.16							8.04	8.52			
Munkelt, Thomas (GDR) (1952)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1981 USSR vs. GDR (Tbilisi, URS)			Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies															
date	26-Jun-81	time	2.56	3.59	4.75	5.78	6.81	7.86	8.94	10.00	11.14	12.32	13.69	/ 1				
reaction time		interval		1.03	1.16	1.03	1.03	1.05	1.08	1.06	1.14	1.18	1.37		3.22	3.16	3.38	
wind	???	velocity	5.36	8.87	7.88	8.87	8.87	8.70	8.46	8.62	8.02	7.75	10.23	8.04	8.52	8.68	8.11	
Jackson, Colin (GBR) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1985 European Junior Championships (Cottbus, GDR) (99cm)			Warburton (1985) - 1985 european junior championships - hurdles															
date	23-Aug-85	time	2.32	3.41	4.44	5.51	6.57	7.63	8.69	9.76	10.87	11.96	13.69	/ 2				
reaction time		interval		1.09	1.03	1.07	1.06	1.06	1.06	1.07	1.11	1.09	1.73		3.19	3.18	3.27	
wind	1.8 m/s	velocity	5.91	8.39	8.87	8.54	8.62	8.62	8.62	8.54	8.23	8.39	8.10	8.04	8.60	8.62	8.39	
Yarbrough, John (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2007 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2007)															
date	23-Jun-07	time	2.70	3.77	4.84	5.86	6.89	7.94	9.03	10.09	11.18	12.26	13.69	4 / 3				
reaction time		interval		1.07	1.07	1.02	1.03	1.05	1.09	1.06	1.09	1.08	1.43		3.16	3.17	3.23	
wind	-1.9 m/s	velocity	5.08	8.54	8.54	8.96	8.87	8.70	8.39	8.62	8.39	8.46	9.80	8.04	8.68	8.65	8.49	
Kronberg, Robert (SWE) (1976)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 Windsprint (Sundsvall, SWE)			(2008) - www.ssg.se/en/Windsprint/Split-times/															
date	06-Jul-08	time		3.76			6.85			10.06				13.69	5 / 2			
reaction time		interval					3.09			3.21			3.63					
wind	0.5 m/s	velocity		6.08			8.87			8.54			8.90	8.04				
Quiñónez, Jackson (ESP) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 Olympic Games (Beijing, CHN)			Tsiokanos (2018) - race pattern of men's 110m hurdles- time analysis of olympic hurdle performance															
date	21-Aug-08	time	2.64	3.72	4.76	5.79	6.82	7.87	8.92	9.99	11.10	12.20	13.69	9 / 8				
reaction time	0.187	interval		1.08	1.04	1.03	1.03	1.05	1.05	1.07	1.11	1.10	1.49		3.15	3.13	3.28	
wind	0.1 m/s	velocity	5.20	8.46	8.79	8.87	8.87	8.70	8.70	8.54	8.23	8.31	9.41	8.04	8.70	8.76	8.36	
Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
A FINAL - 2012 Mikio Oda Memorial (Hiroshima, JPN)			Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13															
date	29-Apr-12	time	2.59	3.65	4.71	5.78	6.85	7.93	8.99	10.06	11.15	12.27	13.69	6 / 3				
reaction time		interval		1.06	1.06	1.07	1.07	1.08	1.06	1.07	1.09	1.12	1.42		3.19	3.21	3.28	
wind	2.1 m/s	velocity	5.30	8.62	8.62	8.54	8.54	8.46	8.62	8.54	8.39	8.16	9.87	8.04	8.60	8.54	8.36	
Mazáč, Martin (CZE) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)			Feher (2013) - Final report from the men's & women's Czech Republic national championships															
date	15-Jun-13	time	2.66	3.75	4.80	5.85	6.89	7.95	8.98	10.06	11.12	12.20	13.69	4 / 1				
reaction time	0.161	interval		1.09	1.05	1.05	1.04	1.06	1.03	1.08	1.06	1.08	1.49		3.19	3.13	3.22	
wind	-0.6 m/s	velocity	5.16	8.39	8.70	8.70	8.79	8.62	8.87	8.46	8.62	8.46	9.41	8.04	8.60	8.76	8.52	
Kato, Takuma (JPN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Japanese National Junior Championships (Mizuho, JPN) (99cm)			(2016.10.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	21-Oct-16	time	2.62	3.70	4.75	5.80	6.84	7.91	8.98	10.05	11.18	12.28	13.69	6 / 1				
reaction time		interval		1.08	1.05	1.05	1.04	1.07	1.07	1.07	1.13	1.10	1.41		3.18	3.18	3.30	
wind	-0.2 m/s	velocity	5.24	8.46	8.70	8.70	8.79	8.54	8.54	8.54	8.09	8.31	9.94	8.04	8.62	8.62	8.31	
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 All-Star Night Athletics (Hiratsuka, JPN)			(2016.07.23) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	23-Jul-16	time	2.62	3.68	4.73	5.78	6.83	7.89	8.96	10.05	11.16	12.26	13.69	4 / 1				

reaction time	0.144	interval	1.06	1.05	1.05	1.05	1.06	1.07	1.09	1.11	1.10	1.43			3.16	3.18	3.30
wind	0.5 m/s	velocity	5.24	8.62	8.70	8.70	8.70	8.62	8.54	8.39	8.23	8.31	9.80	8.04	8.68	8.62	8.31

Douvalidis, Konstadinos (GRE) (198)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Athletissima (Lausanne, SUI) (TV Analysis)			<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>															
date	25-Aug-16	time	2.58	3.66	4.70	5.74	6.76	7.80	8.86	9.92	11.00	12.10		13.69	8 / 8			
reaction time	0.136	interval	1.08	1.04	1.04	1.02	1.04	1.06	1.06	1.08	1.10	1.59				3.16	3.12	3.24
wind	0.5 m/s	velocity	5.32	8.46	8.79	8.79	8.96	8.79	8.62	8.62	8.46	8.31	8.82	8.04		8.68	8.79	8.46

Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Tashima Memorial (Yamaguchi, JPN)			<i>(2016.10.26) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en</i>															
date	23-Oct-16	time	2.62	3.68	4.73	5.78	6.83	7.89	8.96	10.05	11.16	12.26		13.69	4 / 1			
reaction time		interval	1.06	1.05	1.05	1.05	1.06	1.07	1.09	1.11	1.10	1.43				3.16	3.18	3.30
wind	0.2 m/s	velocity	5.24	8.62	8.70	8.70	8.70	8.62	8.54	8.39	8.23	8.31	9.80	8.04		8.68	8.62	8.31

Masuno, Genta (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Michitaka Memorial (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>															
date	07-May-17	time	2.63	3.70	4.76	5.83	6.88	7.93	8.99	10.07	11.15	12.24		13.69	4 / 3			
reaction time		interval	1.07	1.06	1.07	1.05	1.05	1.06	1.08	1.08	1.09	1.45				3.20	3.16	3.25
wind	-0.8 m/s	velocity	5.22	8.54	8.62	8.54	8.70	8.70	8.62	8.46	8.46	8.39	9.67	8.04		8.57	8.68	8.44

Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)			<i>(2017) - tfdata-store.com/2017/05/22/post-599/</i>															
date	21-May-17	time	2.64	3.72	4.78	5.84	6.89	7.95	9.02	10.07	11.15	12.24		13.69	6 / 4			
reaction time	0.151	interval	7 steps	1.08	1.06	1.06	1.05	1.06	1.07	1.05	1.08	1.09	1.45			3.20	3.18	3.22
wind	-1.8 m/s	velocity	5.20	8.46	8.62	8.62	8.70	8.62	8.54	8.70	8.46	8.39	9.67	8.04		8.57	8.62	8.52

Masuno, Genta (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2017 Fuse Sprint (Tottori, JPN)			<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>															
date	04-Jun-17	time	2.63	3.69	4.78	5.83	6.89	7.94	9.02	10.09	11.18	12.27		13.69	2 / 4			
reaction time		interval	1.06	1.09	1.05	1.06	1.05	1.08	1.07	1.09	1.09	1.42				3.20	3.19	3.25
wind	1.5 m/s	velocity	5.22	8.62	8.39	8.70	8.62	8.70	8.46	8.54	8.39	8.39	9.87	8.04		8.57	8.60	8.44

Kuriki, Anthony Tyrell (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2017 Japanese National Championships (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>															
date	24-Jun-17	time	2.64	3.71	4.79	5.85	6.90	7.94	9.00	10.07	11.16	12.27		13.69	8 / 4			
reaction time	0.145	interval	7 steps	1.07	1.08	1.06	1.05	1.04	1.06	1.07	1.09	1.11	1.42			3.21	3.15	3.27
wind	0.6 m/s	velocity	5.20	8.54	8.46	8.62	8.70	8.79	8.62	8.54	8.39	8.23	9.87	8.04		8.54	8.70	8.39

Sato, Hiroyuki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Japanese National Championships (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>															
date	25-Jun-17	time	2.58	3.68	4.72	5.77	6.82	7.88	8.94	10.02	11.11	12.23		13.69	7 / 4			
reaction time	0.159	interval	1.10	1.04	1.05	1.05	1.06	1.06	1.08	1.09	1.12	1.46				3.19	3.17	3.29
wind	-0.2 m/s	velocity	5.32	8.31	8.79	8.70	8.70	8.62	8.62	8.46	8.39	8.16	9.60	8.04		8.60	8.65	8.33

Zeng Jianhang (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2019 Asian Athletics Championships (Doha, QAT)			<i>CAA Hurdle Development (2019)</i>															
date	23-Apr-19	time	2.55	3.60	4.67	5.70	6.76	7.82	8.89	9.98	11.07	12.21		13.69	7 / 3			
reaction time	0.153	interval	1.05	1.07	1.03	1.06	1.06	1.07	1.09	1.09	1.14	1.48				3.15	3.19	3.32
wind	2.1 m/s	velocity	5.38	8.70	8.54	8.87	8.62	8.62	8.54	8.39	8.39	8.02	9.47	8.04		8.70	8.60	8.26

King, David (GBR) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	18-Aug-19	time	2.62	3.73	4.80	5.83	6.86	7.89	8.91	9.96	11.05	12.15		13.69	3 / 7			
reaction time	0.136	interval	7 steps	1.11	1.07	1.03	1.03	1.03	1.02	1.05	1.09	1.10	1.54			3.21	3.08	3.24
wind	-0.2 m/s	velocity	5.24	8.23	8.54	8.87	8.87	8.87	8.96	8.70	8.39	8.31	9.10	8.04		8.54	8.90	8.46

Zeng Jianhang (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)			<i>CAA Hurdle Development (2020)</i>															
date	16-Sep-20	time	2.61	3.69	4.72	5.75	6.81	7.87	8.94	10.02	11.12	12.22		13.69	6 / 2			
reaction time	0.159	interval	1.08	1.03	1.03	1.06	1.06	1.07	1.08	1.10	1.10	1.47				3.14	3.19	3.28
wind	0.3 m/s	velocity	5.26	8.46	8.87	8.87	8.62	8.62	8.54	8.46	8.31	8.31	9.54	8.04		8.73	8.60	8.36

Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)			<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>															
date	20-Sep-20	time	2.58	3.63	4.68	5.73	6.78	7.83	8.88	9.97	11.06	12.19		13.69	4 / 2			
reaction time	0.151	interval	1.05	1.05	1.05	1.05	1.05	1.05	1.09	1.09	1.13	1.50				3.15	3.15	3.31
wind	0.1 m/s	velocity	5.32	8.70	8.70	8.70	8.70	8.70	8.39	8.39	8.09	9.35	8.04			8.70	8.70	8.28

Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)			<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>															
date	24-Oct-20	time	2.60	3.66	4.71	5.75	6.82	7.87	8.94	10.00	11.10	12.20		13.69	6 / 4			
reaction time		interval	7 steps	1.06	1.05	1.04	1.07	1.05	1.07	1.06	1.10	1.10	1.49			3.15	3.19	3.26

wind	0.6 m/s	velocity	5.28	8.62	8.70	8.79	8.54	8.70	8.54	8.62	8.31	8.31	9.41	8.04		8.70	8.60	8.41	
Masuno, Genta (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Race 2 - 2020 World Athletics Trials (Fuji, JPN)			<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>																
date	06-Sep-20	time	2.60	3.67	4.73	5.76	6.81	7.88	8.95	10.03	11.12	12.23		13.69	3 / 1		3.16	3.19	3.28
reaction time		interval		1.07	1.06	1.03	1.05	1.07	1.07	1.08	1.09	1.11	1.46				8.68	8.60	8.36
wind	1.3 m/s	velocity	5.28	8.54	8.62	8.87	8.70	8.54	8.54	8.46	8.39	8.23	9.60	8.04					
Ning Xiaohan (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)			<i>CAA Hurdle Development (2021)</i>																
date	12-Jun-21	time	2.62	3.68	4.72	5.76	6.81	7.86	8.91	9.98	11.09	12.19		13.69	3 / 1		3.14	3.15	3.28
reaction time	0.143	interval		1.06	1.04	1.04	1.05	1.05	1.05	1.07	1.11	1.10	1.50				8.73	8.70	8.36
wind	0.9 m/s	velocity	5.24	8.62	8.79	8.79	8.70	8.70	8.70	8.54	8.23	8.31	9.35	8.04					
Nishi, Tetsuro (JPN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)			<i>Shibayama (2021) - national high school and U20 national championships</i>																
date	01-Aug-21	time	2.65	3.74	4.79	5.85	6.89	7.95	9.00	10.07	11.14	12.23		13.69	3 / 1		3.20	3.15	3.23
reaction time	0.128	interval	7 steps	1.09	1.05	1.06	1.04	1.06	1.05	1.07	1.07	1.09	1.46	PB			8.57	8.70	8.49
wind	1.4 m/s	velocity	5.18	8.39	8.70	8.62	8.79	8.62	8.70	8.54	8.54	8.39	9.60	8.04					
Al-Yoha, Yaqoub (KUW) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																
date	03-Aug-21	time	2.66	3.70	4.70	5.73	6.81	7.86	8.90	10.01	11.09	12.22		13.69	3 / 7		3.07	3.17	
reaction time	0.117	interval		1.04	1.00	1.03	1.08	1.05	1.04	1.11	1.08	1.13	1.47				8.93	8.65	
wind	-0.1 m/s	velocity	5.16	8.79	9.14	8.87	8.46	8.70	8.79	8.23	8.46	8.09	9.54	8.04					
Martinez, Asier (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																
date	18-Jun-22	time	2.58	3.64	4.66	5.68	6.68	7.70	8.76	9.84	10.92	12.02		13.69	6 / 7		3.10	3.08	3.26
reaction time	0.161	interval	7 steps	1.06	1.02	1.02	1.00	1.02	1.06	1.08	1.08	1.10	1.67				8.85	8.90	8.41
wind	-0.2 m/s	velocity	5.32	8.62	8.96	8.96	9.14	8.96	8.62	8.46	8.46	8.31	8.40	8.04					
Anderson, Nick (USA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)			<i>USATF (2022) - Results powered by Karmarush.com</i>																
date	26-Jun-22	time	2.50	3.56	4.61	5.66	6.66	7.78	8.82	9.90	10.94	12.04		13.69	3 / 7		3.16	3.16	3.22
reaction time		interval		1.06	1.05	1.05	1.00	1.12	1.04	1.08	1.04	1.10	1.65				8.68	8.68	8.52
wind	0.1 m/s	velocity	5.49	8.62	8.70	8.70	9.14	8.16	8.79	8.46	8.79	8.31	8.50	8.04					
Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)			<i>Omega Timing (2023) - diamond league race analysis</i>																
date	28-May-23	time	2.45	3.53	4.57	5.64	6.68	7.75	8.82	9.89	10.97	12.07		13.69	2 / 7		3.19	3.18	3.25
reaction time	0.183	interval	7 steps	1.08	1.04	1.07	1.04	1.07	1.07	1.07	1.08	1.10	1.62				8.60	8.62	8.44
wind	-1.3 m/s	velocity	5.60	8.46	8.79	8.54	8.79	8.54	8.54	8.54	8.46	8.31	8.65	8.04					
Simonelli, Lorenzo Ndele (ITA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	21-Aug-23	time	2.53	3.60	4.62	5.65	6.70	7.78	8.85	9.93	11.02	12.13		13.69	2 / 8		3.12	3.20	3.28
reaction time	0.151	interval	7 steps	1.07	1.02	1.03	1.05	1.08	1.07	1.08	1.09	1.11	1.56				8.79	8.57	8.36
wind	-0.2 m/s	velocity	5.42	8.54	8.96	8.87	8.70	8.46	8.54	8.46	8.39	8.23	8.99	8.04					
Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Michitaka Kinami Memorial (Osaka, JPN)			<i>Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season</i>																
date	12-May-24	time	2.62	3.68	4.73	5.78	6.83	7.88	8.95	10.03	11.10	12.21		13.69	8 / 6		3.16	3.17	3.26
reaction time	0.161	interval		1.06	1.05	1.05	1.05	1.05	1.07	1.08	1.07	1.11	1.48				8.68	8.65	8.41
wind	0.9 m/s	velocity	5.24	8.62	8.70	8.70	8.70	8.70	8.54	8.46	8.54	8.23	9.47	8.04					
Wright, Don (AUS) (1959)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 1983 IAAF World Championships (Helsinki, FIN)			<i>Knoke (1984) - the hurdles</i>																
date	11-Aug-83	time	2.55	3.68	4.77	5.75	6.81	7.82	9.00	10.04	11.10	12.19		13.70	/ 2		3.20	3.25	3.19
reaction time		interval		1.13	1.09	0.98	1.06	1.01	1.18	1.04	1.06	1.09	1.51				8.57	8.44	8.60
wind	2.1 m/s	velocity	5.38	8.09	8.39	9.33	8.62	9.05	7.75	8.79	8.62	8.39	9.28	8.03					
Gundersen, Gaute (NOR) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1997 European Cup (Munich, GER)			<i>Jung (2003) - http://www.fgs.uni-halle.de</i>																
date	22-Jun-97	time	2.66	3.74	4.78	5.82	6.86	7.91	8.98	10.04	11.14	12.26		13.70	/ 5		3.16	3.16	3.28
reaction time		interval		1.08	1.04	1.04	1.04	1.05	1.07	1.06	1.10	1.12	1.44				8.68	8.68	8.36
wind	0.2 m/s	velocity	5.16	8.46	8.79	8.79	8.79	8.70	8.54	8.62	8.31	8.16	9.74	8.03					
Olijar, Stanislav (LAT) (1979)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)			<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>																
date	24-Aug-99	time	2.59	3.64	4.67	5.67	6.68	7.70	8.73	9.81	10.95	12.09		13.70	3 / 6		3.08	3.06	3.36
reaction time	0.137	interval		1.05	1.03	1.00	1.01	1.02	1.03	1.08	1.14	1.14	1.61				8.90	8.96	8.16
wind	0.0 m/s	velocity	5.30	8.70	8.87	9.14	9.05	8.96	8.87	8.46	8.02	8.02	8.71	8.03					

Crews, Jerome (GER) (1977)																
FINAL - 2001 ISTAF (Berlin, GER)																
date	31-Aug-09	time	2.66	3.74	4.80	5.85	6.91	7.98	9.04	10.14	11.24	12.35		13.70		7 / 6
reaction time	0.180	interval		1.08	1.06	1.05	1.06	1.07	1.06	1.10	1.10	1.11			3.19	3.19
wind	1.0 m/s	velocity	5.16	8.46	8.62	8.70	8.62	8.54	8.62	8.31	8.31	8.23	10.39	8.03	8.60	8.60
Brown, Joel (USA) (1980)																
Heat 2 - 2007 USATF National Championships (Indianapolis, IN)																
date	23-Jun-07	time	2.75	3.80	4.85	5.92	6.96	8.02	9.08	10.14	11.21	12.33		13.70		3 / 4
reaction time		interval		1.05	1.05	1.07	1.04	1.06	1.06	1.10	1.07	1.12	1.37		3.17	3.16
wind	-1.9 m/s	velocity	4.99	8.70	8.70	8.54	8.79	8.62	8.62	8.62	8.54	8.16	10.23	8.03	8.65	8.68
Wado, Tatsuya (JPN) (1990)																
A FINAL - 2012 Mikio Oda Memorial (Hiroshima, JPN)																
date	29-Apr-12	time	2.58	3.65	4.73	5.78	6.84	7.92	8.98	10.04	11.15	12.26		13.70		5 / 4
reaction time		interval		1.07	1.08	1.05	1.06	1.08	1.06	1.10	1.11	1.14			3.20	3.20
wind	2.1 m/s	velocity	5.32	8.54	8.46	8.70	8.62	8.46	8.62	8.62	8.23	8.23	9.74	8.03	8.57	8.57
Omuro, Hideki (JPN) (1990)																
FINAL - 2013 Mikio Oda Memorial (Hiroshima, JPN)																
date	29-Apr-13	time	2.63	3.71	4.76	5.82	6.87	7.94	9.01	10.11	11.19	12.27		13.70		1 / 1
reaction time		interval		1.08	1.05	1.06	1.05	1.07	1.07	1.10	1.08	1.08	1.43		3.19	3.19
wind	0.7 m/s	velocity	5.22	8.46	8.70	8.62	8.70	8.54	8.54	8.31	8.46	8.46	9.80	8.03	8.60	8.60
de Vries, Ruan (RSA) (1986)																
FINAL - 2013 Windsprint (Sundsvall, SWE)																
date	28-Jul-13	time	2.68	3.77	4.83	5.89	6.95	8.00	9.04	10.10	11.16	12.24		13.70		6 / 4
reaction time		interval		1.09	1.06	1.06	1.06	1.05	1.04	1.06	1.06	1.08	1.46		3.21	3.15
wind	1.7 m/s	velocity	5.12	8.39	8.62	8.62	8.62	8.70	8.79	8.62	8.62	8.46	9.60	8.03	8.54	8.70
Vukicevic, Vladimir (NOR) (1991)																
FINAL - 2013 Windsprint (Sundsvall, SWE)																
date	28-Jul-13	time	2.62	3.68	4.73	5.80	6.85	7.92	8.99	10.06	11.13	12.23		13.70		4 / 5
reaction time		interval		1.06	1.05	1.07	1.05	1.07	1.07	1.07	1.07	1.10	1.47		3.18	3.19
wind	1.7 m/s	velocity	5.24	8.62	8.70	8.54	8.70	8.54	8.54	8.54	8.54	8.31	9.54	8.03	8.62	8.60
Higuchi, Rikuto (JPN) (1999)																
Semi-Final 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																
date	21-Oct-16	time	2.60	3.66	4.71	5.76	6.81	7.87	8.94	10.02	11.10	12.22		13.70		4 / 1
reaction time		interval		1.06	1.05	1.05	1.05	1.06	1.07	1.08	1.08	1.12	1.48		3.16	3.18
wind	-0.2 m/s	velocity	5.28	8.62	8.70	8.70	8.70	8.62	8.54	8.46	8.46	8.16	9.47	8.03	8.68	8.62
Omuro, Hideki (JPN) (1990)																
Heat 5 - 2016 West Japan Carnival (Kita-Kyushu, JPN)																
date	03-Nov-16	time	2.63	3.69	4.75	5.81	6.86	7.91	8.98	10.06	11.16	12.25		13.70		3 / 1
reaction time		interval		1.06	1.06	1.06	1.05	1.05	1.07	1.08	1.10	1.09	1.45		3.18	3.17
wind	1.5 m/s	velocity	5.22	8.62	8.62	8.62	8.70	8.70	8.54	8.46	8.31	8.39	9.67	8.03	8.62	8.65
Porter, Jeff (USA) (1985)																
FINAL - 2017 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)																
date	13-May-17	time	2.58	3.66	4.70	5.72	6.76	7.82	8.88	9.96	11.04	12.16		13.70		1 / 9
reaction time	0.141	interval		1.08	1.04	1.02	1.04	1.06	1.06	1.08	1.08	1.12	1.54		3.14	3.16
wind	0.5 m/s	velocity	5.32	8.46	8.79	8.96	8.79	8.62	8.62	8.46	8.46	8.16	9.10	8.03	8.73	8.68
Kim Byung-Jun (KOR) (1991)																
FINAL - 2017 Korean National Championships (Kimchun, KOR)																
date	02-Jun-17	time	2.63	3.76	4.83	5.90	6.90	8.03	9.06	10.13	11.20	12.27		13.70		1 / 1
reaction time		interval		1.13	1.07	1.07	1.00	1.13	1.03	1.07	1.07	1.07	1.43		3.27	3.16
wind	2.6 m/s	velocity	5.22	8.09	8.54	8.54	9.14	8.09	8.87	8.54	8.54	8.54	9.80	8.03	8.39	8.68
Nomoto, Syuusei (JPN) (1995)																
Semi-Final 1 - 2017 Japanese National Championships (Osaka, JPN)																
date	24-Jun-17	time	2.64	3.72	4.81	5.86	6.91	7.98	9.04	10.12	11.21	12.32		13.70		9 / 5
reaction time	0.156	interval	7 steps	1.08	1.09	1.05	1.05	1.07	1.06	1.08	1.09	1.11	1.38		3.22	3.18
wind	0.6 m/s	velocity	5.20	8.46	8.39	8.70	8.70	8.54	8.62	8.46	8.39	8.23	10.16	8.03	8.52	8.62
Furuya, Takumu (JPN) (1997)																
FINAL - 2017 Nambu Memorial (Sapporo, JPN)																
date	09-Jul-17	time	2.64	3.73	4.78	5.83	6.87	7.92	8.98	10.06	11.14	12.26		13.70		4 / 2
reaction time		interval		1.09	1.05	1.05	1.04	1.05	1.06	1.08	1.08	1.12	1.44		3.19	3.15
wind	2.7 m/s	velocity	5.20	8.39	8.70	8.70	8.79	8.70	8.62	8.46	8.46	8.16	9.74	8.03	8.60	8.70

Omoregie, David (GBR) (1995)																
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)																
date	09-Jul-17	time	2.52	3.64	4.74	5.80	6.84	7.88	8.92	9.98	11.06	12.16		13.70	7 / 8	
reaction time	0.127	interval		1.12	1.10	1.06	1.04	1.04	1.06	1.08	1.10	1.54			3.28	3.12
wind	0.0 m/s	velocity	5.44	8.16	8.31	8.62	8.79	8.79	8.62	8.46	8.31	9.10	8.03		8.36	8.79
Souza, Éder Antônio (BRA) (1986)																
Semi-Final 3 - 2017 IAAF World Championships (London, GBR)																
date	06-Aug-17	time	2.44	3.53	4.57	5.63	6.66	7.71	8.75	9.82	10.91	12.03		13.70	3 / 6	
reaction time	0.133	interval	7 steps	1.09	1.04	1.06	1.03	1.05	1.04	1.07	1.09	1.12	1.67		3.19	3.12
wind	0.3 m/s	velocity	5.62	8.39	8.79	8.62	8.87	8.70	8.79	8.54	8.39	8.16	8.40	8.03	8.60	8.79
Furuya, Takumu (JPN) (1997)																
Heat 3 - 2018 Mikio Oda Memorial (Hiroshima, JPN)																
date	29-Apr-18	time	2.65	3.71	4.77	5.83	6.88	7.95	9.00	10.07	11.15	12.24		13.70	2 / 3	
reaction time		interval		1.06	1.06	1.06	1.05	1.07	1.05	1.07	1.08	1.09	1.46		3.18	3.17
wind	2.2 m/s	velocity	5.18	8.62	8.62	8.62	8.70	8.54	8.70	8.54	8.46	8.39	9.60	8.03	8.62	8.65
Fontenot, Ryan (USA) (1986)																
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)																
date	19-May-19	time	2.67	3.75	4.82	5.91	6.95	8.01	9.06	10.10	11.18	12.27		13.70	6 / 6	
reaction time	0.157	interval		1.08	1.07	1.09	1.04	1.06	1.05	1.04	1.08	1.09	1.43		3.24	3.15
wind	2.9 m/s	velocity	5.14	8.46	8.54	8.39	8.79	8.62	8.70	8.79	8.46	8.39	9.80	8.03	8.46	8.70
Dickson, Michael (USA) (1997)																
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)																
date	10-Sep-19	time	2.60	3.68	4.72	5.78	6.86	7.93	8.96	10.10	11.16	12.23		13.70	6 / 5	
reaction time	0.189	interval		1.08	1.04	1.06	1.08	1.07	1.03	1.14	1.06	1.07	1.47		3.18	3.18
wind	0.1 m/s	velocity	5.28	8.46	8.79	8.62	8.46	8.54	8.87	8.02	8.62	8.54	9.54	8.03	8.62	8.62
Allen, Devon (USA) (1994)																
FINAL - 2019 IAAF World Championships (Doha, QAT)																
date	02-Oct-19	time	2.58	3.67	4.73	5.77	6.80	7.82	8.88	9.94	11.05	12.19		13.70	3 / 7	
reaction time	0.124	interval		1.09	1.06	1.04	1.03	1.02	1.06	1.06	1.11	1.14	1.51		3.19	3.11
wind	0.6 m/s	velocity	5.32	8.39	8.62	8.79	8.87	8.96	8.62	8.62	8.23	8.02	9.28	8.03	8.60	8.82
Dal Molin, Paolo (ITA) (1987)																
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																
date	17-Sep-20	time	2.50	3.52	4.60	5.66	6.70	7.78	8.88	9.96	11.06	12.18		13.70	1 / 9	
reaction time	0.134	interval	7 steps	1.02	1.08	1.06	1.04	1.08	1.10	1.08	1.10	1.12	1.52		3.16	3.22
wind	0.1 m/s	velocity	5.49	8.96	8.46	8.62	8.79	8.46	8.31	8.46	8.31	8.16	9.22	8.03	8.68	8.52
Ning Xiaohan (CHN) (2000)																
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)																
date	19-May-21	time	2.60	3.67	4.70	5.74	6.79	7.82	8.89	9.98	11.08	12.20		13.70	3 / 1	
reaction time	0.158	interval		1.07	1.03	1.04	1.05	1.03	1.07	1.09	1.10	1.12	1.50		3.14	3.15
wind	1.9 m/s	velocity	5.28	8.54	8.87	8.79	8.70	8.87	8.54	8.39	8.31	8.16	9.35	8.03	8.73	8.70
Zhang Honglin (CHN) (1994)																
FINAL - 2021 Chinese National Championships (Chongqing, CHN)																
date	25-Jun-21	time	2.60	3.67	4.73	5.76	6.82	7.87	8.93	9.99	11.12	12.21		13.70	5 / 2	
reaction time	0.158	interval		1.07	1.06	1.03	1.06	1.05	1.06	1.06	1.13	1.09	1.49		3.16	3.17
wind	1.6 m/s	velocity	5.28	8.54	8.62	8.87	8.62	8.70	8.62	8.62	8.09	8.39	9.41	8.03	8.68	8.65
Fofana, Hassane (ITA) (1992)																
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	03-Aug-21	time	2.70	3.73	4.80	5.86	6.89	7.93	9.01	10.09	11.13	12.26		13.70	6 / 8	
reaction time	0.161	interval		1.03	1.07	1.06	1.03	1.04	1.08	1.08	1.04	1.13	1.44		3.16	3.15
wind	-0.1 m/s	velocity	5.08	8.87	8.54	8.62	8.87	8.79	8.46	8.46	8.79	8.09	9.74	8.03	8.68	8.70
Fujii, Ryota (JPN) (1996)																
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)																
date	08-May-22	time	2.62	3.70	4.75	5.80	6.85	7.91	8.98	10.06	11.15	12.25		13.70	7 / 5	
reaction time	0.153	interval		1.08	1.05	1.05	1.05	1.06	1.07	1.08	1.09	1.10	1.45		3.18	3.18
wind	0.1 m/s	velocity	5.24	8.46	8.70	8.70	8.70	8.62	8.54	8.46	8.39	8.31	9.67	8.03	8.62	8.62
Koussi, Mohamed (MAR) (1994)																
FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)																
date	28-May-23	time	2.42	3.49	4.53	5.59	6.64	7.71	8.78	9.85	10.92	12.02		13.70	1 / 8	
reaction time	0.141	interval		1.07	1.04	1.06	1.05	1.07	1.07	1.07	1.07	1.10	1.68		3.17	3.19
wind	-1.3 m/s	velocity	5.67	8.54	8.79	8.62	8.70	8.54	8.54	8.54	8.54	8.31	8.35	8.03	8.65	8.60
Thorne, Craig (CAN) (2001)																

date	07-Sep-12	time	2.50	3.58	4.62	5.68	6.74	7.80	8.84	9.92	11.00	12.14	13.71	7 / 9				
reaction time	0.148	interval		1.08	1.04	1.06	1.06	1.06	1.04	1.08	1.08	1.14	1.57		3.18	3.16	3.30	
wind	0.3 m/s	velocity	5.49	8.46	8.79	8.62	8.62	8.62	8.79	8.46	8.46	8.02	8.93	8.02	8.62	8.68	8.31	
Sato, Hiroyuki (JPN) (1990)																		
Semi-Final 2 - 2013 Japanese National Championships (Chofu, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13																		
date	09-Jun-13	time	2.60	3.68	4.73	5.79	6.86	7.91	8.98	10.06	11.20	12.29	13.71	4 / 3				
reaction time		interval		1.08	1.05	1.06	1.07	1.05	1.07	1.08	1.14	1.09	1.42		3.19	3.19	3.31	
wind	1.2 m/s	velocity	5.28	8.46	8.70	8.62	8.54	8.70	8.54	8.46	8.02	8.39	9.87	8.02	8.60	8.60	8.28	
Fudaba, Hiroki (JPN) (1994)																		
FINAL - 2016 Japanese National Championships (Nagoya, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers																		
date	26-Jun-16	time	2.64	3.74	4.80	5.87	6.93	7.98	9.05	10.11	11.19	12.27	13.71	4 / 5				
reaction time	0.140	interval		1.10	1.06	1.07	1.06	1.05	1.07	1.06	1.08	1.08	1.44		3.23	3.18	3.22	
wind	2.4 m/s	velocity	5.20	8.31	8.62	8.54	8.62	8.70	8.54	8.62	8.46	8.46	9.74	8.02	8.49	8.62	8.52	
Kanai, Taio (JPN) (1995)																		
FINAL - 2017 Tokyo Six School Meeting (Tokyo, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
(2017) - tfdata-store.com/2017/04/10/post-342/																		
date	08-Apr-17	time	2.60	3.67	4.75	5.80	6.86	7.93	8.99	10.09	11.16	12.27	13.71	6 / 1				
reaction time		interval	7 steps	1.07	1.08	1.05	1.06	1.07	1.06	1.10	1.07	1.11	1.44	PB	3.20	3.19	3.28	
wind	0.5 m/s	velocity	5.28	8.54	8.46	8.70	8.62	8.54	8.62	8.31	8.54	8.23	9.74	8.02	8.57	8.60	8.36	
Yazawa, Wataru (JPN) (1991)																		
FINAL - 2017 Michitaka Memorial (Osaka, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
(2017) - tfdata-store.com/2017/05/08/post-413/																		
date	07-May-17	time	2.64	3.72	4.79	5.85	6.91	7.98	9.04	10.11	11.20	12.30	13.71	5 / 4				
reaction time		interval	7 steps	1.08	1.07	1.06	1.06	1.07	1.06	1.07	1.09	1.10	1.41		3.21	3.19	3.26	
wind	-0.8 m/s	velocity	5.20	8.46	8.54	8.62	8.62	8.54	8.62	8.54	8.39	8.31	9.94	8.02	8.54	8.60	8.41	
Kanai, Taio (JPN) (1995)																		
Semi-Final 2 - 2017 Japanese National Championships (Osaka, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
(2017) - tfdata-store.com/2017/07/13/post-1040/																		
date	24-Jun-17	time	2.59	3.67	4.71	5.77	6.83	7.90	8.97	10.06	11.16	12.27	13.71	6 / 2				
reaction time	0.115	interval	7 steps	1.08	1.04	1.06	1.06	1.07	1.07	1.09	1.10	1.11	1.44		3.18	3.20	3.30	
wind	0.3 m/s	velocity	5.30	8.46	8.79	8.62	8.62	8.54	8.54	8.39	8.31	8.23	9.74	8.02	8.62	8.57	8.31	
Ogata, Akihiro (JPN) (1993)																		
FINAL - 2018 Fuse Sprint (Tottori, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season																		
date	03-Jun-18	time	2.58	3.64	4.69	5.73	6.77	7.82	8.89	9.98	11.07	12.18	13.71	1 / 3				
reaction time		interval		1.06	1.05	1.04	1.04	1.05	1.07	1.09	1.09	1.11	1.53		3.15	3.16	3.29	
wind	0.5 m/s	velocity	5.32	8.62	8.70	8.79	8.79	8.70	8.54	8.39	8.39	8.23	9.16	8.02	8.70	8.68	8.33	
Cunningham, Trey (USA) (1998)																		
FINAL - 2018 USATF Championships (Des Moines, IA) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Henson (2020) - Athlete First: 2018 year end hurdle report																		
date	24-Jun-18	time	2.50	3.57	4.63	5.67	6.72	7.77	8.84	9.94	11.04	12.14	13.71	1 / 5				
reaction time		interval		1.07	1.06	1.04	1.05	1.05	1.07	1.10	1.10	1.10	1.57		3.17	3.17	3.30	
wind	-1.8 m/s	velocity	5.49	8.54	8.62	8.79	8.70	8.70	8.54	8.31	8.31	8.31	8.93	8.02	8.65	8.65	8.31	
Yamashita, Tomoki (JPN) (2000)																		
U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Joshi (2018) - research on athlete performance and technique- 2018 data book																		
date	07-Oct-18	time	2.65	3.75	4.81	5.85	6.91	7.97	9.04	10.12	11.20	12.28	13.71	4 / 4				
reaction time	0.134	interval		1.10	1.06	1.04	1.06	1.06	1.07	1.08	1.08	1.08	1.43		3.20	3.19	3.24	
wind	1.5 m/s	velocity	5.18	8.31	8.62	8.79	8.62	8.62	8.54	8.46	8.46	8.46	9.80	8.02	8.57	8.60	8.46	
Qin Weibo (CHN) (2002)																		
FINAL - 2018 Chinese National Sports School Championships (Jinjiang, CHN) (91-4cm) comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
date	??	time	2.69	3.77	4.82	5.86	6.89	7.92	8.96	10.02	11.09	12.18	13.71	5 / 1				
reaction time		interval		1.08	1.05	1.04	1.03	1.03	1.04	1.06	1.07	1.09	1.53		3.17	3.10	3.22	
wind	??	velocity	5.10	8.46	8.70	8.79	8.87	8.87	8.79	8.62	8.54	8.39	9.16	8.02	8.65	8.85	8.52	
Yazawa, Wataru (JPN) (1991)																		
FINAL - 2019 Kinami Memorial (Osaka, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Matsubayashi (2019) - research on athlete performance and technique- 2019 data book																		
date	06-May-19	time	2.64	3.73	4.80	5.86	6.92	7.97	9.04	10.11	11.19	12.27	13.71	8 / 4				
reaction time		interval	7 steps	1.09	1.07	1.06	1.06	1.05	1.07	1.07	1.08	1.08	1.44		3.22	3.18	3.23	
wind	0.3 m/s	velocity	5.20	8.39	8.54	8.62	8.62	8.70	8.54	8.54	8.46	8.46	9.74	8.02	8.52	8.62	8.49	
Zeng Jianhang (CHN) (1998)																		
FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
CAA Hurdle Development (2019)																		
date	18-May-19	time	2.58	3.68	4.72	5.78	6.82	7.88	8.96	10.02	11.12	12.24	13.71	1 / 9				
reaction time	0.154	interval		1.10	1.04	1.06	1.04	1.06	1.08	1.06	1.10	1.12	1.47		3.20	3.18	3.28	
wind	0.7 m/s	velocity	5.32	8.31	8.79	8.62	8.79	8.62	8.46	8.62	8.31	8.16	9.54	8.02	8.57	8.62	8.36	
Sun Zhenjiang (CHN) (1999)																		
FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
CAA Hurdle Development (2019)																		
date	23-May-19	time	2.62	3.68	4.74	5.78	6.82	7.90	8.96	10.02	11.12	12.22	13.71	2 / 1				

reaction time	0.179	interval	7 steps	1.06	1.06	1.04	1.04	1.08	1.06	1.06	1.10	1.10	1.49		3.16	3.18	3.26
wind	2.5 m/s	velocity	5.24	8.62	8.62	8.79	8.79	8.46	8.62	8.62	8.31	8.31	9.41	8.02	8.68	8.62	8.41

Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Japanese National Championships (Niigata, JPN)			Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season															
date	03-Oct-20	time	2.61	3.68	4.75	5.81	6.87	7.94	9.00	10.07	11.15	12.25		13.71	2 / 7			
reaction time	0.159	interval	7 steps	1.07	1.07	1.06	1.06	1.07	1.06	1.07	1.08	1.10	1.46			3.20	3.19	3.25
wind	-0.1 m/s	velocity	5.26	8.54	8.54	8.62	8.62	8.54	8.62	8.54	8.46	8.31	9.60	8.02		8.57	8.60	8.44

Dunning, Robert (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report															
date	13-Jul-21	time	2.60	3.62	4.72	5.76	6.82	7.88	8.92	10.00	11.08	12.18		13.71	6 / 4			
reaction time	0.130	interval	7 steps	1.02	1.10	1.04	1.06	1.06	1.04	1.08	1.08	1.10	1.53			3.16	3.16	3.26
wind	0.8 m/s	velocity	5.28	8.96	8.31	8.79	8.62	8.62	8.79	8.46	8.46	8.31	9.16	8.02		8.68	8.68	8.41

McCorry, Jacob (AUS) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)			Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season															
date	07-May-23	time	2.63	3.70	4.76	5.83	6.88	7.92	9.00	10.08	11.15	12.27		13.71	4 / 7			
reaction time	0.147	interval	7 steps	1.07	1.06	1.07	1.05	1.04	1.08	1.08	1.07	1.12	1.44			3.20	3.17	3.27
wind	-0.3 m/s	velocity	5.22	8.54	8.62	8.54	8.70	8.79	8.46	8.46	8.54	8.16	9.74	8.02		8.57	8.65	8.39

Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Seiko Golden Grand Prix (Tokyo, JPN)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date	19-May-24	time	2.62	3.68	4.74	5.80	6.87	7.92	8.99	10.06	11.16	12.26		13.71	3 / 8			
reaction time	0.169	interval	7 steps	1.06	1.06	1.06	1.07	1.05	1.07	1.07	1.10	1.10	1.45			3.18	3.19	3.27
wind	-0.6 m/s	velocity	5.24	8.62	8.62	8.62	8.54	8.70	8.54	8.54	8.31	8.31	9.67	8.02		8.62	8.60	8.39

Williams, Daylin (USA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)			Henson (2024) - Athlete First: 2024 year end hurdle report															
date	24-Jun-24	time	2.56	3.66	4.70	5.75	6.80	7.88	8.95	10.02	11.10	12.23		13.71	9 / 8			
reaction time		interval	7 steps	1.10	1.04	1.05	1.05	1.08	1.07	1.07	1.08	1.13	1.48			3.19	3.20	3.28
wind	0.8 m/s	velocity	5.36	8.31	8.79	8.70	8.70	8.46	8.54	8.54	8.46	8.09	9.47	8.02		8.60	8.57	8.36

Czykier, Damian (POL) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Repechage 2 - 2024 Olympic Games (Paris, FRA)			Paris 2024 Olympic Games - Results Book (2024)															
date	06-Aug-24	time	2.43	3.52	4.57	5.59	6.63	7.67	8.75	9.84	10.95	12.06		13.71	4 / 5			
reaction time	0.152	interval	7 steps	1.09	1.05	1.02	1.04	1.04	1.08	1.09	1.11	1.11	1.65			3.16	3.16	3.31
wind	-0.5 m/s	velocity	5.65	8.39	8.70	8.96	8.79	8.79	8.46	8.39	8.23	8.23	8.50	8.02		8.68	8.68	8.28

Yu Zhicheng (CHN) (1963)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1987 Chinese National Games (Guangzhou, CHN)			Wang (2009) - research of training characteristic during different stages in the development of 110m hurdles															
date	28-Nov-87	time	2.62	3.73	4.85	5.93	6.95	7.98	9.02	10.04	11.12	12.24		13.72	1 / 2			
reaction time		interval		1.11	1.12	1.08	1.02	1.03	1.04	1.02	1.08	1.12	1.48			3.31	3.09	3.22
wind	1.6 m/s	velocity	5.24	8.23	8.16	8.46	8.96	8.87	8.79	8.96	8.46	8.16	9.47	8.02		8.28	8.87	8.52

Tanigawa, Satoru (JPN) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2004 Olympic Games (Athens, GRE)			(2016.05.12) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	24-Aug-04	time	2.63	3.69	4.75	5.81	6.87	7.94	9.02	10.10	11.18	12.26		13.72	1 / 1			
reaction time	0.128	interval		1.06	1.06	1.06	1.06	1.07	1.08	1.08	1.08	1.08	1.46			3.18	3.21	3.24
wind	1.5 m/s	velocity	5.22	8.62	8.62	8.62	8.62	8.54	8.46	8.46	8.46	8.46	9.60	8.02		8.62	8.54	8.46

Tanonaka, Tasuku (JPN) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2006 Osaka Grand Prix (Osaka, JPN)			Akirabun (2007) - speed analysis of the 100m and hurdles with a laser system															
date	06-May-06	time	2.45	3.53	4.60	5.65	6.70	7.77	8.85	9.93	11.03	12.13		13.72	1 / 4			
reaction time		interval		1.08	1.07	1.05	1.05	1.07	1.08	1.08	1.10	1.10	1.59			3.20	3.20	3.28
wind	1.2 m/s	velocity	5.60	8.46	8.54	8.70	8.70	8.54	8.46	8.46	8.31	8.31	8.82	8.02		8.57	8.57	8.36

Tanonaka, Tasuku (JPN) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2008 Nambu Chuhei Memorial (Harodate, JPN)			Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles															
date	06-Jul-08	time	2.45	3.52	4.58	5.62	6.69	7.78	8.83	9.91	11.00	12.10		13.72	1 / 2			
reaction time		interval		1.07	1.06	1.04	1.07	1.09	1.05	1.08	1.09	1.10	1.62			3.17	3.21	3.27
wind	2.0 m/s	velocity	5.60	8.54	8.62	8.79	8.54	8.39	8.70	8.46	8.39	8.31	8.65	8.02		8.65	8.54	8.39

Tanonaka, Tasuku (JPN) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Nambu Chuhei Memorial (Sapporo, JPN)			Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles															
date	09-Jul-09	time	2.63	3.69	4.75	5.81	6.87	7.94	9.02	10.10	11.18	12.26		13.72	1 / 1			
reaction time		interval		1.06	1.06	1.06	1.06	1.07	1.08	1.08	1.08	1.08	1.46			3.18	3.21	3.24
wind	1.2 m/s	velocity	5.22	8.62	8.62	8.62	8.62	8.54	8.46	8.46	8.46	8.46	9.60	8.02		8.62	8.54	8.46

Ohashi, Yuji (JPN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Nambu Chuhei Memorial (Sapporo, JPN)			Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles															
date	09-Jul-09	time	2.63	3.70	4.76	5.81	6.85	7.91	8.97	10.04	11.14	12.25		13.72	1 / 2			
reaction time		interval		1.07	1.06	1.05	1.04	1.06	1.06	1.07	1.10	1.11	1.47			3.18	3.16	3.28

wind	1.2 m/s	velocity	5.22	8.54	8.62	8.70	8.79	8.62	8.62	8.54	8.31	8.23	9.54	8.02		8.62	8.68	8.36	
Schwarzer, Helge (GER) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																
date	20-Aug-09	time	2.59	3.69	4.77	5.82	6.88	7.92	8.98	10.04	11.12	12.24		13.72	6 / 7		3.23	3.16	3.26
reaction time	0.132	interval		1.10	1.08	1.05	1.06	1.04	1.06	1.06	1.08	1.12	1.48						
wind	0.1 m/s	velocity	5.30	8.31	8.46	8.70	8.62	8.79	8.62	8.62	8.46	8.16	9.47	8.02		8.49	8.68	8.41	
Thomas, Dwight (JAM) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Golden Grand Prix (Shanghai, CHN) (TV Analysis)			<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																
date	19-May-12	time	2.58	3.68	4.78	5.86	6.90	7.94	8.98	10.04	11.12	12.20		13.72	3 / 9		3.28	3.12	3.22
reaction time	0.174	interval		7 steps	1.10	1.10	1.08	1.04	1.04	1.04	1.06	1.08	1.52						
wind	0.4 m/s	velocity	5.32	8.31	8.31	8.46	8.79	8.79	8.79	8.62	8.46	8.46	9.22	8.02		8.36	8.79	8.52	
Kagimoto, Masahiro (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Kansai University Meeting (Osaka, JPN)			<i>(2016.05.30) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en</i>																
date	13-May-16	time	2.64	3.72	4.80	5.85	6.92	7.98	9.04	10.11	11.20	12.30		13.72	5 / 1		3.21	3.19	3.26
reaction time		interval		1.08	1.08	1.05	1.07	1.06	1.06	1.07	1.09	1.10	1.42						
wind	0.5 m/s	velocity	5.20	8.46	8.46	8.70	8.54	8.62	8.62	8.54	8.39	8.31	9.87	8.02		8.54	8.60	8.41	
Swift, Greggmar (BAR) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)			<i>(2017) - tfdata-store.com/2017/05/22/post-599/</i>																
date	21-May-17	time	2.55	3.61	4.68	5.73	6.77	7.84	8.92	10.00	11.10	12.22		13.72	1 / 5		3.18	3.19	3.30
reaction time	0.141	interval		1.06	1.07	1.05	1.04	1.07	1.08	1.08	1.10	1.12	1.50						
wind	-1.8 m/s	velocity	5.38	8.62	8.54	8.70	8.79	8.54	8.46	8.46	8.31	8.16	9.35	8.02		8.62	8.60	8.31	
Masuno, Genta (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)			<i>(2017) - tfdata-store.com/2017/05/22/post-599/</i>																
date	21-May-17	time	2.59	3.66	4.73	5.77	6.83	7.89	8.94	10.03	11.11	12.25		13.72	2 / 6		3.18	3.17	3.31
reaction time	0.150	interval		1.07	1.07	1.04	1.06	1.06	1.05	1.09	1.08	1.14	1.47						
wind	-1.8 m/s	velocity	5.30	8.54	8.54	8.79	8.62	8.62	8.70	8.39	8.46	8.02	9.54	8.02		8.62	8.65	8.28	
Sato, Hiroyuki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)			<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																
date	06-May-18	time	2.58	3.67	4.76	5.82	6.87	7.93	9.00	10.08	11.18	12.28		13.72	4 / 2		3.24	3.18	3.28
reaction time		interval		1.09	1.09	1.06	1.05	1.06	1.07	1.08	1.10	1.10	1.44						
wind	1.6 m/s	velocity	5.32	8.39	8.39	8.62	8.70	8.62	8.54	8.46	8.31	8.31	9.74	8.02		8.46	8.62	8.36	
Lloyd, Antoine (USA) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 USATF Championships (Des Moines, IA) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																
date	24-Jun-18	time	2.47	3.57	4.63	5.70	6.74	7.77	8.84	9.94	11.04	12.14		13.72	2 / 6		3.23	3.14	3.30
reaction time		interval		7 steps	1.10	1.06	1.07	1.04	1.03	1.07	1.10	1.10	1.58						
wind	-1.8 m/s	velocity	5.55	8.31	8.62	8.54	8.79	8.87	8.54	8.31	8.31	8.31	8.87	8.02		8.49	8.73	8.31	
Kanai, Taio (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)			<i>Henson (2021) - Athlete First: 2018 year end hurdle report</i>																
date	09-Sep-18	time	2.52	3.64	4.68	5.74	6.80	7.84	8.88	10.00	11.08	12.18		13.72	5 / 6		3.22	3.14	3.30
reaction time	0.119	interval		7 steps	1.12	1.04	1.06	1.06	1.04	1.04	1.12	1.08	1.10	1.54					
wind	0.9 m/s	velocity	5.44	8.16	8.79	8.62	8.62	8.79	8.79	8.16	8.46	8.31	9.10	8.02		8.52	8.73	8.31	
Fukumoto, Ren (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm)			<i>Joshi (2018) - research on athlete performance and technique- 2018 data book</i>																
date	07-Oct-18	time	2.62	3.70	4.76	5.82	6.88	7.96	9.03	10.11	11.20	12.31		13.72	1 / 5		3.20	3.21	3.28
reaction time	0.135	interval		1.08	1.06	1.06	1.06	1.08	1.07	1.08	1.09	1.11	1.41						
wind	1.5 m/s	velocity	5.24	8.46	8.62	8.62	8.62	8.46	8.54	8.46	8.39	8.23	9.94	8.02		8.57	8.54	8.36	
Zeng Jianhang (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)			<i>CAA Hurdle Development (2019)</i>																
date	04-Jun-19	time	2.58	3.65	4.70	5.75	6.83	7.90	8.95	10.05	11.16	12.26		13.72	6 / 2		3.17	3.20	3.31
reaction time	0.159	interval		1.07	1.05	1.05	1.08	1.07	1.05	1.10	1.11	1.10	1.46						
wind	-0.3 m/s	velocity	5.32	8.54	8.70	8.70	8.46	8.54	8.70	8.31	8.23	8.31	9.60	8.02		8.65	8.57	8.28	
Cunningham, Trey (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																
date	28-Jul-19	time	2.51	3.57	4.60	5.63	6.67	7.70	8.76	9.85	10.94	12.11		13.72	2 / 8		3.12	3.13	3.35
reaction time		interval		7 steps	1.06	1.03	1.03	1.04	1.03	1.06	1.09	1.09	1.17	1.61					
wind	-0.8 m/s	velocity	5.47	8.62	8.87	8.87	8.79	8.87	8.62	8.39	8.39	7.81	8.71	8.02		8.79	8.76	8.19	
Lu Wei (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)			<i>CAA Hurdle Development (2019)</i>																
date	14-Aug-19	time	2.71	3.80	4.84	5.89	6.91	7.94	8.99	10.04	11.13	12.21		13.72	6 / 1		3.18	3.10	3.22
reaction time	0.205	interval		1.09	1.04	1.05	1.02	1.03	1.05	1.05	1.09	1.08	1.51						
wind	-0.3 m/s	velocity	5.06	8.39	8.79	8.70	8.96	8.87	8.70	8.70	8.39	8.46	9.28	8.02		8.62	8.85	8.52	

Machi, Ryota (JPN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (99cm)			Enomoto (2019) - research on athlete performance and technique- 2019 data book																
date	06-Oct-19	time	2.64	3.74	4.80	5.86	6.93	7.95	9.01	10.08	11.16	12.26		13.72	7 / 6				
reaction time	0.145	interval		1.10	1.06	1.06	1.07	1.02	1.06	1.07	1.08	1.10	1.46				3.22	3.15	3.25
wind	2.7 m/s	velocity	5.20	8.31	8.62	8.62	8.54	8.96	8.62	8.54	8.46	8.31	9.60	8.02			8.52	8.70	8.44
Yokochi, Taiga (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Japanese National Championships (Niigata, JPN)			Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season																
date	03-Oct-20	time	2.67	3.75	4.80	5.83	6.88	7.93	8.97	10.05	11.12	12.23		13.72	3 / 8				
reaction time	0.158	interval	7 steps	1.08	1.05	1.03	1.05	1.05	1.04	1.08	1.07	1.11	1.49				3.16	3.14	3.26
wind	-0.1 m/s	velocity	5.14	8.46	8.70	8.87	8.70	8.70	8.79	8.46	8.54	8.23	9.41	8.02			8.68	8.73	8.41
Gaio, Finley (SUI) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report																
date	09-Sep-21	time	2.56	3.64	4.70	5.74	6.82	7.88	8.96	10.02	11.12	12.22		13.72	8 / 6				
reaction time	0.135	interval	7 steps	1.08	1.06	1.04	1.08	1.06	1.08	1.06	1.10	1.10	1.50				3.18	3.22	3.26
wind	0.6 m/s	velocity	5.36	8.46	8.62	8.79	8.46	8.62	8.46	8.62	8.31	8.31	9.35	8.02			8.62	8.52	8.41
Qin Weibo (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Chinese National Games (Xi'an, CHN)			Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers																
date	22-Sep-21	time	2.63	3.72	4.76	5.79	6.82	7.87	8.93	10.00	11.10	12.23		13.72	1 / 5				
reaction time	0.177	interval	7 steps	1.09	1.04	1.03	1.03	1.05	1.06	1.07	1.10	1.13	1.49	PB			3.16	3.14	3.30
wind	0.0 m/s	velocity	5.22	8.39	8.79	8.87	8.87	8.70	8.62	8.54	8.31	8.09	9.41	8.02			8.68	8.73	8.31
Andrews, Nicholas (AUS) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)			Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season																
date	01-May-22	time	2.60	3.66	4.72	5.76	6.81	7.86	8.93	10.04	11.17	12.27		13.72	8 / 5				
reaction time	0.119	interval		1.06	1.06	1.04	1.05	1.05	1.07	1.11	1.13	1.10	1.45				3.16	3.17	3.34
wind	0.8 m/s	velocity	5.28	8.62	8.62	8.79	8.70	8.70	8.54	8.23	8.09	8.31	9.67	8.02			8.68	8.65	8.21
Yokochi, Taiga (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Japanese National Championships (Osaka, JPN)			Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season																
date	12-Jun-22	time	2.64	3.73	4.77	5.82	6.85	7.92	8.97	10.05	11.13	12.25		13.72	3 / 8				
reaction time	0.161	interval	7 steps	1.09	1.04	1.05	1.03	1.07	1.05	1.08	1.08	1.12	1.47				3.18	3.15	3.28
wind	-1.2 m/s	velocity	5.20	8.39	8.79	8.70	8.87	8.54	8.70	8.46	8.46	8.16	9.54	8.02			8.62	8.70	8.36
Cabang, John (PHI) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Seiko Golden Grand Prix (Tokyo, JPN)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season																
date	19-May-24	time	2.62	3.70	4.73	5.79	6.85	7.92	8.97	10.04	11.13	12.23		13.72	9 / 9				
reaction time	0.162	interval		1.08	1.03	1.06	1.06	1.07	1.05	1.07	1.09	1.10	1.49				3.17	3.18	3.26
wind	-0.6 m/s	velocity	5.24	8.46	8.87	8.62	8.62	8.54	8.70	8.54	8.39	8.31	9.41	8.02			8.65	8.62	8.41
Bates, Di'Niko (USA) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)			Henson (2024) - Athlete First: 2024 year end hurdle report																
date	27-Jun-24	time	2.63	3.73	4.80	5.84	6.88	7.92	8.96	10.03	11.13	12.23		13.72	2 / 7				
reaction time		interval	7 steps	1.10	1.07	1.04	1.04	1.04	1.04	1.07	1.10	1.10	1.49				3.21	3.12	3.27
wind	-0.2 m/s	velocity	5.22	8.31	8.54	8.79	8.79	8.79	8.79	8.54	8.31	8.31	9.41	8.02			8.54	8.79	8.39
Tanaka, Yuga (JPN) (2005)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Japanese National U20 Championships (Niigata, JPN) (99.1cm)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season																
date	30-Jun-24	time	2.65	3.73	4.83	5.90	6.92	7.98	9.05	10.13	11.22	12.30		13.72	8 / 5				
reaction time	0.143	interval	7 steps	1.08	1.10	1.07	1.02	1.06	1.07	1.08	1.09	1.08	1.42				3.25	3.15	3.25
wind	0.1 m/s	velocity	5.18	8.46	8.31	8.54	8.96	8.62	8.54	8.46	8.39	8.46	9.87	8.02			8.44	8.70	8.44
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2025 Xiamen Diamond League (Xiamen, CHN)			Omega Timing (2025) - diamond league race analysis																
date	26-Apr-25	time	2.37	3.40	4.38	5.38	6.36	7.37	8.38	9.43	10.53	11.70		13.72	6 / 10				
reaction time	0.153	interval	7 steps	1.03	0.98	1.00	0.98	1.01	1.01	1.05	1.10	1.17	2.02				3.01	3.00	3.32
wind	0.3 m/s	velocity	5.79	8.87	9.33	9.14	9.33	9.05	9.05	8.70	8.31	7.81	6.94	8.02			9.11	9.14	8.26
Casañas, Alejandro (CUB) (1954)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 1976 Olympic Games (Montreal, CAN)			Lamare (1976) - les jeux de la XXI olympia, Montreal 1976																
date	26-Jul-76	time	2.3			5.5	6.6							13.73	1 / 2				
reaction time		interval				3.18	1.08										3.18		
wind	0.0 m/s	velocity	5.97			8.62	8.46							8.01			8.62		
Hudec, Jirí (TCH) (1964)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)			Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988																
date	26-Sep-88	time	2.56	3.64	4.68	5.74	6.78	7.82	8.90	9.99	11.11	12.23		13.73	1 / 5				
reaction time	0.158	interval		1.08	1.04	1.06	1.04	1.04	1.08	1.09	1.12	1.12	1.50				3.18	3.16	3.33
wind	-0.7 m/s	velocity	5.36	8.46	8.79	8.62	8.79	8.79	8.46	8.39	8.16	8.16	9.35	8.01			8.62	8.68	8.23

Tanonaka, Tasuku (JPN) (1978)																	
FINAL - 2007 Mikio Oda Memorial (Hiroshima, JPN)																	
<i>Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles</i>																	
date	29-Apr-07	time	2.42	3.49	4.54	5.59	6.65	7.71	8.78	9.87	10.98	12.10	13.73	/ 1			
reaction time		interval		1.07	1.05	1.05	1.06	1.06	1.07	1.09	1.11	1.12	1.63		3.17	3.19	3.32
wind	0.0 m/s	velocity	5.67	8.54	8.70	8.70	8.62	8.62	8.54	8.39	8.23	8.16	8.60	8.01	8.65	8.60	8.26
Ohashi, Yuji (JPN) (1983)																	
FINAL - 2008 Mikio Oda Memorial (Hiroshima, JPN)																	
<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>																	
date	29-Apr-08	time	2.45	3.53	4.59	5.64	6.69	7.74	8.80	9.89	10.98	12.09	13.73	/ 4			
reaction time		interval		1.08	1.06	1.05	1.05	1.05	1.06	1.09	1.09	1.11	1.64		3.19	3.16	3.29
wind	1.6 m/s	velocity	5.60	8.46	8.62	8.70	8.70	8.70	8.62	8.39	8.39	8.23	8.55	8.01	8.60	8.68	8.33
Tanonaka, Tasuku (JPN) (1978)																	
FINAL - 2008 Japanese National Championships (Kawasaki, JPN)																	
<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>																	
date	28-Jun-08	time	2.43	3.51	4.57	5.63	6.68	7.75	8.81	9.90	10.98	12.09	13.73	/ 2			
reaction time		interval		1.08	1.06	1.06	1.05	1.07	1.06	1.09	1.08	1.11	1.64		3.20	3.18	3.28
wind	-0.2 m/s	velocity	5.65	8.46	8.62	8.62	8.70	8.54	8.62	8.39	8.46	8.23	8.55	8.01	8.57	8.62	8.36
Ohashi, Yuji (JPN) (1983)																	
FINAL - 2008 Nambu Chuhei Memorial (Harodate, JPN)																	
<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>																	
date	06-Jul-08	time	2.47	3.55	4.60	5.64	6.70	7.74	8.80	9.86	10.96	12.07	13.73	/ 2			
reaction time		interval		1.08	1.05	1.04	1.06	1.04	1.06	1.06	1.10	1.11	1.66		3.17	3.16	3.27
wind	0.5 m/s	velocity	5.55	8.46	8.70	8.79	8.62	8.79	8.62	8.62	8.31	8.23	8.45	8.01	8.65	8.68	8.39
Doucouré, Ladji (FRA) (1983)																	
FINAL - 2009 ISTAF (Berlin, GER)																	
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
date	14-Jun-09	time	2.65	3.73	4.76	5.80	6.83	7.90	8.97	10.05	11.13	12.24	13.73	7 / 7			
reaction time	0.206	interval		1.08	1.03	1.04	1.03	1.07	1.07	1.08	1.08	1.11	1.49		3.15	3.17	3.27
wind	0.7 m/s	velocity	5.18	8.46	8.87	8.79	8.87	8.54	8.54	8.46	8.46	8.23	9.41	8.01	8.70	8.65	8.39
Nosmy, Philip (SWE) (1982)																	
Race 1 - 2011 European Team Championships (Stockholm, SWE)																	
<i>Blomkvist (2011) - www.sub13.se</i>																	
date	19-Jun-11	time	2.60	3.68	4.72	5.80	6.84	7.92	8.98	10.06	11.16	12.24	13.73	5 / 2			
reaction time	0.174	interval		1.08	1.04	1.08	1.04	1.08	1.06	1.08	1.10	1.08	1.49		3.20	3.18	3.26
wind	-0.8 m/s	velocity	5.28	8.46	8.79	8.46	8.79	8.46	8.62	8.46	8.31	8.46	9.41	8.01	8.57	8.62	8.41
Belocian, Wilhem (FRA) (1995)																	
FINAL - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																	
date	02-Jun-16	time	2.52	3.56	4.60	5.64	6.70	7.76	8.82	9.94	11.02	12.14	13.73	8 / 5			
reaction time	0.132	interval		1.04	1.04	1.04	1.06	1.06	1.06	1.12	1.08	1.12	1.59		3.12	3.18	3.32
wind	0.6 m/s	velocity	5.44	8.79	8.79	8.79	8.62	8.62	8.62	8.16	8.46	8.16	8.82	8.01	8.79	8.62	8.26
Kanai, Taio (JPN) (1995)																	
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)																	
<i>(2017) - tfd-data-store.com/2017/05/01/458/</i>																	
date	29-Apr-17	time	2.60	3.68	4.77	5.84	6.90	7.96	9.03	10.11	11.18	12.28	13.73	7 / 4			
reaction time		interval	7 steps	1.08	1.09	1.07	1.06	1.06	1.07	1.08	1.07	1.10	1.45		3.24	3.19	3.25
wind	1.5 m/s	velocity	5.28	8.46	8.39	8.54	8.62	8.62	8.54	8.46	8.54	8.31	9.67	8.01	8.46	8.60	8.44
Porter, Jeff (USA) (1985)																	
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)																	
<i>(2017) - tfd-data-store.com/2017/05/22/post-599/</i>																	
date	21-May-17	time	2.59	3.68	4.74	5.82	6.87	7.94	9.00	10.08	11.16	12.26	13.73	4 / 7			
reaction time	0.125	interval		1.09	1.06	1.08	1.05	1.07	1.06	1.08	1.08	1.10	1.47		3.23	3.18	3.26
wind	-1.8 m/s	velocity	5.30	8.39	8.62	8.46	8.70	8.54	8.62	8.46	8.46	8.31	9.54	8.01	8.49	8.62	8.41
Kurokawa, Kazuki (JPN) (2001)																	
U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (99cm)																	
<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	18-Oct-19	time	2.59	3.68	4.74	5.79	6.85	7.90	8.99	10.08	11.17	12.25	13.73	6 / 2			
reaction time	0.131	interval	7 steps	1.09	1.06	1.05	1.06	1.05	1.09	1.09	1.09	1.08	1.48		3.20	3.20	3.26
wind	-0.6 m/s	velocity	5.30	8.39	8.62	8.70	8.62	8.70	8.39	8.39	8.39	8.46	9.47	8.01	8.57	8.57	8.41
Hayles, Jaheem (JAM) (2001)																	
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)																	
<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																	
date	10-Jun-22	time	2.55	3.65	4.72	5.77	6.82	7.86	8.89	9.96	11.06	12.19	13.73	4 / 9			
reaction time		interval		1.10	1.07	1.05	1.05	1.04	1.03	1.07	1.10	1.13	1.54		3.22	3.12	3.30
wind	0.0 m/s	velocity	5.38	8.31	8.54	8.70	8.70	8.79	8.87	8.54	8.31	8.09	9.10	8.01	8.52	8.79	8.31
Muratake, Rachid (JPN) (2002)																	
Heat 4 - 2022 World Athletics Championships (Eugene, OR)																	
<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>																	
date	16-Jul-22	time	2.67	3.78	4.83	5.86	6.92	7.98	9.03	10.09	11.16	12.30	13.73	8 / 6			
reaction time	0.182	interval	7 steps	1.11	1.05	1.03	1.06	1.06	1.05	1.06	1.07	1.14	1.43		3.19	3.17	3.27
wind	0.2 m/s	velocity	5.14	8.23	8.70	8.87	8.62	8.62	8.70	8.62	8.54	8.02	9.80	8.01	8.60	8.65	8.39
Kwaou-Mathey, Just (FRA) (1999)																	

FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)

date	08-Sep-22	time	2.58	3.64	4.70	5.74	6.80	7.84	8.88	9.98	11.01	12.13	Henson (2022) - Athlete First: 2022 year end hurdle report					
reaction time	0.150	interval	7 steps	1.06	1.06	1.04	1.06	1.04	1.04	1.10	1.03	1.12	1.60	13.73	2 / 8	3.16	3.14	3.25
wind	-1.0 m/s	velocity	5.32	8.62	8.62	8.79	8.62	8.79	8.79	8.31	8.87	8.16	8.76	8.01		8.68	8.73	8.44

Pereira, Rafael (BRA) (1997)

FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report					
date	08-Sep-22	time	2.50	3.55	4.57	5.60	6.61	7.64	8.65	9.81	11.01	12.12	13.73	8 / 9				
reaction time	0.130	interval		1.05	1.02	1.03	1.01	1.03	1.01	1.16	1.20	1.11	1.61		3.10	3.05	3.47	
wind	-1.0 m/s	velocity	5.49	8.70	8.96	8.87	9.05	8.87	9.05	7.88	7.62	8.23	8.71	8.01		8.85	8.99	7.90

Hough, Nicholas (AUS) (1993)

FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)											Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season						
date	29-Apr-22	time	2.69	3.79	4.85	5.91	6.95	8.00	9.05	10.08	11.14	12.23	13.73	1 / 2			
reaction time	0.154	interval	7 steps	1.10	1.06	1.06	1.04	1.05	1.05	1.03	1.06	1.09	1.50		3.22	3.14	3.18
wind	-1.5 m/s	velocity	5.10	8.31	8.62	8.62	8.79	8.70	8.70	8.87	8.62	8.39	9.35	8.01	8.52	8.73	8.62

Yokochi, Taiga (JPN) (2000)

FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)										Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season							
date	08-May-22	time	2.65	3.75	4.79	5.83	6.88	7.94	9.00	10.07	11.17	12.27	13.73	8 / 6			
reaction time	0.155	interval	7 steps	1.10	1.04	1.04	1.05	1.06	1.06	1.07	1.10	1.10	1.46	3.18 3.17 3.27			
wind	0.1 m/s	velocity	5.18	8.31	8.79	8.79	8.70	8.62	8.62	8.54	8.31	8.31	9.60	8.01	8.62 8.65 8.39		

Kiljan, Krzysztof (POL) (1999)

Repechage 1 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)					
date	06-Aug-24	time	2.41	3.50	4.56	5.60	6.65	7.71	8.76	9.84	10.95	12.07	13.73	6 / 6				
reaction time	0.148	interval	7 steps	1.09	1.06	1.04	1.05	1.06	1.05	1.08	1.11	1.12	1.66		3.19	3.16	3.31	
wind	0.2 m/s	velocity	5.69	8.39	8.62	8.79	8.70	8.62	8.70	8.46	8.23	8.16	8.45	8.01		8.60	8.68	8.28

Kiljan, Krzysztof (POL) (1999)

FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)													Omega Timing (2024) - diamond league race analysis					
date	25-Aug-24	time	2.43	3.50	4.57	5.60	6.65	7.69	8.77	9.86	10.97	12.08	13.73	9 / 9				
reaction time	0.162	interval	7 steps	1.07	1.07	1.03	1.05	1.04	1.08	1.09	1.11	1.11	1.65		3.17	3.17	3.31	
wind	1.1 m/s	velocity	5.65	8.54	8.54	8.87	8.70	8.79	8.46	8.39	8.23	8.23	8.50	8.01		8.65	8.65	8.28

Chervanyev, Yuriy (URS) (1958)

Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies																		
FINAL - 1981 USSR vs. USA (Leningrad, URS)																		
date	10-Jul-81	time	2.50	3.61	4.65	5.68	6.72	7.78	8.87	10.00	11.17	12.42	13.74	/ 3				
reaction time		interval		1.11	1.04	1.03	1.04	1.06	1.09	1.13	1.17	1.25	1.32		3.18	3.19	3.55	
wind	2.8 m/s	velocity	5.49	8.23	8.79	8.87	8.79	8.62	8.39	8.09	7.81	7.31	10.62	8.01		8.62	8.60	7.72

Kubaszewski, Mariusz (POL) (1982)

FINAL - 2007 European Cup (Munich, GER)													Graubner (2007) - http://www.fgs.uni-halle.de					
date	24-Jun-07	time	2.64	3.73	4.79	5.83	6.91	7.95	9.03	10.08	11.17	12.29	13.74	/ 7				
reaction time	0.127	interval		1.09	1.06	1.04	1.08	1.04	1.08	1.05	1.09	1.12	1.45		3.19	3.20	3.26	
wind	0.4 m/s	velocity	5.20	8.39	8.62	8.79	8.46	8.79	8.46	8.70	8.39	8.16	9.67	8.01		8.60	8.57	8.41

Yazawa, Wataru (JPN) (1991)

Heat 1 - 2013 Mito Invitational Athletics Meeting (Mito, JPN)										Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13							
date	04-May-13	time	2.63	3.73	4.79	5.85	6.91	7.97	9.05	10.12	11.22	12.32	13.74	/ 1			
reaction time		interval		1.10	1.06	1.06	1.06	1.06	1.08	1.07	1.10	1.10	1.42		3.22	3.20	3.27
wind	0.8 m/s	velocity	5.22	8.31	8.62	8.62	8.62	8.62	8.46	8.54	8.31	8.31	9.87	8.01	8.52	8.57	8.39

Yazawa, Wataru (JPN) (1991)

FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)													(2017) - tfdata-store.com/2017/05/01/458/					
date	29-Apr-17	time	2.66	3.75	4.82	5.88	6.93	8.01	9.07	10.13	11.21	12.30	13.74	3 / 5				
reaction time		interval	7 steps	1.09	1.07	1.06	1.05	1.08	1.06	1.06	1.08	1.09	1.44		3.22	3.19	3.23	
wind	1.5 m/s	velocity	5.16	8.39	8.54	8.62	8.70	8.46	8.62	8.62	8.46	8.39	9.74	8.01		8.52	8.60	8.49

Masuno, Genta (JPN) (1993)

Open FINAL - 2017 Michtaka Memorial (Osaka, JPN)													(2017) - tfdata-store.com/2017/05/08/post-413/					
date	07-May-17	time	2.63	3.70	4.77	5.81	6.90	7.96	9.04	10.12	11.21	12.30	13.74	8 / 2				
reaction time		interval		1.07	1.07	1.04	1.09	1.06	1.08	1.08	1.09	1.09	1.44		3.18	3.23	3.26	
wind	-1.5 m/s	velocity	5.22	8.54	8.54	8.79	8.39	8.62	8.46	8.46	8.39	8.39	9.74	8.01		8.62	8.49	8.41

Furuya, Takumu (JPN) (1997)

Heat 1 - 2017 Japanese National Championships (Osaka, JPN)																	(2017) - tfdata-store.com/2017/07/13/post-1040/				
date	24-Jun-17	time	2.66	3.75	4.80	5.87	6.90	7.95	9.02	10.10	11.18	12.30		13.74	6 / 4						
reaction time	0.146	interval		1.09	1.05	1.07	1.03	1.05	1.07	1.08	1.08	1.12	1.44				3.21	3.15	3.28		
wind	1.3 m/s	velocity	5.16	8.39	8.70	8.54	8.87	8.70	8.54	8.46	8.46	8.16	9.74	8.01			8.54	8.70	8.36		

Darien, Garfield (FRA) (1987)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)															
															<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>

date	12-May-18	time	2.56	3.62	4.68	5.74	6.76	7.84	8.92	10.00	11.08	12.20	13.74	3 / 7				
reaction time	0.144	interval	7 steps	1.06	1.06	1.06	1.02	1.08	1.08	1.08	1.08	1.12	1.54		3.18	3.18	3.28	
wind	0.2 m/s	velocity	5.36	8.62	8.62	8.62	8.96	8.46	8.46	8.46	8.46	8.16	9.10	8.01	8.62	8.62	8.36	
Kanai, Taio (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Asian Games (Jakarta, INA)			Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season															
date	28-Aug-18	time	2.58	3.65	4.70	5.76	6.82	7.88	8.96	10.06	11.16	12.28	13.74	7 / 7				
reaction time	0.125	interval		1.07	1.05	1.06	1.06	1.06	1.08	1.10	1.10	1.12	1.46			3.18	3.20	3.32
wind	0.0 m/s	velocity	5.32	8.54	8.70	8.62	8.62	8.62	8.46	8.31	8.31	8.16	9.60	8.01		8.62	8.57	8.26
Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
A FINAL - 2018 National Sports Festival (Fukui, JPN)			Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season															
date	08-Oct-18	time	2.59	3.67	4.74	5.80	6.87	7.93	8.99	10.07	11.15	12.27	13.74	3 / 4				
reaction time	0.139	interval		1.08	1.07	1.06	1.07	1.06	1.06	1.08	1.08	1.12	1.47			3.21	3.19	3.28
wind	1.2 m/s	velocity	5.30	8.46	8.54	8.62	8.54	8.62	8.62	8.46	8.46	8.16	9.54	8.01		8.54	8.60	8.36
Cabral, Johnathan (CAN) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)			Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season															
date	19-May-19	time	2.72	3.83	4.88	5.92	6.95	7.99	9.04	10.10	11.16	12.26	13.74	8 / 7				
reaction time	0.245	interval	7 steps	1.11	1.05	1.04	1.03	1.04	1.05	1.06	1.06	1.10	1.48			3.20	3.12	3.22
wind	2.9 m/s	velocity	5.04	8.23	8.70	8.79	8.87	8.79	8.70	8.62	8.62	8.31	9.47	8.01		8.57	8.79	8.52
Kanai, Taio (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2019 IAAF World Championships (Doha, QAT)			Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season															
date	30-Sep-19	time	2.58	3.64	4.70	5.76	6.84	7.90	8.99	10.09	11.20	12.31	13.74	7 / 7				
reaction time	0.125	interval	7 steps	1.06	1.06	1.06	1.08	1.06	1.09	1.10	1.11	1.11	1.43			3.18	3.23	3.32
wind	0.5 m/s	velocity	5.32	8.62	8.62	8.62	8.46	8.62	8.39	8.31	8.23	8.23	9.80	8.01		8.62	8.49	8.26
Szűcs, Valdó (HUN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)			Henson (2020) - Athlete First: 2020 year end hurdle report															
date	19-Aug-20	time	2.50	3.67	4.74	5.80	6.85	7.91	8.94	9.98	11.08	12.18	13.74	7 / 7				
reaction time	0.141	interval	7 steps	1.17	1.07	1.06	1.05	1.06	1.03	1.04	1.10	1.10	1.56			3.30	3.14	3.24
wind	0.3 m/s	velocity	5.49	7.81	8.54	8.62	8.70	8.62	8.87	8.79	8.31	8.31	8.99	8.01		8.31	8.73	8.46
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)			Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season															
date	23-Aug-20	time	2.58	3.65	4.70	5.75	6.81	7.87	8.95	10.06	11.16	12.27	13.74	5 / 3				
reaction time	0.135	interval		1.07	1.05	1.05	1.06	1.06	1.08	1.11	1.10	1.11	1.47			3.17	3.20	3.32
wind	-0.4 m/s	velocity	5.32	8.54	8.70	8.70	8.62	8.62	8.46	8.23	8.31	8.23	9.54	8.01		8.65	8.57	8.26
Kozima, Keiichirou (JPN) (2005)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National U20 Championships (Niigata, JPN) (99.1cm)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date	30-Jun-24	time	2.69	3.76	4.82	5.86	6.90	7.93	9.00	10.08	11.15	12.25	13.74	5 / 6				
reaction time	0.155	interval	7 steps	1.07	1.06	1.04	1.04	1.03	1.07	1.08	1.07	1.10	1.49	PB		3.17	3.14	3.25
wind	0.1 m/s	velocity	5.10	8.54	8.62	8.79	8.79	8.87	8.54	8.46	8.54	8.31	9.41	8.01		8.65	8.73	8.44
Ridgeon, Jon (GBR) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 1985 European Junior Championships (Cottbus, GDR) (99cm)			Warburton (1985) - 1985 european junior championships - hurdles															
date	23-Aug-85	time	2.41	3.54	4.55	5.65	6.65	7.76	8.83	9.89	10.89	12.02	13.75	1 / 1				
reaction time		interval		1.13	1.01	1.10	1.00	1.11	1.07	1.06	1.00	1.13	1.73			3.24	3.18	3.19
wind	1.1 m/s	velocity	5.69	8.09	9.05	8.31	9.14	8.23	8.54	8.62	9.14	8.09	8.10	8.00		8.46	8.62	8.60
Faulk, Dexter (USA) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)			USATF Women's Sprint Development (2003)															
date	21-Jun-03	time	2.55	3.64	4.72	5.76	6.82	7.89	8.94	10.03	11.11	12.19	13.75	5 / 2				
reaction time		interval		1.09	1.08	1.04	1.06	1.07	1.05	1.09	1.08	1.08	1.56			3.21	3.18	3.25
wind	-2.4 m/s	velocity	5.38	8.39	8.46	8.79	8.62	8.54	8.70	8.39	8.46	8.46	8.99	8.00		8.54	8.62	8.44
Cooper, Jermaine (USA) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2007 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2007)															
date	23-Jun-07	time	2.58	3.67	4.74	5.82	6.87	7.92	8.99	10.04	11.18	12.27	13.75	2 / 5				
reaction time		interval		1.09	1.07	1.08	1.05	1.05	1.07	1.05	1.14	1.09	1.48			3.24	3.17	3.28
wind	0.1 m/s	velocity	5.32	8.39	8.54	8.46	8.70	8.70	8.54	8.70	8.02	8.39	9.47	8.00		8.46	8.65	8.36
Cooper, Jermaine (USA) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2007)															
date	24-Jun-07	time	2.60	3.67	4.74	5.79	6.84	7.89	8.98	10.06	11.16	12.26	13.75	2 / 6				
reaction time		interval		1.07	1.07	1.05	1.05	1.05	1.09	1.08	1.10	1.10	1.49			3.19	3.19	3.28
wind	-0.6 m/s	velocity	5.28	8.54	8.54	8.70	8.70	8.70	8.39	8.46	8.31	8.31	9.41	8.00		8.60	8.60	8.36
Hicks, Antwon (USA) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2007)															
date	24-Jun-07	time	2.59	3.69	4.79	5.86	6.89	7.96	8.99	10.08	11.14	12.25	13.75	6 / 7				

reaction time		interval	1.10	1.10	1.07	1.03	1.07	1.03	1.09	1.06	1.11	1.50			3.27	3.13	3.26
wind	-0.6 m/s	velocity	5.30	8.31	8.31	8.54	8.87	8.54	8.87	8.39	8.62	8.23	9.35	8.00	8.39	8.76	8.41

Bühler, Matthias (GER) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 6 - 2009 IAAF World Championships (Berlin, GER)																		
date	19-Aug-09	time	2.71	3.79	4.87	5.95	7.00	8.05	9.11	10.19	11.27	12.35		13.75	8 / 6			
reaction time	0.131	interval		1.08	1.08	1.08	1.05	1.05	1.06	1.08	1.08	1.08	1.40			3.24	3.16	3.24
wind	0.1 m/s	velocity	5.06	8.46	8.46	8.46	8.70	8.70	8.62	8.46	8.46	8.46	10.01	8.00		8.46	8.68	8.46

Graubner (2009) - biomechanical analyses at the 12th IAAF world championships

Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2012 Japanese National Championships (Osaka, JPN)																		
date	10-Jun-12	time	2.61	3.67	4.72	5.78	6.85	7.90	8.99	10.08	11.18	12.32		13.75	5 / 1			
reaction time		interval		1.06	1.05	1.06	1.07	1.05	1.09	1.09	1.10	1.14	1.43			3.17	3.21	3.33
wind	0.5 m/s	velocity	5.26	8.62	8.70	8.62	8.54	8.70	8.39	8.39	8.31	8.02	9.80	8.00		8.65	8.54	8.23

Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13

Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Division 1 FINAL - 2016 Kanto Collegiate Championships (Yokohama, JPN)																		
date	20-May-16	time	2.62	3.72	4.78	5.83	6.90	7.97	9.03	10.12	11.20	12.30		13.75	6 / 1			
reaction time	0.160	interval		1.10	1.06	1.05	1.07	1.07	1.06	1.09	1.08	1.10	1.45	PB		3.21	3.20	3.27
wind	0.3 m/s	velocity	5.24	8.31	8.62	8.70	8.54	8.54	8.62	8.39	8.46	8.31	9.67	8.00		8.54	8.57	8.39

(2016.05.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en

Furuya, Takumu (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Tokyo Six School Meeting (Tokyo, JPN)																		
date	08-Apr-17	time	2.62	3.72	4.79	5.85	6.94	7.99	9.06	10.15	11.22	12.31		13.75	5 / 2			
reaction time		interval	7 steps	1.10	1.07	1.06	1.09	1.05	1.07	1.09	1.07	1.09	1.44			3.23	3.21	3.25
wind	0.5 m/s	velocity	5.24	8.31	8.54	8.62	8.39	8.70	8.54	8.39	8.54	8.39	9.74	8.00		8.49	8.54	8.44

(2017) - tfdata-store.com/2017/04/10/post-342/

Sato, Hiroyuki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 East Japan Business Athletics Championships (Yuma, JPN)																		
date	20-May-17	time	2.57	3.63	4.69	5.74	6.79	7.87	8.95	10.04	11.16	12.28		13.75	7 / 2			
reaction time		interval		1.06	1.06	1.05	1.05	1.08	1.08	1.09	1.12	1.12	1.47			3.17	3.21	3.33
wind	1.1 m/s	velocity	5.34	8.62	8.62	8.70	8.70	8.46	8.39	8.16	8.16	9.54	8.00			8.65	8.54	8.23

(2017) - tfdata-store.com/2017/05/20/post-579/

Sato, Hiroyuki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2017 Fuse Sprint (Tottori, JPN)																		
date	04-Jun-17	time	2.61	3.68	4.74	5.78	6.84	7.90	8.97	10.07	11.18	12.30		13.75	7 / 5			
reaction time		interval		1.07	1.06	1.04	1.06	1.06	1.07	1.10	1.11	1.12	1.45			3.17	3.19	3.33
wind	1.5 m/s	velocity	5.26	8.54	8.62	8.79	8.62	8.62	8.54	8.31	8.23	8.16	9.67	8.00		8.65	8.60	8.23

(2017) - tfdata-store.com/2017/06/04/post-848/

Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2017 Japanese National Championships (Osaka, JPN)																		
date	24-Jun-17	time	2.64	3.71	4.78	5.86	6.94	8.00	9.08	10.17	11.26	12.35		13.75	7 / 6			
reaction time	0.147	interval	7 steps	1.07	1.07	1.08	1.08	1.06	1.08	1.09	1.09	1.09	1.40			3.22	3.22	3.27
wind	0.6 m/s	velocity	5.20	8.54	8.54	8.46	8.46	8.62	8.46	8.39	8.39	8.39	10.01	8.00		8.52	8.52	8.39

(2017) - tfdata-store.com/2017/07/13/post-1040/

Yang Wei-Ting (TPE) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Asian Games (Jakarta, INA)																		
date	28-Aug-18	time	2.62	3.68	4.72	5.76	6.82	7.87	8.95	10.05	11.13	12.29		13.75	8 / 8			
reaction time	0.136	interval		1.06	1.04	1.04	1.06	1.05	1.08	1.10	1.08	1.16	1.46			3.14	3.19	3.34
wind	0.0 m/s	velocity	5.24	8.62	8.79	8.79	8.62	8.70	8.46	8.31	8.46	7.88	9.60	8.00		8.73	8.60	8.21

Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season

Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Japanese University National Championships (Nagoya, JPN)																		
date	09-Sep-18	time	2.60	3.65	4.69	5.77	6.80	7.88	8.94	10.04	11.15	12.28		13.75	1 / 1			
reaction time		interval		1.05	1.04	1.08	1.03	1.08	1.06	1.10	1.11	1.13	1.47	PB		3.17	3.17	3.34
wind	-1.1 m/s	velocity	5.28	8.70	8.79	8.46	8.87	8.46	8.62	8.31	8.23	8.09	9.54	8.00		8.65	8.65	8.21

Shibayama (2021) race analysis of men's 110m hurdles in the 2021 season

Sun Zhenjiang (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																		
date	13-Apr-19	time	2.65	3.72	4.76	5.80	6.84	7.90	8.98	10.06	11.14	12.26		13.75	2 / 2			
reaction time	0.181	interval	7 steps	1.07	1.04	1.04	1.04	1.06	1.08	1.08	1.08	1.12	1.49	PB		3.15	3.18	3.28
wind	-0.3 m/s	velocity	5.18	8.54	8.79	8.79	8.79	8.62	8.46	8.46	8.46	8.16	9.41	8.00		8.70	8.62	8.36

CAA Hurdle Development (2019)

Chan Chung Wang (HKG) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)																		
date	04-Jun-19	time	2.65	3.73	4.78	5.85	6.89	7.94	9.04	10.11	11.20	12.29		13.75	7 / 3			
reaction time	0.149	interval		1.08	1.05	1.07	1.04	1.05	1.10	1.07	1.09	1.09	1.46			3.20	3.19	3.25
wind	-0.3 m/s	velocity	5.18	8.46	8.70	8.54	8.79	8.70	8.31	8.54	8.39	8.39	9.60	8.00		8.57	8.60	8.44

CAA Hurdle Development (2019)

Vukicevic, Vladimir (NOR) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)																		
date	14-Aug-20	time	2.63	3.70	4.77	5.80	6.87	7.91	9.00	10.07	11.14	12.24		13.75	1 / 6			
reaction time	0.130	interval		1.07	1.07	1.03	1.07	1.04	1.09	1.07	1.07	1.10	1.51			3.17	3.20	3.24

Henson (2020) - Athlete First: 2020 year end hurdle report

wind	0.8 m/s	velocity	5.22	8.54	8.54	8.87	8.54	8.79	8.39	8.54	8.54	8.31	9.28	8.00		8.65	8.57	8.46	
Zhang Honglin (CHN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)															CAA Hurdle Development (2021)				
date	12-Jun-21	time	2.65	3.75	4.79	5.82	6.87	7.94	9.01	10.07	11.18	12.29		13.75	5 / 2		3.17	3.19	3.28
reaction time	0.161	interval		1.10	1.04	1.03	1.05	1.07	1.07	1.06	1.11	1.11	1.46				3.17	3.19	3.28
wind	0.9 m/s	velocity	5.18	8.31	8.79	8.87	8.70	8.54	8.54	8.62	8.23	8.23	9.60	8.00		8.65	8.60	8.36	
Ning Xiaohan (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Chinese National Championships (Chongqing, CHN)															CAA Hurdle Development (2021)				
date	25-Jun-21	time	2.57	3.64	4.67	5.70	6.74	7.77	8.86	9.94	11.05	12.18		13.75	4 / 3		3.13	3.16	3.32
reaction time	0.134	interval		1.07	1.03	1.03	1.04	1.03	1.09	1.08	1.11	1.13	1.57				3.13	3.16	3.32
wind	1.6 m/s	velocity	5.34	8.54	8.87	8.87	8.79	8.87	8.39	8.46	8.23	8.09	8.93	8.00		8.76	8.68	8.26	
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)															Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season				
date	29-Apr-21	time	2.60	3.66	4.72	5.76	6.82	7.88	8.96	10.03	11.14	12.25		13.75	7 / 7		3.16	3.20	3.29
reaction time		interval		1.06	1.06	1.04	1.06	1.06	1.08	1.07	1.11	1.11	1.50				3.16	3.20	3.29
wind	1.7 m/s	velocity	5.28	8.62	8.62	8.79	8.62	8.62	8.46	8.54	8.23	8.23	9.35	8.00		8.68	8.57	8.33	
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)															Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season				
date	08-May-22	time	2.63	3.69	4.73	5.80	6.86	7.93	9.00	10.09	11.18	12.31		13.75	4 / 7		3.17	3.20	3.31
reaction time	0.156	interval		1.06	1.04	1.07	1.06	1.07	1.07	1.09	1.09	1.13	1.44				3.17	3.20	3.31
wind	0.1 m/s	velocity	5.22	8.62	8.79	8.54	8.62	8.54	8.54	8.39	8.39	8.09	9.74	8.00		8.65	8.57	8.28	
Koga, Jieremi (JPN) (2007)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Japanese National U20 Championships (Niigata, JPN) (99.1cm)															Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season				
date	30-Jun-24	time	2.61	3.68	4.75	5.76	6.84	7.91	8.97	10.07	11.16	12.27		13.75	7 / 7		3.15	3.21	3.30
reaction time	0.171	interval	7 steps	1.07	1.07	1.01	1.08	1.07	1.06	1.10	1.09	1.11	1.48				3.15	3.21	3.30
wind	0.1 m/s	velocity	5.26	8.54	8.54	9.05	8.46	8.54	8.62	8.31	8.39	8.23	9.47	8.00		8.70	8.54	8.31	
Szymański, Jakub (POL) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2024 Olympic Games (Paris, FRA)															Paris 2024 Olympic Games - Results Book (2024)				
date	04-Aug-24	time	2.42	3.50	4.51	5.52	6.53	7.57	8.63	9.72	10.84	11.99		13.75	5 / 7		3.10	3.11	3.36
reaction time	0.161	interval	7 steps	1.08	1.01	1.01	1.01	1.04	1.06	1.09	1.12	1.15	1.76				3.10	3.11	3.36
wind	0.1 m/s	velocity	5.67	8.46	9.05	9.05	9.05	8.79	8.62	8.39	8.16	7.95	7.97	8.00		8.85	8.82	8.16	
Lakka, Elmo (FIN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Repechage 1 - 2024 Olympic Games (Paris, FRA)															Paris 2024 Olympic Games - Results Book (2024)				
date	06-Aug-24	time	2.44	3.53	4.58	5.61	6.65	7.70	8.76	9.84	10.94	12.07		13.75	3 / 7		3.17	3.15	3.31
reaction time	0.140	interval	7 steps	1.09	1.05	1.03	1.04	1.05	1.06	1.08	1.10	1.13	1.68				3.17	3.15	3.31
wind	0.2 m/s	velocity	5.62	8.39	8.70	8.87	8.79	8.70	8.62	8.46	8.31	8.09	8.35	8.00		8.65	8.70	8.28	
Nádenicek, Lubomir (TCH) (1947)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1972 Olympic Games (Munich, GER)															Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften				
date	07-Sep-72	time	2.5			5.7								13.76	2 / 7		3.20		
reaction time		interval				3.2													
wind	0.3 m/s	velocity	5.60			8.57								7.99			8.57		
Re, Mauro (ITA) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1997 European Cup (Munich, GER)															Jung (2003) - http://www.fgs.uni-halle.de				
date	22-Jun-97	time	2.70	3.76	4.81	5.84	6.89	7.94	9.00	10.06	11.18	12.30		13.76	1 / 6		3.14	3.16	3.30
reaction time		interval		1.06	1.05	1.03	1.05	1.05	1.06	1.06	1.12	1.12	1.46				3.14	3.16	3.30
wind	0.2 m/s	velocity	5.08	8.62	8.70	8.87	8.70	8.70	8.62	8.62	8.16	8.16	9.60	7.99		8.73	8.68	8.31	
Doucouré, Ladji (FRA) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2004 Olympic Games (Athens, GRE)															Ruiz (2004) - las carreras con vallas de juegos olimpicos de atenas '04				
date	27-Aug-04	time	2.52	3.54	4.55	5.56	6.55	7.54	8.54	9.55	10.58	11.63		13.76	3 / 8		3.04	2.98	3.09
reaction time	0.204	interval		1.02	1.01	1.01	0.99	0.99	1.00	1.01	1.03	1.05	2.13				3.04	2.98	3.09
wind	0.3 m/s	velocity	5.44	8.96	9.05	9.05	9.23	9.23	9.14	9.05	8.87	8.70	6.58	7.99		9.02	9.20	8.87	
Odom, Marlon (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2007 USATF National Championships (Indianapolis, IN)															USATF Men's Hurdle Development (2007)				
date	23-Jun-07	time	2.70	3.77	4.82	5.89	6.94	7.99	9.03	10.07	11.16	12.28		13.76	4 / 6		3.19	3.14	3.25
reaction time		interval		1.07	1.05	1.07	1.05	1.05	1.04	1.04	1.09	1.12	1.48				3.19	3.14	3.25
wind	0.1 m/s	velocity	5.08	8.54	8.70	8.54	8.70	8.70	8.79	8.79	8.39	8.16	9.47	7.99		8.60	8.73	8.44	
Ohashi, Yuji (JPN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)															Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles				
date	29-Apr-09	time	2.62	3.71	4.75	5.83	6.87	7.95	9.01	10.08	11.18	12.29		13.76	1 / 3		3.21	3.18	3.28
reaction time		interval		1.09	1.04	1.08	1.04	1.08	1.06	1.07	1.10	1.11	1.47				3.21	3.18	3.28
wind	1.9 m/s	velocity	5.24	8.39	8.79	8.46	8.79	8.46	8.62	8.54	8.31	8.23	9.54	7.99		8.54	8.62	8.36	

Lynsha, Maksim (BLR) (1985)																
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 1 - 2011 European Team Championships (Stockholm, SWE)																
													Blomkvist (2011) - www.sub13.se			
date	19-Jun-11	time	2.60	3.66	4.72	5.80	6.84	7.92	8.98	10.06	11.16	12.24	13.76	6 / 3		
reaction time	0.173	interval		1.06	1.06	1.08	1.04	1.08	1.06	1.08	1.10	1.08	1.52		3.20	3.18
wind	-0.8 m/s	velocity	5.28	8.62	8.62	8.46	8.79	8.46	8.62	8.46	8.31	8.46	9.22	7.99	8.57	8.62
Parchment, Hansle (JAM) (1990)																
FINAL - 2012 AVIVA Grand Prix (Birmingham, GBR) (TV Analysis)																
													Henson (2020) - Athlete First: 2012 Aries Merritt world record season			
date	26-Aug-12	time	2.54	3.63	4.75	5.85	6.97	8.00	9.05	10.12	11.16	12.22	13.76	5 / 8		
reaction time	0.155	interval	7 steps	1.09	1.12	1.10	1.12	1.03	1.05	1.07	1.04	1.06	1.54		3.31	3.20
wind	-0.9 m/s	velocity	5.40	8.39	8.16	8.31	8.16	8.87	8.70	8.54	8.79	8.62	9.10	7.99	8.28	8.57
Omuro, Hideki (JPN) (1990)																
Heat 1 - 2013 Mikio Oda Memorial (Hiroshima, JPN)																
													Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13			
date	29-Apr-13	time	2.64	3.69	4.76	5.81	6.87	7.93	9.01	10.09	11.20	12.31	13.76	1 / 1		
reaction time		interval		1.05	1.07	1.05	1.06	1.06	1.08	1.08	1.11	1.11	1.45		3.17	3.20
wind	1.5 m/s	velocity	5.20	8.70	8.54	8.70	8.62	8.62	8.46	8.46	8.23	8.23	9.67	7.99	8.65	8.57
Tanaka, Shinya (JPN) (1993)																
FINAL - 2017 East Japan Business Athletics Championships (Yuma, JPN)																
													(2017) - tfdata-store.com/2017/05/20/post-579/			
date	20-May-17	time	2.58	3.65	4.70	5.78	6.84	7.93	9.02	10.10	11.20	12.32	13.76	6 / 3		
reaction time		interval	7 steps	1.07	1.05	1.08	1.06	1.09	1.09	1.08	1.10	1.12	1.44	PB	3.20	3.24
wind	1.1 m/s	velocity	5.32	8.54	8.70	8.46	8.62	8.39	8.39	8.46	8.31	8.16	9.74	7.99	8.57	8.46
Zeng Jianhang (CHN) (1998)																
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)																
													Henson (2020) - Athlete First: 2018 year end hurdle report			
date	12-May-18	time	2.56	3.60	4.64	5.68	6.72	7.78	8.84	9.92	11.00	12.16	13.76	1 / 8		
reaction time	0.148	interval		1.04	1.04	1.04	1.04	1.06	1.06	1.08	1.08	1.16	1.60	PB	3.12	3.16
wind	0.2 m/s	velocity	5.36	8.79	8.79	8.79	8.79	8.62	8.62	8.46	8.46	7.88	8.76	7.99	8.79	8.68
Xie Wenjun (CHN) (1990)																
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)																
													Henson (2018) - coaching observations			
date	15-Sep-18	time	2.63	3.69	4.74	5.77	6.82	7.87	8.93	10.02	11.11	12.21	13.76	5 / 1		
reaction time		interval	7 steps	1.06	1.05	1.03	1.05	1.05	1.06	1.09	1.09	1.10	1.55		3.14	3.16
wind	-0.2 m/s	velocity	5.22	8.62	8.70	8.87	8.70	8.70	8.62	8.39	8.39	8.31	9.05	7.99	8.73	8.68
Takayama, Shunya (JPN) (1994)																
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)																
													Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season			
date	29-Apr-18	time	2.64	3.71	4.78	5.83	6.89	7.95	9.01	10.09	11.20	12.32	13.76	5 / 5		
reaction time		interval		1.07	1.07	1.05	1.06	1.06	1.06	1.08	1.11	1.12	1.44		3.19	3.18
wind	2.6 m/s	velocity	5.20	8.54	8.54	8.70	8.62	8.62	8.62	8.46	8.23	8.16	9.74	7.99	8.60	8.62
Fudaba, Hiroki (JPN) (1994)																
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)																
													Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season			
date	24-Jun-18	time	2.68	3.75	4.82	5.85	6.92	7.97	9.04	10.11	11.20	12.32	13.76	3 / 4		
reaction time	0.164	interval	7 steps	1.07	1.07	1.03	1.07	1.05	1.07	1.07	1.09	1.12	1.44		3.17	3.19
wind	0.7 m/s	velocity	5.12	8.54	8.54	8.87	8.54	8.70	8.54	8.54	8.39	8.16	9.74	7.99	8.65	8.60
Harris, Aleec (USA) (1990)																
FINAL - 2018 USATF Championships (Des Moines, IA) (TV Analysis)																
													Henson (2020) - Athlete First: 2018 year end hurdle report			
date	24-Jun-18	time	2.57	3.63	4.70	5.77	6.80	7.85	8.90	10.01	11.11	12.21	13.76	6 / 7		
reaction time		interval		1.06	1.07	1.07	1.03	1.05	1.05	1.11	1.10	1.10	1.55		3.20	3.13
wind	-1.8 m/s	velocity	5.34	8.62	8.54	8.54	8.87	8.70	8.70	8.23	8.31	8.31	9.05	7.99	8.57	8.76
Omuro, Hideki (JPN) (1990)																
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)																
													Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season			
date	19-May-19	time	2.59	3.70	4.77	5.86	6.95	8.03	9.08	10.16	11.24	12.33	13.76	1 / 8		
reaction time	0.143	interval		1.11	1.07	1.09	1.09	1.08	1.05	1.08	1.08	1.09	1.43		3.27	3.22
wind	2.9 m/s	velocity	5.30	8.23	8.54	8.39	8.39	8.46	8.70	8.46	8.46	8.39	9.80	7.99	8.39	8.52
Yazawa, Wataru (JPN) (1991)																
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)																
													Yamanaka (2019) - research on athlete performance and technique- 2019 data book			
date	30-Jun-19	time	2.64	3.71	4.77	5.83	6.87	7.92	9.00	10.07	11.18	12.29	13.76	9 / 4		
reaction time	0.138	interval	7 steps	1.07	1.06	1.06	1.04	1.05	1.08	1.07	1.11	1.11	1.47		3.19	3.17
wind	-0.6 m/s	velocity	5.20	8.54	8.62	8.62	8.79	8.70	8.46	8.54	8.23	8.23	9.54	7.99	8.60	8.65
Chaverra, Joan Camilo (PUR) (1995)																
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)																
													CAA Hurdle Development (2019)			
date	02-Oct-19	time	2.60	3.66	4.71	5.74	6.77	7.81	8.85	9.93	11.06	12.19	13.76	3 / 8		
reaction time	0.164	interval	7 steps	1.06	1.05	1.03	1.03	1.04	1.04	1.08	1.13	1.13	1.57		3.14	3.11
wind	0.9 m/s	velocity	5.28	8.62	8.70	8.87	8.87	8.79	8.79	8.46	8.09	8.09	8.93	7.99	8.73	8.82

Fillery, Cameron (GBR) (1998)																
FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)																
date	25-Sep-20	time	2.52	3.64	4.72	5.76	6.80	7.84	8.92	10.00	11.08	12.16		13.76	6 / 5	
reaction time	0.128	interval	7 steps	1.12	1.08	1.04	1.04	1.04	1.08	1.08	1.08	1.08	1.60		3.24	3.16
wind	0.3 m/s	velocity	5.44	8.16	8.46	8.79	8.79	8.79	8.46	8.46	8.46	8.46	8.76	7.99	8.46	8.68
Zhang Honglin (CHN) (1994)																
FINAL - 2021 National Grand Prix (Chengdu, CHN)																
date	02-Apr-21	time	2.66	3.76	4.80	5.87	6.91	7.94	9.02	10.08	11.20	12.30		13.76	4 / 1	
reaction time	0.179	interval		1.10	1.04	1.07	1.04	1.03	1.08	1.06	1.12	1.10	1.46		3.21	3.15
wind	-0.1 m/s	velocity	5.16	8.31	8.79	8.54	8.79	8.87	8.46	8.62	8.16	8.31	9.60	7.99	8.54	8.70
Thomas, Damion (JAM) (1999)																
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)																
date	11-Jun-21	time	2.60	3.67	4.70	5.75	6.77	7.80	8.90	10.00	11.07	12.23		13.76	6 / 8	
reaction time	0.200	interval	7 steps	1.07	1.03	1.05	1.02	1.03	1.10	1.10	1.07	1.16	1.53		3.15	3.15
wind	-0.6 m/s	velocity	5.28	8.54	8.87	8.70	8.96	8.87	8.31	8.31	8.54	7.88	9.16	7.99	8.70	8.70
Dal Molin, Paolo (ITA) (1987)																
FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)																
date	16-Jun-22	time	2.52	3.60	4.66	5.72	6.76	7.84	8.94	10.02	11.12	12.26		13.76	8 / 6	
reaction time	0.122	interval	7 steps	1.08	1.06	1.06	1.04	1.08	1.10	1.08	1.10	1.14	1.50		3.20	3.22
wind	-1.2 m/s	velocity	5.44	8.46	8.62	8.62	8.79	8.46	8.31	8.46	8.31	8.02	9.35	7.99	8.57	8.52
Edwards Jr., Eric (USA) (2000)																
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)																
date	26-Jun-22	time	2.57	3.63	4.70	5.74	6.78	7.82	8.87	9.94	11.02	12.11		13.76	8 / 7	
reaction time	0.175	interval		1.06	1.07	1.04	1.04	1.04	1.05	1.07	1.08	1.09	1.65		3.17	3.13
wind	1.2 m/s	velocity	5.34	8.62	8.54	8.79	8.79	8.79	8.70	8.54	8.46	8.39	8.50	7.99	8.65	8.76
Kotani, Arata (JPN) (2000)																
FINAL - 2024 Michitaka Kinami Memorial (Osaka, JPN)																
date	12-May-24	time	2.64	3.69	4.74	5.81	6.85	7.93	9.01	10.10	11.20	12.31		13.76	9 / 7	
reaction time	0.175	interval		1.05	1.05	1.07	1.04	1.08	1.08	1.09	1.10	1.11	1.45	PB	3.17	3.20
wind	0.9 m/s	velocity	5.20	8.70	8.70	8.54	8.79	8.46	8.46	8.39	8.31	8.23	9.67	7.99	8.65	8.57
Harrold, Daniel (USA) (2000)																
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																
date	27-Jun-24	time	2.54	3.60	4.64	5.67	6.71	7.77	8.81	9.88	10.96	12.05		13.76	9 / 8	
reaction time		interval	7 steps	1.06	1.04	1.03	1.04	1.06	1.04	1.07	1.08	1.09	1.71		3.13	3.14
wind	0.3 m/s	velocity	5.40	8.62	8.79	8.87	8.79	8.62	8.79	8.54	8.46	8.39	8.20	7.99	8.76	8.73
Herring, Aubrey (USA) (1978)																
FINAL - 2008 Seiko Super Grand Prix (Kawasaki, JPN)																
date	23-Sep-08	time	2.45	3.54	4.60	5.64	6.66	7.74	8.81	9.89	10.98	12.12		13.77	/ 2	
reaction time		interval		1.09	1.06	1.04	1.02	1.08	1.07	1.08	1.09	1.14	1.65		3.19	3.17
wind	-0.7 m/s	velocity	5.60	8.39	8.62	8.79	8.96	8.46	8.54	8.46	8.39	8.02	8.50	7.99	8.60	8.65
Park Tae-Kyong (KOR) (1980)																
FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)																
date	29-Apr-09	time	2.64	3.71	4.77	5.84	6.89	7.96	9.08	10.13	11.23	12.33		13.77	/ 4	
reaction time		interval		1.07	1.06	1.07	1.05	1.07	1.12	1.05	1.10	1.10	1.44		3.20	3.24
wind	1.9 m/s	velocity	5.20	8.54	8.62	8.54	8.70	8.54	8.16	8.70	8.31	8.31	9.74	7.99	8.57	8.46
Yahata, Kenji (JPN) (1980)																
FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)																
date	29-Apr-09	time	2.63	3.71	4.78	5.83	6.88	7.94	8.99	10.08	11.17	12.29		13.77	/ 4	
reaction time		interval		1.08	1.07	1.05	1.05	1.06	1.05	1.09	1.09	1.12	1.48		3.20	3.16
wind	1.9 m/s	velocity	5.22	8.46	8.54	8.70	8.70	8.62	8.70	8.39	8.39	8.16	9.47	7.99	8.57	8.68
Shuto, Takayuki (JPN) (1986)																
FINAL - 2009 Japanese National Championships (Hiroshima, JPN)																
date	27-Jun-09	time	2.65	3.75	4.81	5.90	6.94	8.01	9.08	10.15	11.27	12.32		13.77	4 / 2	
reaction time		interval		1.10	1.06	1.09	1.04	1.07	1.07	1.07	1.12	1.05	1.45	PB	3.25	3.18
wind	1.6 m/s	velocity	5.18	8.31	8.62	8.39	8.79	8.54	8.54	8.54	8.16	8.70	9.67	7.99	8.44	8.62
Moses, Yume (JPN) (1988)																
FINAL - 2009 Seiko Super Grand Prix (Kawasaki, JPN)																
date	23-Sep-09	time	2.60	3.68	4.74	5.80	6.87	7.94	9.02	10.10	11.18	12.28		13.77	/ 2	
reaction time		interval		1.08	1.06	1.06	1.07	1.07	1.08	1.08	1.08	1.10	1.49		3.20	3.22
wind	-1.3 m/s	velocity	5.28	8.46	8.62	8.62	8.54	8.54	8.46	8.46	8.46	8.31	9.41	7.99	8.57	8.52
Thornton, Kirk (USA)																
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4

FINAL - 2010 Folsam GP (Sollentuna, SWE)*Blomkvist (2010) - www.sub13.se*

date	01-Jul-10	time	2.51	3.57	4.64	5.69	6.73	7.79	8.85	9.93	11.01	12.12		13.77					
reaction time		interval	7 steps	1.06	1.07	1.05	1.04	1.06	1.06	1.08	1.08	1.11	1.65			3.18	3.16	3.27	
wind	0.4 m/s	velocity	5.47	8.62	8.54	8.70	8.79	8.62	8.62	8.46	8.46	8.23	8.50	7.99		8.62	8.68	8.39	

Sato, Hiroyuki (JPN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 Mito Invitational Athletics Meeting (Mito, JPN)*Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13*

date	04-May-12	time	2.60	3.67	4.74	5.81	6.87	7.95	9.02	10.09	11.19	12.31		13.77		1		
reaction time		interval		1.07	1.07	1.07	1.06	1.08	1.07	1.07	1.10	1.12	1.46			3.21	3.21	3.29
wind	-0.3 m/s	velocity	5.28	8.54	8.54	8.54	8.62	8.46	8.54	8.54	8.31	8.16	9.60	7.99		8.54	8.54	8.33

Vukicevic, Vladimir (NOR) (1991)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 Windsprint (Sundsvall, SWE)*Blomkvist (2012) - www.sub13.se*

date	17-Jun-12	time	2.67	3.76	4.83	5.89	6.94	8.00	9.06	10.12	11.19	12.30		13.77		3		
reaction time		interval		1.09	1.07	1.06	1.05	1.06	1.06	1.06	1.07	1.11	1.47			3.22	3.17	3.24
wind	1.1 m/s	velocity	5.14	8.39	8.54	8.62	8.70	8.62	8.62	8.62	8.54	8.23	9.54	7.99		8.52	8.65	8.46

Mita, Kyohei (JPN) (1991)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 3 - 2013 Mikio Oda Memorial (Hiroshima, JPN)*Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13*

date	29-Apr-13	time	2.66	3.76	4.83	5.90	6.96	8.03	9.10	10.17	11.26	12.34		13.77		1		
reaction time		interval		1.10	1.07	1.07	1.06	1.07	1.07	1.07	1.09	1.08	1.43			3.24	3.20	3.24
wind	2.4 m/s	velocity	5.16	8.31	8.54	8.54	8.62	8.54	8.54	8.54	8.39	8.46	9.80	7.99		8.46	8.57	8.46

Penáz, Petr (CZE) (1991)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2013 Czech Republic National Championships (Tábor, CZE)*Feher (2013) - Final report from the men's & women's Czech Republic national championships*

date	15-Jun-13	time	2.78	3.85	4.93	5.96	7.00	8.04	9.10	10.18	11.25	12.29		13.77		5		
reaction time	0.202	interval		1.07	1.08	1.03	1.04	1.04	1.06	1.08	1.07	1.04	1.48	PB		3.18	3.14	3.19
wind	0.4 m/s	velocity	4.94	8.54	8.46	8.87	8.79	8.79	8.62	8.46	8.54	8.79	9.47	7.99		8.62	8.73	8.60

Perini, Lorenzo (ITA) (1994)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2014 European Championships (Zurich, SUI)*Incalza (2014) - https://www.youtube.com/watch?v=4CScuS4aCYI&list=UU7691fXeyNFIMROfkJ-WWUg*

date	13-Aug-14	time	2.64	3.72	4.78	5.81	6.84	7.90	8.97	10.06	11.16	12.28		13.77		4		
reaction time	0.141	interval		1.08	1.06	1.03	1.03	1.06	1.07	1.09	1.10	1.12	1.49			3.17	3.16	3.31
wind	-0.7 m/s	velocity	5.20	8.46	8.62	8.87	8.87	8.62	8.54	8.39	8.31	8.16	9.41	7.99		8.65	8.68	8.28

Perini, Lorenzo (ITA) (1994)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2015 Italian National Championships (Torino, ITA)*Incalza (FIDAL - Centro Studi & Ricerche) (2015) - https://www.youtube.com/watch?v=Ytpg1XHNpfg*

date	25-Jul-15	time	2.69	3.75	4.81	5.88	6.94	7.98	9.05	10.13	11.23	12.35		13.77		4		
reaction time		interval		1.06	1.06	1.07	1.06	1.04	1.07	1.08	1.10	1.12	1.42			3.19	3.17	3.30
wind	1.8 m/s	velocity	5.10	8.62	8.62	8.54	8.62	8.79	8.54	8.46	8.31	8.16	9.87	7.99		8.60	8.65	8.31

Yazawa, Wataru (JPN) (1991)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)*(2017) - tfdata-store.com/2017/05/08/post-413/*

date	07-May-17	time	2.62	3.70	4.77	5.83	6.89	7.97	9.04	10.11	11.21	12.33		13.77		6		
reaction time		interval	7 steps	1.08	1.07	1.06	1.06	1.08	1.07	1.07	1.10	1.12	1.44			3.21	3.21	3.29
wind	-1.5 m/s	velocity	5.24	8.46	8.54	8.62	8.62	8.46	8.54	8.54	8.31	8.16	9.74	7.99		8.54	8.54	8.33

Kanai, Taio (JPN) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Japanese National Championships (Osaka, JPN)*(2017) - tfdata-store.com/2017/07/13/post-1040/*

date	25-Jun-17	time	2.58	3.65	4.71	5.78	6.85	7.92	9.00	10.09	11.20	12.31		13.77		6		
reaction time		interval	7 steps	1.07	1.06	1.07	1.07	1.07	1.08	1.09	1.11	1.11	1.46			3.20	3.22	3.31
wind	-0.2 m/s	velocity	5.32	8.54	8.62	8.54	8.54	8.54	8.46	8.39	8.23	8.23	9.60	7.99		8.57	8.52	8.28

Kuriki, Anthony Tyrell (JPN) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

A FINAL - 2018 National Sports Festival (Fukui, JPN)*Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season*

date	08-Oct-18	time	2.64	3.70	4.78	5.87	6.92	8.00	9.06	10.15	11.23	12.30		13.77		8		
reaction time	0.129	interval		1.06	1.08	1.09	1.05	1.08	1.06	1.09	1.08	1.07	1.47			3.23	3.19	3.24
wind	1.2 m/s	velocity	5.20	8.62	8.46	8.39	8.70	8.46	8.62	8.39	8.46	8.54	9.54	7.99		8.49	8.60	8.46

Zeng Jianhang (CHN) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)*Henson (2018) - coaching observations*

date	16-Sep-18	time	2.72	3.78	4.81	5.84	6.87	7.92	8.99	10.07	11.14	12.30		13.77		4		
reaction time		interval		1.06	1.03	1.03	1.03	1.05	1.07	1.08	1.07	1.16	1.47			3.12	3.15	3.31
wind	-0.3 m/s	velocity	5.04	8.62	8.87	8.87	8.87	8.70	8.54	8.46	8.54	7.88	9.54	7.99		8.79	8.70	8.28

Sato, Hiroyuki (JPN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 Fuse Sprint (Tottori, JPN)*Kijima (2019) - research on athlete performance and technique- 2019 data book*

date	02-Jun-19	time	2.53	3.61	4.67	5.73	6.77	7.85	8.93	10.05	11.16	12.30		13.77		6		
reaction time	0.126	interval		1.08	1.06	1.06	1.04	1.08	1.08	1.12	1.11	1.14	1.47			3.20	3.20	3.37
wind	1.9 m/s	velocity	5.42	8.46	8.62	8.62	8.79	8.46	8.46	8.16	8.23	8.02	9.54	7.99		8.57	8.57	8.14

Pan Zijie (CHN) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	02-Aug-19	time	2.62	3.70	4.77	5.84	6.91	7.96	9.04	10.11	11.21	12.32		13.77	8 / 3			
reaction time	0.171	interval		1.08	1.07	1.07	1.07	1.05	1.08	1.07	1.10	1.11	1.45	PB		3.22	3.20	3.28
wind	0.0 m/s	velocity	5.24	8.46	8.54	8.54	8.54	8.70	8.46	8.54	8.31	8.23	9.67	7.99		8.52	8.57	8.36
Shi Guoxing (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)			CAA Hurdle Development (2019)															
date	14-Aug-19	time	2.72	3.81	4.86	5.91	6.97	8.04	9.11	10.19	11.26	12.34		13.77	5 / 2			
reaction time	0.179	interval		1.09	1.05	1.05	1.06	1.07	1.07	1.08	1.07	1.08	1.43			3.19	3.20	3.23
wind	-0.3 m/s	velocity	5.04	8.39	8.70	8.70	8.62	8.54	8.54	8.46	8.54	8.46	9.80	7.99		8.60	8.57	8.49
Masuno, Genta (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)			Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season															
date	24-Oct-20	time	2.61	3.68	4.75	5.80	6.87	7.92	8.98	10.06	11.18	12.27		13.77	2 / 5			
reaction time		interval		1.07	1.07	1.05	1.07	1.05	1.06	1.08	1.12	1.09	1.50			3.19	3.18	3.29
wind	0.6 m/s	velocity	5.26	8.54	8.54	8.70	8.54	8.70	8.62	8.46	8.16	8.39	9.35	7.99		8.60	8.62	8.33
Tokuoka, Ryo (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)			Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season															
date	09-May-21	time	2.63	3.69	4.74	5.82	6.87	7.92	9.05	10.15	11.25	12.35		13.77	3 / 8			
reaction time	0.166	interval		1.06	1.05	1.08	1.05	1.05	1.13	1.10	1.10	1.10	1.42	PB		3.19	3.23	3.30
wind	-0.8 m/s	velocity	5.22	8.62	8.70	8.46	8.70	8.70	8.09	8.31	8.31	8.31	9.87	7.99		8.60	8.49	8.31
Kawashima, Ryota (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Fuse Sprint (Tottori, JPN)			Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season															
date	06-Jun-21	time	2.59	3.68	4.75	5.79	6.85	7.92	8.98	10.06	11.14	12.27		13.77	3 / 5			
reaction time	0.139	interval		1.09	1.07	1.04	1.06	1.07	1.06	1.08	1.08	1.13	1.50	PB		3.20	3.19	3.29
wind	1.8 m/s	velocity	5.30	8.39	8.54	8.79	8.62	8.54	8.62	8.46	8.46	8.09	9.35	7.99		8.57	8.60	8.33
Smet, Koen (BEL) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)			Henson (2021) - Athlete First: 2021 year end hurdle report															
date	09-Sep-21	time	2.56	3.62	4.66	5.70	6.78	7.84	8.94	10.02	11.10	12.22		13.77	1 / 7			
reaction time	0.132	interval		1.06	1.04	1.04	1.08	1.06	1.10	1.08	1.08	1.12	1.55			3.14	3.24	3.28
wind	0.6 m/s	velocity	5.36	8.62	8.79	8.79	8.46	8.62	8.31	8.46	8.46	8.16	9.05	7.99		8.73	8.46	8.36
LePage, Pierce (CAN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			Henson (2024) - Athlete First: 2023 year end hurdle report															
date	26-Aug-23	time	2.65	3.76	4.82	5.90	6.98	8.02	9.08	10.16	11.25	12.36		13.77	3 / 2			
reaction time	0.183	interval	7 steps	1.11	1.06	1.08	1.08	1.04	1.06	1.08	1.09	1.11	1.41	PB		3.25	3.18	3.28
wind	0.2 m/s	velocity	5.18	8.23	8.62	8.46	8.46	8.79	8.62	8.46	8.39	8.23	9.94	7.99		8.44	8.62	8.36
Gaio, Finley (SUI) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Weltklasse (Zürich, SUI)			Omega Timing (2023) - diamond league race analysis															
date	31-Aug-23	time	2.45	3.55	4.63	5.69	6.74	7.81	8.92	10.01	11.10	12.18		13.77	9 / 8			
reaction time	0.154	interval	7 steps	1.10	1.08	1.06	1.05	1.07	1.11	1.09	1.09	1.08	1.59			3.24	3.23	3.26
wind	-0.1 m/s	velocity	5.60	8.31	8.46	8.62	8.70	8.54	8.23	8.39	8.39	8.46	8.82	7.99		8.46	8.49	8.41
Ning Xiaohan (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2024 Mikio Oda Memorial (Hiroshima, JPN)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date	29-Apr-24	time	2.65	3.73	4.78	5.82	6.87	7.94	9.00	10.08	11.15	12.25		13.77	4 / 1			
reaction time	0.154	interval		1.08	1.05	1.04	1.05	1.07	1.06	1.08	1.07	1.10	1.52			3.17	3.18	3.25
wind	-0.7 m/s	velocity	5.18	8.46	8.70	8.79	8.70	8.54	8.62	8.46	8.54	8.31	9.22	7.99		8.65	8.62	8.44
Werrmann, Jens (GER) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2006 German National Championships (Ulm, GER)			Killing (2006) - Werrmann und Dittmer im vergleich															
date	15-Jul-06	time	2.68	3.78	4.84	5.90	6.95	8.03	9.09	10.16	11.24	12.37		13.78	/ 1			
reaction time	0.146	interval		1.10	1.06	1.06	1.05	1.08	1.06	1.07	1.08	1.13	1.41	PB		3.22	3.19	3.28
wind	-0.3 m/s	velocity	5.12	8.31	8.62	8.62	8.70	8.46	8.62	8.54	8.46	8.09	9.94	7.98		8.52	8.60	8.36
Trammell, Terrence (USA) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2007 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2007)															
date	23-Jun-07	time	2.62	3.72	4.77	5.82	6.89	7.96	9.06	10.13	11.23	12.30		13.78	2 / 3			
reaction time		interval		1.10	1.05	1.05	1.07	1.07	1.10	1.07	1.10	1.07	1.48			3.20	3.24	3.24
wind	-2.8 m/s	velocity	5.24	8.31	8.70	8.70	8.54	8.54	8.31	8.54	8.31	8.54	9.47	7.98		8.57	8.46	8.46
Ohashi, Yuji (JPN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2009 Japanese National Championships (Hiroshima, JPN)			Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season															
date	26-Jun-09	time	2.46	3.55	4.61	5.65	6.70	7.76	8.83	9.90	11.00	12.12		13.78	3 / 1			
reaction time		interval		1.09	1.06	1.04	1.05	1.06	1.07	1.07	1.10	1.12	1.66			3.19	3.18	3.29
wind	0.6 m/s	velocity	5.58	8.39	8.62	8.79	8.70	8.62	8.54	8.54	8.31	8.16	8.45	7.98		8.60	8.62	8.33
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Mito Invitational Athletics Meeting (Mito, JPN)			Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13															
date	04-May-12	time	2.65	3.72	4.80	5.87	6.91	7.99	9.07	10.16	11.25	12.35		13.78	/ 3			

reaction time		interval	1.07	1.08	1.07	1.04	1.08	1.08	1.09	1.09	1.10	1.43			3.22	3.20	3.28
wind	-0.3 m/s	velocity	5.18	8.54	8.46	8.54	8.79	8.46	8.46	8.39	8.39	8.31	9.80	7.98	8.52	8.57	8.36

Sato, Hiroyuki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2012 Japanese National Championships (Osaka, JPN)			<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	09-Jun-12	time	2.61	3.68	4.73	5.80	6.84	7.92	8.99	10.08	11.19	12.31		13.78	7 / 1			
reaction time		interval		1.07	1.05	1.07	1.04	1.08	1.07	1.09	1.11	1.12	1.47			3.19	3.19	3.32
wind	-0.2 m/s	velocity	5.26	8.54	8.70	8.54	8.79	8.46	8.54	8.39	8.23	8.16	9.54	7.98		8.60	8.60	8.26

Sato, Hiroyuki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2012 Japanese National Championships (Osaka, JPN)			<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	10-Jun-12	time	2.60	3.68	4.74	5.80	6.85	7.91	9.00	10.08	11.20	12.32		13.78	6 / 2			
reaction time		interval		1.08	1.06	1.06	1.05	1.06	1.09	1.08	1.12	1.12	1.46			3.20	3.20	3.32
wind	0.5 m/s	velocity	5.28	8.46	8.62	8.62	8.70	8.62	8.39	8.46	8.16	8.16	9.60	7.98		8.57	8.57	8.26

Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)			<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>															
date	29-Apr-16	time	2.69	3.78	4.84	5.89	6.94	8.00	9.06	10.13	11.22	12.33		13.78	1 / 1			
reaction time		interval		1.09	1.06	1.05	1.05	1.06	1.06	1.07	1.09	1.11	1.45			3.20	3.17	3.27
wind	-0.5 m/s	velocity	5.10	8.39	8.62	8.70	8.70	8.62	8.54	8.39	8.23	8.23	9.67	7.98		8.57	8.65	8.39

Sato, Hiroyuki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Mito Invitational (Mito, JPN)			<i>(2016.05.27) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en</i>															
date	05-May-16	time	2.58	3.67	4.73	5.79	6.87	7.94	9.02	10.12	11.23	12.35		13.78	5 / 1			
reaction time		interval		1.09	1.06	1.06	1.08	1.07	1.08	1.10	1.11	1.12	1.43			3.21	3.23	3.33
wind	0.7 m/s	velocity	5.32	8.39	8.62	8.62	8.46	8.54	8.46	8.31	8.23	8.16	9.80	7.98		8.54	8.49	8.23

Kagimoto, Masahiro (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Japanese National Championships (Nagoya, JPN)			<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>															
date	26-Jun-16	time	2.64	3.74	4.81	5.89	6.97	8.02	9.11	10.18	11.25	12.36		13.78	1 / 6			
reaction time	0.146	interval		1.10	1.07	1.08	1.08	1.05	1.09	1.07	1.07	1.11	1.42			3.25	3.22	3.25
wind	2.4 m/s	velocity	5.20	8.31	8.54	8.46	8.46	8.70	8.39	8.54	8.54	8.23	9.87	7.98		8.44	8.52	8.44

Wado, Tatsuya (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2017 Fuse Sprint (Tottori, JPN)			<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>															
date	04-Jun-17	time	2.59	3.68	4.73	5.79	6.85	7.91	8.98	10.05	11.15	12.26		13.78	8 / 6			
reaction time		interval		1.09	1.05	1.06	1.06	1.06	1.07	1.07	1.10	1.11	1.52			3.20	3.19	3.28
wind	1.5 m/s	velocity	5.30	8.39	8.70	8.62	8.62	8.54	8.54	8.31	8.23	8.23	9.22	7.98		8.57	8.60	8.36

Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2017 Japanese National Championships (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>															
date	24-Jun-17	time	2.58	3.67	4.74	5.81	6.87	7.94	9.02	10.11	11.22	12.32		13.78	5 / 4			
reaction time	0.124	interval	7 steps	1.09	1.07	1.07	1.06	1.07	1.08	1.09	1.11	1.10	1.46			3.23	3.21	3.30
wind	0.3 m/s	velocity	5.32	8.39	8.54	8.54	8.62	8.54	8.46	8.39	8.23	8.31	9.60	7.98		8.49	8.54	8.31

Jiang Fan (CHN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Chinese National Games (Tianjin, CHN)			<i>Henson (2017) - coaching observations</i>															
date	03-Sep-17	time	2.65	3.72	4.79	5.84	6.89	7.94	9.02	10.11	11.20	12.31		13.78	2 / 2			
reaction time		interval		1.07	1.07	1.05	1.05	1.05	1.08	1.09	1.09	1.11	1.47			3.19	3.18	3.29
wind	0.3 m/s	velocity	5.18	8.54	8.54	8.70	8.70	8.70	8.46	8.39	8.39	8.23	9.54	7.98		8.60	8.62	8.33

Zhang Honglin (CHN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Chinese National Games (Tianjin, CHN)			<i>Henson (2017) - coaching observations</i>															
date	03-Sep-17	time	2.67	3.75	4.82	5.87	6.94	7.99	9.09	10.16	11.26	12.36		13.78	4 / 3			
reaction time		interval		1.08	1.07	1.05	1.07	1.05	1.10	1.07	1.10	1.10	1.42			3.20	3.22	3.27
wind	0.3 m/s	velocity	5.14	8.46	8.54	8.70	8.54	8.70	8.31	8.54	8.31	8.31	9.87	7.98		8.57	8.52	8.39

Wei Pinyang (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Chinese National U18 Championships (Jinzhou, CHN) (2018.05.17)			<i>Zhang (2019) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups</i>															
date	17-May-18	time	2.69	3.76	4.82	5.86	6.90	7.94	8.99	10.05	11.13	12.23		13.78	7 / ??			
reaction time		interval		1.07	1.06	1.04	1.04	1.04	1.05	1.06	1.08	1.10	1.55			3.17	3.13	3.24
wind	??	velocity	5.10	8.54	8.62	8.79	8.79	8.79	8.70	8.62	8.46	8.31	9.05	7.98		8.65	8.76	8.46

Wang Yuyan (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Chinese National U18 Championships (Jinzhou, CHN) (2018.05.17)			<i>Zhang (2019) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups</i>															
date	17-May-18	time	2.58	3.68	4.75	5.79	6.82	7.89	8.96	10.06	11.13	12.25		13.78	2 / ??			
reaction time		interval		1.10	1.07	1.04	1.03	1.07	1.07	1.10	1.07	1.12	1.53			3.21	3.17	3.29
wind	??	velocity	5.32	8.31	8.54	8.79	8.87	8.54	8.54	8.31	8.54	8.16	9.16	7.98		8.54	8.65	8.33

Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)			<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>															
date	28-Apr-19	time	2.64	3.73	4.79	5.83	6.89	7.95	9.04	10.12	11.23	12.35		13.78	2 / 3			
reaction time		interval		1.09	1.06	1.04	1.06	1.06	1.09	1.08	1.11	1.12	1.43			3.19	3.21	3.31

wind	0.6 m/s	velocity	5.20	8.39	8.62	8.79	8.62	8.62	8.39	8.46	8.23	8.16	9.80	7.98		8.60	8.54	8.28
Fujii, Ryota (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Fuse Sprint (Tottori, JPN)			<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>															
date	02-Jun-19	time	2.60	3.68	4.74	5.81	6.87	7.95	9.02	10.11	11.21	12.31		13.78	8 / 5			
reaction time	0.146	interval		1.08	1.06	1.07	1.06	1.08	1.07	1.09	1.10	1.10	1.47	PB		3.21	3.21	3.29
wind	1.9 m/s	velocity	5.28	8.46	8.62	8.54	8.62	8.46	8.54	8.39	8.31	8.31	9.54	7.98		8.54	8.54	8.33
Fujii, Ryota (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 2 - 2020 World Athletics Trials (Fuji, JPN)			<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>															
date	06-Sep-20	time	2.60	3.67	4.73	5.78	6.83	7.89	8.95	10.03	11.15	12.26		13.78	4 / 2			
reaction time		interval		1.07	1.06	1.05	1.05	1.06	1.06	1.08	1.12	1.11	1.52			3.18	3.17	3.31
wind	1.3 m/s	velocity	5.28	8.54	8.62	8.70	8.70	8.62	8.62	8.46	8.16	8.23	9.22	7.98		8.62	8.65	8.28
Fujii, Ryota (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)			<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>															
date	20-Sep-20	time	2.60	3.68	4.73	5.79	6.83	7.90	8.98	10.06	11.16	12.28		13.78	7 / 3			
reaction time	0.151	interval		1.08	1.05	1.06	1.04	1.07	1.08	1.08	1.10	1.12	1.50			3.19	3.19	3.30
wind	0.1 m/s	velocity	5.28	8.46	8.70	8.62	8.79	8.54	8.46	8.46	8.31	8.16	9.35	7.98		8.60	8.60	8.31
Zhu Shenglong (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	19-May-21	time	2.63	3.70	4.75	5.79	6.84	7.92	8.97	10.09	11.18	12.28		13.78	6 / 2			
reaction time	0.169	interval		1.07	1.05	1.04	1.05	1.08	1.05	1.12	1.09	1.10	1.50	PB		3.16	3.18	3.31
wind	1.9 m/s	velocity	5.22	8.54	8.70	8.79	8.70	8.46	8.70	8.16	8.39	8.31	9.35	7.98		8.68	8.62	8.28
Rodrigues, Eduardo (BRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>															
date	03-Aug-21	time	2.78	3.86	4.90	5.90	6.94	7.96	9.01	10.06	11.20	12.30		13.78	9 / 8			
reaction time	0.163	interval		1.08	1.04	1.00	1.04	1.02	1.05	1.05	1.14	1.10	1.48			3.12	3.11	3.29
wind	-0.1 m/s	velocity	4.94	8.46	8.79	9.14	8.79	8.96	8.70	8.70	8.02	8.31	9.47	7.98		8.79	8.82	8.33
LePage, Pierce (CAN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>															
date	24-Jul-22	time	2.66	3.76	4.82	5.86	6.92	8.00	9.05	10.15	11.22	12.35		13.78	5 / 1			
reaction time	0.154	interval	7 steps	1.10	1.06	1.04	1.06	1.08	1.05	1.10	1.07	1.13	1.43	PB		3.20	3.19	3.30
wind	1.1 m/s	velocity	5.16	8.31	8.62	8.79	8.62	8.46	8.70	8.31	8.54	8.09	9.80	7.98		8.57	8.60	8.31
Koster, Timme (NED) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>															
date	04-Jun-23	time	2.73	3.83	4.93	5.97	7.00	8.06	9.13	10.20	11.27	12.36		13.78	1 / 8			
reaction time	0.157	interval		1.10	1.10	1.04	1.03	1.06	1.07	1.07	1.07	1.09	1.42			3.24	3.16	3.23
wind	0.4 m/s	velocity	5.03	8.31	8.31	8.79	8.87	8.62	8.54	8.54	8.54	8.39	9.87	7.98		8.46	8.68	8.49
Kudo, Haruto (JPN) (2005)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National U20 Championships (Niigata, JPN) (99.1cm)			<i>Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season</i>															
date	30-Jun-24	time	2.64	3.73	4.78	5.83	6.87	7.94	9.00	10.08	11.18	12.27		13.78	9 / 8			
reaction time	0.152	interval	7 steps	1.09	1.05	1.05	1.04	1.07	1.06	1.08	1.10	1.09	1.51			3.19	3.17	3.27
wind	0.1 m/s	velocity	5.20	8.39	8.70	8.70	8.79	8.54	8.62	8.46	8.31	8.39	9.28	7.98		8.60	8.65	8.39
Joseph, Jason (SUI) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Athletissima (Lausanne, SUI)			<i>Omega Timing (2024) - diamond league race analysis</i>															
date	22-Aug-24	time	2.48	3.56	4.60	5.59	6.61	7.64	8.69	9.76	10.86	11.97		13.78	2 / 8			
reaction time	0.148	interval	7 steps	1.08	1.04	0.99	1.02	1.03	1.05	1.07	1.10	1.11	1.81			3.11	3.10	3.28
wind	-0.1 m/s	velocity	5.53	8.46	8.79	9.23	8.96	8.87	8.70	8.54	8.31	8.23	7.75	7.98		8.82	8.85	8.36
Vivancos, Felipe (ESP) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 IAAF World Cup (Madrid, ESP)			<i>Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas</i>															
date	21-Sep-02	time	2.53	3.61	4.65	5.69	6.74	7.81	8.90	9.99	11.08	12.18		13.79	7 / 5			
reaction time	0.124	interval		1.08	1.04	1.04	1.05	1.07	1.09	1.09	1.09	1.10	1.61			3.16	3.21	3.28
wind	-2.2 m/s	velocity	5.42	8.46	8.79	8.79	8.70	8.54	8.39	8.39	8.39	8.31	8.71	7.98		8.68	8.54	8.36
Schwarthoff, Florian (GER) (1968)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 IAAF World Cup (Madrid, ESP)			<i>Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas</i>															
date	21-Sep-02	time	2.59	3.65	4.70	5.72	6.77	7.83	8.93	10.02	11.10	12.20		13.79	4 / 6			
reaction time	0.176	interval	7 steps	1.06	1.05	1.02	1.05	1.06	1.10	1.09	1.08	1.10	1.59			3.13	3.21	3.27
wind	-2.2 m/s	velocity	5.30	8.62	8.70	8.96	8.70	8.62	8.31	8.39	8.46	8.31	8.82	7.98		8.76	8.54	8.39
Reed, Darius (USA) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm)			<i>USATF Men's Hurdle Development (2007)</i>															
date	21-Jun-07	time	2.65	3.72	4.75	5.77	6.81	7.86	8.93	9.98	11.09	12.21		13.79	/ 6			
reaction time		interval		1.07	1.03	1.02	1.04	1.05	1.07	1.05	1.11	1.12	1.58			3.12	3.16	3.28
wind	2.7 m/s	velocity	5.18	8.54	8.87	8.96	8.79	8.70	8.54	8.70	8.23	8.16	8.87	7.98		8.79	8.68	8.36

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Odom, Marlon (USA) (1982)																	
Semi-Final 2 - 2007 USATF National Championships (Indianapolis, IN)																	
date	24-Jun-07	time	2.70	3.75	4.82	5.89	6.92	7.96	9.03	10.11	11.21	12.31	13.79	8 / 8			
reaction time		interval		1.05	1.07	1.07	1.03	1.04	1.07	1.08	1.10	1.10	1.48		3.19	3.14	3.28
wind	-0.9 m/s	velocity	5.08	8.70	8.54	8.54	8.87	8.79	8.54	8.46	8.31	8.31	9.47	7.98	8.60	8.73	8.36
Irie, Yukito (JPN) (1983)																	
FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)																	
date	29-Apr-09	time	2.63	3.72	4.75	5.83	6.91	7.96	9.05	10.14	11.25	12.37	13.79	/ 6			
reaction time		interval		1.09	1.03	1.08	1.08	1.05	1.09	1.09	1.11	1.12	1.42	PB	3.20	3.22	3.32
wind	1.9 m/s	velocity	5.22	8.39	8.87	8.46	8.46	8.70	8.39	8.39	8.23	8.16	9.87	7.98	8.57	8.52	8.26
Naito, Masato (JPN) (1980)																	
Semi-Final 1 - 2009 Japanese National Championships (Hiroshima, JPN)																	
date	27-Jun-09	time	2.50	3.59	4.65	5.69	6.74	7.80	8.86	9.93	11.02	12.14	13.79	6 / 1			
reaction time		interval		1.09	1.06	1.04	1.05	1.06	1.06	1.07	1.09	1.12	1.65		3.19	3.17	3.28
wind	0.5 m/s	velocity	5.49	8.39	8.62	8.79	8.70	8.62	8.62	8.54	8.39	8.16	8.50	7.98	8.60	8.65	8.36
Nossmly, Philip (SWE) (1982)																	
FINAL - 2010 European Team Championships, 1st League (Budapest, HUN)																	
date	20-Jun-10	time	2.51	3.58	4.67	5.71	6.76	7.84	8.89	9.98	11.04	12.16	13.79	4 / 3			
reaction time	0.190	interval		1.07	1.09	1.04	1.05	1.08	1.05	1.09	1.06	1.12	1.63		3.20	3.18	3.27
wind	1.1 m/s	velocity	5.47	8.54	8.39	8.79	8.70	8.46	8.70	8.39	8.62	8.16	8.60	7.98	8.57	8.62	8.39
Porter, Jeff (USA) (1985)																	
FINAL - 2010 Windsprint (Sundsvall, SWE)																	
date	08-Aug-10	time	2.63	3.71	4.76	5.85	6.91	8.00	9.08	10.14	11.23	12.32	13.79	/ 3			
reaction time		interval		1.08	1.05	1.09	1.06	1.09	1.08	1.06	1.09	1.09	1.47		3.22	3.23	3.24
wind	1.1 m/s	velocity	5.22	8.46	8.70	8.39	8.62	8.39	8.46	8.62	8.39	8.39	9.54	7.98	8.52	8.49	8.46
Yazawa, Wataru (JPN) (1991)																	
FINAL - 2011 Mikio Oda Memorial (Hiroshima, JPN)																	
date	29-Apr-11	time	2.62	3.71	4.78	5.84	6.90	7.96	9.04	10.14	11.25	12.36	13.79	/ 6			
reaction time		interval		1.09	1.07	1.06	1.06	1.06	1.08	1.10	1.11	1.11	1.43		3.22	3.20	3.32
wind	2.4 m/s	velocity	5.24	8.39	8.54	8.62	8.62	8.62	8.46	8.31	8.23	8.23	9.80	7.98	8.52	8.57	8.26
Mita, Kyohei (JPN) (1991)																	
Semi-Final 1 - 2012 Japanese National Championships (Osaka, JPN)																	
date	10-Jun-12	time	2.68	3.78	4.87	5.95	7.01	8.09	9.16	10.23	11.31	12.38	13.79	3 / 4			
reaction time		interval		1.10	1.09	1.08	1.06	1.08	1.07	1.07	1.08	1.07	1.41		3.27	3.21	3.22
wind	2.4 m/s	velocity	5.12	8.31	8.39	8.46	8.62	8.46	8.54	8.54	8.46	8.54	9.94	7.98	8.39	8.54	8.52
Zhang Honglin (CHN) (1994)																	
FINAL - 2016 Shanghai Golden Grand Prix (Shanghai, CHN)																	
date	14-May-16	time	2.54	3.60	4.64	5.68	6.74	7.82	8.90	10.02	11.10	12.22	13.79	1 / 7			
reaction time	0.142	interval		1.06	1.04	1.04	1.06	1.08	1.08	1.12	1.08	1.12	1.57		3.14	3.22	3.32
wind	1.2 m/s	velocity	5.40	8.62	8.79	8.79	8.62	8.46	8.46	8.16	8.46	8.16	8.93	7.98	8.73	8.52	8.26
Yang Wei-Ting (TPE) (1994)																	
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)																	
date	21-May-17	time	2.67	3.75	4.83	5.89	6.94	7.99	9.06	10.13	11.20	12.31	13.79	8 / 8			
reaction time	0.145	interval		1.08	1.08	1.06	1.05	1.05	1.07	1.07	1.07	1.11	1.48		3.22	3.17	3.25
wind	-1.8 m/s	velocity	5.14	8.46	8.46	8.62	8.70	8.70	8.54	8.54	8.54	8.23	9.47	7.98	8.52	8.65	8.44
Sato, Hiroyuki (JPN) (1990)																	
FINAL - 2017 Fuse Sprint (Tottori, JPN)																	
date	04-Jun-17	time	2.59	3.66	4.75	5.83	6.89	7.97	9.04	10.14	11.24	12.35	13.79	7 / 5			
reaction time		interval		1.07	1.09	1.08	1.06	1.08	1.07	1.10	1.10	1.11	1.44		3.24	3.21	3.31
wind	3.2 m/s	velocity	5.30	8.54	8.39	8.46	8.62	8.46	8.54	8.31	8.31	8.23	9.74	7.98	8.46	8.54	8.28
Masuno, Genta (JPN) (1993)																	
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)																	
date	06-Aug-17	time	2.46	3.51	4.57	5.63	6.71	7.78	8.87	9.94	11.05	12.17	13.79	2 / 7			
reaction time	0.160	interval		1.05	1.06	1.06	1.08	1.07	1.09	1.07	1.11	1.12	1.62		3.17	3.24	3.30
wind	0.2 m/s	velocity	5.58	8.70	8.62	8.62	8.46	8.54	8.39	8.54	8.23	8.16	8.65	7.98	8.65	8.46	8.31
Bühler, Matthias (GER) (1986)																	
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)																	
date	06-Aug-17	time	2.48	3.57	4.64	5.71	6.77	7.82	8.87	9.93	11.00	12.11	13.79	2 / 8			
reaction time	0.158	interval		1.09	1.07	1.07	1.06	1.05	1.05	1.06	1.07	1.11	1.68		3.23	3.16	3.24
wind	0.6 m/s	velocity	5.53	8.39	8.54	8.54	8.62	8.70	8.70	8.62	8.54	8.23	8.35	7.98	8.49	8.68	8.46

Yi Yulong (CHN) (2001)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Chinese National U18 Championships (Jinzhou, CHN) (99cm) <i>Zhang (2019) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups</i>																	
date	17-May-18	time	2.67	3.77	4.84	5.90	6.98	8.03	9.09	10.17	11.23	12.33	13.79	6 / 4			
reaction time		interval		1.10	1.07	1.06	1.08	1.05	1.06	1.08	1.06	1.10	1.46		3.23	3.19	3.24
wind	??	velocity	5.14	8.31	8.54	8.62	8.46	8.70	8.62	8.46	8.62	8.31	9.60	7.98	8.49	8.60	8.46

Soga, Kentaro (JPN) (2001)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm) <i>Joshi (2018) - research on athlete performance and technique- 2018 data book</i>																	
date	07-Oct-18	time	2.69	3.78	4.85	5.92	6.96	8.04	9.09	10.14	11.25	12.34	13.79	2 / 6			
reaction time	0.178	interval		1.09	1.07	1.07	1.04	1.08	1.05	1.05	1.11	1.09	1.45		3.23	3.17	3.25
wind	1.5 m/s	velocity	5.10	8.39	8.54	8.54	8.79	8.46	8.70	8.70	8.23	8.39	9.67	7.98	8.49	8.65	8.44

Wado, Tatsuya (JPN) (1990)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Kinami Memorial (Osaka, JPN) <i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	06-May-19	time	2.60	3.67	4.73	5.78	6.84	7.90	8.99	10.08	11.17	12.32	13.79	5 / 5			
reaction time		interval		7 steps	1.07	1.06	1.05	1.06	1.09	1.09	1.09	1.15	1.47		3.18	3.21	3.33
wind	0.3 m/s	velocity	5.28	8.54	8.62	8.70	8.62	8.62	8.39	8.39	8.39	7.95	9.54	7.98	8.62	8.54	8.23

Ono, Kazuto (JPN) (2001)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (99cm) <i>Enomoto (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	06-Oct-19	time	2.68	3.76	4.84	5.91	6.97	8.03	9.10	10.16	11.24	12.32	13.79	3 / 7			
reaction time	0.157	interval		1.08	1.08	1.07	1.06	1.06	1.07	1.06	1.08	1.08	1.47		3.23	3.19	3.22
wind	2.7 m/s	velocity	5.12	8.46	8.46	8.54	8.62	8.62	8.54	8.62	8.46	8.46	9.54	7.98	8.49	8.60	8.52

Sugaya, Takumi (JPN) (2001)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (99cm) <i>Enomoto (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	06-Oct-19	time	2.68	3.76	4.82	5.88	6.93	7.98	9.04	10.13	11.20	12.28	13.79	8 / 8			
reaction time	0.150	interval		1.08	1.06	1.06	1.05	1.05	1.06	1.09	1.07	1.08	1.51		3.20	3.16	3.24
wind	2.7 m/s	velocity	5.12	8.46	8.62	8.62	8.70	8.70	8.62	8.39	8.54	8.46	9.28	7.98	8.57	8.68	8.46

Furuya, Shinta (JPN) (2000)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (99cm) <i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	18-Oct-19	time	2.60	3.69	4.75	5.79	6.85	7.91	8.99	10.06	11.17	12.28	13.79	7 / 3			
reaction time	0.122	interval		1.09	1.06	1.04	1.06	1.06	1.08	1.07	1.11	1.11	1.51		3.19	3.20	3.29
wind	-0.6 m/s	velocity	5.28	8.39	8.62	8.79	8.62	8.62	8.46	8.54	8.23	8.23	9.28	7.98	8.60	8.57	8.33

Lakka, Elmo (FIN) (1993)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis) <i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																	
date	11-Aug-20	time	2.62	3.70	4.77	5.84	6.87	7.91	9.01	10.08	11.18	12.28	13.79	4 / 5			
reaction time	0.186	interval		1.08	1.07	1.07	1.03	1.04	1.10	1.07	1.10	1.10	1.51		3.22	3.17	3.27
wind	1.1 m/s	velocity	5.24	8.46	8.54	8.54	8.87	8.79	8.31	8.54	8.31	8.31	9.28	7.98	8.52	8.65	8.39

Kuriki, Anthony Tyrell (JPN) (1996)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN) <i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>																	
date	23-Aug-20	time	2.63	3.72	4.79	5.85	6.91	7.97	9.05	10.13	11.21	12.31	13.79	3 / 4			
reaction time	0.108	interval		7 steps	1.09	1.07	1.06	1.06	1.08	1.08	1.08	1.10	1.48		3.22	3.20	3.26
wind	-0.4 m/s	velocity	5.22	8.39	8.54	8.62	8.62	8.62	8.46	8.46	8.46	8.31	9.47	7.98	8.52	8.57	8.41

Fujii, Ryota (JPN) (1996)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN) <i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>																	
date	23-Aug-20	time	2.60	3.67	4.73	5.77	6.82	7.88	8.97	10.08	11.19	12.31	13.79	9 / 5			
reaction time	0.144	interval		1.07	1.06	1.04	1.05	1.06	1.09	1.11	1.11	1.12	1.48		3.17	3.20	3.34
wind	-0.4 m/s	velocity	5.28	8.54	8.62	8.79	8.70	8.62	8.39	8.23	8.23	8.16	9.47	7.98	8.65	8.57	8.21

Zhang Honglin (CHN) (1994)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN) <i>CAA Hurdle Development (2020)</i>																	
date	16-Sep-20	time	2.63	3.73	4.78	5.84	6.90	7.96	9.04	10.12	11.22	12.35	13.79	8 / 3			
reaction time	0.167	interval		1.10	1.05	1.06	1.06	1.06	1.08	1.08	1.10	1.13	1.44		3.21	3.20	3.31
wind	0.3 m/s	velocity	5.22	8.31	8.70	8.62	8.62	8.62	8.46	8.46	8.31	8.09	9.74	7.98	8.54	8.57	8.28

Fujii, Ryota (JPN) (1996)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Fuse Sprint (Tottori, JPN) <i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>																	
date	06-Jun-21	time	2.62	3.71	4.76	5.81	6.90	7.96	9.02	10.13	11.21	12.31	13.79	9 / 6			
reaction time	0.152	interval		1.09	1.05	1.05	1.09	1.06	1.06	1.11	1.08	1.10	1.48		3.19	3.21	3.29
wind	1.8 m/s	velocity	5.24	8.39	8.70	8.70	8.39	8.62	8.62	8.23	8.46	8.31	9.47	7.98	8.60	8.54	8.33

Porter, Jeff (USA) (1985)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2007 USATF National Championships (Indianapolis, IN) <i>USATF Men's Hurdle Development (2007)</i>																	
date	23-Jun-07	time	2.62	3.67	4.77	5.84	6.91	7.95	9.04	10.11	11.21	12.27	13.80	5 / 7			
reaction time		interval		1.05	1.10	1.07	1.07	1.04	1.09	1.07	1.10	1.06	1.53		3.22	3.20	3.23
wind	0.1 m/s	velocity	5.24	8.70	8.31	8.54	8.54	8.79	8.39	8.54	8.31	8.62	9.16	7.97	8.52	8.57	8.49

Aoki, Yuto (JPN) (1984)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)

date	29-Apr-09	time	2.65	3.74	4.81	5.84	6.92	7.98	9.07	10.16	11.28	12.37	13.80	/ 7				
reaction time		interval		1.09	1.07	1.03	1.08	1.06	1.09	1.09	1.12	1.09	1.43		3.19	3.23	3.30	
wind	1.9 m/s	velocity	5.18	8.39	8.54	8.87	8.46	8.62	8.39	8.39	8.16	8.39	9.80	7.97	8.60	8.49	8.31	

*Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles***Baji, Balázs (HUN) (1989)****H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2011 Folksam GP (Göteborg, SWE)***Blomkvist (2011) - www.sub13.se*

date	11-Jun-11	time	2.53	3.64	4.72	5.78	6.84	7.88	8.96	10.04	11.12	12.20	13.80	/ 5			
reaction time		interval		1.11	1.08	1.06	1.06	1.04	1.08	1.08	1.08	1.08	1.60		3.25	3.18	3.24
wind	0.6 m/s	velocity	5.42	8.23	8.46	8.62	8.62	8.79	8.46	8.46	8.46	8.46	8.76	7.97	8.44	8.62	8.46

Masuno, Genta (JPN) (1993)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)***Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	03-May-15	time	2.63	3.71	4.78	5.87	6.93	8.04	9.12	10.21	11.30	12.39	13.80	/ 1			
reaction time		interval		1.08	1.07	1.09	1.06	1.11	1.08	1.09	1.09	1.09	1.41		3.24	3.25	3.27
wind	-0.8 m/s	velocity	5.22	8.46	8.54	8.39	8.62	8.23	8.46	8.39	8.39	8.39	9.94	7.97	8.46	8.44	8.39

Nomoto, Syuusei (JPN) (1995)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2017 Tokyo Six School Meeting (Tokyo, JPN)***(2017) - tfdata-store.com/2017/04/10/post-342/*

date	08-Apr-17	time	2.60	3.70	4.76	5.86	6.94	8.02	9.10	10.18	11.28	12.39	13.80	4 / 3			
reaction time		interval	7 steps	1.10	1.06	1.10	1.08	1.08	1.08	1.08	1.10	1.11	1.41	PB	3.26	3.24	3.29
wind	0.5 m/s	velocity	5.28	8.31	8.62	8.31	8.46	8.46	8.46	8.31	8.23	9.94	7.97		8.41	8.46	8.33

Kuriki, Anthony Tyrell (JPN) (1996)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2017 Japanese National Championships (Osaka, JPN)***(2017) - tfdata-store.com/2017/07/13/post-1040/*

date	25-Jun-17	time	2.67	3.74	4.81	5.86	6.93	8.00	9.07	10.16	11.25	12.36	13.80	2 / 6			
reaction time	0.126	interval	7 steps	1.07	1.07	1.05	1.07	1.07	1.07	1.09	1.09	1.11	1.44		3.19	3.21	3.29
wind	-0.2 m/s	velocity	5.14	8.54	8.54	8.70	8.54	8.54	8.54	8.39	8.39	8.23	9.74	7.97	8.60	8.54	8.33

Ishikawa, Shuhei (JPN) (1995)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2017 Japanese National Championships (Osaka, JPN)***(2017) - tfdata-store.com/2017/07/13/post-1040/*

date	25-Jun-17	time	2.59	3.66	4.72	5.78	6.85	7.93	9.01	10.10	11.19	12.32	13.80	3 / 7			
reaction time	0.136	interval	7 steps	1.07	1.06	1.06	1.07	1.08	1.08	1.09	1.09	1.13	1.48		3.19	3.23	3.31
wind	-0.2 m/s	velocity	5.30	8.54	8.62	8.62	8.54	8.46	8.46	8.39	8.39	8.09	9.47	7.97	8.60	8.49	8.28

Ogata, Akihiro (JPN) (1993)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)***Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season*

date	24-Jun-18	time	2.62	3.69	4.75	5.78	6.86	7.85	9.03	10.11	11.20	12.32	13.80	9 / 5			
reaction time	0.183	interval	7 steps	1.07	1.06	1.03	1.08	0.99	1.18	1.08	1.09	1.12	1.48		3.16	3.25	3.29
wind	0.7 m/s	velocity	5.24	8.54	8.62	8.87	8.46	9.23	7.75	8.46	8.39	8.16	9.47	7.97	8.68	8.44	8.33

Hiraga, Kentaro (JPN) (1999)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 3 - 2018 IAAF World Junior Championships (Tampere, FIN) (99cm)***Koyama (2018) - research on athlete performance and technique- 2018 data book*

date	11-Jul-18	time	2.63	3.72	4.80	5.86	6.92	8.02	9.10	10.19	11.29	12.38	13.80	5 / 4			
reaction time	0.147	interval		1.09	1.08	1.06	1.06	1.10	1.08	1.09	1.10	1.09	1.42		3.23	3.24	3.28
wind	0.7 m/s	velocity	5.22	8.39	8.46	8.62	8.62	8.31	8.46	8.39	8.31	8.39	9.87	7.97	8.49	8.46	8.36

Parakhonka, Vitali (BLR) (1993)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)***Henson (2020) - Athlete First: 2019 year end hurdle report*

date	10-Sep-19	time	2.63	3.73	4.78	5.80	6.83	7.92	8.96	10.10	11.16	12.28	13.80	9 / 6			
reaction time	0.162	interval		1.10	1.05	1.02	1.03	1.09	1.04	1.14	1.06	1.12	1.52		3.17	3.16	3.32
wind	0.1 m/s	velocity	5.22	8.31	8.70	8.96	8.87	8.39	8.79	8.02	8.62	8.16	9.22	7.97	8.65	8.68	8.26

Omuro, Hideki (JPN) (1990)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2021 Fuse Sprint (Tottori, JPN)***Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season*

date	06-Jun-21	time	2.60	3.68	4.74	5.81	6.87	7.95	9.02	10.10	11.19	12.30	13.80	2 / 7			
reaction time	0.150	interval		1.08	1.06	1.07	1.06	1.08	1.07	1.08	1.09	1.11	1.50		3.21	3.21	3.28
wind	1.8 m/s	velocity	5.28	8.46	8.62	8.54	8.62	8.46	8.54	8.46	8.39	8.23	9.35	7.97	8.54	8.54	8.36

Shabanov, Georgiy (URS) (1960)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 1981 USSR vs. USA (Leningrad, URS)***Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies*

date	10-Jul-81	time	2.50	3.61	4.66	5.69	6.74	7.80	8.90	10.06	11.24	12.49	13.81	/ 4			
reaction time		interval		1.11	1.05	1.03	1.05	1.06	1.10	1.16	1.18	1.25	1.32		3.19	3.21	3.59
wind	2.8 m/s	velocity	5.49	8.23	8.70	8.87	8.70	8.62	8.31	7.88	7.75	7.31	10.62	7.97	8.60	8.54	7.64

Mitchum, Eric (USA) (1984)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)***USATF Women's Sprint Development (2003)*

date	22-Jun-03	time	2.58	3.67	4.76	5.82	6.87	7.92	8.99	10.06	11.16	12.28	13.81	7 / 3			
reaction time		interval		1.09	1.09	1.06	1.05	1.05	1.07	1.07	1.10	1.12	1.53		3.24	3.17	3.29
wind	-0.4 m/s	velocity	5.32	8.39	8.39	8.62	8.70	8.70	8.54	8.54	8.31	8.16	9.16	7.97	8.46	8.65	8.33

Bramlett, Ron (USA) (1979)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 3 - 2007 USATF National Championships (Indianapolis, IN)***USATF Men's Hurdle Development (2007)*

date	22-Jun-07	time	2.58	3.67	4.76	5.82	6.87	7.92	8.99	10.06	11.16	12.28	13.81	7 / 3			
reaction time		interval		1.09	1.09	1.06	1.05	1.05	1.07	1.07	1.10	1.12	1.53		3.24	3.17	3.29
wind	-0.4 m/s	velocity	5.32	8.39	8.39	8.62	8.70	8.70	8.54	8.54	8.31	8.16	9.16	7.97	8.46	8.65	8.33

WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified DV=Drug Violation

date	23-Jun-07	time	2.62	3.67	4.75	5.84	6.89	7.97	9.05	10.13	11.21	12.31		13.81	2 / 3			
reaction time		interval		1.05	1.08	1.09	1.05	1.08	1.08	1.08	1.08	1.10	1.50			3.22	3.21	3.26
wind	-3.2 m/s	velocity	5.24	8.70	8.46	8.39	8.70	8.46	8.46	8.46	8.46	8.31	9.35	7.97		8.52	8.54	8.41
hashi, Yuji (JPN) (1983)																		
Heat 1 - 2008 Mikio Oda Memorial (Hiroshima, JPN)																		
Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles																		
date	29-Apr-08	time	2.48	3.57	4.62	5.67	6.72	7.76	8.85	9.95	11.04	12.14		13.81	1 / 2			
reaction time		interval		1.09	1.05	1.05	1.05	1.04	1.09	1.10	1.09	1.10	1.67			3.19	3.18	3.29
wind	0.1 m/s	velocity	5.53	8.39	8.70	8.70	8.70	8.79	8.39	8.31	8.39	8.31	8.40	7.97		8.60	8.62	8.33
Brown, Joel (USA) (1980)																		
FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)																		
Graubner (2009) - http://www.fgs.uni-halle.de																		
date	14-Sep-08	time	2.66	3.75	4.83	5.88	6.94	8.02	9.11	10.02	11.29	12.38		13.81	7 / 8			
reaction time	0.139	interval		1.09	1.08	1.05	1.06	1.08	1.09	0.91	1.27	1.09	1.43			3.22	3.23	3.27
wind	-1.3 m/s	velocity	5.16	8.39	8.46	8.70	8.62	8.46	8.39	10.07	7.19	8.39	9.80	7.97		8.52	8.49	8.39
Naito, Masato (JPN) (1980)																		
FINAL - 2009 Japanese National Championships (Hiroshima, JPN)																		
Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles																		
date	27-Jun-09	time	2.61	3.71	4.76	5.81	6.86	7.92	8.99	10.08	11.17	12.27		13.81	5 / 3			
reaction time		interval		1.10	1.05	1.05	1.05	1.06	1.07	1.09	1.09	1.10	1.54			3.20	3.18	3.28
wind	1.6 m/s	velocity	5.26	8.31	8.70	8.70	8.70	8.62	8.54	8.39	8.39	8.31	9.10	7.97		8.57	8.62	8.36
hashi, Yuji (JPN) (1983)																		
FINAL - 2009 Japanese National Championships (Hiroshima, JPN)																		
Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles																		
date	27-Jun-09	time	2.66	3.73	4.76	5.81	6.86	7.90	8.99	10.07	11.17	12.28		13.81	7 / 3			
reaction time		interval		1.07	1.03	1.05	1.05	1.04	1.09	1.08	1.10	1.11	1.53			3.15	3.18	3.29
wind	1.6 m/s	velocity	5.16	8.54	8.87	8.70	8.70	8.79	8.39	8.46	8.31	8.23	9.16	7.97		8.70	8.62	8.33
Takayama, Shunya (JPN) (1994)																		
FINAL - 2015 Japanese National Championships (Niigata, JPN)																		
Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions																		
date	28-Jun-15	time	2.58	3.64	4.69	5.76	6.84	7.91	8.98	10.08	11.18	12.30		13.81	4 / 1			
reaction time	0.135	interval		1.06	1.05	1.07	1.08	1.07	1.07	1.10	1.10	1.12	1.51			3.18	3.22	3.32
wind	-1.4 m/s	velocity	5.32	8.62	8.70	8.54	8.46	8.54	8.54	8.31	8.31	8.16	9.28	7.97		8.62	8.52	8.26
Furuya, Takumu (JPN) (1997)																		
FINAL - 2015 Japanese National Championships (Niigata, JPN)																		
Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions																		
date	28-Jun-15	time	2.62	3.72	4.79	5.86	6.92	7.98	9.07	10.17	11.27	12.36		13.81	5 / 2			
reaction time	0.132	interval		1.10	1.07	1.07	1.06	1.06	1.09	1.10	1.10	1.09	1.45			3.24	3.21	3.29
wind	-1.4 m/s	velocity	5.24	8.31	8.54	8.54	8.62	8.62	8.39	8.31	8.31	8.39	9.67	7.97		8.46	8.54	8.33
de Oliveira, João Vítor (BRA) (1992)																		
FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)																		
Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers																		
date	08-May-16	time	2.64	3.72	4.78	5.81	6.87	7.92	8.99	10.07	11.17	12.30		13.81	7 / 5			
reaction time	0.128	interval		1.08	1.06	1.03	1.06	1.05	1.07	1.08	1.10	1.13	1.51			3.17	3.18	3.31
wind	-0.6 m/s	velocity	5.20	8.46	8.62	8.87	8.62	8.70	8.54	8.46	8.31	8.09	9.28	7.97		8.65	8.62	8.28
Tagaku, Takashi (JPN)																		
FINAL - 2016 All-Star Night Athletics (Hiratsuka, JPN)																		
(2016.07.23) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																		
date	23-Jul-16	time	2.69	3.78	4.85	5.90	6.96	8.01	9.10	10.16	11.25	12.35		13.81	3 / 2			
reaction time	0.160	interval	7 steps	1.09	1.07	1.05	1.06	1.05	1.09	1.06	1.09	1.10	1.46			3.21	3.20	3.25
wind	0.5 m/s	velocity	5.10	8.39	8.54	8.70	8.62	8.70	8.39	8.62	8.39	8.31	9.60	7.97		8.54	8.57	8.44
Nomoto, Syuusei (JPN) (1995)																		
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)																		
(2017) - tfdata-store.com/2017/07/13/post-1040/																		
date	24-Jun-17	time	2.59	3.71	4.77	5.85	6.93	8.02	9.10	10.18	11.30	12.40		13.81	2 / 3			
reaction time	0.154	interval	7 steps	1.12	1.06	1.08	1.08	1.09	1.08	1.08	1.12	1.10	1.41			3.26	3.25	3.30
wind	0.0 m/s	velocity	5.30	8.16	8.62	8.46	8.46	8.39	8.46	8.46	8.16	8.31	9.94	7.97		8.41	8.44	8.31
Shi Guoxing (CHN) (2000)																		
FINAL - 2018 Chinese National U20 Championships (Nanchang, CHN) (99.1cm)																		
Zhang (2019) - comparative analysis characteristics Chinese elite 110m hurdles in different age																		
date	13-May-18	time	2.72	3.82	4.89	5.97	7.01	8.07	9.12	10.19	11.29	12.38		13.81	3 / 2			
reaction time		interval		1.10	1.07	1.08	1.04	1.06	1.05	1.07	1.10	1.09	1.43			3.25	3.15	3.26
wind	1.0 m/s	velocity	5.04	8.31	8.54	8.46	8.79	8.62	8.70	8.54	8.31	8.39	9.80	7.97		8.44	8.70	8.41
Ishikawa, Shuhei (JPN) (1995)																		
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)																		
Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season																		
date	24-Jun-18	time	2.60	3.69	4.76	5.81	6.89	7.97	9.04	10.12	11.22	12.34		13.81	8 / 6			
reaction time	0.155	interval	7 steps	1.09	1.07	1.05	1.08	1.08	1.07	1.08	1.10	1.12	1.47			3.21	3.23	3.30
wind	0.7 m/s	velocity	5.28	8.39	8.54	8.70	8.46	8.46	8.54	8.46	8.31	8.16	9.54	7.97		8.54	8.49	8.31
Fujii, Ryota (JPN) (1996)																		
A FINAL - 2018 National Sports Festival (Fukui, JPN)																		
Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season																		
date	08-Oct-18	time	2.61	3.70	4.75	5.82	6.89	7.98	9.05	10.14	11.24	12.33		13.81	1 / 6			

reaction time	0.142	interval	1.09	1.05	1.07	1.07	1.09	1.07	1.09	1.10	1.09	1.48	PB	3.21	3.23	3.28	
wind	1.2 m/s	velocity	5.26	8.39	8.70	8.54	8.54	8.39	8.54	8.39	8.31	8.39	9.47	7.97	8.54	8.49	8.36

Sato, Hiroyuki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Kinami Memorial (Osaka, JPN)			<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>															
date	06-May-19	time	2.58	3.64	4.71	5.78	6.86	7.92	9.01	10.11	11.22	12.35		13.81	2 / 6			
reaction time		interval	1.06	1.07	1.07	1.08	1.06	1.09	1.10	1.11	1.13	1.46				3.20	3.23	3.34
wind	0.3 m/s	velocity	5.32	8.62	8.54	8.54	8.46	8.62	8.39	8.31	8.23	8.09	9.60	7.97		8.57	8.49	8.21

Efremov, David (KAZ) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	07-Jun-19	time	2.66	3.75	4.78	5.84	6.90	7.95	9.02	10.12	11.20	12.32		13.81	8 / 4			
reaction time	0.186	interval	7 steps	1.09	1.03	1.06	1.06	1.05	1.07	1.10	1.08	1.12	1.49	PB		3.18	3.18	3.30
wind	1.2 m/s	velocity	5.16	8.39	8.87	8.62	8.62	8.70	8.54	8.31	8.46	8.16	9.41	7.97		8.62	8.62	8.31

Moore, Isaiah (USA) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	18-Aug-19	time	2.64	3.73	4.80	5.87	6.91	7.93	9.00	10.09	11.16	12.26		13.81	2 / 8			
reaction time	0.144	interval		1.09	1.07	1.07	1.04	1.02	1.07	1.09	1.07	1.10	1.55			3.23	3.13	3.26
wind	-0.2 m/s	velocity	5.20	8.39	8.54	8.54	8.79	8.96	8.54	8.39	8.54	8.31	9.05	7.97		8.49	8.76	8.41

Alkana, Antonio (RSA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)			<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	03-Sep-20	time	2.56	3.60	4.71	5.75	6.81	7.84	8.89	9.96	11.11	12.18		13.81	3 / 4			
reaction time	0.201	interval		1.04	1.11	1.04	1.06	1.03	1.05	1.07	1.15	1.07	1.63			3.19	3.14	3.29
wind	-0.3 m/s	velocity	5.36	8.79	8.23	8.79	8.62	8.87	8.70	8.54	7.95	8.54	8.60	7.97		8.60	8.73	8.33

Higuchi, Rikuto (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)			<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>															
date	01-May-22	time	2.59	3.70	4.76	5.85	6.91	7.98	9.04	10.13	11.23	12.35		13.81	5 / 6			
reaction time	0.153	interval	7 steps	1.11	1.06	1.09	1.06	1.07	1.06	1.09	1.10	1.12	1.46			3.26	3.19	3.31
wind	0.8 m/s	velocity	5.30	8.23	8.62	8.39	8.62	8.54	8.62	8.39	8.31	8.16	9.60	7.97		8.41	8.60	8.28

Zaza, Wellington (LBR) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	21-May-22	time	2.47	3.57	4.67	5.73	6.77	7.90	8.95	10.08	11.17	12.28		13.81	8 / 8			
reaction time	0.141	interval		1.10	1.10	1.06	1.04	1.13	1.05	1.13	1.09	1.11	1.53			3.26	3.22	3.33
wind	0.7 m/s	velocity	5.55	8.31	8.31	8.62	8.79	8.09	8.70	8.09	8.39	8.23	9.16	7.97		8.41	8.52	8.23

Kim Kyung-Tae (KOR) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2024 Mikio Oda Memorial (Hiroshima, JPN)			<i>Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season</i>															
date	29-Apr-24	time	2.63	3.70	4.76	5.81	6.87	7.94	9.03	10.13	11.23	12.34		13.81	5 / 2			
reaction time	0.155	interval		1.07	1.06	1.05	1.06	1.07	1.09	1.10	1.10	1.11	1.47			3.18	3.22	3.31
wind	-0.7 m/s	velocity	5.22	8.54	8.62	8.70	8.62	8.54	8.39	8.31	8.31	8.23	9.54	7.97		8.62	8.52	8.28

Shabanov, Georgiy (URS) (1960)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1981 USSR vs. GDR (Tbilisi, URS)			<i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>															
date	26-Jun-81	time	2.48	3.61	4.69	5.72	6.74	7.81	8.90	10.00	11.20	12.44		13.82	1 / 2			
reaction time		interval		1.13	1.08	1.03	1.02	1.07	1.09	1.10	1.20	1.24	1.38			3.24	3.18	3.54
wind	???	velocity	5.53	8.09	8.46	8.87	8.96	8.54	8.39	8.31	7.62	7.37	10.16	7.96		8.46	8.62	7.75

Yu Zhicheng (CHN) (1963)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1990 Asian Games (Beijing, CHN)			<i>Feng (1993) - an analysis of the racing technique in the entire course of the men's 110m hurdles</i>															
date	28-Sep-90	time	2.70	3.79	4.86	5.94	6.99	8.06	9.14	10.22	11.32	12.40		13.82	3 / 1			
reaction time		interval		1.09	1.07	1.08	1.05	1.07	1.08	1.08	1.10	1.08	1.42	=AR		3.24	3.20	3.26
wind	2.0 m/s	velocity	5.08	8.39	8.54	8.46	8.70	8.54	8.46	8.46	8.31	8.46	9.87	7.96		8.46	8.57	8.41

Mitchum, Eric (USA) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2007 USATF National Championships (Indianapolis, IN)			<i>USATF Men's Hurdle Development (2007)</i>															
date	23-Jun-07	time	2.74	3.79	4.87	5.91	6.95	8.02	9.09	10.18	11.28	12.40		13.82	5 / 5			
reaction time		interval		1.05	1.08	1.04	1.04	1.07	1.07	1.09	1.10	1.12	1.42			3.17	3.18	3.31
wind	-1.9 m/s	velocity	5.01	8.70	8.46	8.79	8.79	8.54	8.54	8.39	8.31	8.16	9.87	7.96		8.65	8.62	8.28

Akins, Ty (USA) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 USA Olympic Trials (Eugene, OR)			<i>USATF Hurdle Development (2008)</i>															
date	06-Jul-08	time	2.57	3.67	4.74	5.79	6.84	7.89	8.94	9.98	11.03	12.19		13.82	8 / 7			
reaction time	0.175	interval		1.10	1.07	1.05	1.05	1.05	1.05	1.04	1.05	1.16	1.63			3.22	3.15	3.25
wind	3.5 m/s	velocity	5.34	8.31	8.54	8.70	8.70	8.70	8.70	8.79	8.70	7.88	8.60	7.96		8.52	8.70	8.44

Furukawa, Yutaro (JPN) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2009 Japanese National Championships (Hiroshima, JPN)			<i>Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season</i>															
date	26-Jun-09	time	2.41	3.51	4.57	5.63	6.70	7.77	8.85	9.93	11.04	12.16		13.82	2 / 1			
reaction time		interval		1.10	1.06	1.06	1.07	1.07	1.08	1.08	1.11	1.12	1.66			3.22	3.22	3.31

wind	0.6 m/s	velocity	5.69	8.31	8.62	8.62	8.54	8.54	8.46	8.46	8.23	8.16	8.45	7.96		8.52	8.52	8.28	
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)															Henson (2021) - Athlete First: 2016 year end hurdle report				
date	15-Jul-16	time	2.42	3.48	4.48	5.48	6.48	7.50	8.52	9.60	10.68	11.72		13.82	5 / 8		3.06	3.04	3.20
reaction time	0.128	interval		1.06	1.00	1.00	1.00	1.02	1.02	1.08	1.08	1.04	2.10				3.06	3.04	3.20
wind	0.0 m/s	velocity	5.67	8.62	9.14	9.14	9.14	8.96	8.96	8.46	8.46	8.79	6.68	7.96		8.96	9.02	8.57	
Kuriki, Anthony Tyrell (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Kanto Student Championships (Sagamihara, JPN)															(2016.09.17) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en				
date	17-Sep-16	time	2.67	3.76	4.84	5.91	6.98	8.06	9.12	10.19	11.30	12.39		13.82	4 / 1		3.24	3.21	3.27
reaction time		interval	7 steps	1.09	1.08	1.07	1.07	1.08	1.06	1.07	1.11	1.09	1.43				3.24	3.21	3.27
wind	3.2 m/s	velocity	5.14	8.39	8.46	8.54	8.54	8.46	8.62	8.54	8.23	8.39	9.80	7.96		8.46	8.54	8.39	
Wado, Tatsuya (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)															(2017) - tfdata-store.com/2017/05/01/458/				
date	29-Apr-17	time	2.57	3.67	4.72	5.78	6.85	7.91	9.01	10.07	11.21	12.32		13.82	2 / 6		3.21	3.23	3.31
reaction time		interval		1.10	1.05	1.06	1.07	1.06	1.10	1.06	1.14	1.11	1.50				3.21	3.23	3.31
wind	1.5 m/s	velocity	5.34	8.31	8.70	8.62	8.54	8.62	8.31	8.62	8.02	8.23	9.35	7.96		8.54	8.49	8.28	
Sato, Hiroyuki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)															Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season				
date	29-Apr-18	time	2.64	3.72	4.79	5.84	6.90	7.97	9.05	10.15	11.27	12.39		13.82	8 / 6		3.20	3.21	3.34
reaction time		interval		1.08	1.07	1.05	1.06	1.07	1.08	1.10	1.12	1.12	1.43				3.20	3.21	3.34
wind	2.6 m/s	velocity	5.20	8.46	8.54	8.70	8.62	8.54	8.46	8.31	8.16	8.16	9.80	7.96		8.57	8.54	8.21	
Masuno, Genta (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)															Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season				
date	24-Jun-18	time	2.61	3.68	4.72	5.76	6.81	7.87	8.95	10.08	11.20	12.30		13.82	6 / 7		3.15	3.19	3.35
reaction time	0.152	interval		1.07	1.04	1.04	1.05	1.06	1.08	1.13	1.12	1.10	1.52				3.15	3.19	3.35
wind	0.7 m/s	velocity	5.26	8.54	8.79	8.79	8.70	8.62	8.46	8.09	8.16	8.31	9.22	7.96		8.70	8.60	8.19	
Wado, Tatsuya (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Fuse Sprint (Tottori, JPN)															Kijima (2019) - research on athlete performance and technique- 2019 data book				
date	02-Jun-19	time	2.58	3.67	4.75	5.82	6.87	7.95	9.03	10.11	11.22	12.33		13.82	9 / 6		3.24	3.21	3.30
reaction time	0.131	interval	7 steps	1.09	1.08	1.07	1.05	1.08	1.08	1.08	1.11	1.11	1.49				3.24	3.21	3.30
wind	1.9 m/s	velocity	5.32	8.39	8.46	8.54	8.70	8.46	8.46	8.46	8.23	8.23	9.41	7.96		8.46	8.54	8.31	
Zhu Shenglong (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)															CAA Hurdle Development (2019)				
date	14-Aug-19	time	2.54	3.63	4.71	5.74	6.77	7.82	8.87	9.94	11.04	12.14		13.82	5 / 1		3.20	3.13	3.27
reaction time	0.145	interval		1.09	1.08	1.03	1.03	1.05	1.05	1.07	1.10	1.10	1.68				3.20	3.13	3.27
wind	0.5 m/s	velocity	5.40	8.39	8.46	8.87	8.87	8.70	8.70	8.54	8.31	8.31	8.35	7.96		8.57	8.76	8.39	
Yamada, Masahiro (JPN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Japanese U20 National Championships (Osaka, JPN) (99cm)															Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season				
date	12-Jun-22	time	2.67	3.77	4.87	5.93	6.98	8.04	9.10	10.17	11.25	12.35		13.82	8 / 5		3.26	3.17	3.25
reaction time	0.155	interval		1.10	1.10	1.06	1.05	1.06	1.06	1.07	1.08	1.10	1.47	PB			3.26	3.17	3.25
wind	1.1 m/s	velocity	5.14	8.31	8.31	8.62	8.70	8.62	8.62	8.54	8.46	8.31	9.54	7.96		8.41	8.65	8.44	
Chen Kuei-Ru (TPE) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)															Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season				
date	29-Apr-23	time	2.61	3.68	4.73	5.77	6.81	7.87	8.94	10.01	11.13	12.27		13.82	8 / 7		3.16	3.17	3.33
reaction time	0.173	interval	7 steps	1.07	1.05	1.04	1.04	1.06	1.07	1.07	1.12	1.14	1.55				3.16	3.17	3.33
wind	0.3 m/s	velocity	5.26	8.54	8.70	8.79	8.79	8.62	8.54	8.54	8.16	8.02	9.05	7.96		8.68	8.65	8.23	
Zeller, Joshua (GBR) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 London Athletics Meet (London, GBR)															Omega Timing (2023) - diamond league race analysis				
date	23-Jul-23	time	2.49	3.57	4.60	5.61	6.67	7.75	8.81	9.89	10.99	12.10		13.82	1 / 6		3.12	3.20	3.29
reaction time	0.144	interval		1.08	1.03	1.01	1.06	1.08	1.06	1.08	1.10	1.11	1.72				3.12	3.20	3.29
wind	1.3 m/s	velocity	5.51	8.46	8.87	9.05	8.62	8.46	8.62	8.46	8.31	8.23	8.15	7.96		8.79	8.57	8.33	
Moracho, Javier (ESP) (1957)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1989 IAAF World Cup (Barcelona, ESP)															Gill (1990) - atletismo (I) carreras y marcha				
date	10-Sep-89	time	2.60	3.67	4.73	5.78	6.86	7.92	9.02	10.12	11.23	12.39		13.83	6 / 5		3.18	3.24	3.37
reaction time		interval	7 steps	1.07	1.06	1.05	1.08	1.06	1.10	1.10	1.11	1.16	1.44				3.18	3.24	3.37
wind	2.6 m/s	velocity	5.28	8.54	8.62	8.70	8.46	8.62	8.31	8.31	8.23	7.88	9.74	7.95		8.62	8.46	8.14	
Fenner, Mike (GER) (1971)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2001 ISTAF (Berlin, GER)															Graubner (2009) - http://www.fgs.uni-halle.de				
date	31-Aug-01	time	2.62	3.70	4.79	5.86	6.92	8.01	9.09	10.18	11.27	12.38		13.83	1 / 7		3.24	3.23	3.29
reaction time	0.140	interval		1.08	1.09	1.07	1.06	1.09	1.08	1.09	1.09	1.11	1.45				3.24	3.23	3.29
wind	1.0 m/s	velocity	5.24	8.46	8.39	8.54	8.62	8.39	8.46	8.39	8.39	8.23	9.67	7.95		8.46	8.49	8.33	

Dittmer, Paul (GER) (1987)																
FINAL - 2006 German National Junior Championships (Watterscheid, GER) (99cm)																
date	22-Jul-06	time	2.64	3.73	4.79	5.85	6.91	7.97	9.05	10.13	11.23	12.34		13.83	/ 1	
reaction time		interval		1.09	1.06	1.06	1.06	1.06	1.08	1.08	1.10	1.11	1.49	PB		3.21 3.20 3.29
wind	0.8 m/s	velocity	5.20	8.39	8.62	8.62	8.62	8.62	8.46	8.46	8.31	8.23	9.41	7.95		8.54 8.57 8.33
Porter, Jeff (USA) (1985)																
Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)																
date	24-Jun-07	time	2.67	3.74	4.79	5.86	6.92	7.99	9.06	10.14	11.24	12.36		13.83	7 / 8	
reaction time		interval		1.07	1.05	1.07	1.06	1.07	1.07	1.08	1.10	1.12	1.47			3.19 3.20 3.30
wind	-0.6 m/s	velocity	5.14	8.54	8.70	8.54	8.62	8.54	8.54	8.46	8.31	8.16	9.54	7.95		8.60 8.57 8.31
Naito, Masato (JPN) (1980)																
FINAL - 2007 Seiko Super Grand Prix (Yokohama, JPN)																
date	30-Sep-07	time	2.48	3.53	4.58	5.63	6.68	7.76	8.86	9.95	11.06	12.14		13.83	/ 3	
reaction time		interval		1.05	1.05	1.05	1.05	1.08	1.10	1.09	1.11	1.08	1.69			3.15 3.23 3.28
wind	-1.6 m/s	velocity	5.53	8.70	8.70	8.70	8.70	8.46	8.31	8.39	8.23	8.46	8.30	7.95		8.70 8.49 8.36
Ohashi, Yuji (JPN) (1983)																
FINAL - 2008 Japanese National Championships (Kawasaki, JPN)																
date	28-Jun-08	time	2.42	3.51	4.57	5.65	6.71	7.77	8.84	9.92	11.01	12.12		13.83	/ 3	
reaction time		interval		1.09	1.06	1.08	1.06	1.06	1.07	1.08	1.09	1.11	1.71			3.23 3.19 3.28
wind	-0.2 m/s	velocity	5.67	8.39	8.62	8.46	8.62	8.62	8.54	8.46	8.39	8.23	8.20	7.95		8.49 8.60 8.36
Omuro, Hideki (JPN) (1990)																
B FINAL - 2012 Mikio Oda Memorial (Hiroshima, JPN)																
date	29-Apr-12	time	2.60	3.70	4.76	5.84	6.92	8.00	9.08	10.17	11.27	12.39		13.83	7 / 2	
reaction time		interval		1.10	1.06	1.08	1.08	1.08	1.08	1.09	1.10	1.12	1.44			3.24 3.24 3.31
wind	2.1 m/s	velocity	5.28	8.31	8.62	8.46	8.46	8.46	8.46	8.39	8.31	8.16	9.74	7.95		8.46 8.46 8.28
Sato, Hiroyuki (JPN) (1990)																
FINAL - 2012 Seiko Golden Grand Prix (Kawasaki, JPN)																
date	06-May-12	time	2.62	3.71	4.76	5.84	6.90	7.97	9.06	10.14	11.25	12.38		13.83	6 / 6	
reaction time		interval		1.09	1.05	1.08	1.06	1.07	1.09	1.08	1.11	1.13	1.45			3.22 3.22 3.32
wind	0.2 m/s	velocity	5.24	8.39	8.70	8.46	8.62	8.54	8.39	8.46	8.23	8.09	9.67	7.95		8.52 8.52 8.26
Furuya, Takumu (JPN) (1997)																
Semi-Final 1 - 2014 Japanese National Junior Championships (Nagoya, JPN) (99cm)																
date	03-Oct-14	time	2.62	3.71	4.81	5.87	6.93	8.01	9.10	10.18	11.28	12.37		13.83	/ 1	
reaction time		interval		1.09	1.10	1.06	1.06	1.08	1.09	1.08	1.10	1.09	1.46	PB		3.25 3.23 3.27
wind	0.7 m/s	velocity	5.24	8.39	8.31	8.62	8.62	8.46	8.39	8.46	8.31	8.39	9.60	7.95		8.44 8.49 8.39
Abate, Emanuele (ITA) (1985)																
FINAL - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)																
date	02-Jun-16	time	2.60	3.72	4.78	5.82	6.86	7.94	8.98	10.08	11.16	12.26		13.83	9 / 6	
reaction time	0.149	interval	7 steps	1.12	1.06	1.04	1.04	1.08	1.04	1.10	1.08	1.10	1.57			3.22 3.16 3.28
wind	0.6 m/s	velocity	5.28	8.16	8.62	8.79	8.79	8.46	8.79	8.31	8.46	8.31	8.93	7.95		8.52 8.68 8.36
Nishizawa, Masanori (JPN) (1987)																
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)																
date	24-Jun-17	time	2.63	3.71	4.79	5.86	6.93	8.01	9.08	10.18	11.28	12.39		13.83	4 / 4	
reaction time	0.138	interval		1.08	1.08	1.07	1.07	1.08	1.07	1.10	1.10	1.11	1.44			3.23 3.22 3.31
wind	0.0 m/s	velocity	5.22	8.46	8.46	8.54	8.54	8.46	8.54	8.31	8.31	8.23	9.74	7.95		8.49 8.52 8.28
Takeyoshi, Daiki (JPN) (1994)																
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)																
date	06-May-18	time	2.65	3.72	4.79	5.85	6.90	7.95	9.03	10.12	11.22	12.34		13.83	5 / 3	
reaction time		interval		1.07	1.07	1.06	1.05	1.05	1.08	1.09	1.10	1.12	1.49			3.20 3.18 3.31
wind	1.6 m/s	velocity	5.18	8.54	8.54	8.62	8.70	8.70	8.46	8.39	8.31	8.16	9.41	7.95		8.57 8.62 8.28
Zhu Shenglong (CHN) (2000)																
FINAL - 2018 Chinese National U20 Championships (Nanchang, CHN) (99.1cm)																
date	13-May-18	time	2.69	3.79	4.85	5.90	6.94	8.00	9.06	10.15	11.24	12.36		13.83	4 / 3	
reaction time		interval		1.10	1.06	1.05	1.04	1.06	1.06	1.09	1.09	1.12	1.47			3.21 3.16 3.30
wind	1.0 m/s	velocity	5.10	8.31	8.62	8.70	8.79	8.62	8.62	8.39	8.39	8.16	9.54	7.95		8.54 8.68 8.31
Yang Yuxuan (CHN) (2002)																
FINAL - 2018 Chinese National U18 Championships (Jinzhou, CHN) (99.1cm)																
date	17-May-18	time	2.64	3.72	4.81	5.85	6.92	7.98	9.04	10.13	11.23	12.34		13.83	4 / 5	
reaction time		interval		1.08	1.09	1.04	1.07	1.06	1.06	1.09	1.10	1.11	1.49			3.21 3.19 3.30
wind	??	velocity	5.20	8.46	8.39	8.79	8.54	8.62	8.62	8.39	8.31	8.23	9.41	7.95		8.54 8.60 8.31

Al-Moualed, Ahmad (KSA) (1988)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)																		
date	09-Sep-18	time	2.56	3.62	4.68	5.72	6.76	7.86	8.92	10.04	11.16	12.28	13.83	1 / 7				
reaction time	0.143	interval		1.06	1.06	1.04	1.04	1.10	1.06	1.12	1.12	1.12	1.55			3.16	3.20	3.36
wind	0.9 m/s	velocity	5.36	8.62	8.62	8.79	8.79	8.31	8.62	8.16	8.16	8.16	9.05	7.95		8.68	8.57	8.16
Zeng Jianhang (CHN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)																		
date	15-Sep-18	time	2.58	3.67	4.71	5.77	6.84	7.90	8.98	10.08	11.17	12.29	13.83	3 / 1				
reaction time		interval		1.09	1.04	1.06	1.07	1.06	1.08	1.10	1.09	1.12	1.54			3.19	3.21	3.31
wind	0.7 m/s	velocity	5.32	8.39	8.79	8.62	8.54	8.62	8.46	8.31	8.39	8.16	9.10	7.95		8.60	8.54	8.28
Sun Zhenjiang (CHN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																		
date	09-Apr-19	time	2.62	3.70	4.78	5.82	6.88	7.94	9.02	10.10	11.22	12.32	13.83	4 / 1				
reaction time	0.177	interval	7 steps	1.08	1.08	1.04	1.06	1.06	1.08	1.08	1.12	1.10	1.51	PB		3.20	3.20	3.30
wind	0.2 m/s	velocity	5.24	8.46	8.46	8.79	8.62	8.62	8.46	8.46	8.16	8.31	9.28	7.95		8.57	8.57	8.31
Efremov, David (KAZ) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Asian Athletics Championships (Doha, QAT)																		
date	24-Apr-19	time	2.65	3.72	4.76	5.81	6.82	7.89	8.96	10.03	11.13	12.25	13.83	3 / 6				
reaction time	0.168	interval	7 steps	1.07	1.04	1.05	1.01	1.07	1.07	1.07	1.10	1.12	1.58	PB		3.16	3.15	3.29
wind	1.7 m/s	velocity	5.18	8.54	8.79	8.70	9.05	8.54	8.54	8.54	8.31	8.16	8.87	7.95		8.68	8.70	8.33
Yazawa, Wataru (JPN) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																		
date	28-Apr-19	time	2.70	3.80	4.86	5.92	6.97	8.03	9.10	10.19	11.29	12.41	13.83	7 / 4				
reaction time		interval	7 steps	1.10	1.06	1.06	1.05	1.06	1.07	1.09	1.10	1.12	1.42			3.22	3.18	3.31
wind	0.6 m/s	velocity	5.08	8.31	8.62	8.62	8.70	8.62	8.54	8.39	8.31	8.16	9.87	7.95		8.52	8.62	8.28
Pan Zijie (CHN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)																		
date	23-May-19	time	2.68	3.76	4.84	5.92	7.00	8.08	9.14	10.20	11.30	12.38	13.83	5 / 2				
reaction time		interval		1.08	1.08	1.08	1.08	1.08	1.06	1.06	1.10	1.08	1.45			3.24	3.22	3.24
wind	2.5 m/s	velocity	5.12	8.46	8.46	8.46	8.46	8.46	8.62	8.62	8.31	8.46	9.67	7.95		8.46	8.52	8.46
Nomoto, Syuusei (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)																		
date	29-Apr-22	time	2.59	3.66	4.73	5.79	6.86	7.92	8.98	10.08	11.18	12.31	13.83	3 / 3				
reaction time	0.157	interval	7 steps	1.07	1.07	1.06	1.07	1.06	1.06	1.10	1.10	1.13	1.52			3.20	3.19	3.33
wind	-1.5 m/s	velocity	5.30	8.54	8.54	8.62	8.54	8.62	8.62	8.31	8.31	8.09	9.22	7.95		8.57	8.60	8.23
Zhu Shenglong (CHN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2022 Chinese National Grand Prix (Huangshi, CHN)																		
date	15-Jul-22	time	2.66	3.72	4.78	5.85	6.90	7.96	9.03	10.12	11.20	12.32	13.83	1 / 1				
reaction time		interval		1.06	1.06	1.07	1.05	1.06	1.07	1.09	1.08	1.12	1.51			3.19	3.18	3.29
wind	0.2 m/s	velocity	5.16	8.62	8.62	8.54	8.70	8.62	8.54	8.39	8.46	8.16	9.28	7.95		8.60	8.62	8.33
Matsumoto, Nozomu (JPN) (2003)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Japanese U20 National Championships (Osaka, JPN) (99cm)																		
date	12-Jun-22	time	2.68	3.77	4.81	5.86	6.91	7.95	9.01	10.11	11.20	12.31	13.83	9 / 6				
reaction time	0.171	interval	7 steps	1.09	1.04	1.05	1.05	1.04	1.06	1.10	1.09	1.11	1.52			3.18	3.15	3.30
wind	1.1 m/s	velocity	5.12	8.39	8.79	8.70	8.70	8.79	8.62	8.31	8.39	8.23	9.22	7.95		8.62	8.70	8.31
Czykier, Damian (POL) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)																		
date	28-May-23	time	2.48	3.56	4.62	5.67	6.73	7.79	8.86	9.94	11.02	12.14	13.83	9 / 9				
reaction time	0.193	interval	7 steps	1.08	1.06	1.05	1.06	1.06	1.07	1.08	1.08	1.12	1.69			3.19	3.19	3.28
wind	-1.3 m/s	velocity	5.53	8.46	8.62	8.70	8.62	8.62	8.54	8.46	8.46	8.16	8.30	7.95		8.60	8.60	8.36
Yokochi, Taiga (JPN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Fuse Sprint (Tottori, JPN)																		
date	02-Jun-24	time	2.65	3.75	4.80	5.85	6.88	7.92	9.01	10.11	11.25	12.37	13.83	6 / 8				
reaction time	0.167	interval	7 steps	1.10	1.05	1.05	1.03	1.04	1.09	1.10	1.14	1.12	1.46			3.20	3.16	3.36
wind	1.3 m/s	velocity	5.18	8.31	8.70	8.70	8.87	8.79	8.39	8.31	8.02	8.16	9.60	7.95		8.57	8.68	8.16
Sáenz, Martín (CHI) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2024 Olympic Games (Paris, FRA)																		
date	04-Aug-24	time	2.48	3.60	4.66	5.68	6.72	7.76	8.83	9.93	11.06	12.17	13.83	2 / 8				
reaction time	0.144	interval		1.12	1.06	1.02	1.04	1.04	1.07	1.10	1.13	1.11	1.66			3.20	3.15	3.34
wind	0.1 m/s	velocity	5.53	8.16	8.62	8.96	8.79	8.79	8.54	8.31	8.09	8.23	8.45	7.95		8.57	8.70	8.21
Hemery, David (GBR) (1944)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	

FINAL - 1970 Commonwealth Games (Edinburgh, GBR)

date	18-Jul-70	time	2.55	3.65	4.65	5.70	6.75	7.80	8.85	9.90	11.00	12.10	(13.66)	13.6	1 / 1			
reaction time		interval		1.10	1.00	1.05	1.05	1.05	1.05	1.05	1.10	1.10	1.50			3.15	3.15	3.25
wind	2.9 m/s	velocity	5.38	8.31	9.14	8.70	8.70	8.70	8.70	8.70	8.31	8.31	9.35	8.09		8.70	8.70	8.44

Le Masurier (1972) - track speed- hurdles, sprints, and relays

Kulebyakin, Vyacheslav (URS) (1950)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat ??? - 1975 International "Pravda" Sportfest (Sotschi, URS)																	
date	30-May-75	time	2.4	3.33	4.49	5.58	6.63	7.70	8.79	9.92	10.98	12.07	13.6	???			
reaction time		interval		1.14	1.12	1.12	1.10	1.08	1.12	1.14	1.16	1.22	1.52		3.18	3.21	3.28
wind	???	velocity	5.72	8.02	8.16	8.16	8.31	8.46	8.16	8.02	7.88	7.49	9.22	8.09	8.62	8.54	8.36

Artyschenko (1977) - zwischen den hürden geht es um die sekunde, teil 1

Walker, Josh (USA) (1982)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 USATF National Championships (Palo Alto, CA)														USATF Women's Sprint Development (2003)			
date	21-Jun-03	time	2.37	3.52	4.57	5.64	6.71	7.76	8.83	9.89	10.96	12.08	13.84	1 / 7			
reaction time		interval		1.15	1.05	1.07	1.07	1.05	1.07	1.06	1.07	1.12	1.76		3.27	3.19	3.25
wind	-2.4 m/s	velocity	5.79	7.95	8.70	8.54	8.54	8.70	8.54	8.62	8.54	8.16	7.97	7.95	8.39	8.60	8.44

USATF Women's Sprint Development (2003)

McDowell, Andrew (USA) (1988)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm)														USATF Men's Hurdle Development (2007)			
date	21-Jun-07	time	2.69	3.74	4.77	5.82	6.89	7.94	8.98	10.09	11.18	12.30	13.84	/ 7			
reaction time		interval		1.05	1.03	1.05	1.07	1.05	1.04	1.11	1.09	1.12	1.54		3.13	3.16	3.32
wind	2.7 m/s	velocity	5.10	8.70	8.87	8.70	8.54	8.70	8.79	8.23	8.39	8.16	9.10	7.95	8.76	8.68	8.26

USATF Men's Hurdle Development (2007)

Furuya, Takumu (JPN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2017 Tokyo Six School Meeting (Tokyo, JPN)														(2017) - tfdata-store.com/2017/04/10/post-342/			
date	08-Apr-17	time	2.64	3.72	4.82	5.86	6.92	7.98	9.06	10.14	11.23	12.34	13.84	5 / 1			
reaction time		interval	7 steps	1.08	1.10	1.04	1.06	1.06	1.08	1.08	1.09	1.11	1.50		3.22	3.20	3.28
wind	1.3 m/s	velocity	5.20	8.46	8.31	8.79	8.62	8.62	8.46	8.46	8.39	8.23	9.35	7.95	8.52	8.57	8.36

(2017) - tfdata-store.com/2017/04/10/post-342/

Yamamoto, Kenta (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)														(2017) - tfdata-store.com/2017/07/13/post-1040/			
date	24-Jun-17	time	2.68	3.75	4.83	5.91	6.97	8.04	9.13	10.23	11.32	12.43	13.84	3 / 5			
reaction time	0.161	interval		1.07	1.08	1.08	1.06	1.07	1.09	1.10	1.09	1.11	1.41	PB	3.23	3.22	3.30
wind	0.0 m/s	velocity	5.12	8.54	8.46	8.46	8.62	8.54	8.39	8.31	8.39	8.23	9.94	7.95	8.49	8.52	8.31

(2017) - tfdata-store.com/2017/07/13/post-1040/

Kumagai, Kai (JPN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm)										Joshi (2018) - research on athlete performance and technique- 2018 data book							
date	07-Oct-18	time	2.62	3.73	4.80	5.86	6.93	8.02	9.10	10.19	11.29	12.40	13.84	7 / 7			
reaction time	0.147	interval		1.11	1.07	1.06	1.07	1.09	1.08	1.09	1.10	1.11	1.44		3.24	3.24	3.30
wind	1.5 m/s	velocity	5.24	8.23	8.54	8.62	8.54	8.39	8.46	8.39	8.31	8.23	9.74	7.95	8.46	8.46	8.31

Joshi (2018) - research on athlete performance and technique- 2018 data book

Walters, Ruebin (TTO) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)										Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season							
date	19-May-19	time	2.67	3.77	4.85	5.92	6.97	8.02	9.06	10.13	11.22	12.34	13.84	4 / 9			
reaction time	0.147	interval		1.10	1.08	1.07	1.05	1.05	1.04	1.07	1.09	1.12	1.50		3.25	3.14	3.28
wind	2.9 m/s	velocity	5.14	8.31	8.46	8.54	8.70	8.70	8.79	8.54	8.39	8.16	9.35	7.95	8.44	8.73	8.36

Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season

Joseph, Jason (SUI) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)													Henson (2020) - Athlete First: 2020 year end hurdle report				
date	14-Aug-20	time	2.73	3.80	4.87	5.90	6.92	7.97	9.00	10.07	11.18	12.31	13.84	2 / 7			
reaction time	0.233	interval	7 steps	1.07	1.07	1.03	1.02	1.05	1.03	1.07	1.11	1.13	1.53		3.17	3.10	3.31
wind	0.8 m/s	velocity	5.03	8.54	8.54	8.87	8.96	8.70	8.87	8.54	8.23	8.09	9.16	7.95	8.65	8.85	8.28

Henson (2020) - Athlete First: 2020 year end hurdle report

Fujii, Ryota (JPN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)										Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season							
date	29-Apr-21	time	2.64	3.73	4.78	5.85	6.91	7.98	9.05	10.13	11.22	12.34	13.84	2 / 8			
reaction time		interval		1.09	1.05	1.07	1.06	1.07	1.07	1.08	1.09	1.12	1.50		3.21	3.20	3.29
wind	1.7 m/s	velocity	5.20	8.39	8.70	8.54	8.62	8.54	8.54	8.46	8.39	8.16	9.35	7.95	8.54	8.57	8.33

Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season

Broadbell, Rasheed (JAM) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)												Henson (2021) - Athlete First: 2021 year end hurdle report					
date	13-Jul-21	time	2.60	3.72	4.76	5.82	6.88	7.98	9.04	10.10	11.22	12.32	13.84	2 / 5			
reaction time	0.165	interval	7 steps	1.12	1.04	1.06	1.06	1.10	1.06	1.06	1.12	1.10	1.52		3.22	3.22	3.28
wind	0.8 m/s	velocity	5.28	8.16	8.79	8.62	8.62	8.31	8.62	8.62	8.16	8.31	9.22	7.95	8.52	8.52	8.36

Henson (2021) - Athlete First: 2021 year end hurdle report

Mendy, Louis François (SEN) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												Henson (2024) - Athlete First: 2021 year end hurdle report					
date	03-Aug-21	time	2.66	3.84	4.89	5.93	6.94	7.98	9.03	10.11	11.22	12.34	13.84	7 / 7			
reaction time	0.169	interval		1.18	1.05	1.04	1.01	1.04	1.05	1.08	1.11	1.12	1.50		3.27	3.10	3.31
wind	0.0 m/s	velocity	5.16	7.75	8.70	8.79	9.05	8.79	8.70	8.46	8.23	8.16	9.35	7.95	8.39	8.85	8.28

Henson (2024) - Athlete First: 2021 year end hurdle report

Takahasai, Yusuke (JPN) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Fuse Sprint (Tottori, JPN)																

Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season

date	25-Jun-23	time	2.62	3.70	4.78	5.84	6.92	7.98	9.05	10.15	11.25	12.41	13.84	9 / 5				
reaction time	0.128	interval		1.08	1.08	1.06	1.08	1.06	1.07	1.10	1.10	1.16	1.43		3.22	3.21	3.36	
wind	1.1 m/s	velocity	5.24	8.46	8.46	8.62	8.46	8.62	8.54	8.31	8.31	7.88	9.80	7.95	8.52	8.54	8.16	
Kuusiniemi, Santeri (FIN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)			Henson (2024) - Athlete First: 2024 year end hurdle report															
date	08-Jun-24	time	2.65	3.76	4.78	5.83	6.86	7.96	9.00	10.07	11.20	12.33	13.84	1 / 7				
reaction time	0.157	interval		1.11	1.02	1.05	1.03	1.10	1.04	1.07	1.13	1.13	1.51		3.18	3.17	3.33	
wind	0.6 m/s	velocity	5.18	8.23	8.96	8.70	8.87	8.31	8.79	8.54	8.09	8.09	9.28	7.95	8.62	8.65	8.23	
Lakka, Elmo (FIN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2024 Olympic Games (Paris, FRA)			Paris 2024 Olympic Games - Results Book (2024)															
date	04-Aug-24	time	2.42	3.51	4.56	5.59	6.62	7.67	8.73	9.80	10.89	12.05	13.84	4 / 7				
reaction time	0.125	interval	7 steps	1.09	1.05	1.03	1.03	1.05	1.06	1.07	1.09	1.16	1.79		3.17	3.14	3.32	
wind	0.7 m/s	velocity	5.67	8.39	8.70	8.87	8.87	8.70	8.62	8.54	8.39	7.88	7.83	7.95	8.65	8.73	8.26	
Fofana, Hassane (ITA) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)			Omega Timing (2024) - diamond league race analysis															
date	30-Aug-24	time	2.48	3.60	4.68	5.74	6.79	7.85	8.93	10.02	11.10	12.21	13.84	1 / 9				
reaction time	0.154	interval		1.12	1.08	1.06	1.05	1.06	1.08	1.09	1.08	1.11	1.63		3.26	3.19	3.28	
wind	0.4 m/s	velocity	5.53	8.16	8.46	8.62	8.70	8.62	8.46	8.39	8.46	8.23	8.60	7.95	8.41	8.60	8.36	
Sala, Carles (ESP) (1960)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)			Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988															
date	26-Sep-88	time	2.60	3.73	4.81	5.85	6.90	7.97	9.05	10.15	11.25	12.37	13.85	7 / 6				
reaction time	0.127	interval		1.13	1.08	1.04	1.05	1.07	1.08	1.10	1.10	1.12	1.48		3.25	3.20	3.32	
wind	0.0 m/s	velocity	5.28	8.09	8.46	8.79	8.70	8.54	8.46	8.31	8.31	8.16	9.47	7.94	8.44	8.57	8.26	
Schwarthoff, Florian (GER) (1968)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2001 ISTAF (Berlin, GER)			Graubner (2009) - http://www.fgs.uni-halle.de															
date	31-Aug-09	time	2.68	3.76	4.80	5.82	6.84	7.90	8.94	10.00	10.10	12.20	13.85	7 / 8				
reaction time	0.161	interval	7 steps	1.08	1.04	1.02	1.02	1.06	1.04	1.06	0.10	2.10	1.65		3.14	3.12	3.26	
wind	1.0 m/s	velocity	5.12	8.46	8.79	8.96	8.96	8.62	8.79	8.62	91.40	4.35	8.50	7.94	8.73	8.79	8.41	
Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2013 Mikio Oda Memorial (Hiroshima, JPN)			Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13															
date	29-Apr-13	time	2.63	3.73	4.79	5.86	6.91	8.00	9.08	10.18	11.28	12.42	13.85	1 / 4				
reaction time		interval		1.10	1.06	1.07	1.05	1.09	1.08	1.10	1.10	1.14	1.43		3.23	3.22	3.34	
wind	1.5 m/s	velocity	5.22	8.31	8.62	8.54	8.70	8.39	8.46	8.31	8.31	8.02	9.80	7.94	8.49	8.52	8.21	
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2013 Japanese National Championships (Chofu, JPN)			Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13															
date	08-Jun-13	time	2.62	3.70	4.76	5.83	6.91	8.00	9.08	10.19	11.29	12.42	13.85	6 / 1				
reaction time		interval		1.08	1.06	1.07	1.08	1.09	1.08	1.11	1.10	1.13	1.43		3.21	3.25	3.34	
wind	0.1 m/s	velocity	5.24	8.46	8.62	8.54	8.46	8.39	8.46	8.23	8.31	8.09	9.80	7.94	8.54	8.44	8.21	
Masuno, Genta (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Japanese National Championships (Niigata, JPN)			Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions															
date	28-Jun-15	time	2.63	3.70	4.77	5.82	6.88	7.97	9.05	10.13	11.22	12.35	13.85	7 / 3				
reaction time	0.142	interval		1.07	1.07	1.05	1.06	1.09	1.08	1.08	1.09	1.13	1.50		3.19	3.23	3.30	
wind	-1.4 m/s	velocity	5.22	8.54	8.54	8.70	8.62	8.39	8.46	8.46	8.39	8.09	9.35	7.94	8.60	8.49	8.31	
Kanai, Nao (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (99cm)			Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015															
date	02-Aug-15	time	2.65	3.72	4.80	5.86	6.91	7.99	9.05	10.14	11.22	12.37	13.85	4 / 1				
reaction time		interval		1.07	1.08	1.06	1.05	1.08	1.06	1.09	1.08	1.15	1.48	PB		3.21	3.19	3.32
wind	1.4 m/s	velocity	5.18	8.54	8.46	8.62	8.70	8.46	8.62	8.39	8.46	7.95	9.47	7.94	8.54	8.60	8.26	
Furuya, Takumu (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)			Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers															
date	08-May-16	time	2.64	3.75	4.82	5.89	6.94	8.02	9.10	10.21	11.29	12.40	13.85	2 / 6				
reaction time	0.149	interval		1.11	1.07	1.07	1.05	1.08	1.08	1.11	1.08	1.11	1.45		3.25	3.21	3.30	
wind	-0.6 m/s	velocity	5.20	8.23	8.54	8.54	8.70	8.46	8.46	8.23	8.46	8.23	9.67	7.94	8.44	8.54	8.31	
Katsuta, Chiku (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	21-Oct-16	time	2.63	3.70	4.79	5.84	6.91	7.99	9.07	10.17	11.28	12.41	13.85	4 / 1				
reaction time		interval		1.07	1.09	1.05	1.07	1.08	1.08	1.10	1.11	1.13	1.44		3.21	3.23	3.34	
wind	1.0 m/s	velocity	5.22	8.54	8.39	8.70	8.54	8.46	8.46	8.31	8.23	8.09	9.74	7.94	8.54	8.49	8.21	
Sato, Hiroyuki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)			(2017) - tdata-store.com/2017/05/08/post-413/															
date	07-May-17	time	2.64	3.72	4.78	5.86	6.93	8.00	9.08	10.18	11.28	12.39	13.85	7 / 4				

reaction time		interval	1.08	1.06	1.08	1.07	1.07	1.08	1.10	1.10	1.11	1.46			3.22	3.22	3.31	
wind	-1.5 m/s	velocity	5.20	8.46	8.62	8.46	8.54	8.54	8.46	8.31	8.31	8.23	9.60	7.94	8.52	8.52	8.28	
Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)			Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season															
date	29-Apr-18	time	2.69	3.77	4.81	5.87	6.93	8.00	9.08	10.18	11.29	12.41		13.85	1 / 7			
reaction time		interval		1.08	1.04	1.06	1.06	1.07	1.08	1.10	1.11	1.12	1.44			3.18	3.21	3.33
wind	2.6 m/s	velocity	5.10	8.46	8.79	8.62	8.62	8.54	8.46	8.31	8.23	8.16	9.74	7.94		8.62	8.54	8.23
Kim Byung-Jun (KOR) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)			Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season															
date	20-May-18	time	2.64	3.73	4.80	5.85	6.91	7.97	9.04	10.15	11.23	12.34		13.85	4 / 6			
reaction time	0.162	interval		1.09	1.07	1.05	1.06	1.06	1.07	1.11	1.08	1.11	1.51			3.21	3.19	3.30
wind	-0.4 m/s	velocity	5.20	8.39	8.54	8.70	8.62	8.62	8.54	8.23	8.46	8.23	9.28	7.94		8.54	8.60	8.31
Yang Yuxuan (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Chinese National Sports School Championships (Jinjiang, CHN) (191.4cm)			Zhang (2019) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups															
date	??	time	2.72	3.79	4.86	5.90	6.94	8.00	9.06	10.13	11.23	12.33		13.85	4 / 2			
reaction time		interval		1.07	1.07	1.04	1.04	1.06	1.06	1.07	1.10	1.10	1.52			3.18	3.16	3.27
wind	??	velocity	5.04	8.54	8.54	8.79	8.79	8.62	8.62	8.54	8.31	8.31	9.22	7.94		8.62	8.68	8.39
Oyeniye, Abejode (NGR) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)			Henson (2021) - Athlete First: 2018 year end hurdle report															
date	09-Sep-18	time	2.60	3.76	4.82	5.88	6.96	8.00	9.08	10.14	11.20	12.30		13.85	8 / 8			
reaction time	0.225	interval	7 steps	1.16	1.06	1.06	1.08	1.04	1.08	1.06	1.06	1.10	1.55	PB		3.28	3.20	3.22
wind	0.9 m/s	velocity	5.28	7.88	8.62	8.62	8.46	8.79	8.46	8.62	8.62	8.31	9.05	7.94		8.36	8.57	8.52
Zeng Jianhang (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Asian Athletics Championships (Doha, QAT)			CAA Hurdle Development (2019)															
date	24-Apr-19	time	2.59	3.63	4.67	5.72	6.75	7.81	8.85	9.92	11.03	12.03		13.85	2 / 7			
reaction time	0.152	interval		1.04	1.04	1.05	1.03	1.06	1.04	1.07	1.11	1.00	1.82			3.13	3.13	3.18
wind	1.7 m/s	velocity	5.30	8.79	8.79	8.70	8.87	8.62	8.79	8.54	8.23	9.14	7.70	7.94		8.76	8.76	8.62
Zhao Pengchuan (CHN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)			CAA Hurdle Development (2019)															
date	08-Jul-19	time	2.65	3.77	4.82	5.89	6.95	8.02	9.10	10.18	11.26	12.37		13.85	3 / 1			
reaction time	0.168	interval		1.12	1.05	1.07	1.06	1.07	1.08	1.08	1.08	1.11	1.48			3.24	3.21	3.27
wind	0.4 m/s	velocity	5.18	8.16	8.70	8.54	8.62	8.54	8.46	8.46	8.46	8.23	9.47	7.94		8.46	8.54	8.39
Shimizu, Koichiro (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)			Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season															
date	01-Jun-21	time	2.69	3.75	4.85	5.91	6.96	8.03	9.10	10.18	11.28	12.39		13.85	9 / 4			
reaction time	0.169	interval		1.06	1.10	1.06	1.05	1.07	1.07	1.08	1.10	1.11	1.46			3.22	3.19	3.29
wind	0.3 m/s	velocity	5.10	8.62	8.31	8.62	8.70	8.54	8.54	8.46	8.31	8.23	9.60	7.94		8.52	8.60	8.33
Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)			Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season															
date	08-May-22	time	2.62	3.70	4.76	5.81	6.89	7.95	9.03	10.12	11.23	12.35		13.85	6 / 8			
reaction time	0.162	interval	7 steps	1.08	1.06	1.05	1.08	1.06	1.08	1.09	1.11	1.12	1.50			3.19	3.22	3.32
wind	0.1 m/s	velocity	5.24	8.46	8.62	8.70	8.46	8.62	8.46	8.39	8.23	8.16	9.35	7.94		8.60	8.52	8.26
Smet, Koen (BEL) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)			Henson (2023) - Athlete First: 2023 year end hurdle report															
date	04-Jun-23	time	2.65	3.73	4.80	5.87	6.96	8.03	9.13	10.20	11.33	12.40		13.85	9 / 9			
reaction time	0.147	interval		1.08	1.07	1.07	1.09	1.07	1.10	1.07	1.13	1.07	1.45			3.22	3.26	3.27
wind	0.4 m/s	velocity	5.18	8.46	8.54	8.54	8.39	8.54	8.31	8.54	8.09	8.54	9.67	7.94		8.52	8.41	8.39
McCorry, Jacob (AUS) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2024 Mikio Oda Memorial (Hiroshima, JPN)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date	29-Apr-24	time	2.65	3.76	4.81	5.88	6.94	8.03	9.09	10.16	11.28	12.41		13.85	6 / 3			
reaction time	0.146	interval	7 steps	1.11	1.05	1.07	1.06	1.09	1.06	1.07	1.12	1.13	1.44			3.23	3.21	3.32
wind	-0.7 m/s	velocity	5.18	8.23	8.70	8.54	8.62	8.39	8.62	8.54	8.16	8.09	9.74	7.94		8.49	8.54	8.26
Dorival, Dudley (HAI) (1975)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)			Sanchez (1999) - Sevilla '99: análisis de la carreras con villas															
date	24-Aug-99	time	2.60	3.62	4.65	5.70	6.74	7.82	8.87	9.96	11.05	12.20		13.86	2 / 7			
reaction time	0.151	interval		1.02	1.03	1.05	1.04	1.08	1.05	1.09	1.09	1.15	1.66			3.10	3.17	3.33
wind	0.0 m/s	velocity	5.28	8.96	8.87	8.70	8.79	8.46	8.70	8.39	8.39	7.95	8.45	7.94		8.85	8.65	8.23
Mehlich, Krzysztof (POL) (1974)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2001 European Cup (Bremen, GER)			Graubner (2007) - http://www.fgs.uni-halle.de															
date	24-Jun-01	time	2.63	3.72	4.78	5.85	6.92	8.00	9.08	10.16	11.26	12.39		13.86	5 / 5			
reaction time	0.157	interval	7 steps	1.09	1.06	1.07	1.07	1.08	1.08	1.08	1.10	1.13	1.47			3.22	3.23	3.31

wind	1.3 m/s	velocity	5.22	8.39	8.62	8.54	8.54	8.46	8.46	8.31	8.09	9.54	7.94			8.52	8.49	8.28
Mathisizik, Willi (GER) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 ISTAF (Berlin, GER)			<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>															
date	14-Jun-09	time	2.68	3.79	4.84	5.89	6.95	8.03	9.13	10.19	11.31	12.43		13.86	9 / 8			
reaction time	0.204	interval		1.11	1.05	1.05	1.06	1.08	1.10	1.06	1.12	1.12	1.43			3.21	3.24	3.30
wind	0.7 m/s	velocity	5.12	8.23	8.70	8.70	8.62	8.46	8.31	8.62	8.16	8.16	9.80	7.94		8.54	8.46	8.31
Yoshinaga, Kazuyuki (JPN) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Japanese National Championships (Hiroshima, JPN)			<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>															
date	27-Jun-09	time	2.63	3.71	4.78	5.85	6.91	8.01	9.10	10.19	11.27	12.38		13.86	1 / 5			
reaction time		interval		1.08	1.07	1.07	1.06	1.10	1.09	1.09	1.08	1.11	1.48	PB		3.22	3.25	3.28
wind	1.6 m/s	velocity	5.22	8.46	8.54	8.54	8.62	8.31	8.39	8.39	8.46	8.23	9.47	7.94		8.52	8.44	8.36
Ida, Masayuki (JPN) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Japanese National Championships (Hiroshima, JPN)			<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>															
date	27-Jun-09	time	2.68	3.77	4.87	5.95	7.03	8.09	9.17	10.25	11.33	12.44		13.86	2 / 5			
reaction time		interval		1.09	1.10	1.08	1.08	1.06	1.08	1.08	1.08	1.11	1.42			3.27	3.22	3.27
wind	1.6 m/s	velocity	5.12	8.39	8.31	8.46	8.46	8.62	8.46	8.46	8.46	8.23	9.87	7.94		8.39	8.52	8.39
Hardee, Trey (USA) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>															
date	20-Aug-09	time	2.65	3.75	4.82	5.87	6.93	8.03	9.09	10.21	11.29	12.41		13.86	1 / 1			
reaction time	0.134	interval		1.10	1.07	1.05	1.06	1.10	1.06	1.12	1.08	1.12	1.45			3.22	3.22	3.32
wind	0.3 m/s	velocity	5.18	8.31	8.54	8.70	8.62	8.31	8.62	8.16	8.46	8.16	9.67	7.94		8.52	8.52	8.26
Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 Japanese National Championships (Kumagaya, JPN)			<i>Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro</i>															
date	11-Jun-11	time	2.64	3.72	4.80	5.87	6.94	8.01	9.11	10.20	11.30	12.42		13.86	/ 1			
reaction time		interval		1.08	1.08	1.07	1.07	1.07	1.10	1.09	1.10	1.12	1.44	PB		3.23	3.24	3.31
wind	-0.1 m/s	velocity	5.20	8.46	8.46	8.54	8.54	8.54	8.31	8.39	8.31	8.16	9.74	7.94		8.49	8.46	8.28
Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Mikio Oda Memorial (Hiroshima, JPN)			<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	29-Apr-13	time	2.64	3.74	4.82	5.90	6.98	8.03	9.11	10.18	11.27	12.40		13.86	/ 4			
reaction time		interval		1.10	1.08	1.08	1.08	1.05	1.08	1.07	1.09	1.13	1.46			3.26	3.21	3.29
wind	0.7 m/s	velocity	5.20	8.31	8.46	8.46	8.46	8.70	8.46	8.54	8.39	8.09	9.60	7.94		8.41	8.54	8.33
Masuno, Genta (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)			<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>															
date	29-Apr-16	time	2.66	3.72	4.78	5.83	6.90	7.99	9.06	10.16	11.27	12.39		13.86	/ 2			
reaction time		interval		1.06	1.06	1.05	1.07	1.09	1.07	1.10	1.11	1.12	1.47			3.17	3.23	3.33
wind	-0.5 m/s	velocity	5.16	8.62	8.62	8.70	8.54	8.39	8.54	8.31	8.23	8.16	9.54	7.94		8.65	8.49	8.23
Kagimoto, Masahiro (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Mito Invitational (Mito, JPN)			<i>(2016.05.27) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>															
date	05-May-16	time	2.66	3.74	4.81	5.89	6.96	8.04	9.12	10.22	11.32	12.45		13.86	4 / 2			
reaction time		interval		1.08	1.07	1.08	1.07	1.08	1.08	1.10	1.10	1.13	1.41			3.23	3.23	3.33
wind	0.7 m/s	velocity	5.16	8.46	8.54	8.46	8.54	8.46	8.46	8.31	8.31	8.09	9.94	7.94		8.49	8.49	8.23
Furuya, Takumu (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Japanese National Junior Championships (Nagoya, JPN) (0.99)			<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015 competitions</i>															
date	16-Oct-15	time	2.67	3.76	4.83	5.90	6.97	8.05	9.13	10.21	11.31	12.40		13.86	3 / 1			
reaction time		interval		1.09	1.07	1.07	1.07	1.08	1.08	1.08	1.10	1.09	1.46			3.23	3.23	3.27
wind	0.1 m/s	velocity	5.14	8.39	8.54	8.54	8.54	8.46	8.46	8.46	8.31	8.39	9.60	7.94		8.49	8.49	8.39
Fukumoto, Riku (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			<i>(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>															
date	21-Oct-16	time	2.62	3.71	4.78	5.83	6.89	7.97	9.05	10.17	11.27	12.41		13.86	2 / 1			
reaction time		interval		1.09	1.07	1.05	1.06	1.08	1.08	1.12	1.10	1.14	1.45			3.21	3.22	3.36
wind	1.4 m/s	velocity	5.24	8.39	8.54	8.70	8.62	8.46	8.46	8.16	8.31	8.02	9.67	7.94		8.54	8.52	8.16
Kanai, Taio (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2017 Tokyo Six School Meeting (Tokyo, JPN)			<i>(2017) - tdata-store.com/2017/04/10/post-342/</i>															
date	08-Apr-17	time	2.60	3.68	4.74	5.81	6.88	7.97	9.07	10.17	11.29	12.40		13.86	4 / 1			
reaction time		interval	7 steps	1.08	1.06	1.07	1.07	1.09	1.10	1.10	1.12	1.11	1.46			3.21	3.26	3.33
wind	0.8 m/s	velocity	5.28	8.46	8.62	8.54	8.54	8.39	8.31	8.31	8.16	8.23	9.60	7.94		8.54	8.41	8.23
Sato, Hiroyuki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2017 Mito Invitational (Mito, JPN)			<i>(2017) - tdata-store.com/2017/05/06/post-423/</i>															
date	05-May-17	time	2.60	3.68	4.76	5.80	6.88	7.95	9.04	10.13	11.24	12.38		13.86	5 / 1			
reaction time		interval		1.08	1.08	1.04	1.08	1.07	1.09	1.09	1.11	1.14	1.48			3.20	3.24	3.34
wind	-2.5 m/s	velocity	5.28	8.46	8.46	8.79	8.46	8.54	8.39	8.39	8.23	8.02	9.47	7.94		8.57	8.46	8.21

Lee Jung-Joon (KOR) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Korean National Championships (Kimchun, KOR)			Hong (2018) - performance of men's 110m hurdles using rhythmic units																
date	02-Jun-17	time	2.62	3.72	4.82	5.92	6.95	8.05	9.12	10.19	11.29	12.39		13.86		/ 2			
reaction time		interval		1.10	1.10	1.10	1.03	1.10	1.07	1.07	1.10	1.10	1.47				3.30	3.20	3.27
wind	2.6 m/s	velocity	5.24	8.31	8.31	8.31	8.87	8.31	8.54	8.54	8.31	8.31	9.54	7.94			8.31	8.57	8.39
Manga, Aurel (FRA) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)			Henson (2020) - Athlete First: 2018 year end hurdle report																
date	12-May-18	time	2.52	3.60	4.70	5.76	6.82	7.90	8.96	10.04	11.16	12.28		13.86		9 / 9			
reaction time	0.147	interval	7 steps	1.08	1.10	1.06	1.06	1.08	1.06	1.08	1.12	1.12	1.58				3.24	3.20	3.32
wind	0.2 m/s	velocity	5.44	8.46	8.31	8.62	8.62	8.46	8.62	8.46	8.16	8.16	8.87	7.94			8.46	8.57	8.26
Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Fuse Sprint (Tottori, JPN)			Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season																
date	03-Jun-18	time	2.61	3.68	4.77	5.83	6.90	7.96	9.05	10.14	11.24	12.35		13.86		/ 4			
reaction time		interval		1.07	1.09	1.06	1.07	1.06	1.09	1.09	1.10	1.11	1.51				3.22	3.22	3.30
wind	0.5 m/s	velocity	5.26	8.54	8.39	8.62	8.54	8.62	8.39	8.39	8.31	8.23	9.28	7.94			8.52	8.52	8.31
Furukawa, Yutaro (JPN) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
A FINAL - 2018 National Sports Festival (Fukui, JPN)			Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season																
date	08-Oct-18	time	2.63	3.70	4.76	5.84	6.90	7.97	9.05	10.15	11.24	12.36		13.86		2 / 7			
reaction time	0.145	interval		1.07	1.06	1.08	1.06	1.07	1.08	1.10	1.09	1.12	1.50				3.21	3.21	3.31
wind	1.2 m/s	velocity	5.22	8.54	8.62	8.46	8.62	8.54	8.46	8.31	8.39	8.16	9.35	7.94			8.54	8.54	8.28
Dunning, Robert (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)			Henson (2020) - Athlete First: 2019 year end hurdle report																
date	10-Sep-19	time	2.60	3.68	4.73	5.80	6.85	7.91	8.95	10.03	11.13	12.28		13.86		2 / 7			
reaction time	0.183	interval	7 steps	1.08	1.05	1.07	1.05	1.06	1.04	1.08	1.10	1.15	1.58				3.20	3.15	3.33
wind	0.1 m/s	velocity	5.28	8.46	8.70	8.54	8.70	8.62	8.79	8.46	8.31	7.95	8.87	7.94			8.57	8.70	8.23
Baji, Balázs (HUN) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)			Henson (2020) - Athlete First: 2020 year end hurdle report																
date	19-Aug-20	time	2.54	3.67	4.74	5.80	6.84	7.91	8.95	10.04	11.14	12.28		13.86		2 / 8			
reaction time	0.137	interval	7 steps	1.13	1.07	1.06	1.04	1.07	1.04	1.09	1.10	1.14	1.58				3.26	3.15	3.33
wind	0.3 m/s	velocity	5.40	8.09	8.54	8.62	8.79	8.54	8.79	8.39	8.31	8.02	8.87	7.94			8.41	8.70	8.23
Sun Zhenjiang (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)			CAA Hurdle Development (2020)																
date	16-Sep-20	time	2.59	3.71	4.76	5.82	6.88	7.95	9.03	10.11	11.23	12.34		13.86		3 / 2			
reaction time	0.152	interval	7 steps	1.12	1.05	1.06	1.06	1.07	1.08	1.08	1.12	1.11	1.52				3.23	3.21	3.31
wind	-0.5 m/s	velocity	5.30	8.16	8.70	8.62	8.62	8.54	8.46	8.46	8.16	8.23	9.22	7.94			8.49	8.54	8.28
Tokuoka, Ryo (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)			Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season																
date	29-Apr-22	time	2.67	3.75	4.80	5.85	6.91	7.99	9.07	10.18	11.28	12.39		13.86		3 / 1			
reaction time	0.162	interval	7 steps	1.08	1.05	1.05	1.06	1.08	1.08	1.11	1.10	1.11	1.47				3.18	3.22	3.32
wind	-0.7 m/s	velocity	5.14	8.46	8.70	8.70	8.62	8.46	8.46	8.23	8.31	8.23	9.54	7.94			8.62	8.52	8.26
Wilson, De'vion (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)			USATF (2022) - Results powered by Karmarush.com																
date	26-Jun-22	time	2.58	3.70	4.77	5.80	6.87	7.94	9.01	10.10	11.17	12.28		13.86		9 / 8			
reaction time		interval		1.12	1.07	1.03	1.07	1.07	1.07	1.09	1.07	1.11	1.58				3.22	3.21	3.27
wind	0.1 m/s	velocity	5.32	8.16	8.54	8.87	8.54	8.54	8.54	8.39	8.54	8.23	8.87	7.94			8.52	8.54	8.39
Park Tae-Kyong (KOR) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2009 Mikio Oda Memorial (Hiroshima, JPN)			Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles																
date	29-Apr-09	time	2.45	3.54	4.61	5.68	6.74	7.82	8.93	10.03	11.13	12.23		13.87		/ 1			
reaction time		interval		1.09	1.07	1.07	1.06	1.08	1.11	1.10	1.10	1.10	1.64				3.23	3.25	3.30
wind	0.6 m/s	velocity	5.60	8.39	8.54	8.54	8.62	8.46	8.23	8.31	8.31	8.31	8.55	7.93			8.49	8.44	8.31
Bühler, Matthias (GER) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2009 ISTAF (Berlin, GER)			Graubner (2009) - http://www.fgs.uni-halle.de																
date	14-Jun-09	time	2.68	3.77	4.87	5.93	6.98	8.05	9.13	10.21	11.31	12.43		13.87		1 / 9			
reaction time	0.134	interval		1.09	1.10	1.06	1.05	1.07	1.08	1.08	1.10	1.12	1.44				3.25	3.20	3.30
wind	0.7 m/s	velocity	5.12	8.39	8.31	8.62	8.70	8.54	8.46	8.46	8.31	8.16	9.74	7.93			8.44	8.57	8.31
Iwafune, Yoichi (JPN) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2009 Nambu Chuhei Memorial (Sapporo, JPN)			Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles																
date	09-Jul-09	time	2.65	3.74	4.82	5.87	6.93	8.00	9.06	10.14	11.25	12.38		13.87		/ 3			
reaction time		interval		1.09	1.08	1.05	1.06	1.07	1.06	1.08	1.11	1.13	1.49				3.22	3.19	3.32
wind	1.2 m/s	velocity	5.18	8.39	8.46	8.70	8.62	8.54	8.62	8.46	8.23	8.09	9.41	7.93			8.52	8.60	8.26

Mihailescu, Alexandru (ROU) (1982)																
FINAL - 2010 European Team Championships, 1st League (Budapest, HUN)																
date	20-Jun-10	time	2.51	3.64	4.69	5.75	6.80	7.86	8.93	10.00	11.11	12.22		13.87	Lane / Place	2 / 4
reaction time	0.150	interval		1.13	1.05	1.06	1.05	1.06	1.07	1.07	1.11	1.11	1.65			3.24 3.18 3.29
wind	1.1 m/s	velocity	5.47	8.09	8.70	8.62	8.70	8.62	8.54	8.54	8.23	8.23	8.50	7.93		8.46 8.62 8.33
Mita, Kyohei (JPN) (1991)																
B FINAL - 2012 Mikio Oda Memorial (Hiroshima, JPN)																
date	29-Apr-12	time	2.69	3.78	4.86	5.94	7.03	8.10	9.19	10.28	11.37	12.46		13.87	Lane / Place	6 / 3
reaction time		interval		1.09	1.08	1.08	1.09	1.07	1.09	1.09	1.09	1.09	1.41	PB		3.25 3.25 3.27
wind	2.1 m/s	velocity	5.10	8.39	8.46	8.46	8.39	8.54	8.39	8.39	8.39	8.39	9.94	7.93		8.44 8.44 8.39
Sato, Hiroyuki (JPN) (1990)																
Heat 1 - 2013 Japanese National Championships (Chofu, JPN)																
date	08-Jun-13	time	2.65	3.72	4.79	5.86	6.93	8.00	9.08	10.19	11.29	12.41		13.87	Lane / Place	4 / 1
reaction time		interval		1.07	1.07	1.07	1.07	1.07	1.08	1.11	1.10	1.12	1.46			3.21 3.22 3.33
wind	-0.1 m/s	velocity	5.18	8.54	8.54	8.54	8.54	8.54	8.46	8.23	8.31	8.16	9.60	7.93		8.54 8.52 8.23
Shaker, Amir (SWE) (1989)																
FINAL - 2013 Windsprint (Sundsvall, SWE)																
date	28-Jul-13	time	2.70	3.79	4.84	5.91	6.97	8.05	9.14	10.21	11.29	12.40		13.87	Lane / Place	2 / 6
reaction time		interval		1.09	1.05	1.07	1.06	1.08	1.09	1.07	1.08	1.11	1.47			3.21 3.23 3.26
wind	1.7 m/s	velocity	5.08	8.39	8.70	8.54	8.62	8.46	8.39	8.54	8.46	8.23	9.54	7.93		8.54 8.49 8.41
Notoya, Yuta (JPN) (1989)																
FINAL - 2015 Japanese National Championships (Niigata, JPN)																
date	28-Jun-15	time	2.67	3.73	4.79	5.85	6.92	7.99	9.08	10.16	11.27	12.37		13.87	Lane / Place	6 / 4
reaction time	0.136	interval	7 steps	1.06	1.06	1.06	1.07	1.07	1.09	1.08	1.11	1.10	1.50			3.18 3.23 3.29
wind	-1.4 m/s	velocity	5.14	8.62	8.62	8.62	8.54	8.54	8.39	8.46	8.23	8.31	9.35	7.93		8.62 8.49 8.33
Iwafune, Yoichi (JPN) (1985)																
FINAL - 2016 Fuse Sprint (Tottori, JPN)																
date	05-Jun-16	time	2.64	3.72	4.77	5.84	6.91	7.99	9.07	10.16	11.29	12.41		13.87	Lane / Place	3 / 5
reaction time		interval		1.08	1.05	1.07	1.07	1.08	1.08	1.09	1.13	1.12	1.46			3.20 3.23 3.34
wind	1.4 m/s	velocity	5.20	8.46	8.70	8.54	8.54	8.46	8.46	8.39	8.09	8.16	9.60	7.93		8.57 8.49 8.21
Sato, Hiroyuki (JPN) (1990)																
FINAL - 2017 Michitaka Memorial (Osaka, JPN)																
date	07-May-17	time	2.68	3.75	4.81	5.88	6.95	8.01	9.10	10.19	11.29	12.41		13.87	Lane / Place	3 / 5
reaction time		interval		1.07	1.06	1.07	1.07	1.06	1.09	1.09	1.10	1.12	1.46			3.20 3.22 3.31
wind	-0.8 m/s	velocity	5.12	8.54	8.62	8.54	8.54	8.62	8.39	8.39	8.31	8.16	9.60	7.93		8.57 8.52 8.28
Nishizawa, Masanori (JPN) (1987)																
Semi-Final 1 - 2017 Japanese National Championships (Osaka, JPN)																
date	24-Jun-17	time	2.66	3.75	4.82	5.91	6.97	8.03	9.11	10.20	11.32	12.41		13.87	Lane / Place	3 / 7
reaction time	0.133	interval		1.09	1.07	1.09	1.06	1.06	1.08	1.09	1.12	1.09	1.46			3.25 3.20 3.30
wind	0.6 m/s	velocity	5.16	8.39	8.54	8.39	8.62	8.62	8.46	8.39	8.16	8.39	9.60	7.93		8.44 8.57 8.31
Pan Zijie (CHN) (1995)																
FINAL - 2019 Chinese National Championships (Shenyang, CHN)																
date	08-Jul-19	time	2.63	3.70	4.80	5.87	6.96	8.02	9.11	10.21	11.31	12.41		13.87	Lane / Place	3 / 3
reaction time	0.187	interval		1.07	1.10	1.07	1.09	1.06	1.09	1.10	1.10	1.10	1.46			3.24 3.24 3.30
wind	0.1 m/s	velocity	5.22	8.54	8.31	8.54	8.39	8.62	8.39	8.31	8.31	8.31	9.60	7.93		8.46 8.46 8.31
Trajkovic, Milan (CYP) (1992)																
FINAL - 2019 IAAF World Championships (Doha, QAT)																
date	02-Oct-19	time	2.57	3.62	4.62	5.64	6.63	7.65	8.81	10.07	11.25	12.39		13.87	Lane / Place	8 / 8
reaction time	0.150	interval	7 steps	1.05	1.00	1.02	0.99	1.02	1.16	1.26	1.18	1.14	1.48			3.07 3.17 3.58
wind	0.6 m/s	velocity	5.34	8.70	9.14	8.96	9.23	8.96	7.88	7.25	7.75	8.02	9.47	7.93		8.93 8.65 7.66
Alkana, Antonio (RSA) (1990)																
FINAL - 2020 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)																
date	14-Aug-20	time	2.57	3.63	4.70	5.77	6.84	7.91	8.98	10.07	11.18	12.31		13.87	Lane / Place	7 / 8
reaction time	0.134	interval		1.06	1.07	1.07	1.07	1.07	1.09	1.11	1.13	1.56				3.20 3.21 3.33
wind	0.8 m/s	velocity	5.34	8.62	8.54	8.54	8.54	8.54	8.39	8.23	8.09	8.99	7.93			8.57 8.54 8.23
Zhu Shenglong (CHN) (2000)																
FINAL - 2021 Happy Chengdu Meeting (Chengdu, CHN)																
date	15-May-21	time	2.46	3.58	4.68	5.76	6.83	7.89	8.96	10.02	11.10	12.22		13.87	Lane / Place	1 / 1
reaction time		interval		1.12	1.10	1.08	1.07	1.06	1.07	1.06	1.08	1.12	1.65	PB		3.30 3.20 3.26
wind	1.3 m/s	velocity	5.58	8.16	8.31	8.46	8.54	8.62	8.54	8.62	8.46	8.16	8.50	7.93		8.31 8.57 8.41
Ishida Thomas, Higashi (JPN) (1997)																

FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)

date	01-Jun-21	time	2.70	3.78	4.85	5.92	6.98	8.05	9.13	10.22	11.32	12.43	13.87	2 / 5			
reaction time	0.208	interval	7 steps	1.08	1.07	1.07	1.06	1.07	1.08	1.09	1.10	1.11	1.44		3.22	3.21	3.30
wind	0.3 m/s	velocity	5.08	8.46	8.54	8.54	8.62	8.54	8.46	8.39	8.31	8.23	9.74	7.93	8.52	8.54	8.31

Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season

Yang Quanlei (CHN) (1999)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)

CAA Hurdle Development (2021)

date	12-Jun-21	time	2.55	3.63	4.71	5.77	6.85	7.92	9.01	10.09	11.19	12.29	13.87	5 / 1			
reaction time	0.161	interval		1.08	1.08	1.06	1.08	1.07	1.09	1.08	1.10	1.10	1.58	PB	3.22	3.24	3.28
wind	-0.8 m/s	velocity	5.38	8.46	8.46	8.62	8.46	8.54	8.39	8.46	8.31	8.31	8.87	7.93	8.52	8.46	8.36

Zhu Shenglong (CHN) (2000)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.66	3.73	4.78	5.84	6.91	7.99	9.05	10.15	11.27	12.39	13.87	8 / 4			
reaction time	0.176	interval		1.07	1.05	1.06	1.07	1.08	1.06	1.10	1.12	1.12	1.48		3.18	3.21	3.34
wind	1.6 m/s	velocity	5.16	8.54	8.70	8.62	8.54	8.46	8.62	8.31	8.16	8.16	9.47	7.93	8.62	8.54	8.21

Ojora, Tade (GBR) (1999)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)

Henson (2021) - Athlete First: 2021 year end hurdle report

date	13-Jul-21	time	2.64	3.72	4.80	5.84	6.92	8.00	9.04	10.18	11.28	12.40	13.87	7 / 6			
reaction time	0.151	interval		1.08	1.08	1.04	1.08	1.08	1.04	1.14	1.10	1.12	1.47		3.20	3.20	3.36
wind	0.8 m/s	velocity	5.20	8.46	8.46	8.79	8.46	8.46	8.79	8.02	8.31	8.16	9.54	7.93	8.57	8.57	8.16

Ishida Thomas, Higashi (JPN) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)

Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season

date	29-Apr-22	time	2.65	3.73	4.79	5.85	6.90	7.98	9.06	10.16	11.26	12.39	13.87	5 / 2			
reaction time	0.153	interval	7 steps	1.08	1.06	1.06	1.05	1.08	1.08	1.10	1.10	1.13	1.48		3.20	3.21	3.33
wind	-0.7 m/s	velocity	5.18	8.46	8.62	8.62	8.70	8.46	8.46	8.31	8.31	8.09	9.47	7.93	8.57	8.54	8.23

Tahara, Keigo (JPN) (2003)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2022 Japanese U20 National Championships (Osaka, JPN) (99cm)

Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season

date	12-Jun-22	time	2.63	3.73	4.83	5.86	6.92	7.96	9.05	10.13	11.23	12.34	13.87	2 / 7			
reaction time	0.155	interval		1.10	1.10	1.03	1.06	1.04	1.09	1.08	1.10	1.11	1.53	PB	3.23	3.19	3.29
wind	1.1 m/s	velocity	5.22	8.31	8.31	8.87	8.62	8.79	8.39	8.46	8.31	8.23	9.16	7.93	8.49	8.60	8.33

Pereira, Rafael (BRA) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time	2.42	3.53	4.60	5.67	6.73	7.79	8.86	9.94	11.04	12.17	13.87	9 / 8			
reaction time	0.148	interval		1.11	1.07	1.07	1.06	1.06	1.07	1.08	1.10	1.13	1.70		3.25	3.19	3.31
wind	-0.1 m/s	velocity	5.67	8.23	8.54	8.54	8.62	8.62	8.54	8.46	8.31	8.09	8.25	7.93	8.44	8.60	8.28

Montesinos, Hipólito (ESP) (1976)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2001 European Cup (Bremen, GER)Graubner (2007) - <http://www.fgs.uni-halle.de>

date	24-Jun-01	time	2.66	3.72	4.78	5.84	6.91	8.00	9.08	10.18	11.28	12.42	13.88	2 / 6			
reaction time	0.144	interval		1.06	1.06	1.06	1.07	1.09	1.08	1.10	1.10	1.14	1.46		3.18	3.24	3.34
wind	1.3 m/s	velocity	5.16	8.62	8.62	8.62	8.54	8.39	8.46	8.31	8.31	8.02	9.60	7.93	8.62	8.46	8.21

Lindsey, Justin (USA) (1979)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2007 USATF National Championships (Indianapolis, IN)

USATF Men's Hurdle Development (2007)

date	23-Jun-07	time	2.65	3.70	4.80	5.84	6.92	7.99	9.09	10.19	11.29	12.39	13.88	6 / 8			
reaction time		interval		1.05	1.10	1.04	1.08	1.07	1.10	1.10	1.10	1.10	1.49		3.19	3.25	3.30
wind	0.1 m/s	velocity	5.18	8.70	8.31	8.79	8.46	8.54	8.31	8.31	8.31	8.31	9.41	7.93	8.60	8.44	8.31

Tanonaka, Tasuku (JPN) (1978)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2008 Seiko Super Grand Prix (Kawasaki, JPN)

Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles

date	23-Sep-08	time	2.44	3.52	4.59	5.66	6.73	7.80	8.89	9.99	11.10	12.20	13.88	1 / 4			
reaction time		interval		1.08	1.07	1.07	1.07	1.07	1.09	1.10	1.11	1.10	1.68		3.22	3.23	3.31
wind	-0.7 m/s	velocity	5.62	8.46	8.54	8.54	8.54	8.54	8.39	8.31	8.23	8.31	8.35	7.93	8.52	8.49	8.28

Naito, Masato (JPN) (1980)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2009 Nambu Chuhei Memorial (Sapporo, JPN)

Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles

date	09-Jul-09	time	2.67	3.76	4.81	5.87	6.91	8.00	9.08	10.18	11.31	12.42	13.88	1 / 4			
reaction time		interval		1.09	1.05	1.06	1.04	1.09	1.08	1.10	1.13	1.11	1.46		3.20	3.21	3.34
wind	1.2 m/s	velocity	5.14	8.39	8.70	8.62	8.79	8.39	8.46	8.31	8.09	8.23	9.60	7.93	8.57	8.54	8.21

Wado, Tatsuya (JPN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 Mito Invitational Athletics Meeting (Mito, JPN)

Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13

date	04-May-12	time	2.57	3.68	4.75	5.81	6.90	7.96	9.04	10.13	11.26	12.38	13.88	1 / 5			
reaction time		interval		1.11	1.07	1.06	1.09	1.06	1.08	1.09	1.13	1.12	1.50		3.24	3.23	3.34
wind	-0.3 m/s	velocity	5.34	8.23	8.54	8.62	8.39	8.62	8.46	8.39	8.09	8.16	9.35	7.93	8.46	8.49	8.21

Omuro, Hideki (JPN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 Kanto (Tokyo, JPN)

Karube (2013) - the analysis of hurdle clearance and interval sprint in men's 110m sprint hurdle

date	13-May-12	time	2.67	2.78	2.86	2.94	3.02	3.11	3.20	3.28	3.37	3.46	3.55	3.64	3.73	3.82	3.91	4.00	4.09	4.18	4.27	4.36	4.45	4.54	4.63	4.72	4.81	4.90	5.00	5.09	5.18	5.27	5.36	5.45	5.54	5.63	5.72	5.81	5.90	6.00	6.09	6.18	6.27	6.36	6.45	6.54	6.63	6.72	6.81	6.90	7.00	7.09	7.18	7.27	7.36	7.45	7.54	7.63	7.72	7.81	7.90	8.00	8.09	8.18	8.27	8.36	8.45	8.54	8.63	8.72	8.81	8.90	9.00	9.09	9.18	9.27	9.36	9.45	9.54	9.63	9.72	9.81	9.90	10.00	10.09	10.18	10.27	10.36	10.45	10.54	10.63	10.72	10.81	10.90	11.00	11.09	11.18	11.27	11.36	11.45	11.54	11.63	11.72	11.81	11.90	12.00	12.09	12.18	12.27	12.36	12.45	12.54	12.63	12.72	12.81	12.90	13.00	13.09	13.18	13.27	13.36	13.45	13.54	13.63	13.72	13.81	13.90	14.00	14.09	14.18	14.27	14.36	14.45	14.54	14.63	14.72	14.81	14.90	15.00	15.09	15.18	15.27	15.36	15.45	15.54	15.63	15.72	15.81	15.90	16.00	16.09	16.18	16.27	16.36	16.45	16.54	16.63	16.72	16.81	16.90	17.00	17.09	17.18	17.27	17.36	17.45	17.54	17.63	17.72	17.81	17.90	18.00	18.09	18.18	18.27	18.36	18.45	18.54	18.63	18.72	18.81	18.90	19.00	19.09	19.18	19.27	19.36	19.45	19.54	19.63	19.72	19.81	19.90	20.00	20.09	20.18	20.27	20.36	20.45	20.54	20.63	20.72	20.81	20.90	21.00	21.09	21.18	21.27	21.36	21.45	21.54	21.63	21.72	21.81	21.90	22.00	22.09	22.18	22.27	22.36	22.45	22.54	22.63	22.72	22.81	22.90	23.00	23.09	23.18	23.27	23.36	23.45	23.54	23.63	23.72	23.81	23.90	24.00	24.09	24.18	24.27	24.36	24.45	24.54	24.63	24.72	24.81	24.90	25.00	25.09	25.18	25.27	25.36	25.45	25.54	25.63	25.72	25.81	25.90	26.00	26.09	26.18	26.27	26.36	26.45	26.54	26.63	26.72	26.81	26.90	27.00	27.09	27.18	27.27	27.36	27.45	27.54	27.63	27.72	27.81	27.90	28.00	28.09	28.18	28.27	28.36	28.45	28.54	28.63	28.72	28.81	28.90	29.00	29.09	29.18	29.27	29.36	29.45	29.54	29.63	29.72	29.81	29.90	30.00	30.09	30.18	30.27	30.36	30.45	30.54	30.63	30.72	30.81	30.90	31.00	31.09	31.18	31.27	31.36	31.45	31.54	31.63	31.72	31.81	31.90	32.00	32.09	32.18	32.27	32.36	32.45	32.54	32.63	32.72	32.81	32.90	33.00	33.09	33.18	33.27	33.36	33.45	33.54	33.63	33.72	33.81	33.90	34.00	34.09	34.18	34.27	34.36	34.45	34.54	34.63	34.72	34.81	34.90	35.00	35.09	35.18	35.27	35.36	35.45	35.54	35.63	35.72	35.81	35.90	36.00	36.09	36.18	36.27	36.36	36.45	36.54	36.63	36.72	36.81	36.90	37.00	37.09	37.18	37.27	37.36	37.45	37.54	37.63	37.72	37.81	37.90	38.00	38.09	38.18	38.27	38.36	38.45	38.54	38.63	38.72	38.81	38.90	39.00	39.09	39.18	39.27	39.36	39.45	39.54	39.63	39.72	39.81	39.90	40.00	40.09	40.18	40.27	40.36	40.45	40.54	40.63	40.72	40.81	40.90	41.00	41.09	41.18	41.27	41.36	41.45	41.54	41.63	41.72	41.81	41.90	42.00	42.09	42.18	42.27	42.36	42.45	42.54	42.63	42.72	42.81	42.90	43.00	43.09	43.18	43.27	43.36	43.45	43.54	43.63	43.72	43.81	43.90	44.00	44.09	44.18	44.27	44.36	44.45	44.54	44.63	44.72	44.81	44.90	45.00	45.09	45.18	45.27	45.36	45.45	45.54	45.63	45.72	45.81	45.90	46.00	46.09	46.18	46.27	46.36	46.45	46.54	46.63	46.72	46.81	46.90	47.00	47.09	47.18	47.27	47.36	47.45	47.54	47.63	47.72	47.81	47.90	48.00	48.09	48.18	48.27	48.36	48.45	48.54	48.63	48.72	48.81	48.90	49.00	49.09	49.18	49.27	49.36	49.45	49.54	49.63	49.72	49.81	49.90	50.00	50.09	50.18	50.27	50.36	50.45	50.54	50.63	50.72	50.81	50.90	51.00	51.09	51.18	51.27	51.36	51.45	51.54	51.63	51.72	51.81	51.90	52.00	52.09	52.18	52.27	52.36	52.45	52.54	52.63	52.72	52.81	52.90	53.00	53.09	53.18	53.27	53.36	53.45	53.54	53.63	53.72	53.81	53.90	54.00	54.09	54.18	54.27	54.36	54.45	54.54	54.63	54.72	54.81	54.90	55.00	55.09	55.18	55.27	55.36	55.45	55.54	55.63	55.72	55.81	55.90	56.00	56.09	56.18	56.27	56.36	56.45	56.54	56.63	56.72	56.81	56.90	57.00	57.09	57.18	57.27	57.36	57.45	57.54	57.63	57.72	57.81	57.90	58.00	58.09	58.18	58.27	58.36	58.45	58.54	58.63	58.72	58.81	58.90	59.00	59.09	59.18	59.27	59.36	59.45	59.54	59.63	59.72	59.81	59.90	60.00	60.09	60.18	60.27	60.36	60.45	60.54	60.63	60.72	60.81	60.90	61.00	61.09	61.18	61.27	61.36	61.45	61.54	61.63	61.72	61.81	61.90	62.00	62.09	62.18	62.27	62.36	62.45	62.54	62.63	62.72	62.81	62.90	63.00	63.09	63.18	63.27	63.36	63.45	63.54	63.63	63.72	63.81	63.90	64.00	64.09	64.18	64.27	64.36	64.45	64.54	64.63	64.72	64.81	64.90	65.00	65.09	65.18	65.27	65.36	65.45	65.54	65.63	65.72	65.81	65.90	66.00	66.09	66.18	66.27	66.36	66.45	66.54	66.63	66.72	66.81	66.90	67.00	67.09	67.18	67.27	67.36	67.45	67.54	67.63	67.72	67.81	67.90	68.00	68.09	68.18	68.27	68.36	68.45	68.54	68.63	68.72	68.81	68.90	69.00	69.09	69.18	69.27	69.36	69.45	69.54	69.63	69.72	69.81	69.90	70.00	70.09	70.18	70.27	70.36	70.45	70.54	70.63	70.72	70.81	70.90	71.00	71.09	71.18	71.27	71.36	71.45	71.54	71.63	71.72	71.81	71.90	72.00	72.09	72.18	72.27	72.36	72.45	72.54	72.63	72.72	72.81	72.90	73.00	73.09	73.18	73.27	73.36	73.45	73.54	73.63	73.72	73.81	73.90	74.00	74.09	74.18	74.27	74.36	74.45	74.54	74.63	74.72	74.81	74.90	75.00	75.09	75.18	75.27	75.36	75.45	75.54	75.63	75.72	75.81	75.90	76.00	76.09	76.18	76.27	76.36	76.45	76.54	76.63	76.72	76.81	76.90	77.00	77.09	77.18	77.27	77.36	77.45	77.54	77.63	77.72	77.81	77.90	78.00	78.09	78.18	78.27	78.36	78.45	78.54	78.63	78.72	78.81	78.90	79.00	79.09	79.18	79.27	79.36	79.45	79.54	79.63	79.72	79.81	79.90	80.00	80.09	80.18	80.27	80.36	80.45	80.54	80.63	80.72	80.81	80.90	81.00	81.09	81.18	81.27	81.36	81.45	81.54	81.63	81.72	81.81	81.90	82.00	82.09	82.18	82.27	82.36	82.45	82.54	82.63	82.72	82.81	82.90	83.00	83.09	83.18	83.27	83.36	83.45	83.54	83.63	83.72	83.81	83.90	84.00	84.09	84.18	84.27	84.36	84.45	84.54	84.63	84.72	84.81	84.90	85.00	85.09	85.18	85.27	85.36	85.45	85.54	85.63	85.72	85.81	85.90	86.00	86.09	86.18	86.27	86.36	86.45	86.54	86.63	86.72	86.81	86.90	87.00	87.09	87.18	87.27	87.36	87.45	87.54	87.63	87.72	87.81	87.90	88.00	88.09	88.18	88.27	88.36	88.45	88.54	88.63	88.72	88.81	88.90	89.00	89.09	89.18	89.27	89.36	89.45	89.54	89.63	89.72	89.81	89.90	90.00	90.09	90.18	90.27	90.36	90.45	90.54	90.63	90.72	90.81	90.90	91.00	91.09	91.18	91.27	91.36	91.45	91.54	91.63	91.72	91.81	91.90	92.00	92.09	92.18	92.27	92.36	92.45	92.54	92.63	92.72	92.81	92.90	93.00	93.09	93.18	93.27	93.36	93.45	93.54	93.63	93.72	93.81	93.90	94.00	94.09	94.18	94.27	94.36	94.45	94.54	94.63	94.72	94.81	94.90	95.00	95.09	95.18	95.27	95.36	95.45	95.54	95.63	95.72	95.81	95.90	96.00	96.09	96.18	96.27	96.36	96.45	96.54	96.63	96.72	96.81	96.90	97.00	97.09	97.18	97.27	97.36	97.45	97.54	97.63	97.72	97.81	97.90	98.00	98.09	98.18	98.27	98.36	98.45	98.54	98.63	98.72	98.81	98.90	99.00	99.09	99.18	99.27	99.36	99.45	99.54	99.63	99.72	99.81	99.90	100.00	100.09	100.18	100.27	100.36	100.45	100.54	100.63	100.72	100.81	100.90	101.00	101.09	101.18	101.27	101.36	101.45	101.54	101.63	101.72	101.81	101.90	102.00	102.09	102.18	102.27	102.36	102.45	102.54	102.63	102.72	102.81	102.90	103.00	103.09	103.18	103.27	103.36	103.45	103.54	103.63	103.72	103.81	103.90	104.00	104.09	104.18	104.27	104.36	104.45	104.54	104.63	104.72	104.81	104.90	105.00	105.09	105.18	105.27	105.36	105.45	105.54	105.63	105.72	105.81	105.90	106.00	106.09	106.18	106.27	106.36	106.45	106.54	106.63	106.72	106.81	106.90	107.00	107.09	107.18	107.27	107.36	107.45	107.54	107.63	107.72	107.81	107.90	108.00	108.09	108.18	108.27	108.36	108.45	108.54	108.63	108.72	108.81	108.90	109.00	109.09	109.18	109.27	109.36	109.45	109.54	109.63	109.72	109.81	109.90	110.00	110.09	110.18	110.27	110.36	110.45	110.54	110.63	110.72	110.81	110.90	111.00	111.09	111.18	111.27	111.36	111.45	111.54	111.63	111.72	111.81	111.90	112.00	112.09	112.18	112.27	112.36	112.45	112.54	112.63	112.72	112.81	112.90	113.00	113.09	113.18	113.27	113.36	113.45	113.54	113.63	113.72	113.81	113.90	114.00	114.09	114.18

reaction time	0.144	interval	7 steps	1.08	1.08	1.04	1.04	1.08	1.06	1.06	1.12	1.14	1.62			3.20	3.18	3.32
wind	0.8 m/s	velocity	5.36	8.46	8.46	8.79	8.79	8.46	8.62	8.62	8.16	8.02	8.65	7.93		8.57	8.62	8.26

Fofana, Hassane (ITA) (1992)

Zofana, Hassane (ITA) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)													Henson (2020) - Athlete First: 2020 year end hurdle report				
date	11-Aug-20	time	2.60	3.70	4.80	5.85	6.91	8.00	9.08	10.14	11.22	12.30		13.88	7 / 6		
reaction time	0.170	interval	7 steps	1.10	1.10	1.05	1.06	1.09	1.08	1.06	1.08	1.08	1.58		3.25	3.23	3.22
wind	1.1 m/s	velocity	5.28	8.31	8.31	8.70	8.62	8.39	8.46	8.62	8.46	8.46	8.87	7.93	8.44	8.49	8.52

Obasuyi, Michael (BEL) (1999)

Dasuyi, Michael (BEL) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)												Henson (2020) - Athlete First: 2020 year end hurdle report					
date	03-Sep-20	time	2.66	3.74	4.81	5.86	6.93	8.01	9.05	10.16	11.24	12.32		13.88	7 / 5		
reaction time	0.208	interval	7 steps	1.08	1.07	1.05	1.07	1.08	1.04	1.11	1.08	1.08	1.56		3.20	3.19	3.27
wind	-0.3 m/s	velocity	5.16	8.46	8.54	8.70	8.54	8.46	8.79	8.23	8.46	8.46	8.99	7.93	8.57	8.60	8.39

Sun Zhenjiang (CHN) (1999)

An Zhenjiang (CHN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)															CAA Hurdle Development (2020)			
date	16-Sep-20	time	2.60	3.70	4.77	5.83	6.90	7.95	9.03	10.13	11.24	12.36		13.88	9 / 5			
reaction time	0.176	interval	7 steps	1.10	1.07	1.06	1.07	1.05	1.08	1.10	1.11	1.12	1.52		3.23	3.20	3.33	
wind	0.4 m/s	velocity	5.28	8.31	8.54	8.62	8.54	8.70	8.46	8.31	8.23	8.16	9.22	7.93	8.49	8.57	8.23	

Sun Zhenjiang (CHN) (1999)

In Zhenjiang (CHN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2021 National Grand Prix (Chengdu, CHN)															CAA Hurdle Development (2021)			
date	02-Apr-21	time	2.66	3.74	4.80	5.88	6.92	7.96	9.04	10.14	11.24	12.36		13.88	4 / 1			
reaction time	0.189	interval	7 steps	1.08	1.06	1.08	1.04	1.04	1.08	1.10	1.10	1.12	1.52		3.22	3.16	3.32	
wind	0.5 m/s	velocity	5.16	8.46	8.62	8.46	8.79	8.79	8.46	8.31	8.31	8.16	9.22	7.93	8.52	8.68	8.26	

Hough, Nicholas (AUS) (1993)

Doug, Nicholas (AUS) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													Henson (2024) - Athlete First: 2021 year end hurdle report					
date	04-Aug-21	time	2.60	3.71	4.73	5.78	6.83	7.90	9.02	10.11	11.25	12.33		13.88	9 / 7			
reaction time	0.163	interval	7 steps	1.11	1.02	1.05	1.05	1.07	1.12	1.09	1.14	1.08	1.55		3.18	3.24	3.31	
wind	0.3 m/s	velocity	5.28	8.23	8.96	8.70	8.70	8.54	8.16	8.39	8.02	8.46	9.05	7.93	8.62	8.46	8.28	

Owens-Delorme, Ayden (PUR) (2000)

Wens-Delerme, Ayden (PUR) (2000)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)												Henson (2024) - Athlete First: 2022 year end hurdle report					
date	24-Jul-22	time	2.60	3.73	4.78	5.83	6.92	7.98	9.05	10.20	11.26	12.40		13.88	7 / 2		
reaction time	0.133	interval		1.13	1.05	1.05	1.09	1.06	1.07	1.15	1.06	1.14	1.48		3.23	3.22	3.35
wind	1.1 m/s	velocity	5.28	8.09	8.70	8.70	8.39	8.62	8.54	7.95	8.62	8.02	9.47	7.93	8.49	8.52	8.19

Miyazaki, Takumi (JPN) (2001)

Yiyazaki, Takumi (JPN) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Japanese National Championships (Osaka, JPN)												Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season					
date	04-Jun-23	time	2.61	3.69	4.76	5.82	6.88	7.96	9.05	10.15	11.27	12.40	13.88	2 / 6			
reaction time	0.157	interval		1.08	1.07	1.06	1.06	1.08	1.09	1.10	1.12	1.13	1.48		3.21	3.23	3.35
wind	-0.9 m/s	velocity	5.26	8.46	8.54	8.62	8.62	8.46	8.39	8.31	8.16	8.09	9.47	7.93	8.54	8.49	8.19

Bacari, Elie (BEL) (2003)

Jacari, Elie (BEL) (2003)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report				
date	08-Jun-24	time	2.53	3.58	4.60	5.63	6.65	7.68	8.75	9.83	10.87	12.00		13.88	2 / ~~8~~	no official time given	
reaction time	0.115	interval	7 steps	1.05	1.02	1.03	1.02	1.03	1.07	1.08	1.04	1.13	1.88	DQ	3.10	3.12	3.25
wind	0.6 m/s	velocity	5.42	8.70	8.96	8.87	8.96	8.87	8.54	8.46	8.79	8.09	7.46	7.93	8.85	8.79	8.44

Williams, Tyson (USA) (2002)

Iliama, Tyson (USA) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)												Henson (2024) - Athlete First: 2024 year end hurdle report					
date	27-Jun-24	time	2.60	3.67	4.77	5.86	6.93	8.00	9.07	10.16	11.26	12.38		13.88	1 / 8		
reaction time		interval	7 steps	1.07	1.10	1.09	1.07	1.07	1.07	1.09	1.10	1.12	1.50		3.26	3.21	3.31
wind	-0.2 m/s	velocity	5.28	8.54	8.31	8.39	8.54	8.54	8.54	8.39	8.31	8.16	9.35	7.93	8.41	8.54	8.28

Yefremov, David (KAZ) (1999)

Safremov, David (KAZ) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2024 Olympic Games (Paris, FRA)														Paris 2024 Olympic Games - Results Book (2024)			
date	04-Aug-24	time	2.44	3.54	4.63	5.69	6.75	7.82	8.91	10.00	11.11	12.23	13.88	4 / 7			
reaction time	0.170	interval	7 steps	1.10	1.09	1.06	1.06	1.07	1.09	1.09	1.11	1.12	1.65		3.25	3.22	3.32
wind	1.2 m/s	velocity	5.62	8.31	8.39	8.62	8.62	8.54	8.39	8.39	8.23	8.16	8.50	7.93	8.44	8.52	8.26

Lee Jung-Joon (KOR) (1984)

Se Jung-Joon (KOR) (1984)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2008 Nambu Chuhei Memorial (Harodate, JPN)									Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles								
date	06-Jul-08	time	2.52	3.61	4.67	5.73	6.78	7.84	8.92	10.01	11.09	12.21	13.89	1			
reaction time		interval		1.09	1.06	1.06	1.05	1.06	1.08	1.09	1.08	1.12	1.68		3.21	3.19	3.29
wind	0.2 m/s	velocity	5.44	8.39	8.62	8.62	8.70	8.62	8.46	8.39	8.46	8.16	8.35	7.92	8.54	8.60	8.33

Moses, Yume (JPN) (1988)

oses, Yume (JPN) (1988)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Japanese National Championships (Hiroshima, JPN)										Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles							
date	27-Jun-09	time	2.64	3.75	4.81	5.87	6.92	7.99	9.07	10.17	11.29	12.41	13.89	6 / 7			
reaction time		interval		1.11	1.06	1.06	1.05	1.07	1.08	1.10	1.12	1.12	1.48		3.23	3.20	3.34

wind	1.6 m/s	velocity	5.20	8.23	8.62	8.62	8.70	8.54	8.46	8.31	8.16	8.16	9.47	7.92		8.49	8.57	8.21
Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2011 Japanese National Championships (Kumagaya, JPN)			<i>Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro</i>															
date	10-Jun-11	time	2.61	3.68	4.74	5.81	6.87	7.95	9.05	10.16	11.29	12.43		13.89	1 / 1			
reaction time	0.177	interval		1.07	1.06	1.07	1.06	1.08	1.10	1.11	1.13	1.14	1.46	PB		3.20	3.24	3.38
wind	0.1 m/s	velocity	5.26	8.54	8.62	8.54	8.62	8.46	8.31	8.23	8.09	8.02	9.60	7.92		8.57	8.46	8.11
Puliček, Tomáš (CZE) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)			<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>															
date	28-Jun-14	time	2.66	3.74	4.80	5.87	6.92	7.99	9.06	10.13	11.22	12.35		13.89	4 / 1			
reaction time	0.177	interval		1.08	1.06	1.07	1.05	1.07	1.07	1.07	1.09	1.13	1.54			3.21	3.19	3.29
wind	-3.7 m/s	velocity	5.16	8.46	8.62	8.54	8.70	8.54	8.54	8.54	8.39	8.09	9.10	7.92		8.54	8.60	8.33
Furuya, Takumu (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2014 Kanto Championships (Sagamihara, JPN)			<i>(2017.03.01) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en</i>															
date	31-Aug-14	time	2.62	3.72	4.80	5.85	6.93	8.00	9.08	10.17	11.28	12.40		13.89	6 / 1			
reaction time		interval		1.10	1.08	1.05	1.08	1.07	1.08	1.09	1.11	1.12	1.49	PB		3.23	3.23	3.32
wind	-0.2 m/s	velocity	5.24	8.31	8.46	8.70	8.46	8.54	8.46	8.39	8.23	8.16	9.41	7.92		8.49	8.49	8.26
Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)			<i>Kota (2016) - race analysis of Japanese top-ranked men 110m and women 100m hurdlers</i>															
date	29-Apr-16	time	2.61	3.68	4.76	5.82	6.91	7.98	9.06	10.16	11.26	12.39		13.89	1 / 3			
reaction time		interval		1.07	1.08	1.06	1.09	1.07	1.08	1.10	1.10	1.13	1.50			3.21	3.24	3.33
wind	-0.5 m/s	velocity	5.26	8.54	8.46	8.62	8.39	8.54	8.46	8.31	8.31	8.09	9.35	7.92		8.54	8.46	8.23
Tanaka, Shinya (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2017 Fuse Sprint (Tottori, JPN)			<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>															
date	04-Jun-17	time	2.63	3.70	4.79	5.85	6.93	8.02	9.10	10.18	11.31	12.42		13.89	1 / 7			
reaction time		interval	7 steps	1.07	1.09	1.06	1.08	1.09	1.08	1.08	1.13	1.11	1.47			3.22	3.25	3.32
wind	1.5 m/s	velocity	5.22	8.54	8.39	8.62	8.46	8.39	8.46	8.46	8.09	8.23	9.54	7.92		8.52	8.44	8.26
Furuya, Kyohei (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2017 Japanese National Championships (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>															
date	24-Jun-17	time	2.63	3.69	4.76	5.83	6.88	7.95	9.06	10.16	11.28	12.43		13.89	9 / 5			
reaction time	0.124	interval		1.06	1.07	1.07	1.05	1.07	1.11	1.10	1.12	1.15	1.46			3.20	3.23	3.37
wind	1.3 m/s	velocity	5.22	8.62	8.54	8.54	8.70	8.54	8.23	8.31	8.16	7.95	9.60	7.92		8.57	8.49	8.14
Li Jiming (CHN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	23-May-19	time	2.66	3.74	4.80	5.88	6.92	8.02	9.08	10.16	11.28	12.40		13.89	6 / 3			
reaction time	0.181	interval		1.08	1.06	1.08	1.04	1.10	1.06	1.08	1.12	1.12	1.49			3.22	3.20	3.32
wind	2.5 m/s	velocity	5.16	8.46	8.62	8.46	8.79	8.31	8.62	8.46	8.16	8.16	9.41	7.92		8.52	8.57	8.26
Fudaba, Hiroki (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Fuse Sprint (Tottori, JPN)			<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>															
date	02-Jun-19	time	2.66	3.75	4.84	5.89	6.96	8.04	9.11	10.20	11.29	12.39		13.89	3 / 7			
reaction time	0.150	interval	7 steps	1.09	1.09	1.05	1.07	1.08	1.07	1.09	1.09	1.10	1.50			3.23	3.22	3.28
wind	1.9 m/s	velocity	5.16	8.39	8.39	8.70	8.54	8.46	8.54	8.39	8.39	8.31	9.35	7.92		8.49	8.52	8.36
Zhang Tao (CHN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	08-Jul-19	time	2.65	3.75	4.82	5.91	6.96	7.99	9.07	10.16	11.26	12.41		13.89	2 / 1			
reaction time	0.158	interval		1.10	1.07	1.09	1.05	1.03	1.08	1.09	1.10	1.15	1.48			3.26	3.16	3.34
wind	-0.5 m/s	velocity	5.18	8.31	8.54	8.39	8.70	8.87	8.46	8.39	8.31	7.95	9.47	7.92		8.41	8.68	8.21
Jiang Fan (CHN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	02-Aug-19	time	2.65	3.74	4.80	5.87	6.92	7.99	9.07	10.16	11.26	12.38		13.89	5 / 4			
reaction time	0.148	interval		1.09	1.06	1.07	1.05	1.07	1.08	1.09	1.10	1.12	1.51			3.22	3.20	3.31
wind	0.0 m/s	velocity	5.18	8.39	8.62	8.54	8.70	8.54	8.46	8.39	8.31	8.16	9.28	7.92		8.52	8.57	8.28
Tokuoka, Ryo (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)			<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>															
date	24-Oct-20	time	2.65	3.73	4.80	5.85	6.93	7.99	9.08	10.17	11.26	12.39		13.89	3 / 6			
reaction time		interval		1.08	1.07	1.05	1.08	1.06	1.09	1.09	1.09	1.13	1.50			3.20	3.23	3.31
wind	0.6 m/s	velocity	5.18	8.46	8.54	8.70	8.46	8.62	8.39	8.39	8.39	8.09	9.35	7.92		8.57	8.49	8.28
Yang Quanlei (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	24-Apr-21	time	2.64	3.74	4.80	5.88	6.95	8.02	9.11	10.20	11.31	12.43		13.89	6 / 1			
reaction time	0.185	interval		1.10	1.06	1.08	1.07	1.07	1.09	1.09	1.11	1.12	1.46	PB		3.24	3.23	3.32
wind	-0.3 m/s	velocity	5.20	8.31	8.62	8.46	8.54	8.54	8.39	8.39	8.23	8.16	9.60	7.92		8.46	8.49	8.26

Brown, Tai (USA) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>						
date	11-Jun-21	time	2.70	3.77	4.85	5.90	6.93	7.97	9.03	10.07	11.13	12.23	13.89	1 / 9				
reaction time	0.161	interval		1.07	1.08	1.05	1.03	1.04	1.06	1.04	1.06	1.10	1.66		3.20	3.13	3.20	
wind	-0.6 m/s	velocity	5.08	8.54	8.46	8.70	8.87	8.79	8.62	8.79	8.62	8.31	8.45	7.92	8.57	8.76	8.57	
Constantino, Gabriel (BRA) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>						
date	04-Aug-21	time	2.58	3.66	4.71	5.78	6.86	7.95	9.02	10.13	11.26	12.37	13.89	3 / 8				
reaction time	0.159	interval	7 steps	1.08	1.05	1.07	1.08	1.09	1.07	1.11	1.13	1.11	1.52		3.20	3.24	3.35	
wind	0.3 m/s	velocity	5.32	8.46	8.70	8.54	8.46	8.39	8.54	8.23	8.09	8.23	9.22	7.92	8.57	8.46	8.19	
Thomas, Chris (USA) (1981)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2007 USATF National Championships (Indianapolis, IN)												<i>USATF Men's Hurdle Development (2007)</i>						
date	23-Jun-07	time	2.82	3.90	4.99	6.06	7.12	8.19	9.27	10.34	11.43	12.55	13.90	8 / 6				
reaction time		interval		1.08	1.09	1.07	1.06	1.07	1.08	1.07	1.09	1.12	1.35		3.24	3.21	3.28	
wind	-1.9 m/s	velocity	4.87	8.46	8.39	8.54	8.62	8.54	8.46	8.54	8.39	8.16	10.39	7.91	8.46	8.54	8.36	
de Vries, Ruan (RSA) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Windsprint (Sundsvall, SWE)												<i>Blomkvist (2012) - www.sub13.se</i>						
date	17-Jun-12	time	2.71	3.81	4.89	5.97	7.04	8.10	9.17	10.24	11.32	12.41	13.90	6 / 4				
reaction time		interval		1.10	1.08	1.08	1.07	1.06	1.07	1.07	1.08	1.09	1.49		3.26	3.20	3.24	
wind	1.1 m/s	velocity	5.06	8.31	8.46	8.46	8.54	8.62	8.54	8.54	8.46	8.39	9.41	7.91	8.41	8.57	8.46	
Sato, Hiroyuki (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2013 Mikio Oda Memorial (Hiroshima, JPN)												<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>						
date	29-Apr-13	time	2.64	3.71	4.78	5.84	6.91	7.98	9.07	10.18	11.29	12.43	13.90	/ 2				
reaction time		interval		1.07	1.07	1.06	1.07	1.07	1.09	1.11	1.11	1.14	1.47		3.20	3.23	3.36	
wind	0.4 m/s	velocity	5.20	8.54	8.54	8.62	8.54	8.54	8.39	8.23	8.23	8.02	9.54	7.91	8.57	8.49	8.16	
Wado, Tatsuya (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Japanese National Championships (Niigata, JPN)												<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>						
date	28-Jun-15	time	2.57	3.65	4.71	5.78	6.85	7.93	9.03	10.11	11.23	12.37	13.90	3 / 5				
reaction time	0.121	interval		1.08	1.06	1.07	1.07	1.08	1.10	1.08	1.12	1.14	1.53		3.21	3.25	3.34	
wind	-1.4 m/s	velocity	5.34	8.46	8.62	8.54	8.54	8.46	8.31	8.46	8.16	8.02	9.16	7.91	8.54	8.44	8.21	
Omuro, Hideki (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Japanese National Championships (Niigata, JPN)												<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>						
date	28-Jun-15	time	2.62	3.70	4.77	5.84	6.94	8.01	9.10	10.21	11.31	12.42	13.90	8 / 6				
reaction time	0.133	interval		1.08	1.07	1.07	1.10	1.07	1.09	1.11	1.10	1.11	1.48		3.22	3.26	3.32	
wind	-1.4 m/s	velocity	5.24	8.46	8.54	8.54	8.31	8.54	8.39	8.23	8.31	8.23	9.47	7.91	8.52	8.41	8.26	
de Oliveira, João Vítor (BRA) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Meeting International Mohammed VI D'Athlétisme (Rabat, MAR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>						
date	22-May-16	time	2.54	3.62	4.68	5.72	6.78	7.82	8.94	10.00	11.10	12.24	13.90	2 / 7				
reaction time	0.101	interval		1.08	1.06	1.04	1.06	1.04	1.12	1.06	1.10	1.14	1.66		3.18	3.22	3.30	
wind	1.4 m/s	velocity	5.40	8.46	8.62	8.79	8.62	8.79	8.16	8.62	8.31	8.02	8.45	7.91	8.62	8.52	8.31	
Perini, Lorenzo (ITA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)												<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>						
date	02-Jun-16	time	2.62	3.70	4.76	5.80	6.88	7.98	9.02	10.18	11.28	12.40	13.90	1 / 7				
reaction time	0.151	interval		1.08	1.06	1.04	1.08	1.10	1.04	1.16	1.10	1.12	1.50		3.18	3.22	3.38	
wind	0.6 m/s	velocity	5.24	8.46	8.62	8.79	8.46	8.31	8.79	7.88	8.31	8.16	9.35	7.91	8.62	8.52	8.11	
Okazaki, Masaki (JPN) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Six College Meeting (Sagamihara, JPN)												<i>(2016.07.18) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>						
date	17-Jul-16	time	2.64	3.72	4.81	5.91	6.98	8.06	9.16	10.26	11.37	12.48	13.90	6 / 1				
reaction time		interval		1.08	1.09	1.10	1.07	1.08	1.10	1.10	1.11	1.11	1.42	PB	3.27	3.25	3.32	
wind	0.3 m/s	velocity	5.20	8.46	8.39	8.31	8.54	8.46	8.31	8.31	8.23	8.23	9.87	7.91	8.39	8.44	8.26	
Hiramatsu, Papdamba (JPN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Kanto Student Championships (Sagamihara, JPN)												<i>(2016.09.17) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>						
date	17-Sep-16	time	2.64	3.74	4.84	5.90	6.95	8.04	9.13	10.20	11.30	12.42	13.90	6 / 2				
reaction time		interval	7 steps	1.10	1.10	1.06	1.05	1.09	1.09	1.07	1.10	1.12	1.48		3.26	3.23	3.29	
wind	3.2 m/s	velocity	5.20	8.31	8.31	8.62	8.70	8.39	8.39	8.54	8.31	8.16	9.47	7.91	8.41	8.49	8.33	
Zeng Jianhang (CHN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 4th Leg - 2019 IAAF World Relays - Shuttle Hurdle Relay (Yokohama, JPN)												<i>CAA Hurdle Development (2019)</i>						
date	11-May-19	time	2.50	3.58	4.68	5.78	6.88	7.97	9.04	10.17	11.27	12.41	13.90	4 / 3				
reaction time		interval		1.08	1.10	1.10	1.10	1.09	1.07	1.13	1.10	1.14	1.49		3.28	3.26	3.37	
wind	na	velocity	5.49	8.46	8.31	8.31	8.31	8.39	8.54	8.09	8.31	8.02	9.41	7.91	57.54	8.36	8.41	8.14

Ogata, Akihiro (JPN) (1993)																
FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)																
date	07-Jun-19	time	2.66	3.75	4.80	5.87	6.92	7.98	9.07	10.16	11.27	12.41		13.90	Lane / Place	6 / 5
reaction time	0.201	interval	7 steps	1.09	1.05	1.07	1.05	1.06	1.09	1.09	1.11	1.14	1.49			3.21 3.20 3.34
wind	1.2 m/s	velocity	5.16	8.39	8.70	8.54	8.70	8.62	8.39	8.39	8.23	8.02	9.41	7.91		8.54 8.57 8.21
Zhu Shenglong (CHN) (2000)																
FINAL - 2019 Chinese National Championships (Shenyang, CHN)																
date	08-Jul-19	time	2.72	3.80	4.87	5.92	6.99	8.04	9.09	10.18	11.29	12.40		13.90	Lane / Place	2 / 4
reaction time	0.170	interval		1.08	1.07	1.05	1.07	1.05	1.05	1.09	1.11	1.11	1.50	PB		3.20 3.17 3.31
wind	0.1 m/s	velocity	5.04	8.46	8.54	8.70	8.54	8.70	8.70	8.39	8.23	8.23	9.35	7.91		8.57 8.65 8.28
Guo Zhongjie (CHN) (2001)																
U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)																
date	14-Aug-19	time	2.60	3.68	4.75	5.77	6.81	7.86	8.92	10.03	11.11	12.26		13.90	Lane / Place	4 / 2
reaction time	0.211	interval		1.08	1.07	1.02	1.04	1.05	1.06	1.11	1.08	1.15	1.64			3.17 3.15 3.34
wind	0.5 m/s	velocity	5.28	8.46	8.54	8.96	8.79	8.70	8.62	8.23	8.46	7.95	8.55	7.91		8.65 8.70 8.21
Ishida Thomas, Higashi (JPN) (1997)																
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)																
date	24-Oct-20	time	2.62	3.71	4.76	5.83	6.89	7.95	9.01	10.14	11.24	12.38		13.90	Lane / Place	9 / 7
reaction time		interval	7 steps	1.09	1.05	1.07	1.06	1.06	1.06	1.13	1.10	1.14	1.52			3.21 3.18 3.37
wind	0.6 m/s	velocity	5.24	8.39	8.70	8.54	8.62	8.62	8.09	8.31	8.02	8.02	9.22	7.91		8.54 8.62 8.14
Zhang Honglin (CHN) (1994)																
Heat 2 - 2021 National Grand Prix (Chengdu, CHN)																
date	02-Apr-21	time	2.62	3.72	4.78	5.88	6.94	8.02	9.10	10.18	11.28	12.38		13.90	Lane / Place	6 / 1
reaction time	0.172	interval		1.10	1.06	1.10	1.06	1.08	1.08	1.08	1.10	1.10	1.52			3.26 3.22 3.28
wind	0.3 m/s	velocity	5.24	8.31	8.62	8.31	8.62	8.46	8.46	8.46	8.31	8.31	9.22	7.91		8.41 8.52 8.36
Yang Quanlei (CHN) (1999)																
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)																
date	08-Apr-21	time	2.64	3.76	4.84	5.92	7.00	8.08	9.18	10.26	11.36	12.44		13.90	Lane / Place	4 / 2
reaction time		interval		1.12	1.08	1.08	1.08	1.08	1.10	1.08	1.10	1.08	1.46	PB		3.28 3.26 3.26
wind	-0.1 m/s	velocity	5.20	8.16	8.46	8.46	8.46	8.46	8.31	8.46	8.31	8.46	9.60	7.91		8.36 8.41 8.41
Mayer, Kevin (FRA) (1992)																
Decathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	05-Aug-21	time	2.62	3.70	4.73	5.80	6.87	7.98	9.03	10.14	11.28	12.40		13.90	Lane / Place	3 / 1
reaction time	0.137	interval	7 steps	1.08	1.03	1.07	1.07	1.11	1.05	1.11	1.14	1.12	1.50			3.18 3.23 3.37
wind	0.1 m/s	velocity	5.24	8.46	8.87	8.54	8.54	8.23	8.70	8.23	8.02	8.16	9.35	7.91		8.62 8.49 8.14
Fillery, Cameron (GBR) (1998)																
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)																
date	21-May-22	time	2.57	3.67	4.73	5.79	6.88	7.93	8.98	10.08	11.17	12.28		13.90	Lane / Place	9 / 9
reaction time	0.126	interval	7 steps	1.10	1.06	1.06	1.09	1.05	1.05	1.10	1.09	1.11	1.62			3.22 3.19 3.30
wind	0.7 m/s	velocity	5.34	8.31	8.62	8.62	8.39	8.70	8.70	8.31	8.39	8.23	8.65	7.91		8.52 8.60 8.31
Roberts, Daniel (USA) (1998)																
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)																
date	16-Jul-23	time	2.33	3.39	4.43	5.45	6.48	7.50	8.57	9.73	10.92	12.10		13.90	Lane / Place	6 / 7
reaction time	0.159	interval		1.06	1.04	1.02	1.03	1.02	1.07	1.16	1.19	1.18	1.80			3.12 3.12 3.53
wind	0.3 m/s	velocity	5.89	8.62	8.79	8.96	8.87	8.96	8.54	7.88	7.68	7.75	7.79	7.91		8.79 8.79 7.77
Edwards, Eric (USA) (2000)																
FINAL - 2025 Yangtze River Delta Athletics Diamond Gala (Keqiao, CHN)																
date	03-May-25	time	2.44	3.54	4.61	5.65	6.69	7.76	8.83	9.89	10.97	12.11		13.90	Lane / Place	9 / 9
reaction time	0.142	interval		1.10	1.07	1.04	1.04	1.07	1.07	1.06	1.08	1.14	1.79			3.21 3.18 3.28
wind	0.6 m/s	velocity	5.62	8.31	8.54	8.79	8.79	8.54	8.54	8.62	8.46	8.02	7.83	7.91		8.54 8.62 8.36
Ridgeon, Jon (GBR) (1967)																
FINAL - 1986 IAAF World Junior Championships (Athens, GRE) (1.07m)																
date	19-Jul-86	time	2.62	3.73	4.79	5.89	6.93	8.04	9.14	10.24	11.33	12.49		13.91	Lane / Place	1 / 2
reaction time		interval		1.11	1.06	1.10	1.04	1.11	1.10	1.10	1.09	1.16	1.42			3.27 3.25 3.35
wind	-0.8 m/s	velocity	5.24	8.23	8.62	8.31	8.79	8.23	8.31	8.31	8.39	7.88	9.87	7.91		8.39 8.44 8.19
Yahata, Kenji (JPN) (1980)																
Heat 4 - 2009 Japanese National Championships (Hiroshima, JPN)																
date	26-Jun-09	time	2.44	3.52	4.60	5.66	6.73	7.81	8.91	10.01	11.11	12.23		13.91	Lane / Place	3 / 1
reaction time		interval		1.08	1.08	1.06	1.07	1.08	1.10	1.10	1.10	1.12	1.68			3.22 3.25 3.32
wind	0.3 m/s	velocity	5.62	8.46	8.46	8.62	8.54	8.46	8.31	8.31	8.31	8.16	8.35	7.91		8.52 8.44 8.26
Hudson, Matt (GBR) (1988)																

FINAL - 2010 Windsprint (Sundsvall, SWE)Blomkvist (2010) - www.sub13.se

date	08-Aug-10	time	2.63	3.72	4.79	5.84	6.90	7.96	9.05	10.15	11.26	12.40		13.91				
reaction time		interval		1.09	1.07	1.05	1.06	1.06	1.09	1.10	1.11	1.14	1.51			3.21	3.21	3.35
wind	1.1 m/s	velocity	5.22	8.39	8.54	8.70	8.62	8.62	8.39	8.31	8.23	8.02	9.28	7.91		8.54	8.54	8.19

Kanai, Nao (JPN) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2015 Japanese National Junior Championships (Nagoya, JPN) (0.99)

Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015 competitions

date	16-Oct-15	time	2.65	3.74	4.81	5.89	6.97	8.04	9.12	10.22	11.32	12.45		13.91		5 / 2		
reaction time		interval		1.09	1.07	1.08	1.08	1.07	1.08	1.10	1.10	1.13	1.46			3.24	3.23	3.33
wind	0.1 m/s	velocity	5.18	8.39	8.54	8.46	8.46	8.54	8.46	8.31	8.31	8.09	9.60	7.91		8.46	8.49	8.23

Kuriki, Anthony Tyrell (JPN) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 2 - 2016 Japanese University Championships (Kumagaya, JPN)(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	04-Sep-16	time	2.65	3.75	4.83	5.91	6.99	8.09	9.19	10.27	11.37	12.48		13.91		5 / 1		
reaction time	0.135	interval	7 steps	1.10	1.08	1.08	1.08	1.10	1.10	1.08	1.10	1.11	1.43			3.26	3.28	3.29
wind	0.7 m/s	velocity	5.18	8.31	8.46	8.46	8.46	8.31	8.31	8.46	8.31	8.23	9.80	7.91		8.41	8.36	8.33

Nomoto, Syuusei (JPN) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2017 Tokyo Six School Meeting (Tokyo, JPN)(2017) - tfdata-store.com/2017/04/10/post-342/

date	08-Apr-17	time	2.63	3.72	4.80	5.89	6.97	8.05	9.14	10.22	11.35	12.47		13.91		5 / 2		
reaction time		interval	7 steps	1.09	1.08	1.09	1.08	1.08	1.09	1.08	1.13	1.12	1.44	PB		3.26	3.25	3.33
wind	0.8 m/s	velocity	5.22	8.39	8.46	8.39	8.46	8.46	8.39	8.46	8.09	8.16	9.74	7.91		8.41	8.44	8.23

Wado, Tatsuya (JPN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2017 Japanese National Championships (Osaka, JPN)(2017) - tfdata-store.com/2017/07/13/post-1040/

date	24-Jun-17	time	2.63	3.74	4.80	5.88	6.95	8.01	9.09	10.18	11.28	12.40		13.91		8 / 6		
reaction time	0.158	interval		1.11	1.06	1.08	1.07	1.06	1.08	1.09	1.10	1.12	1.51			3.25	3.21	3.31
wind	1.3 m/s	velocity	5.22	8.23	8.62	8.46	8.54	8.62	8.46	8.39	8.31	8.16	9.28	7.91		8.44	8.54	8.28

Kagimoto, Masahiro (JPN) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)

Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season

date	06-May-18	time	2.65	3.72	4.80	5.86	6.94	8.00	9.10	10.20	11.33	12.47		13.91		8 / 4		
reaction time		interval		1.07	1.08	1.06	1.08	1.06	1.10	1.10	1.13	1.14	1.44			3.21	3.24	3.37
wind	1.6 m/s	velocity	5.18	8.54	8.46	8.62	8.46	8.62	8.31	8.31	8.09	8.02	9.74	7.91		8.54	8.46	8.14

Wado, Tatsuya (JPN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)

Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season

date	24-Jun-18	time	2.55	3.64	4.70	5.74	6.83	7.92	9.01	10.13	11.26	12.40		13.91		2 / 8		
reaction time	0.117	interval		1.09	1.06	1.04	1.09	1.09	1.09	1.12	1.13	1.14	1.51			3.19	3.27	3.39
wind	0.7 m/s	velocity	5.38	8.39	8.62	8.79	8.39	8.39	8.39	8.16	8.09	8.02	9.28	7.91		8.60	8.39	8.09

Ma Lei (CHN) (1989)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)

CAA Hurdle Development (2019)

date	23-May-19	time	2.68	3.78	4.86	5.92	6.98	8.06	9.14	10.22	11.32	12.42		13.91		4 / 4		
reaction time	0.158	interval	7 steps	1.10	1.08	1.06	1.06	1.08	1.08	1.10	1.10	1.10	1.49			3.24	3.22	3.28
wind	2.5 m/s	velocity	5.12	8.31	8.46	8.62	8.62	8.46	8.46	8.46	8.31	8.31	9.41	7.91		8.46	8.52	8.36

Efremov, David (KAZ) (1999)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)

CAA Hurdle Development (2019)

date	04-Jun-19	time	2.65	3.70	4.77	5.79	6.87	7.95	9.05	10.16	11.26	12.39		13.91		9 / 4		
reaction time	0.174	interval	7 steps	1.05	1.07	1.02	1.08	1.08	1.10	1.11	1.10	1.13	1.52			3.14	3.26	3.34
wind	-0.3 m/s	velocity	5.18	8.70	8.54	8.96	8.46	8.46	8.31	8.23	8.31	8.09	9.22	7.91		8.73	8.41	8.21

Ji Haohao (CHN) (2001)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)

CAA Hurdle Development (2019)

date	14-Aug-19	time	2.56	3.64	4.71	5.77	6.82	7.88	8.96	10.05	11.16	12.28		13.91		6 / 3		
reaction time	0.168	interval		1.08	1.07	1.06	1.05	1.06	1.08	1.09	1.11	1.12	1.63			3.21	3.19	3.32
wind	0.5 m/s	velocity	5.36	8.46	8.54	8.62	8.70	8.62	8.46	8.39	8.23	8.16	8.60	7.91		8.54	8.60	8.26

Zhu Shenglong (CHN) (2000)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 East China District Meeting (Zhaoqing, CHN)

CAA Hurdle Development (2021)

date	24-Apr-21	time	2.64	3.70	4.76	5.82	6.88	7.96	9.03	10.12	11.24	12.38		13.91		3 / 2		
reaction time	0.165	interval		1.06	1.06	1.06	1.06	1.08	1.07	1.09	1.12	1.14	1.53			3.18	3.21	3.35
wind	-0.3 m/s	velocity	5.20	8.62	8.62	8.62	8.62	8.46	8.54	8.39	8.16	8.02	9.16	7.91		8.62	8.54	8.19

Sun Zhenjiang (CHN) (1999)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.58	3.66	4.72	5.79	6.85	7.91	9.00	10.09	11.21	12.33		13.91		4 / 1		
reaction time	0.150	interval	7 steps	1.08	1.06	1.07	1.06	1.06	1.09	1.09	1.12	1.12	1.58			3.21	3.21	3.33
wind	-1.0 m/s	velocity	5.32	8.46	8.62	8.54	8.62	8.62	8.39	8.39	8.16	8.16	8.87	7.91		8.54	8.54	8.23

Zhang Honglin (CHN) (1994)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date		time																
reaction time		interval																
wind		velocity																

date	25-Jun-21	time	2.60	3.68	4.75	5.81	6.87	7.94	8.99	10.09	11.21	12.36		13.91	5 / 1				
reaction time	0.156	interval		1.08	1.07	1.06	1.06	1.07	1.05	1.10	1.12	1.15	1.55				3.21	3.18	3.37
wind	0.5 m/s	velocity	5.28	8.46	8.54	8.62	8.62	8.54	8.70	8.31	8.16	7.95	9.05	7.91			8.54	8.62	8.14
Guo Zhongjie (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Chinese National Championships (Chongqing, CHN)			CAA Hurdle Development (2021)																
date	25-Jun-21	time	2.70	3.78	4.85	5.89	6.97	8.04	9.12	10.21	11.31	12.44		13.91	6 / 5				
reaction time	0.182	interval		1.08	1.07	1.04	1.08	1.07	1.08	1.09	1.10	1.13	1.47	PB			3.19	3.23	3.32
wind	1.6 m/s	velocity	5.08	8.46	8.54	8.79	8.46	8.54	8.46	8.39	8.31	8.09	9.54	7.91			8.60	8.49	8.26
Cuypers, Alain (BEL) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)			Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988																
date	26-Sep-88	time	2.69	3.80	4.86	5.95	7.01	8.09	9.16	10.29	11.38	12.50		13.92	8 / 7				
reaction time	0.169	interval		1.11	1.06	1.09	1.06	1.08	1.07	1.13	1.09	1.12	1.42				3.26	3.21	3.34
wind	0.0 m/s	velocity	5.10	8.23	8.62	8.39	8.62	8.46	8.54	8.09	8.39	8.16	9.87	7.90			8.41	8.54	8.21
Mita, Kyohei (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2012 Japanese National Championships (Osaka, JPN)			Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13																
date	09-Jun-12	time	2.68	3.78	4.89	5.97	7.04	8.11	9.20	10.28	11.38	12.49		13.92	6 / 4				
reaction time		interval		1.10	1.11	1.08	1.07	1.07	1.09	1.08	1.10	1.11	1.43				3.29	3.23	3.29
wind	0.0 m/s	velocity	5.12	8.31	8.23	8.46	8.54	8.54	8.39	8.46	8.31	8.23	9.80	7.90			8.33	8.49	8.33
Mita, Kyohei (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Japanese National Championships (Osaka, JPN)			Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13																
date	10-Jun-12	time	2.67	3.78	4.86	5.94	7.02	8.10	9.18	10.27	11.38	12.47		13.92	2 / 4				
reaction time		interval		1.11	1.08	1.08	1.08	1.08	1.08	1.09	1.11	1.09	1.45				3.27	3.24	3.29
wind	-0.6 m/s	velocity	5.14	8.23	8.46	8.46	8.46	8.46	8.46	8.39	8.23	8.39	9.67	7.90			8.39	8.46	8.33
Mita, Kyohei (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 Mikio Oda Memorial (Hiroshima, JPN)			Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13																
date	29-Apr-13	time	2.70	3.80	4.90	5.97	7.03	8.11	9.19	10.28	11.39	12.48		13.92	1 / 5				
reaction time		interval		1.10	1.10	1.07	1.06	1.08	1.08	1.09	1.11	1.09	1.44				3.27	3.22	3.29
wind	0.7 m/s	velocity	5.08	8.31	8.31	8.54	8.62	8.46	8.46	8.39	8.23	8.39	9.74	7.90			8.39	8.52	8.33
Furuya, Takumu (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)			Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers																
date	29-Apr-16	time	2.67	3.75	4.84	5.90	6.96	8.03	9.12	10.21	11.32	12.44		13.92	1 / 4				
reaction time		interval		1.08	1.09	1.06	1.06	1.07	1.09	1.09	1.11	1.12	1.48				3.23	3.22	3.32
wind	-0.5 m/s	velocity	5.14	8.46	8.39	8.62	8.62	8.54	8.39	8.39	8.23	8.16	9.47	7.90			8.49	8.52	8.26
Fujii, Ryota (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2017 Japanese National Championships (Osaka, JPN)			(2017) - tfdata-store.com/2017/07/13/post-1040/																
date	24-Jun-17	time	2.64	3.73	4.80	5.88	6.95	8.01	9.13	10.24	11.34	12.47		13.92	1 / 4				
reaction time	0.138	interval		1.09	1.07	1.08	1.07	1.06	1.12	1.11	1.10	1.13	1.45	=PB			3.24	3.25	3.34
wind	0.0 m/s	velocity	5.20	8.39	8.54	8.46	8.54	8.62	8.16	8.23	8.31	8.09	9.67	7.90			8.46	8.44	8.21
Tanaka, Shinya (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Japanese National Championships (Osaka, JPN)			(2017) - tfdata-store.com/2017/07/13/post-1040/																
date	25-Jun-17	time	2.61	3.69	4.75	5.80	6.86	7.93	9.00	10.11	11.22	12.37		13.92	9 / 8				
reaction time	0.141	interval	7 steps	1.08	1.06	1.05	1.06	1.07	1.07	1.11	1.11	1.15	1.55				3.19	3.20	3.37
wind	-0.2 m/s	velocity	5.26	8.46	8.62	8.70	8.62	8.54	8.54	8.23	8.23	7.95	9.05	7.90			8.60	8.57	8.14
Zhang Tao (CHN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 National Grand Prix Final (Guiyang, CHN) (Altitude)			Zhang (2019) - comparative analysis characteristics Chinese elite men's 110m hurdles in different age groups																
date	17-Jun-18	time	2.71	3.78	4.86	5.91	6.99	8.05	9.14	10.21	11.32	12.41		13.92	6 / 2				
reaction time		interval		1.07	1.08	1.05	1.08	1.06	1.09	1.07	1.11	1.09	1.51				3.20	3.23	3.27
wind	-0.3 m/s	velocity	5.06	8.54	8.46	8.70	8.46	8.62	8.39	8.54	8.23	8.39	9.28	7.90			8.57	8.49	8.39
Kuriki, Anthony Tyrell (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)			Yamanaka (2019) - research on athlete performance and technique- 2019 data book																
date	30-Jun-19	time	2.64	3.74	4.79	5.87	6.94	8.01	9.10	10.20	11.30	12.42		13.92	3 / 5				
reaction time	0.136	interval	7 steps	1.10	1.05	1.08	1.07	1.07	1.09	1.10	1.10	1.12	1.50				3.23	3.23	3.32
wind	-0.6 m/s	velocity	5.20	8.31	8.70	8.46	8.54	8.54	8.39	8.31	8.31	8.16	9.35	7.90			8.49	8.49	8.26
Kuriki, Anthony Tyrell (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)			Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season																
date	20-Sep-20	time	2.68	3.77	4.85	5.92	6.97	8.05	9.11	10.20	11.30	12.43		13.92	9 / 4				
reaction time	0.130	interval		1.09	1.08	1.07	1.05	1.08	1.06	1.09	1.10	1.13	1.49				3.24	3.19	3.32
wind	0.1 m/s	velocity	5.12	8.39	8.46	8.54	8.70	8.46	8.62	8.39	8.31	8.09	9.41	7.90			8.46	8.60	8.26
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)			Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season																
date	20-Sep-20	time	2.60	3.68	4.74	5.82	6.89	7.98	9.07	10.18	11.30	12.44		13.92	8 / 4				

reaction time	0.142	interval	1.08	1.06	1.08	1.07	1.09	1.09	1.11	1.12	1.14	1.48			3.22	3.25	3.37
wind	0.1 m/s	velocity	5.28	8.46	8.62	8.46	8.54	8.39	8.39	8.23	8.16	8.02	9.47	7.90	8.52	8.44	8.14

Takayama, Shunya (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)																		
date	29-Apr-22	time	2.59	3.67	4.75	5.82	6.90	7.98	9.07	10.18	11.31	12.43		13.92	7 / 4			
reaction time	0.165	interval		1.08	1.08	1.07	1.08	1.08	1.09	1.11	1.13	1.12	1.49			3.23	3.25	3.36
wind	-1.5 m/s	velocity	5.30	8.46	8.46	8.54	8.46	8.46	8.39	8.23	8.09	8.16	9.41	7.90		8.49	8.44	8.16

Golubovic, Daniel (AUS) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																		
date	24-Jul-22	time	2.66	3.76	4.83	5.93	6.96	8.03	9.12	10.20	11.26	12.40		13.92	6 / 3			
reaction time	0.150	interval		1.10	1.07	1.10	1.03	1.07	1.09	1.08	1.06	1.14	1.52	PB		3.27	3.19	3.28
wind	1.1 m/s	velocity	5.16	8.31	8.54	8.31	8.87	8.54	8.39	8.46	8.62	8.02	9.22	7.90		8.39	8.60	8.36

Mayer, Kevin (FRA) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																		
date	24-Jul-22	time	2.60	3.68	4.76	5.83	6.92	8.01	9.12	10.22	11.30	12.44		13.92	4 / 4			
reaction time	0.129	interval		1.08	1.08	1.07	1.09	1.09	1.11	1.10	1.08	1.14	1.48			3.23	3.29	3.32
wind	1.1 m/s	velocity	5.28	8.46	8.46	8.54	8.39	8.39	8.23	8.31	8.46	8.02	9.47	7.90		8.49	8.33	8.26

Chervanyev, Yuriy (URS) (1958)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1981 USSR vs. GDR (Tbilisi, URS)																		
date	26-Jun-81	time	2.49	3.62	4.71	5.73	6.75	7.82	8.96	10.12	11.30	12.56		13.93	1 / 3			
reaction time		interval		1.13	1.09	1.02	1.02	1.07	1.14	1.16	1.18	1.26	1.37			3.24	3.23	3.60
wind	???	velocity	5.51	8.09	8.39	8.96	8.96	8.54	8.02	7.88	7.75	7.25	10.23	7.90		8.46	8.49	7.62

Furuya, Takumu (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)																		
date	03-May-15	time	2.63	3.74	4.82	5.91	6.99	8.07	9.16	10.26	11.36	12.48		13.93	1 / 2			
reaction time		interval		1.11	1.08	1.09	1.08	1.08	1.09	1.10	1.10	1.12	1.45			3.28	3.25	3.32
wind	-0.8 m/s	velocity	5.22	8.23	8.46	8.39	8.46	8.46	8.39	8.31	8.31	8.16	9.67	7.90		8.36	8.44	8.26

Nishizawa, Masanori (JPN) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Japanese National Championships (Niigata, JPN)																		
date	28-Jun-15	time	2.66	3.76	4.85	5.94	7.02	8.10	9.19	10.29	11.40	12.51		13.93	2 / 7			
reaction time	0.121	interval		1.10	1.09	1.09	1.08	1.08	1.09	1.10	1.11	1.11	1.42			3.28	3.25	3.32
wind	-1.4 m/s	velocity	5.16	8.31	8.39	8.39	8.46	8.46	8.39	8.31	8.23	8.23	9.87	7.90		8.36	8.44	8.26

Kanai, Taio (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2016 Japanese University Championships (Kumagaya, JPN)																		
date	04-Sep-16	time	2.62	3.70	4.78	5.85	6.94	8.03	9.14	10.26	11.36	12.49		13.93	4 / 2			
reaction time	0.135	interval	7 steps	1.08	1.08	1.07	1.09	1.09	1.11	1.12	1.10	1.13	1.44			3.23	3.29	3.35
wind	0.7 m/s	velocity	5.24	8.46	8.46	8.54	8.39	8.39	8.23	8.16	8.31	8.09	9.74	7.90		8.49	8.33	8.19

Furuya, Takumu (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2016 Japanese University Championships (Kumagaya, JPN)																		
date	04-Sep-16	time	2.65	3.75	4.83	5.92	7.00	8.09	9.17	10.27	11.37	12.48		13.93	6 / 3			
reaction time	0.143	interval		1.10	1.08	1.09	1.08	1.09	1.08	1.10	1.10	1.11	1.45			3.27	3.25	3.31
wind	0.7 m/s	velocity	5.18	8.31	8.46	8.39	8.46	8.39	8.46	8.31	8.31	8.23	9.67	7.90		8.39	8.44	8.28

Wado, Tatsuya (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)																		
date	07-May-17	time	2.61	3.69	4.75	5.82	6.91	7.98	9.07	10.19	11.32	12.45		13.93	3 / 5			
reaction time		interval		1.08	1.06	1.07	1.09	1.07	1.09	1.12	1.13	1.13	1.48			3.21	3.25	3.38
wind	-1.5 m/s	velocity	5.26	8.46	8.62	8.54	8.39	8.54	8.39	8.16	8.09	8.09	9.47	7.90		8.54	8.44	8.11

Kagimoto, Masahiro (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)																		
date	11-May-17	time	2.64	3.72	4.81	5.89	6.98	8.06	9.15	10.25	11.35	12.48		13.93	7 / 1			
reaction time		interval		1.08	1.09	1.08	1.09	1.08	1.09	1.10	1.10	1.13	1.45			3.25	3.26	3.33
wind	1.6 m/s	velocity	5.20	8.46	8.39	8.46	8.39	8.46	8.39	8.31	8.31	8.09	9.67	7.90		8.44	8.41	8.23

Hiramatsu, Papdamba (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2017 Japanese National Championships (Osaka, JPN)																		
date	24-Jun-17	time	2.63	3.72	4.81	5.86	6.93	8.01	9.10	10.19	11.30	12.44		13.93	2 / 7			
reaction time	0.168	interval	7 steps	1.09	1.09	1.05	1.07	1.08	1.09	1.09	1.11	1.14	1.49			3.23	3.24	3.34
wind	1.3 m/s	velocity	5.22	8.39	8.39	8.70	8.54	8.46	8.39	8.39	8.23	8.02	9.41	7.90		8.49	8.46	8.21

Baba, Kazuki (JPN) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2017 Japanese National Championships (Osaka, JPN)																		
date	24-Jun-17	time	2.67	3.77	4.83	5.88	6.97	8.06	9.15	10.27	11.39	12.53		13.93	4 / 5			
reaction time	0.136	interval		1.10	1.06	1.05	1.09	1.09	1.09	1.12	1.12	1.14	1.40	PB		3.21	3.27	3.38

wind	0.0 m/s	velocity	5.14	8.31	8.62	8.70	8.39	8.39	8.39	8.16	8.16	8.02	10.01	7.90		8.54	8.39	8.11
Kagimoto, Masahiro (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2017 Japanese National Championships (Osaka, JPN)			(2017) - tfdata-store.com/2017/07/13/post-1040/															
date	24-Jun-17	time	2.64	3.72	4.79	5.88	6.95	8.03	9.11	10.21	11.33	12.45		13.93	8 / 6			
reaction time	0.144	interval		1.08	1.07	1.09	1.07	1.08	1.08	1.10	1.12	1.12	1.48			3.24	3.23	3.34
wind	0.3 m/s	velocity	5.20	8.46	8.54	8.39	8.54	8.46	8.46	8.31	8.16	8.16	9.47	7.90		8.46	8.49	8.21
Kagimoto, Masahiro (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Fuse Sprint (Tottori, JPN)			Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season															
date	03-Jun-18	time	2.65	3.74	4.80	5.86	6.93	8.02	9.11	10.23	11.33	12.46		13.93	/ 6			
reaction time		interval		1.09	1.06	1.06	1.07	1.09	1.09	1.12	1.10	1.13	1.47			3.21	3.25	3.35
wind	0.5 m/s	velocity	5.18	8.39	8.62	8.62	8.54	8.39	8.39	8.16	8.31	8.09	9.54	7.90		8.54	8.44	8.19
Ma Lei (CHN) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 National Grand Prix Final (Guiyang, CHN) (Altitude)			Zhang (2019) - comparative analysis characteristics Chinese elite men's 110m hurdles in different age groups															
date	17-Jun-18	time	2.69	3.78	4.84	5.91	6.98	8.04	9.13	10.21	11.32	12.45		13.93	8 / 3			
reaction time		interval	7 steps	1.09	1.06	1.07	1.07	1.06	1.09	1.08	1.11	1.13	1.48			3.22	3.22	3.32
wind	-0.3 m/s	velocity	5.10	8.39	8.62	8.54	8.54	8.62	8.39	8.46	8.23	8.09	9.47	7.90		8.52	8.52	8.26
Guo Zhongjie (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Chinese National Sports School Championships (Jinjiang, CHN) (91.4cm)			Zhang (2019) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups															
date	??	time	2.72	3.80	4.85	5.91	6.96	8.01	9.06	10.11	11.23	12.35		13.93	7 / ??			
reaction time		interval		1.08	1.05	1.06	1.05	1.05	1.05	1.12	1.12	1.58				3.19	3.15	3.29
wind	??	velocity	5.04	8.46	8.70	8.62	8.70	8.70	8.70	8.70	8.16	8.16	8.87	7.90		8.60	8.70	8.33
Xi Xianxuan (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Chinese National Sports School Championships (Jinjiang, CHN) (91.4cm)			Zhang (2019) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups															
date	??	time	2.74	3.84	4.90	5.96	7.01	8.05	9.14	10.22	11.33	12.42		13.93	9 / ??			
reaction time		interval		1.10	1.06	1.06	1.05	1.04	1.09	1.08	1.11	1.09	1.51			3.22	3.18	3.28
wind	??	velocity	5.01	8.31	8.62	8.62	8.70	8.79	8.39	8.46	8.23	8.39	9.28	7.90		8.52	8.62	8.36
Shi Guoxing (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Chinese National Championships (Chongqing, CHN)			CAA Hurdle Development (2021)															
date	25-Jun-21	time	2.69	3.77	4.84	5.91	6.99	8.06	9.16	10.24	11.39	12.51		13.93	3 / 6			
reaction time	0.196	interval		1.08	1.07	1.07	1.08	1.07	1.10	1.08	1.15	1.12	1.42	PB		3.22	3.25	3.35
wind	1.6 m/s	velocity	5.10	8.46	8.54	8.54	8.46	8.54	8.31	8.46	7.95	8.16	9.87	7.90		8.52	8.44	8.19
Koike, Ryo (JPN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)			Shibayama (2021) - national high school and U20 national championships															
date	01-Aug-21	time	2.65	3.78	4.88	5.93	7.00	8.08	9.15	10.24	11.35	12.45		13.93	5 / 2			
reaction time	0.147	interval	7 steps	1.13	1.10	1.05	1.07	1.08	1.07	1.09	1.11	1.10	1.48	=PB		3.28	3.22	3.30
wind	1.4 m/s	velocity	5.18	8.09	8.31	8.70	8.54	8.46	8.54	8.39	8.23	8.31	9.47	7.90		8.36	8.52	8.31
Garland, Kyle (USA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			Henson (2024) - Athlete First: 2023 year end hurdle report															
date	26-Aug-23	time	2.62	3.68	4.78	5.86	6.96	8.03	9.10	10.22	11.28	12.42		13.93	5 / 3			
reaction time	0.137	interval	7 steps	1.06	1.10	1.08	1.10	1.07	1.07	1.12	1.06	1.14	1.51			3.24	3.24	3.32
wind	0.2 m/s	velocity	5.24	8.62	8.31	8.46	8.31	8.54	8.54	8.16	8.62	8.02	9.28	7.90		8.46	8.46	8.26
Koike, Ryo (JPN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2024 Mikio Oda Memorial (Hiroshima, JPN)			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date	29-Apr-24	time	2.75	3.84	4.89	5.94	6.99	8.05	9.11	10.19	11.30	12.41		13.93	8 / 4			
reaction time	0.196	interval	7 steps	1.09	1.05	1.05	1.05	1.06	1.06	1.08	1.11	1.11	1.52			3.19	3.17	3.30
wind	-0.7 m/s	velocity	4.99	8.39	8.70	8.70	8.70	8.62	8.62	8.46	8.23	8.23	9.22	7.90		8.60	8.65	8.31
Myasnikov, Viktor (URS) (1948)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1975 International "Pravda" Sportfest (Sotschi, URS)			Artyshchenko (1977) - zwischen den hürden geht es um die sekunde, teil 1															
date	30-May-75	time	2.4	3.5	4.6	5.7	6.8	7.8	8.9	9.9	11.0	12.1		13.7	/ 1			
reaction time		interval		1.06	1.10	1.16	1.04	1.04	1.10	1.04	1.04	1.10	1.62			3.32	3.18	3.18
wind	-0.2 m/s	velocity	5.72	8.62	8.31	7.88	8.79	8.79	8.31	8.79	8.79	8.31	8.65	8.03		8.26	8.62	8.62
Dittrich, Thomas (GDR) (1954)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1981 USSR vs. GDR (Tbilisi, URS)			Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies															
date	26-Jun-81	time	2.50	3.65	4.78	5.80	6.82	7.89	9.04	10.19	11.39	12.64		13.94	/ 4			
reaction time		interval		1.15	1.13	1.02	1.02	1.07	1.15	1.15	1.20	1.25	1.30			3.30	3.24	3.60
wind	???	velocity	5.49	7.95	8.09	8.96	8.96	8.54	7.95	7.95	7.62	7.31	10.78	7.89		8.31	8.46	7.62
Yu Zhicheng (CHN) (1963)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)			Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988															
date	26-Sep-88	time	2.62	3.74	4.82	5.88	6.94	8.03	9.11	10.23	11.35	12.47		13.94	7 / 6			
reaction time	0.143	interval		1.12	1.08	1.06	1.06	1.09	1.08	1.12	1.12	1.12	1.47			3.26	3.23	3.36
wind	-0.7 m/s	velocity	5.24	8.16	8.46	8.62	8.62	8.39	8.46	8.16	8.16	8.16	9.54	7.89		8.41	8.49	8.16

Kováč, Igor (TCH) (1969)																
FINAL - 1991 European Cup (Frankfurt, GER)																
date	30-Jun-91	time	2.63	3.72	4.78	5.86	6.92	7.99	9.05	10.14	11.25	12.45		13.94	Lane / Place	15
reaction time		interval		1.09	1.06	1.08	1.06	1.07	1.06	1.09	1.11	1.20	1.49			
wind	-0.9 m/s	velocity	5.22	8.39	8.62	8.46	8.62	8.54	8.62	8.39	8.23	7.62	9.41	7.89		
															3.23	3.19
															8.49	8.60
															8.06	
Nomoto, Hideki (JPN) (1984)																
FINAL - 2009 Osaka Grand Prix (Osaka, JPN)																
date	09-May-09	time	2.61	3.69	4.77	5.83	6.90	7.97	9.05	10.15	11.25	12.37		13.94	Lane / Place	15
reaction time		interval		1.08	1.08	1.06	1.07	1.07	1.08	1.10	1.10	1.12	1.57			
wind	0.2 m/s	velocity	5.26	8.46	8.46	8.62	8.54	8.54	8.46	8.31	8.31	8.16	8.93	7.89		
															3.22	3.22
															8.52	8.52
															8.26	
Shuto, Takayuki (JPN) (1986)																
FINAL - 2009 Nambu Chuhei Memorial (Sapporo, JPN)																
date	09-Jul-09	time	2.73	3.83	4.91	5.99	7.08	8.16	9.25	10.36	11.45	12.57		13.94	Lane / Place	15
reaction time		interval		1.10	1.08	1.08	1.09	1.08	1.09	1.11	1.09	1.12	1.37			
wind	1.2 m/s	velocity	5.03	8.31	8.46	8.46	8.39	8.46	8.39	8.23	8.39	8.16	10.23	7.89		
															3.26	3.26
															8.41	8.41
															8.26	
Inocêncio, Mateus (BRA) (1981)																
FINAL - 2010 Folsam GP (Sollentuna, SWE)																
date	01-Jul-10	time	2.53	3.62	4.69	5.73	6.78	7.85	8.93	10.03	11.14	12.28		13.94	Lane / Place	2 / 5
reaction time		interval		1.09	1.07	1.04	1.05	1.07	1.08	1.10	1.11	1.14	1.66			
wind	0.4 m/s	velocity	5.42	8.39	8.54	8.79	8.70	8.54	8.46	8.31	8.23	8.02	8.45	7.89		
															3.20	3.20
															8.57	8.57
															8.19	
Yazawa, Wataru (JPN) (1991)																
Heat 2 - 2012 Japanese National Championships (Osaka, JPN)																
date	09-Jun-12	time	2.62	3.71	4.77	5.84	6.91	7.99	9.10	10.21	11.32	12.46		13.94	Lane / Place	5 / 2
reaction time		interval		1.09	1.06	1.07	1.07	1.08	1.11	1.11	1.11	1.14	1.48			
wind	-1.1 m/s	velocity	5.24	8.39	8.62	8.54	8.54	8.46	8.23	8.23	8.23	8.02	9.47	7.89		
															3.22	3.26
															8.52	8.41
															8.16	
Omuro, Hideki (JPN) (1990)																
FINAL - 2013 Seiko Golden Grand Prix (Tokyo, JPN)																
date	05-May-13	time	2.66	3.75	4.83	5.93	7.01	8.08	9.17	10.28	11.37	12.50		13.94	Lane / Place	3 / 5
reaction time		interval		1.09	1.08	1.10	1.08	1.07	1.09	1.11	1.09	1.13	1.44			
wind	-1.4 m/s	velocity	5.16	8.39	8.46	8.31	8.46	8.54	8.39	8.23	8.39	8.09	9.74	7.89		
															3.27	3.24
															8.39	8.46
															8.23	
Tanaka, Shinya (JPN) (1993)																
FINAL - 2017 Mito Invitational (Mito, JPN)																
date	05-May-17	time	2.66	3.74	4.83	5.91	7.00	8.09	9.18	10.28	11.35	12.50		13.94	Lane / Place	7 / 2
reaction time		interval		1.08	1.09	1.08	1.09	1.09	1.09	1.10	1.07	1.15	1.44			
wind	-2.3 m/s	velocity	5.16	8.46	8.39	8.46	8.39	8.39	8.39	8.31	8.54	7.95	9.74	7.89		
															3.25	3.27
															8.44	8.39
															8.26	
Furuya, Kyohei (JPN) (1996)																
Semi-Final 2 - 2017 Japanese National Championships (Osaka, JPN)																
date	24-Jun-17	time	2.61	3.69	4.79	5.86	6.94	8.03	9.14	10.26	11.36	12.51		13.94	Lane / Place	3 / 7
reaction time	0.102	interval		1.08	1.10	1.07	1.08	1.09	1.11	1.12	1.10	1.15	1.43			
wind	0.3 m/s	velocity	5.26	8.46	8.31	8.54	8.46	8.39	8.23	8.16	8.31	7.95	9.80	7.89		
															3.25	3.28
															8.44	8.36
															8.14	
Fudaba, Hiroki (JPN) (1994)																
Heat 3 - 2017 Japanese National Championships (Osaka, JPN)																
date	24-Jun-17	time	2.69	3.78	4.85	5.93	6.99	8.08	9.15	10.25	11.36	12.49		13.94	Lane / Place	5 / 3
reaction time	0.165	interval		1.09	1.07	1.08	1.06	1.09	1.07	1.10	1.11	1.13	1.45			
wind	0.5 m/s	velocity	5.10	8.39	8.54	8.46	8.62	8.39	8.54	8.31	8.23	8.09	9.67	7.89		
															3.24	3.22
															8.46	8.52
															8.21	
Zhao Pengchuan (CHN) (1993)																
FINAL - 2017 Chinese National Games (Tianjin, CHN)																
date	03-Sep-17	time	2.63	3.74	4.82	5.89	6.97	8.04	9.12	10.22	11.32	12.46		13.94	Lane / Place	3 / 4
reaction time		interval		1.11	1.08	1.07	1.08	1.07	1.08	1.10	1.10	1.14	1.48			
wind	0.3 m/s	velocity	5.22	8.23	8.46	8.54	8.46	8.54	8.46	8.31	8.31	8.02	9.47	7.89		
															3.26	3.23
															8.41	8.49
															8.21	
Guo Zhongjie (CHN) (2001)																
FINAL - 2018 Chinese National U18 Championships (Jinzhou, CHN) (2019) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups																
date	17-May-18	time	2.67	3.76	4.79	5.83	6.86	7.92	8.97	10.05	11.16	12.31		13.94	Lane / Place	8 / 6
reaction time		interval		1.09	1.03	1.04	1.03	1.06	1.05	1.08	1.11	1.15	1.63			
wind	??	velocity	5.14	8.39	8.87	8.79	8.87	8.62	8.70	8.46	8.23	7.95	8.60	7.89		
															3.16	3.14
															8.68	8.73
															8.21	
Fujii, Ryota (JPN) (1996)																
FINAL - 2019 Kinami Memorial (Osaka, JPN)																
date	06-May-19	time	2.60	3.70	4.78	5.87	6.97	8.05	9.15	10.24	11.35	12.49		13.94	Lane / Place	3 / 7
reaction time		interval		1.10	1.08	1.09	1.10	1.08	1.10	1.09	1.11	1.14	1.45			
wind	0.3 m/s	velocity	5.28	8.31	8.46	8.39	8.31	8.46	8.31	8.39	8.23	8.02	9.67	7.89		
															3.27	3.28
															8.39	8.36
															8.21	

Yang Yuxuan (CHN) (2002)																
FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)																
date	23-May-19	time	2.70	3.82	4.90	5.98	7.06	8.12	9.22	10.30	11.38	12.50		13.94	Lane / Place	8 / 5
reaction time	0.166	interval		1.12	1.08	1.08	1.08	1.06	1.10	1.08	1.08	1.12	1.44			3.28 3.24 3.28
wind	2.5 m/s	velocity	5.08	8.16	8.46	8.46	8.46	8.62	8.31	8.46	8.46	8.16	9.74	7.89		8.36 8.46 8.36
Zhao Pengchuan (CHN) (1993)																
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)																
date	30-May-19	time	2.67	3.77	4.84	5.93	6.99	8.07	9.16	10.26	11.35	12.46		13.94	Lane / Place	6 / 1
reaction time	0.165	interval		1.10	1.07	1.09	1.06	1.08	1.09	1.10	1.09	1.11	1.48			3.26 3.23 3.30
wind	0.0 m/s	velocity	5.14	8.31	8.54	8.39	8.62	8.46	8.39	8.31	8.39	8.23	9.47	7.89		8.41 8.49 8.31
Ogata, Akihiro (JPN) (1993)																
FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)																
date	04-Jun-19	time	2.65	3.73	4.82	5.90	6.95	8.04	9.12	10.22	11.34	12.44		13.94	Lane / Place	5 / 5
reaction time	0.173	interval		1.08	1.09	1.08	1.05	1.09	1.08	1.10	1.12	1.10	1.50			3.25 3.22 3.32
wind	-0.3 m/s	velocity	5.18	8.46	8.39	8.46	8.70	8.39	8.46	8.31	8.16	8.31	9.35	7.89		8.44 8.52 8.26
Xie Wenjun (CHN) (1990)																
Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)																
date	02-Aug-19	time	2.63	3.72	4.80	5.88	6.97	8.06	9.12	10.21	11.31	12.42		13.94	Lane / Place	6 / 1
reaction time	0.175	interval	7 steps	1.09	1.08	1.08	1.09	1.09	1.06	1.09	1.10	1.11	1.52			3.25 3.24 3.30
wind	-0.3 m/s	velocity	5.22	8.39	8.46	8.46	8.39	8.39	8.62	8.39	8.31	8.23	9.22	7.89		8.44 8.46 8.31
Kataoka, Takumi (JPN) (2002)																
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (99cm)																
date	18-Oct-19	time	2.64	3.74	4.82	5.93	6.99	8.07	9.16	10.25	11.34	12.46		13.94	Lane / Place	8 / 3
reaction time	0.115	interval		1.10	1.08	1.11	1.06	1.08	1.09	1.09	1.09	1.12	1.48			3.29 3.23 3.30
wind	-0.4 m/s	velocity	5.20	8.31	8.46	8.23	8.62	8.46	8.39	8.39	8.39	8.16	9.47	7.89		8.33 8.49 8.31
Omuro, Hideki (JPN) (1990)																
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)																
date	24-Oct-20	time	2.61	3.69	4.78	5.88	6.97	8.04	9.14	10.24	11.33	12.44		13.94	Lane / Place	8 / 8
reaction time	0.166	interval		1.08	1.09	1.10	1.09	1.07	1.10	1.10	1.09	1.11	1.50			3.27 3.26 3.30
wind	0.6 m/s	velocity	5.26	8.46	8.39	8.31	8.39	8.54	8.31	8.31	8.39	8.23	9.35	7.89		8.39 8.41 8.31
Zhang Honglin (CHN) (1994)																
Heat 1 - 2020 Chinese Olympic Trials (Shaoying, CHN)																
date	12-Jun-21	time	2.52	3.60	4.69	5.77	6.84	7.90	8.96	10.06	11.19	12.33		13.94	Lane / Place	6 / 1
reaction time	0.166	interval		1.08	1.09	1.08	1.07	1.06	1.06	1.10	1.13	1.14	1.61			3.25 3.19 3.37
wind	-0.4 m/s	velocity	5.44	8.46	8.39	8.46	8.54	8.62	8.62	8.31	8.09	8.02	8.71	7.89		8.44 8.60 8.14
Zhang Jinzhao (CHN) (1999)																
FINAL - 2020 Chinese Olympic Trials (Shaoying, CHN)																
date	12-Jun-21	time	2.77	3.87	4.95	6.01	7.07	8.14	9.19	10.28	11.38	12.47		13.94	Lane / Place	4 / 3
reaction time	0.190	interval		1.10	1.08	1.06	1.06	1.07	1.05	1.09	1.10	1.09	1.47	PB		3.24 3.18 3.28
wind	0.9 m/s	velocity	4.95	8.31	8.46	8.62	8.62	8.54	8.70	8.39	8.31	8.39	9.54	7.89		8.46 8.62 8.36
Guo Zhongjie (CHN) (2001)																
Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)																
date	25-Jun-21	time	2.66	3.72	4.79	5.84	6.90	7.96	9.06	10.15	11.29	12.45		13.94	Lane / Place	4 / 2
reaction time	0.178	interval		1.06	1.07	1.05	1.06	1.06	1.10	1.09	1.14	1.16	1.49	PB		3.18 3.22 3.39
wind	0.5 m/s	velocity	5.16	8.62	8.54	8.70	8.62	8.62	8.31	8.39	8.02	7.88	9.41	7.89		8.62 8.52 8.09
Tahara, Ayuma (JPN) (2004)																
FINAL - 2021 Japanese U18 National Championships (Matsuyama, JPN) (99cm)																
date	22-Oct-21	time	2.63	3.74	4.82	5.88	6.95	8.03	9.11	10.20	11.31	12.43		13.94	Lane / Place	6 / 2
reaction time	0.150	interval	7 steps	1.11	1.08	1.06	1.07	1.08	1.08	1.09	1.11	1.12	1.51			3.25 3.23 3.32
wind	-0.6 m/s	velocity	5.22	8.23	8.46	8.62	8.54	8.46	8.46	8.39	8.23	8.16	9.28	7.89		8.44 8.49 8.26
Ishikawa, Shuhei (JPN) (1995)																
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)																
date	29-Apr-22	time	2.63	3.73	4.80	5.89	6.95	8.06	9.15	10.25	11.35	12.46		13.94	Lane / Place	5 / 5
reaction time	0.140	interval	7 steps	1.10	1.07	1.09	1.06	1.11	1.09	1.10	1.10	1.11	1.48			3.26 3.26 3.31
wind	-1.5 m/s	velocity	5.22	8.31	8.54	8.39	8.62	8.23	8.39	8.31	8.31	8.23	9.47	7.89		8.41 8.41 8.28
Fujii, Ryota (JPN) (1996)																
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)																
date	29-Apr-22	time	2.64	3.73	4.81	5.89	6.96	8.05	9.14	10.23	11.33	12.46		13.94	Lane / Place	8 / 6
reaction time	0.155	interval		1.09	1.08	1.08	1.07	1.09	1.09	1.09	1.10	1.13	1.48			3.25 3.25 3.32
wind	-1.5 m/s	velocity	5.20	8.39	8.46	8.46	8.54	8.39	8.39	8.39	8.31	8.09	9.47	7.89		8.44 8.44 8.26
Takahasai, Yusuke (JPN) (1996)																

FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)

date	29-Apr-23	time	2.63	3.69	4.77	5.83	6.89	7.98	9.08	10.22	11.34	12.48	13.94	7 / 8			
reaction time	0.145	interval		1.06	1.08	1.06	1.06	1.09	1.10	1.14	1.12	1.14	1.46		3.20	3.25	3.40
wind	0.3 m/s	velocity	5.22	8.62	8.46	8.62	8.62	8.39	8.31	8.02	8.16	8.02	9.60	7.89	8.57	8.44	8.06

Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season

Santana, José Fernando (BRA (1999) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Decathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

Henson (2024) - Athlete First: 2023 year end hurdle report

date	26-Aug-23	time	2.73	3.84	4.93	6.00	7.06	8.15	9.22	10.31	11.38	12.52	13.94	4 / 1			
reaction time	0.158	interval	7 steps	1.11	1.09	1.07	1.06	1.09	1.07	1.09	1.07	1.14	1.42	PB	3.27	3.22	3.30
wind	0.1 m/s	velocity	5.03	8.23	8.39	8.54	8.62	8.39	8.54	8.39	8.54	8.02	9.87	7.89	8.39	8.52	8.31

Qi Zhen (CHN) (1976) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2001 Chinese National Grand Prix (Shanghai, CHN)

Fang (2001) - analysis on technical characteristics in Liu Xiang's 110m hurdles

date	06-May-01	time	2.66	3.77	4.86	5.90	6.93	8.00	9.07	10.13	11.29	12.45	13.95	/ 5			
reaction time		interval		1.11	1.09	1.04	1.03	1.07	1.07	1.06	1.16	1.16	1.50		3.24	3.17	3.38
wind	1.9 m/s	velocity	5.16	8.23	8.39	8.79	8.87	8.54	8.54	8.62	7.88	7.88	9.35	7.89	8.46	8.65	8.11

Thomas, Chris (USA) (1981) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2007 Windsprint (Sundsvall, SWE)

(2007) - www.ssg.se/en/Windsprint/Split-times/

date	24-Jul-07	time		3.73			6.92				10.19		13.95	/ 2			
reaction time		interval					3.19			3.27		3.76					
wind	1.3 m/s	velocity		6.13			8.60			8.39		8.59	7.89				

Lööf, Filip (SWE) (1992) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Junior Final - 2010 ExxonMobil Bislett Games (Oslo, NOR) (99cm)

Blomkvist (2010) - www.sub13.se

date	04-Jun-10	time	2.56	3.62	4.68	5.76	6.84	7.89	9.00	10.08	11.16	12.30	13.95	2 / 3			
reaction time	0.214	interval		1.06	1.06	1.08	1.08	1.05	1.11	1.08	1.08	1.14	1.65		3.20	3.24	3.30
wind	0.3 m/s	velocity	5.36	8.62	8.62	8.46	8.46	8.70	8.23	8.46	8.46	8.02	8.50	7.89	8.57	8.46	8.31

Mazac, Martin (CZE) (1990) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2010 European Team Championships, 1st League (Budapest, HUN)

Blomkvist (2010) - www.sub13.se

date	20-Jun-10	time	2.57	3.67	4.76	5.80	6.87	7.93	9.01	10.12	11.20	12.33	13.95	6 / 5			
reaction time	0.176	interval		1.10	1.09	1.04	1.07	1.06	1.08	1.11	1.08	1.13	1.62		3.23	3.21	3.32
wind	1.1 m/s	velocity	5.34	8.31	8.39	8.79	8.54	8.62	8.46	8.23	8.46	8.09	8.65	7.89	8.49	8.54	8.26

Yazawa, Wataru (JPN) (1991) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Semi-Final 2 - 2011 Japanese National Championships (Kumagaya, JPN)

Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro

date	11-Jun-11	time	2.59	3.70	4.79	5.87	6.95	8.03	9.12	10.23	11.34	12.48	13.95	/ 1			
reaction time		interval		1.11	1.09	1.08	1.08	1.08	1.09	1.11	1.11	1.14	1.47		3.28	3.25	3.36
wind	-0.1 m/s	velocity	5.30	8.23	8.39	8.46	8.46	8.46	8.39	8.23	8.23	8.02	9.54	7.89	8.36	8.44	8.16

Wado, Tatsuya (JPN) (1990) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2011 Japanese National Championships (Kumagaya, JPN)

Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro

date	11-Jun-11	time	2.59	3.68	4.77	5.85	6.91	7.99	9.09	10.19	11.29	12.44	13.95	/ 4			
reaction time		interval		1.09	1.09	1.08	1.06	1.08	1.10	1.10	1.10	1.15	1.51		3.26	3.24	3.35
wind	-0.1 m/s	velocity	5.30	8.39	8.39	8.46	8.62	8.46	8.31	8.31	8.31	7.95	9.28	7.89	8.41	8.46	8.19

Fujii, Ryota (JPN) (1996) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2016 Six College Meeting (Sagamihara, JPN)

(2016.07.18) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	17-Jul-16	time	2.63	3.73	4.82	5.90	6.98	8.07	9.18	10.28	11.38	12.51	13.95	5 / 2			
reaction time		interval		1.10	1.09	1.08	1.08	1.09	1.11	1.10	1.10	1.13	1.44	PB	3.27	3.28	3.33
wind	0.3 m/s	velocity	5.22	8.31	8.39	8.46	8.46	8.39	8.23	8.31	8.31	8.09	9.74	7.89	8.39	8.36	8.23

Taue, Shun (JPN) (1997) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2016 Kanto Student Championships (Sagamihara, JPN)

(2016.09.17) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	17-Sep-16	time	2.71	3.81	4.90	5.97	7.04	8.12	9.22	10.31	11.41	12.54	13.95	7 / 3			
reaction time		interval		1.10	1.09	1.07	1.07	1.08	1.10	1.09	1.10	1.13	1.41		3.26	3.25	3.32
wind	3.2 m/s	velocity	5.06	8.31	8.39	8.54	8.54	8.46	8.31	8.39	8.31	8.09	9.94	7.89	8.41	8.44	8.26

Fukamoto, Riku (JPN) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Semi-Final 2 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)

(2016.11.11) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	21-Oct-16	time	2.64	3.73	4.83	5.90	6.98	8.06	9.15	10.26	11.38	12.51	13.95	3 / 1			
reaction time		interval		1.09	1.10	1.07	1.08	1.08	1.09	1.11	1.12	1.13	1.44		3.26	3.25	3.36
wind	1.6 m/s	velocity	5.20	8.39	8.31	8.54	8.46	8.46	8.39	8.23	8.16	8.09	9.74	7.89	8.41	8.44	8.16

Kuriki, Anthony Tyrell (JPN) (1996) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)

(2017) - tfdata-store.com/2017/05/01/458/

date	29-Apr-17	time	2.66	3.75	4.83	5.90	6.98	8.06	9.16	10.25	11.36	12.48	13.95	8 / 7			
reaction time		interval	7 steps	1.09	1.08	1.07	1.08	1.08	1.10	1.09	1.11	1.12	1.47		3.24	3.26	3.32
wind	1.5 m/s	velocity	5.16	8.39	8.46	8.54	8.46	8.46	8.31	8.39	8.23	8.16	9.54	7.89	8.46	8.41	8.26

Ogata, Akihiro (JPN) (1993) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2017 East Japan Business Athletics Championships (Yuma, JPN)

(2017) - tfdata-store.com/2017/05/20/post-579/

date	20-May-17	time	2.59	3.66	4.73	5.83	6.88	7.96	9.05	10.16	11.30	12.43	13.95	5 / 4			
reaction time		interval	7 steps	1.07	1.07	1.10	1.05	1.08	1.09	1.11	1.14	1.13	1.52		3.24	3.22	3.38
wind	1.1 m/s	velocity	5.30	8.54	8.54	8.31	8.70	8.46	8.39	8.23	8.02	8.09	9.22	7.89	8.46	8.52	8.11
Kagimoto, Masahiro (JPN) (1995)																	
FINAL - 2019 Kinami Memorial (Osaka, JPN)																	
<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	06-May-19	time	2.66	3.74	4.80	5.90	6.97	8.05	9.16	10.26	11.38	12.49	13.95	9 / 8			
reaction time		interval		1.08	1.06	1.10	1.07	1.08	1.11	1.10	1.12	1.11	1.46		3.24	3.26	3.33
wind	0.3 m/s	velocity	5.16	8.46	8.62	8.31	8.54	8.46	8.23	8.31	8.16	8.23	9.60	7.89	8.46	8.41	8.23
Higuchi, Hayato (JPN) (2003)																	
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)																	
<i>Shibayama (2021) - national high school and U20 national championships</i>																	
date	01-Aug-21	time	2.62	3.70	4.80	5.88	6.97	8.06	9.18	10.30	11.40	12.53	13.95	6 / 3			
reaction time	0.121	interval		1.08	1.10	1.08	1.09	1.09	1.12	1.12	1.10	1.13	1.42	PB	3.26	3.30	3.35
wind	1.4 m/s	velocity	5.24	8.46	8.31	8.46	8.39	8.39	8.16	8.16	8.31	8.09	9.87	7.89	8.41	8.31	8.19
Kubota, Taichi (JPN) (2000)																	
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)																	
<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>																	
date	01-May-22	time	2.69	3.79	4.86	5.94	7.02	8.08	9.17	10.25	11.35	12.48	13.95	2 / 7			
reaction time	0.165	interval		1.10	1.07	1.08	1.08	1.06	1.09	1.08	1.10	1.13	1.47	PB	3.25	3.23	3.31
wind	0.8 m/s	velocity	5.10	8.31	8.54	8.46	8.46	8.62	8.39	8.46	8.31	8.09	9.54	7.89	8.44	8.49	8.28
Reed, Gratt (USA) (2000)																	
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																	
<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																	
date	24-Jun-24	time	2.63	3.70	4.76	5.84	6.93	8.02	9.12	10.20	11.30	12.43	13.95	5 / 8			
reaction time		interval	7 steps	1.07	1.06	1.08	1.09	1.09	1.10	1.08	1.10	1.13	1.52		3.21	3.28	3.31
wind	-0.3 m/s	velocity	5.22	8.54	8.62	8.46	8.39	8.39	8.31	8.46	8.31	8.09	9.22	7.89	8.54	8.36	8.28
Sáenz, Martín (CHI) (2001)																	
Repechage 3 - 2024 Olympic Games (Paris, FRA)																	
<i>Paris 2024 Olympic Games - Results Book (2024)</i>																	
date	06-Aug-24	time	2.50	3.62	4.69	5.73	6.80	7.90	9.01	10.08	11.19	12.29	13.95	8 / 6			
reaction time	0.149	interval	7 steps	1.12	1.07	1.04	1.07	1.10	1.11	1.07	1.11	1.10	1.66		3.23	3.28	3.28
wind	-1.1 m/s	velocity	5.49	8.16	8.54	8.79	8.54	8.31	8.23	8.54	8.23	8.31	8.45	7.89	8.49	8.36	8.36
Touret, Philippe (FRA) (1967)																	
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)																	
<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																	
date	26-Sep-88	time	2.55	3.62	4.70	5.78	6.86	7.97	9.07	10.19	11.31	12.43	13.96	8 / 7			
reaction time	0.155	interval		1.07	1.08	1.08	1.08	1.11	1.10	1.12	1.12	1.12	1.53		3.23	3.29	3.36
wind	-0.7 m/s	velocity	5.38	8.54	8.46	8.46	8.46	8.23	8.31	8.16	8.16	8.16	9.16	7.88	8.49	8.33	8.16
Blake, Arthur (USA) (1966)																	
FINAL - 1988 Olympic Games (Seoul, KOR)																	
<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																	
date	26-Sep-88	time	2.48	3.57	4.61	5.65	6.67	7.68	8.85	10.01	11.21	12.40	13.96	5 / 8			
reaction time	0.160	interval		1.09	1.04	1.04	1.02	1.01	1.17	1.16	1.20	1.19	1.56		3.17	3.20	3.55
wind	1.5 m/s	velocity	5.53	8.39	8.79	8.79	8.96	9.05	7.81	7.88	7.62	7.68	8.99	7.88	8.65	8.57	7.72
Hughes, Robby (USA) (1978)																	
Heat 3 - 2007 USATF National Championships (Indianapolis, IN)																	
<i>USATF Men's Hurdle Development (2007)</i>																	
date	23-Jun-07	time	2.60	3.75	4.85	5.94	7.02	8.09	9.19	10.28	11.38	12.50	13.96	6 / 4			
reaction time		interval		1.15	1.10	1.09	1.08	1.07	1.10	1.09	1.10	1.12	1.46		3.34	3.25	3.31
wind	-3.2 m/s	velocity	5.28	7.95	8.31	8.39	8.46	8.54	8.31	8.39	8.31	8.16	9.60	7.88	8.21	8.44	8.28
Furukawa, Yutaro (JPN) (1985)																	
FINAL - 2009 Japanese National Championships (Hiroshima, JPN)																	
<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>																	
date	27-Jun-09	time	2.63	3.72	4.80	5.86	6.93	7.99	9.09	10.17	11.27	12.43	13.96	8 / 8			
reaction time		interval		1.09	1.08	1.06	1.07	1.06	1.10	1.08	1.10	1.16	1.53		3.23	3.23	3.34
wind	1.6 m/s	velocity	5.22	8.39	8.46	8.62	8.54	8.62	8.31	8.46	8.31	7.88	9.16	7.88	8.49	8.49	8.21
Shabanov, Konstantin (RUS) (1989)																	
FINAL - 2009 Seiko Super Grand Prix (Kawasaki, JPN)																	
<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>																	
date	23-Sep-09	time	2.61	3.69	4.75	5.79	6.85	7.91	9.02	10.14	11.26	12.41	13.96	/ 3			
reaction time		interval		1.08	1.06	1.04	1.06	1.06	1.11	1.12	1.12	1.15	1.55		3.18	3.23	3.39
wind	-1.3 m/s	velocity	5.26	8.46	8.62	8.79	8.62	8.62	8.23	8.16	8.16	7.95	9.05	7.88	8.62	8.49	8.09
Mita, Kyohei (JPN) (1991)																	
Heat 1 - 2013 Japanese National Championships (Chofu, JPN)																	
<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>																	
date	08-Jun-13	time	2.71	3.82	4.90	5.98	7.06	8.14	9.23	10.32	11.42	12.52	13.96	3 / 5			
reaction time		interval		1.11	1.08	1.08	1.08	1.08	1.09	1.09	1.10	1.10	1.44		3.27	3.25	3.29
wind	-0.1 m/s	velocity	5.06	8.23	8.46	8.46	8.46	8.46	8.39	8.39	8.31	8.31	9.74	7.88	8.39	8.44	8.33
Fudaba, Hiroki (JPN) (1994)																	
FINAL - 2016 Fuse Sprint (Tottori, JPN)																	
<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>																	
date	05-Jun-16	time	2.67	3.75	4.83	5.89	6.96	8.05	9.14	10.23	11.33	12.46	13.96	8 / 8			

reaction time		interval	1.08	1.08	1.06	1.07	1.09	1.09	1.09	1.10	1.13	1.50			3.22	3.25	3.32
wind	1.4 m/s	velocity	5.14	8.46	8.46	8.62	8.54	8.39	8.39	8.39	8.31	8.09	9.35	7.88	8.52	8.44	8.26

Ma Lei (CHN) (1989)

a Lei (CHN) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Chinese National Games (Tianjin, CHN)															Henson (2017) - coaching observations		
date	03-Sep-17	time	2.72	3.81	4.87	5.94	6.99	8.07	9.13	10.23	11.36	12.48	13.96	7 / 5			
reaction time		interval	7 steps	1.09	1.06	1.07	1.05	1.08	1.06	1.10	1.13	1.12	1.48		3.22	3.19	3.35
wind	0.3 m/s	velocity	5.04	8.39	8.62	8.54	8.70	8.46	8.62	8.31	8.09	8.16	9.47	7.88	8.52	8.60	8.19

Tanaka, Shinya (JPN) (1993)

Anaka, Shinya (JPN) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)												Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season					
date	06-May-18	time	2.63	3.78	4.87	5.95	7.03	8.10	9.16	10.28	11.38	12.50	13.96	6 / 5			
reaction time		interval		1.15	1.09	1.08	1.08	1.07	1.06	1.12	1.10	1.12	1.46		3.32	3.21	3.34
wind	1.6 m/s	velocity	5.22	7.95	8.39	8.46	8.46	8.54	8.62	8.16	8.31	8.16	9.60	7.88	8.26	8.54	8.21

Sun Zhenjiang (CHN) (1999)

an Zhenjiang (CHN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Chinese National U20 Championships (Nanchang, CHN) (99.1cm)																		
date		13-May-18	time	2.61	3.70	4.76	5.83	6.92	7.99	9.08	10.18	11.30	12.42		13.96	6 / 4		
reaction time			interval	7 steps	1.09	1.06	1.07	1.09	1.07	1.09	1.10	1.12	1.12	1.54		3.22	3.25	3.34
wind	1.0 m/s	velocity	5.26	8.39	8.62	8.54	8.39	8.54	8.39	8.31	8.16	8.16	9.10	7.88		8.52	8.44	8.21

Mui Ching Yeung (HKG) (1993)

Zui Ching Yeung (HKG) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Asian Athletics Championships (Doha, QAT)															CAA Hurdle Development (2019)		
date	24-Apr-19	time	2.63	3.71	4.78	5.84	6.92	7.97	9.10	10.22	11.36	12.51	13.96	8 / 8			
reaction time	0.151	interval		1.08	1.07	1.06	1.08	1.05	1.13	1.12	1.14	1.15	1.45		3.21	3.26	3.41
wind	1.7 m/s	velocity	5.22	8.46	8.54	8.62	8.46	8.70	8.09	8.16	8.02	7.95	9.67	7.88	8.54	8.41	8.04

Shimizu, Koichiro (JPN) (2000)

nimizu, Koichiro (JPN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Fuse Sprint (Tottori, JPN)												Kijima (2019) - research on athlete performance and technique- 2019 data book						
date	02-Jun-19	time	2.69	3.77	4.87	5.92	7.00	8.09	9.20	10.29	11.39	12.52	13.96	2 / 8				
reaction time	0.156	interval		1.08	1.10	1.05	1.08	1.09	1.11	1.09	1.10	1.13	1.44	PB		3.23	3.28	3.32
wind	1.9 m/s	velocity	5.10	8.46	8.31	8.70	8.46	8.39	8.23	8.39	8.31	8.09	9.74	7.88		8.49	8.36	8.26

Sun Zhenjiang (CHN) (1999)

In Zhenjiang (CHN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)															CAA Hurdle Development (2019)		
date	08-Jul-19	time	2.60	3.70	4.76	5.86	6.94	8.05	9.13	10.24	11.34	12.47	13.96	5 / 1			
reaction time	0.163	interval	7 steps	1.10	1.06	1.10	1.08	1.11	1.08	1.11	1.10	1.13	1.49		3.26	3.27	3.34
wind	0.1 m/s	velocity	5.28	8.31	8.62	8.31	8.46	8.23	8.46	8.23	8.31	8.09	9.41	7.88	8.41	8.39	8.21

Jiang Fan (CHN) (1990)

Ang Fan (CHN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese National Championships (Shenyang, CHN)															CAA Hurdle Development (2019)		
date	08-Jul-19	time	2.63	3.73	4.80	5.89	6.97	8.06	9.15	10.24	11.34	12.48	13.96	7 / 5			
reaction time	0.143	interval		1.10	1.07	1.09	1.08	1.09	1.09	1.09	1.10	1.14	1.48		3.26	3.26	3.33
wind	0.1 m/s	velocity	5.22	8.31	8.54	8.39	8.46	8.39	8.39	8.39	8.31	8.02	9.47	7.88	8.41	8.41	8.23

Li Jiming (CHN) (1996)

Jiming (CHN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Chinese National Championships (Shenyang, CHN)															CAA Hurdle Development (2019)			
date	08-Jul-19	time	2.65	3.74	4.80	5.87	6.95	8.02	9.12	10.21	11.31	12.46	13.96	1 / 6				
reaction time	0.180	interval		1.09	1.06	1.07	1.08	1.07	1.10	1.09	1.10	1.15	1.50			3.22	3.25	3.34
wind	0.1 m/s	velocity	5.18	8.39	8.62	8.54	8.46	8.54	8.31	8.39	8.31	7.95	9.35	7.88		8.52	8.44	8.21

Ji Haohao (CHN) (2001)

Haohao (CHN) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)															CAA Hurdle Development (2019)		
date	14-Aug-19	time	2.69	3.77	4.84	5.90	6.94	8.04	9.09	10.19	11.31	12.43	13.96	2 / 6			
reaction time	0.187	interval		1.08	1.07	1.06	1.04	1.10	1.05	1.10	1.12	1.12	1.53		3.21	3.19	3.34
wind	-0.3 m/s	velocity	5.10	8.46	8.54	8.62	8.79	8.31	8.70	8.31	8.16	8.16	9.16	7.88	8.54	8.60	8.21

Sun Zhenjiang (CHN) (1999)

Jun Zhenjiang (CHN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)															CAA Hurdle Development (2019)			
date	24-Aug-19	time	2.60	3.68	4.76	5.80	6.89	8.00	9.09	10.19	11.31	12.46		13.96	7 / 2			
reaction time	0.181	interval	7 steps	1.08	1.08	1.04	1.09	1.11	1.09	1.10	1.12	1.15	1.50			3.20	3.29	3.37
wind	-0.1 m/s	velocity	5.28	8.46	8.46	8.79	8.39	8.23	8.39	8.31	8.16	7.95	9.35	7.88		8.57	8.33	8.14

Ames, Brendan (USA) (1988)

Mens, Brendan (USA) (1988)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report					
date	26-Jun-21	time	2.56	3.63	4.65	5.67	6.70	7.73	8.88	10.00	11.13	12.30		13.96	8 / 7			
reaction time	0.208	interval	7 steps	1.07	1.02	1.02	1.03	1.03	1.15	1.12	1.13	1.17	1.66			3.11	3.21	3.42
wind	1.2 m/s	velocity	5.36	8.54	8.96	8.96	8.87	8.87	7.95	8.16	8.09	7.81	8.45	7.88		8.82	8.54	8.02

Ning Xiaohan (CHN) (2000)

ing Xiaohan (CHN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)																CAA Hurdle Development (2021)		
date	25-Jun-21	time	2.65	3.72	4.80	5.87	6.92	7.99	9.08	10.16	11.28	12.41	13.96	3 / 1				
reaction time	0.149	interval		1.07	1.08	1.07	1.05	1.07	1.09	1.08	1.12	1.13	1.55			3.22	3.21	3.33

wind	-0.2 m/s	velocity	5.18	8.54	8.46	8.54	8.70	8.54	8.39	8.46	8.16	8.09	9.05	7.88		8.52	8.54	8.23
Guo Zhongjie (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Chinese National Games (Xi'an, CHN)			<i>Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers</i>															
date	22-Sep-21	time	2.64	3.72	4.77	5.81	6.87	7.93	9.02	10.11	11.28	12.45		13.96	1 / 7			
reaction time	0.181	interval	1.08	1.05	1.04	1.06	1.06	1.09	1.09	1.17	1.17	1.51				3.17	3.21	3.43
wind	0.0 m/s	velocity	5.20	8.46	8.70	8.79	8.62	8.62	8.39	8.39	7.81	7.81	9.28	7.88		8.65	8.54	7.99
Gletty, Makenson (FRA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)			<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	03-Aug-24	time	2.47	3.57	4.65	5.71	6.76	7.84	8.93	10.02	11.14	12.27		13.96	2 / 3			
reaction time	0.144	interval	7 steps	1.10	1.08	1.06	1.05	1.08	1.09	1.09	1.12	1.13	1.69			3.24	3.22	3.34
wind	0.7 m/s	velocity	5.55	8.31	8.46	8.62	8.70	8.46	8.39	8.39	8.16	8.09	8.30	7.88		8.46	8.52	8.21
Jackson, Colin (GBR) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 1985 European Junior Championships (Cottbus, GDR) (99cm)			<i>Warburton (1985) - 1985 european junior championships - hurdles</i>															
date	23-Aug-85	time	2.32	3.40	4.47	5.51	6.62	7.74	8.82	9.88	10.94	12.08		13.97	1 / 1			
reaction time		interval		1.08	1.07	1.04	1.11	1.12	1.08	1.06	1.06	1.14	1.89			3.19	3.31	3.26
wind	1.7 m/s	velocity	5.91	8.46	8.54	8.79	8.23	8.16	8.46	8.62	8.62	8.02	7.42	7.87		8.60	8.28	8.41
Mágos, Stamátios (GRE) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1997 European Cup (Munich, GER)			<i>Jung (2003) - http://www.fgs.uni-halle.de</i>															
date	22-Jun-97	time	2.66	3.74	4.82	5.88	6.94	8.02	9.12	10.24	11.36	12.52		13.97	1 / 7			
reaction time		interval		1.08	1.08	1.06	1.06	1.08	1.10	1.12	1.12	1.16	1.45			3.22	3.24	3.40
wind	0.2 m/s	velocity	5.16	8.46	8.46	8.62	8.62	8.46	8.31	8.16	8.16	7.88	9.67	7.87		8.52	8.46	8.06
Walker, Josh (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2007 USATF National Championships (Indianapolis, IN)			<i>USATF Men's Hurdle Development (2007)</i>															
date	23-Jun-07	time	2.67	3.79	4.85	5.94	6.99	8.09	9.18	10.26	11.36	12.46		13.97	1 / 5			
reaction time		interval		1.12	1.06	1.09	1.05	1.10	1.09	1.08	1.10	1.10	1.51			3.27	3.24	3.28
wind	-3.2 m/s	velocity	5.14	8.16	8.62	8.39	8.70	8.31	8.39	8.46	8.31	8.31	9.28	7.87		8.39	8.46	8.36
Andrews, Ron (USA) (1979)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 Windsprint (Sundsvall, SWE)			<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>															
date	24-Jul-07	time		3.74			6.98			10.22				13.97	1 / 3			
reaction time		interval					3.24			3.24			3.75					
wind	1.3 m/s	velocity		6.11			8.46			8.46			8.61	7.87				
McLean, James (GBR) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Junior Final - 2010 ExxonMobil Bislett Games (Oslo, NOR) (99cm)			<i>Blomkvist (2010) - www.sub13.se</i>															
date	04-Jun-10	time	2.46	3.52	4.56	5.60	6.68	7.80	8.88	10.00	11.14	12.32		13.97	3 / 4			
reaction time	0.151	interval		1.06	1.04	1.04	1.08	1.12	1.08	1.12	1.14	1.18	1.65	PB		3.14	3.28	3.44
wind	0.3 m/s	velocity	5.58	8.62	8.79	8.79	8.46	8.16	8.46	8.16	8.02	7.75	8.50	7.87		8.73	8.36	7.97
Ferreira, João (POR) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 European Team Championships, 1st League (Budapest, HUN)			<i>Blomkvist (2010) - www.sub13.se</i>															
date	20-Jun-10	time	2.62	3.67	4.75	5.80	6.87	7.96	9.04	10.13	11.24	12.36		13.97	7 / 6			
reaction time	0.168	interval		1.05	1.08	1.05	1.07	1.09	1.08	1.09	1.11	1.12	1.61			3.18	3.24	3.32
wind	1.1 m/s	velocity	5.24	8.70	8.46	8.70	8.54	8.39	8.46	8.39	8.23	8.16	8.71	7.87		8.62	8.46	8.26
Wado, Tatsuya (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2011 Mikio Oda Memorial (Hiroshima, JPN)			<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	29-Apr-11	time	2.62	3.70	4.77	5.83	6.95	8.03	9.13	10.22	11.31	12.48		13.97	1 / 5			
reaction time		interval		1.08	1.07	1.06	1.12	1.08	1.10	1.09	1.09	1.17	1.49			3.21	3.30	3.35
wind	2.4 m/s	velocity	5.24	8.46	8.54	8.62	8.16	8.46	8.31	8.39	8.39	7.81	9.41	7.87		8.54	8.31	8.19
Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Mito Invitational Athletics Meeting (Mito, JPN)			<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	04-May-13	time	2.67	3.80	4.90	5.99	7.06	8.13	9.22	10.32	11.42	12.53		13.97	1 / 1			
reaction time		interval		1.13	1.10	1.09	1.07	1.07	1.09	1.10	1.10	1.11	1.44			3.32	3.23	3.31
wind	-1.3 m/s	velocity	5.14	8.09	8.31	8.39	8.54	8.54	8.39	8.31	8.31	8.23	9.74	7.87		8.26	8.49	8.28
Sato, Hiroyuki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)			<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>															
date	03-May-15	time	2.62	3.77	4.85	5.94	7.00	8.09	9.16	10.28	11.38	12.52		13.97	1 / 3			
reaction time		interval		1.15	1.08	1.09	1.06	1.09	1.07	1.12	1.10	1.14	1.45			3.32	3.22	3.36
wind	-0.8 m/s	velocity	5.24	7.95	8.46	8.39	8.62	8.39	8.54	8.16	8.31	8.02	9.67	7.87		8.26	8.52	8.16
Kagimoto, Masahiro (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Kyoto University Meeting (Kyoto, JPN)			<i>(2017) - tfdata-store.com/2017/04/12/post-362/</i>															
date	09-Apr-17	time	2.68	3.77	4.85	5.95	7.02	8.11	9.21	10.31	11.41	12.51		13.97	6 / 1			
reaction time		interval		1.09	1.08	1.10	1.07	1.09	1.10	1.10	1.10	1.10	1.46			3.27	3.26	3.30
wind	1.5 m/s	velocity	5.12	8.39	8.46	8.31	8.54	8.39	8.31	8.31	8.31	8.31	9.60	7.87		8.39	8.41	8.31

Kagimoto, Masahiro (JPN) (1995)																	
B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																	
date	28-Apr-19	time	2.67	3.76	4.83	5.90	6.98	8.07	9.18	10.29	11.40	12.51	13.97	5 / 1			
reaction time	0.213	interval		1.09	1.07	1.07	1.08	1.09	1.11	1.11	1.11	1.11	1.46		3.23	3.28	3.33
wind	1.4 m/s	velocity	5.14	8.39	8.54	8.54	8.46	8.39	8.23	8.23	8.23	8.23	9.60	7.87	8.49	8.36	8.23
Ogata, Akihiro (JPN) (1993)																	
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																	
date	28-Apr-19	time	2.65	3.73	4.78	5.82	6.89	7.97	9.07	10.17	11.29	12.42	13.97	3 / 6			
reaction time	0.185	interval		7 steps	1.08	1.05	1.04	1.07	1.08	1.10	1.12	1.13	1.55		3.17	3.25	3.35
wind	0.6 m/s	velocity	5.18	8.46	8.70	8.79	8.54	8.46	8.31	8.31	8.16	8.09	9.05	7.87	8.65	8.44	8.19
Li Jiming (CHN) (1996)																	
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)																	
date	24-Aug-19	time	2.71	3.80	4.89	5.94	6.99	8.06	9.15	10.24	11.35	12.46	13.97	6 / 3			
reaction time	0.213	interval		1.09	1.09	1.05	1.05	1.07	1.09	1.09	1.11	1.11	1.51		3.23	3.21	3.31
wind	-0.1 m/s	velocity	5.06	8.39	8.39	8.70	8.70	8.54	8.39	8.39	8.23	8.23	9.28	7.87	8.49	8.54	8.28
Ikeda, Kai (JPN) (2002)																	
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)																	
date	01-Jun-21	time	2.76	3.88	4.95	6.03	7.10	8.16	9.24	10.32	11.39	12.50	13.97	4 / 6			
reaction time	0.185	interval		7 steps	1.12	1.07	1.08	1.07	1.06	1.08	1.07	1.11	1.47		3.27	3.21	3.26
wind	0.3 m/s	velocity	4.97	8.16	8.54	8.46	8.54	8.62	8.46	8.46	8.54	8.23	9.54	7.87	8.39	8.54	8.41
Ning Xiaohan (CHN) (2000)																	
Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)																	
date	12-Jun-21	time	2.50	3.58	4.65	5.72	6.80	7.87	8.95	10.05	11.17	12.31	13.97	4 / 2			
reaction time	0.141	interval		1.08	1.07	1.07	1.08	1.07	1.08	1.10	1.12	1.14	1.66		3.22	3.23	3.36
wind	-0.4 m/s	velocity	5.49	8.46	8.54	8.54	8.46	8.54	8.46	8.31	8.16	8.02	8.45	7.87	8.52	8.49	8.16
Dal Molin, Paolo (ITA) (1987)																	
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)																	
date	13-Jul-21	time	2.52	3.60	4.64	5.74	6.86	7.96	9.04	10.16	11.24	12.36	13.97	8 / 7			
reaction time	0.150	interval		7 steps	1.08	1.04	1.10	1.12	1.10	1.08	1.12	1.08	1.12	1.61	3.22	3.30	3.32
wind	0.8 m/s	velocity	5.44	8.46	8.79	8.31	8.16	8.31	8.46	8.16	8.46	8.16	8.71	7.87	8.52	8.31	8.26
Czykier, Damian (POL) (1992)																	
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																	
date	21-Aug-23	time	2.58	3.62	4.65	5.66	6.68	7.68	8.80	9.92	11.13	12.26	13.97	3 / 7			
reaction time	0.162	interval		7 steps	1.04	1.03	1.01	1.02	1.00	1.12	1.12	1.21	1.13	1.71	3.08	3.14	3.46
wind	-0.2 m/s	velocity	5.32	8.79	8.87	9.05	8.96	9.14	8.16	8.16	7.55	8.09	8.20	7.87	8.90	8.73	7.92
Olsen, Derrick (USA) (1998)																	
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																	
date	24-Jun-24	time	2.56	3.62	4.66	5.70	6.73	7.80	8.86	9.87	11.16	12.35	13.97	5 / 8			
reaction time		interval		1.06	1.04	1.04	1.03	1.07	1.06	1.01	1.29	1.19	1.62		3.14	3.16	3.49
wind	1.8 m/s	velocity	5.36	8.62	8.79	8.79	8.87	8.54	8.62	9.05	7.09	7.68	8.65	7.87	8.73	8.68	7.86
Williams, Paris (USA) (1998)																	
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																	
date	27-Jun-24	time	2.61	3.68	4.74	5.79	6.82	7.86	8.91	9.99	11.07	12.31	13.97	2 / 9			
reaction time		interval		7 steps	1.07	1.06	1.05	1.03	1.04	1.05	1.08	1.08	1.24	1.66	3.18	3.12	3.40
wind	0.3 m/s	velocity	5.26	8.54	8.62	8.70	8.87	8.79	8.70	8.46	8.46	7.37	8.45	7.87	8.62	8.79	8.06
Bucknor, Richard (JAM) (1966)																	
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)																	
date	26-Sep-88	time	2.62	3.73	4.82	5.93	7.00	8.09	9.17	10.29	11.41	12.53	13.98	2 / 8			
reaction time	0.166	interval		1.11	1.09	1.11	1.07	1.09	1.08	1.12	1.12	1.12	1.45		3.31	3.24	3.36
wind	0.0 m/s	velocity	5.24	8.23	8.39	8.23	8.54	8.39	8.46	8.16	8.16	8.16	9.67	7.87	8.28	8.46	8.16
Irie, Yukito (JPN) (1983)																	
FINAL - 2009 Nambu Chuhei Memorial (Sapporo, JPN)																	
date	09-Jul-09	time	2.44	3.54	4.65	5.74	6.82	7.91	9.01	10.11	11.22	12.33	13.98	/ 6			
reaction time		interval		1.10	1.11	1.09	1.08	1.09	1.10	1.10	1.11	1.11	1.65		3.30	3.27	3.32
wind	1.2 m/s	velocity	5.62	8.31	8.23	8.39	8.46	8.39	8.31	8.31	8.23	8.23	8.50	7.87	8.31	8.39	8.26
Omuro, Hideki (JPN) (1990)																	
FINAL - 2011 Japanese National Championships (Kumagaya, JPN)																	
date	11-Jun-11	time	2.63	3.74	4.84	5.92	7.02	8.10	9.21	10.31	11.41	12.53	13.98	/ 6			
reaction time		interval		1.11	1.10	1.08	1.10	1.08	1.11	1.10	1.10	1.12	1.45		3.29	3.29	3.32
wind	-0.1 m/s	velocity	5.22	8.23	8.31	8.46	8.31	8.46	8.23	8.31	8.31	8.16	9.67	7.87	8.33	8.33	8.26

Wado, Tatsuya (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2012 Japanese National Championships (Osaka, JPN)																	
date	09-Jun-12	time	2.59	3.68	4.76	5.82	6.89	7.98	9.07	10.19	11.30	12.45	13.98	5 / 2			
reaction time		interval		1.09	1.08	1.06	1.07	1.09	1.09	1.12	1.11	1.15	1.53		3.23	3.25	3.38
wind	0.8 m/s	velocity	5.30	8.39	8.46	8.62	8.54	8.39	8.39	8.16	8.23	7.95	9.16	7.87	8.49	8.44	8.11
Wado, Tatsuya (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2012 Japanese National Championships (Osaka, JPN)																	
date	10-Jun-12	time	2.61	3.70	4.78	5.86	6.93	8.02	9.11	10.23	11.35	12.48	13.98	4 / 8			
reaction time		interval		1.09	1.08	1.08	1.07	1.09	1.09	1.12	1.12	1.13	1.50		3.25	3.25	3.37
wind	2.4 m/s	velocity	5.26	8.39	8.46	8.46	8.54	8.39	8.39	8.16	8.16	8.09	9.35	7.87	8.44	8.44	8.14
Kato, Takuma (JPN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Japanese National High School Championships (Okayama, JPN) (99cm)																	
date	02-Aug-16	time	2.63	3.73	4.83	5.92	7.01	8.11	9.20	10.32	11.41	12.55	13.98	6 / 1			
reaction time	0.127	interval		1.10	1.10	1.09	1.09	1.10	1.09	1.12	1.09	1.14	1.43	PB	3.29	3.28	3.35
wind	1.2 m/s	velocity	5.22	8.31	8.31	8.39	8.39	8.31	8.39	8.16	8.39	8.02	9.80	7.87	8.33	8.36	8.19
Omuro, Hideki (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)																	
date	29-Apr-16	time	2.63	3.69	4.73	5.80	6.85	7.95	9.02	10.11	11.25	12.39	13.98	/ 6			
reaction time		interval		1.06	1.04	1.07	1.05	1.10	1.07	1.09	1.14	1.14	1.59		3.17	3.22	3.37
wind	-0.5 m/s	velocity	5.22	8.62	8.79	8.54	8.70	8.31	8.54	8.39	8.02	8.02	8.82	7.87	8.65	8.52	8.14
Higuchi, Rikuto (JPN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 6 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																	
date	21-Oct-16	time	2.63	3.69	4.75	5.79	6.86	7.92	9.00	10.10	11.21	12.36	13.98	4 / 1			
reaction time		interval		1.06	1.06	1.04	1.07	1.06	1.08	1.10	1.11	1.15	1.62		3.16	3.21	3.36
wind	1.2 m/s	velocity	5.22	8.62	8.62	8.79	8.54	8.62	8.46	8.31	8.23	7.95	8.65	7.87	8.68	8.54	8.16
Zhang Honglin (CHN) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 National Grand Prix Final (Guiyang, CHN) (Altitude)																	
date	17-Jun-18	time	2.69	3.77	4.83	5.92	6.99	8.06	9.15	10.24	11.35	12.47	13.98	7 / 4			
reaction time		interval		1.08	1.06	1.09	1.07	1.07	1.09	1.09	1.11	1.12	1.51		3.23	3.23	3.32
wind	-0.3 m/s	velocity	5.10	8.46	8.62	8.39	8.54	8.54	8.39	8.39	8.23	8.16	9.28	7.87	8.49	8.49	8.26
Zeng Jianhang (CHN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																	
date	13-Apr-19	time	2.62	3.67	4.73	5.78	6.82	7.88	8.96	10.06	11.20	12.39	13.98	5 / 1			
reaction time	0.176	interval		1.05	1.06	1.05	1.04	1.06	1.08	1.10	1.14	1.19	1.59		3.16	3.18	3.43
wind	0.1 m/s	velocity	5.24	8.70	8.62	8.70	8.79	8.62	8.46	8.31	8.02	7.68	8.82	7.87	8.68	8.62	7.99
Zeng Jianhang (CHN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)																	
date	08-Jul-19	time	2.69	3.79	4.85	5.94	7.02	8.11	9.18	10.27	11.39	12.51	13.98	6 / 2			
reaction time	0.204	interval		1.10	1.06	1.09	1.08	1.09	1.07	1.09	1.12	1.12	1.47		3.25	3.24	3.33
wind	-0.5 m/s	velocity	5.10	8.31	8.62	8.39	8.46	8.39	8.54	8.39	8.16	8.16	9.54	7.87	8.44	8.46	8.23
Zhang Tao (CHN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)																	
date	02-Aug-19	time	2.69	3.78	4.87	5.94	7.01	8.07	9.14	10.24	11.34	12.48	13.98	6 / 5			
reaction time	0.159	interval		1.09	1.09	1.07	1.07	1.06	1.07	1.10	1.10	1.14	1.50		3.25	3.20	3.34
wind	0.0 m/s	velocity	5.10	8.39	8.39	8.54	8.54	8.62	8.54	8.31	8.31	8.02	9.35	7.87	8.44	8.57	8.21
Sun Zhenjiang (CHN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 National Grand Prix (Chengdu, CHN)																	
date	02-Apr-21	time	2.62	3.72	4.78	5.82	6.88	7.93	9.01	10.10	11.24	12.36	13.98	5 / 2			
reaction time	0.168	interval	7 steps	1.10	1.06	1.04	1.06	1.05	1.08	1.09	1.14	1.12	1.62		3.20	3.19	3.35
wind	-0.1 m/s	velocity	5.24	8.31	8.62	8.79	8.62	8.70	8.46	8.39	8.02	8.16	8.65	7.87	8.57	8.60	8.19
Wu Zhenhua (CHN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Chinese National Championships (Chongqing, CHN)																	
date	25-Jun-21	time	2.65	3.75	4.82	5.90	6.99	8.07	9.16	10.26	11.38	12.53	13.98	2 / 7			
reaction time	0.164	interval		1.10	1.07	1.08	1.09	1.08	1.09	1.10	1.12	1.15	1.45	PB	3.25	3.26	3.37
wind	1.6 m/s	velocity	5.18	8.31	8.54	8.46	8.39	8.46	8.39	8.31	8.16	7.95	9.67	7.87	8.44	8.41	8.14
Takayama, Shunya (JPN) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																	
date	03-Aug-21	time	2.49	3.56	4.62	5.72	6.86	7.93	9.05	10.21	11.33	12.44	13.98	2 / 6			
reaction time	0.153	interval		1.07	1.06	1.10	1.14	1.07	1.12	1.16	1.12	1.11	1.54		3.23	3.33	3.39
wind	-0.1 m/s	velocity	5.51	8.54	8.62	8.31	8.02	8.54	8.16	7.88	8.16	8.23	9.10	7.87	8.49	8.23	8.09
Andrews, Nicholas (AUS) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)

date	29-Apr-22	time	2.64	3.76	4.86	5.95	7.01	8.11	9.20	10.29	11.40	12.53	13.98	4 / 3			
reaction time	0.150	interval		1.12	1.10	1.09	1.06	1.10	1.09	1.09	1.11	1.13	1.45		3.31	3.25	3.33
wind	-0.7 m/s	velocity	5.20	8.16	8.31	8.39	8.62	8.31	8.39	8.39	8.23	8.09	9.67	7.87	8.28	8.44	8.23

Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season

Yokochi, Taiga (JPN) (2000)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)

Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season

date	29-Apr-22	time	2.67	3.77	4.83	5.90	6.95	8.00	9.05	10.20	11.33	12.48	13.98	2 / 7			
reaction time	0.157	interval	7 steps	1.10	1.06	1.07	1.05	1.05	1.05	1.15	1.13	1.15	1.50		3.23	3.15	3.43
wind	-1.5 m/s	velocity	5.14	8.31	8.62	8.54	8.70	8.70	8.70	7.95	8.09	7.95	9.35	7.87	8.49	8.70	7.99

Nishi, Kyohei (JPN) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2023 Fuse Sprint (Tottori, JPN)

Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season

date	25-Jun-23	time	2.66	3.77	4.85	5.95	7.03	8.11	9.20	10.31	11.40	12.49	13.98	2 / 6			
reaction time	0.179	interval		1.11	1.08	1.10	1.08	1.08	1.09	1.11	1.09	1.09	1.49		3.29	3.25	3.29
wind	1.1 m/s	velocity	5.16	8.23	8.46	8.31	8.46	8.46	8.39	8.23	8.39	8.39	9.41	7.87	8.33	8.44	8.33

Hunt, Riley (USA) (2001)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)

Henson (2024) - Athlete First: 2024 year end hurdle report

date	24-Jun-24	time	2.67	3.76	4.83	5.90	6.97	8.03	9.16	10.23	11.36	12.48	13.98	4 / 9			
reaction time		interval		1.09	1.07	1.07	1.07	1.06	1.13	1.07	1.13	1.12	1.50		3.23	3.26	3.32
wind	-0.3 m/s	velocity	5.14	8.39	8.54	8.54	8.54	8.62	8.09	8.54	8.09	8.16	9.35	7.87	8.49	8.41	8.26

Liu Bowen (CHN) (2001)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 Chinese National Championships (Quzhou, CHN)

Shandong Athletics Sport Science (2024)

date	16-Sep-24	time	2.60	3.69	4.74	5.81	6.87	7.96	9.06	10.16	11.29	12.41	13.98	9 / 8			
reaction time	0.193	interval		1.09	1.05	1.07	1.06	1.09	1.10	1.10	1.13	1.12	1.57		3.21	3.25	3.35
wind	0.2 m/s	velocity	5.28	8.39	8.70	8.54	8.62	8.39	8.31	8.31	8.09	8.16	8.93	7.87	8.54	8.44	8.19

Nomoto, Hideki (JPN) (1984)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)

Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles

date	29-Apr-09	time	2.66	3.74	4.82	5.88	6.93	8.00	9.08	10.16	11.27	12.40	13.99	/ 8			
reaction time		interval		1.08	1.08	1.06	1.05	1.07	1.08	1.08	1.11	1.13	1.59		3.22	3.20	3.32
wind	1.9 m/s	velocity	5.16	8.46	8.46	8.62	8.70	8.54	8.46	8.46	8.23	8.09	8.82	7.86	8.52	8.57	8.26

Sato, Hiroyuki (JPN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 Japanese National Championships (Osaka, JPN)

Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13

date	10-Jun-12	time	2.62	3.74	4.84	5.92	6.99	8.07	9.18	10.28	11.39	12.53	13.99	4 / 6			
reaction time		interval		1.12	1.10	1.08	1.07	1.08	1.11	1.10	1.11	1.14	1.46		3.30	3.26	3.35
wind	-0.6 m/s	velocity	5.24	8.16	8.31	8.46	8.54	8.46	8.23	8.31	8.23	8.02	9.60	7.86	8.31	8.41	8.19

Brorsson, Alexander (SWE) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2012 Windsprint (Sundsvall, SWE)

Blomkvist (2012) - www.sub13.se

date	17-Jun-12	time	2.70	3.80	4.87	5.93	7.00	8.08	9.17	10.28	11.38	12.51	13.99	4 / 1			
reaction time		interval		1.10	1.07	1.06	1.07	1.08	1.09	1.11	1.10	1.13	1.48		3.23	3.24	3.34
wind	0.0 m/s	velocity	5.08	8.31	8.54	8.62	8.54	8.46	8.39	8.23	8.31	8.09	9.47	7.86	8.49	8.46	8.21

Sato, Hiroyuki (JPN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2013 Mikio Oda Memorial (Hiroshima, JPN)

Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13

date	29-Apr-13	time	2.61	3.69	4.75	5.84	6.91	8.00	9.08	10.19	11.33	12.50	13.99	/ 6			
reaction time		interval		1.08	1.06	1.09	1.07	1.09	1.08	1.11	1.14	1.17	1.49		3.23	3.24	3.42
wind	0.7 m/s	velocity	5.26	8.46	8.62	8.39	8.54	8.39	8.46	8.23	8.02	7.81	9.41	7.86	8.49	8.46	8.02

Fudaba, Hiroki (JPN) (1994)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)

Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions

date	03-May-15	time	2.74	3.86	4.93	6.01	7.08	8.14	9.22	10.30	11.40	12.51	13.99	/ 4			
reaction time		interval		1.12	1.07	1.08	1.07	1.06	1.08	1.08	1.10	1.11	1.48		3.27	3.21	3.29
wind	-0.8 m/s	velocity	5.01	8.16	8.54	8.46	8.54	8.62	8.46	8.46	8.31	8.23	9.47	7.86	8.39	8.54	8.33

Zhao Pengchuan (CHN) (1993)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)

Henson (2018) - coaching observations

date	16-Sep-18	time	2.67	3.79	4.87	5.94	7.06	8.09	9.20	10.29	11.39	12.51	13.99	7 / 3			
reaction time		interval		1.12	1.08	1.07	1.12	1.03	1.11	1.09	1.10	1.12	1.48		3.27	3.26	3.31
wind	-0.3 m/s	velocity	5.14	8.16	8.46	8.54	8.16	8.87	8.23	8.39	8.31	8.16	9.47	7.86	8.39	8.41	8.28

Zhang Tao (CHN) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)

CAA Hurdle Development (2019)

date	23-May-19	time	2.70	3.82	4.92	6.00	7.08	8.16	9.22	10.32	11.42	12.52	13.99	7 / 6			
reaction time	0.174	interval		1.12	1.10	1.08	1.08	1.08	1.06	1.10	1.10	1.10	1.47		3.30	3.22	3.30
wind	2.5 m/s	velocity	5.08	8.16	8.31	8.46	8.46	8.46	8.62	8.31	8.31	8.31	9.54	7.86	8.31	8.52	8.31

Fujii, Ryota (JPN) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 Japanese National Championships (Fukuoka, JPN)

Yamanaka (2019) - research on athlete performance and technique- 2019 data book

date		30-Jun-19	time	2.64	3.72	4.79	5.87	6.95	8.05	9.15	10.26	11.39	12.52	13.99	2 / 6				
reaction time		0.148	interval		1.08	1.07	1.08	1.08	1.10	1.10	1.11	1.13	1.13	1.47			3.23	3.28	3.37
wind		-0.6 m/s	velocity	5.20	8.46	8.54	8.46	8.46	8.31	8.31	8.23	8.09	8.09	9.54	7.86		8.49	8.36	8.14
Zeng Jianhang (CHN) (1998)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)				CAA Hurdle Development (2019)															
date		02-Aug-19	time	2.62	3.70	4.78	5.86	6.94	8.02	9.10	10.20	11.31	12.47	13.99	7 / 1				
reaction time		0.153	interval		1.08	1.08	1.08	1.08	1.08	1.08	1.10	1.11	1.16	1.52			3.24	3.24	3.37
wind		-0.2 m/s	velocity	5.24	8.46	8.46	8.46	8.46	8.46	8.46	8.31	8.23	7.88	9.22	7.86		8.46	8.46	8.14
Kwaou-Mathey, Just (FRA) (1999)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)				Henson (2020) - Athlete First: 2020 year end hurdle report															
date		03-Sep-20	time	2.70	3.80	4.91	5.89	7.00	8.04	9.05	10.20	11.31	12.39	13.99	2 / 6				
reaction time			interval	7 steps	1.10	1.11	0.98	1.11	1.04	1.01	1.15	1.11	1.08	1.60			3.19	3.16	3.34
wind		-0.3 m/s	velocity	5.08	8.31	8.23	9.33	8.23	8.79	9.05	7.95	8.23	8.46	8.76	7.86		8.60	8.68	8.21
Zhu Shenglong (CHN) (2000)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)				CAA Hurdle Development (2021)															
date		25-Jun-21	time	2.65	3.77	4.82	5.89	6.97	8.04	9.13	10.23	11.34	12.48	13.99	6 / 1				
reaction time		0.163	interval		1.12	1.05	1.07	1.08	1.07	1.09	1.10	1.11	1.14	1.51			3.24	3.24	3.35
wind		-1.2 m/s	velocity	5.18	8.16	8.70	8.54	8.46	8.54	8.39	8.31	8.23	8.02	9.28	7.86		8.46	8.46	8.19
Brixey, Sam (USA) (1998)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2021 USA Olympic Trials (Eugene, OR) (TV Analysis)				Henson (2021) - Athlete First: 2021 year end hurdle report															
date		26-Jun-21	time	2.50	3.58	4.67	5.70	6.77	7.86	8.99	10.11	11.21	12.38	13.99	9 / 9				
reaction time		0.148	interval	7 steps	1.08	1.09	1.03	1.07	1.09	1.13	1.12	1.10	1.17	1.61			3.20	3.29	3.39
wind		1.8 m/s	velocity	5.49	8.46	8.39	8.87	8.54	8.39	8.09	8.16	8.31	7.81	8.71	7.86		8.57	8.33	8.09
Miyazaki, Takumi (JPN) (2001)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)				Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season															
date		01-May-22	time	2.64	3.71	4.79	5.87	6.96	8.05	9.15	10.26	11.39	12.53	13.99	9 / 8				
reaction time		0.152	interval		1.07	1.08	1.08	1.09	1.09	1.10	1.11	1.13	1.14	1.46			3.23	3.28	3.38
wind		0.8 m/s	velocity	5.20	8.54	8.46	8.46	8.39	8.39	8.31	8.23	8.09	8.02	9.60	7.86		8.49	8.36	8.11
Tokuoka, Ryo (JPN) (1999)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)				Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season															
date		21-May-23	time	2.63	3.70	4.76	5.82	6.87	7.91	8.98	10.05	11.13	12.25	13.99	2 / 9				
reaction time		0.145	interval	7 steps	1.07	1.06	1.06	1.05	1.04	1.07	1.07	1.08	1.12	1.74			3.19	3.16	3.27
wind		0.8 m/s	velocity	5.22	8.54	8.62	8.62	8.70	8.79	8.54	8.54	8.46	8.16	8.06	7.86		8.60	8.68	8.39
Roosen, Sven (NED) (2001)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)				Paris 2024 Olympic Games - Results Book (2024)															
date		03-Aug-24	time	2.50	3.60	4.70	5.77	6.84	7.91	8.99	10.10	11.21	12.32	13.99	6 / 4				
reaction time		0.148	interval		1.10	1.10	1.07	1.07	1.07	1.08	1.11	1.11	1.11	1.67			3.27	3.22	3.33
wind		0.7 m/s	velocity	5.49	8.31	8.31	8.54	8.54	8.54	8.46	8.23	8.23	8.23	8.40	7.86		8.39	8.52	8.23
Czykier, Damian (POL) (1992)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2024 Olympic Games (Paris, FRA)				Paris 2024 Olympic Games - Results Book (2024)															
date		04-Aug-24	time	2.47	3.56	4.62	5.63	6.68	7.73	8.80	9.90	11.05	12.20	13.99	4 / 8				
reaction time		0.153	interval	7 steps	1.09	1.06	1.01	1.05	1.05	1.07	1.10	1.15	1.15	1.79			3.16	3.17	3.40
wind		0.3 m/s	velocity	5.55	8.39	8.62	9.05	8.70	8.70	8.54	8.31	7.95	7.95	7.83	7.86		8.68	8.65	8.06
Valle, Emilio (CUB) (1967)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1986 IAAF World Junor Championships (Athens, GRE) (1.07m)				Miskos (1986) - IAAF biomechanical research - Athens 1986 - hurdle races															
date		19-Jul-86	time	2.62	3.50	4.83	5.91	6.98	8.07	9.19	10.30	11.42	12.54	14.00	1 / 3				
reaction time			interval		0.88	1.33	1.08	1.07	1.09	1.12	1.11	1.12	1.12	1.46			3.29	3.28	3.35
wind		-0.8 m/s	velocity	5.24	10.39	6.87	8.46	8.54	8.39	8.16	8.23	8.16	8.16	9.60	7.86		8.33	8.36	8.19
Teape, Hugh (GBR) (1963)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1992 Olympic Games (Barcelona, ESP)				Knight (1992) - 1992 Olympic report: the hurdling events															
date		03-Aug-92	time	2.64	3.78	4.84	5.97	6.99	8.03	9.10	10.19	11.34	12.57	14.00	1 / 8				
reaction time		0.156	interval		1.14	1.06	1.13	1.02	1.04	1.07	1.09	1.15	1.23	1.43			3.33	3.13	3.47
wind		0.8 m/s	velocity	5.20	8.02	8.62	8.09	8.96	8.79	8.54	8.39	7.95	7.43	9.80	7.86		8.23	8.76	7.90
Kelley, Kai (USA) (1986)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2007 USATF National Championships (Indianapolis, IN)				USATF Men's Hurdle Development (2007)															
date		23-Jun-07	time	2.64	3.77	4.84	5.92	7.01	8.10	9.19	10.28	11.39	12.52	14.00	1 / 4				
reaction time			interval		1.13	1.07	1.08	1.09	1.09	1.09	1.09	1.11	1.13	1.48			3.28	3.27	3.33
wind		-2.8 m/s	velocity	5.20	8.09	8.54	8.46	8.39	8.39	8.39	8.39	8.23	8.09	9.47	7.86		8.36	8.39	8.23
Sato, Hiroyuki (JPN) (1990)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2011 Mikio Oda Memorial (Hiroshima, JPN)				Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13															
date		29-Apr-11	time	2.59	3.66	4.74	5.82	6.92	8.03	9.13	10.25	11.35	12.51	14.00	1 / 5				

reaction time		interval	1.07	1.08	1.08	1.10	1.11	1.10	1.12	1.10	1.16	1.49			3.23	3.31	3.38	
wind	0.7 m/s	velocity	5.30	8.54	8.46	8.46	8.31	8.23	8.31	8.16	8.31	7.88	9.41	7.86	8.49	8.28	8.11	
Mazáč, Martin (CZE) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 1 - 2011 European Team Championships (Stockholm, SWE)			<i>Blomkvist (2011) - www.sub13.se</i>															
date	19-Jun-11	time	2.66	3.72	4.80	5.84	6.90	7.96	9.02	10.12	11.28	12.40		14.00	1 / 4			
reaction time	0.179	interval	1.06	1.08	1.04	1.06	1.06	1.06	1.10	1.16	1.12	1.60				3.18	3.18	3.38
wind	-0.8 m/s	velocity	5.16	8.62	8.46	8.79	8.62	8.62	8.62	8.31	7.88	8.16	8.76	7.86		8.62	8.62	8.11
Furukawa, Yutaro (JPN) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Japanese National Championships (Niigata, JPN)			<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>															
date	28-Jun-15	time	2.63	3.70	4.77	5.83	6.89	7.97	9.09	10.20	11.34	12.48		14.00	9 / 8			
reaction time	0.150	interval	1.07	1.07	1.06	1.06	1.08	1.12	1.11	1.14	1.14	1.52				3.20	3.26	3.39
wind	-1.4 m/s	velocity	5.22	8.54	8.54	8.62	8.62	8.46	8.16	8.23	8.02	8.02	9.22	7.86		8.57	8.41	8.09
Niwa, Hayato (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			<i>(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en</i>															
date	21-Oct-16	time	2.69	3.81	4.91	5.98	7.04	8.10	9.18	10.28	11.38	12.50		14.00	5 / 1			
reaction time		interval	1.12	1.10	1.07	1.06	1.06	1.08	1.10	1.10	1.12	1.50				3.29	3.20	3.32
wind	2.3 m/s	velocity	5.10	8.16	8.31	8.54	8.62	8.62	8.46	8.31	8.31	8.16	9.35	7.86		8.33	8.57	8.26
Furuya, Kyohei (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2017 Mito Invitational (Mito, JPN)			<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>															
date	05-May-17	time	2.64	3.74	4.82	5.90	7.00	8.09	9.18	10.30	11.42	12.55		14.00	5 / 1			
reaction time		interval	1.10	1.08	1.08	1.10	1.09	1.09	1.12	1.12	1.13	1.45				3.26	3.28	3.37
wind	0.3 m/s	velocity	5.20	8.31	8.46	8.46	8.31	8.39	8.39	8.16	8.16	8.09	9.67	7.86		8.41	8.36	8.14
Fudaba, Hiroki (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 East Japan Business Athletics Championships (Yuma, JPN)			<i>(2017) - tfdata-store.com/2017/05/20/post-579/</i>															
date	20-May-17	time	2.71	3.81	4.86	5.94	7.01	8.10	9.18	10.28	11.37	12.50		14.00	2 / 5			
reaction time		interval	7 steps	1.10	1.05	1.08	1.07	1.09	1.08	1.10	1.09	1.13	1.50			3.23	3.24	3.32
wind	1.1 m/s	velocity	5.06	8.31	8.70	8.46	8.54	8.39	8.46	8.31	8.39	8.09	9.35	7.86		8.49	8.46	8.26
Zhang Tao (CHN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)			<i>Henson (2018) - coaching observations</i>															
date	15-Sep-18	time	2.77	3.85	4.90	5.99	7.50	8.11	9.18	10.29	11.36	12.51		14.00	8 / 2			
reaction time		interval	1.08	1.05	1.09	1.51	0.61	1.07	1.11	1.07	1.15	1.49				3.22	3.19	3.33
wind	-0.2 m/s	velocity	4.95	8.46	8.70	8.39	6.05	14.98	8.54	8.23	8.54	7.95	9.41	7.86		8.52	8.60	8.23
Sun Zhenjiang (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	08-Apr-19	time	2.63	3.72	4.78	5.83	6.88	7.97	9.06	10.16	11.30	12.43		14.00	6 / 1			
reaction time	0.177	interval	7 steps	1.09	1.06	1.05	1.05	1.09	1.09	1.10	1.14	1.13	1.57	PB		3.20	3.23	3.37
wind	0.0 m/s	velocity	5.22	8.39	8.62	8.70	8.70	8.39	8.39	8.31	8.02	8.09	8.93	7.86		8.57	8.49	8.14
Zeng Jianhang (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	09-Apr-19	time	2.58	3.65	4.70	5.73	6.77	7.80	8.96	10.22	11.35	12.51		14.00	9 / 2			
reaction time	0.180	interval	1.07	1.05	1.03	1.04	1.03	1.16	1.26	1.13	1.16	1.49				3.15	3.23	3.55
wind	0.2 m/s	velocity	5.32	8.54	8.70	8.87	8.79	8.87	7.88	7.25	8.09	7.88	9.41	7.86		8.70	8.49	7.72
Zhao Pengchuan (CHN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	13-Apr-19	time	2.62	3.73	4.80	5.85	6.92	8.00	9.08	10.16	11.30	12.44		14.00	6 / 1			
reaction time	0.161	interval	1.11	1.07	1.05	1.07	1.08	1.08	1.08	1.14	1.14	1.56				3.23	3.23	3.36
wind	0.6 m/s	velocity	5.24	8.23	8.54	8.70	8.54	8.46	8.46	8.46	8.02	8.02	8.99	7.86		8.49	8.49	8.16
Li Jiming (CHN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	30-May-19	time	2.70	3.78	4.86	5.92	7.00	8.06	9.17	10.26	11.36	12.47		14.00	5 / 2			
reaction time	0.183	interval	1.08	1.08	1.06	1.08	1.06	1.11	1.09	1.10	1.11	1.53				3.22	3.25	3.30
wind	0.0 m/s	velocity	5.08	8.46	8.46	8.62	8.46	8.62	8.23	8.39	8.31	8.23	9.16	7.86		8.52	8.44	8.31
Ortega, Orlando (ESP) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	06-Jun-19	time	2.60	3.71	4.80	5.82	6.87	7.89	8.97	10.02	11.13	12.27		14.00	6 / 9			
reaction time	0.127	interval	7 steps	1.11	1.09	1.02	1.05	1.02	1.08	1.05	1.11	1.14	1.73			3.22	3.15	3.30
wind	0.4 m/s	velocity	5.28	8.23	8.39	8.96	8.70	8.96	8.46	8.70	8.23	8.02	8.10	7.86		8.52	8.70	8.31
Fudaba, Hiroki (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)			<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>															
date	30-Jun-19	time	2.66	3.75	4.81	5.91	6.98	8.07	9.15	10.26	11.37	12.49		14.00	8 / 7			
reaction time	0.148	interval	7 steps	1.09	1.06	1.10	1.07	1.09	1.08	1.11	1.11	1.12	1.51			3.25	3.24	3.34

wind	-0.6 m/s	velocity	5.16	8.39	8.62	8.31	8.54	8.39	8.46	8.23	8.23	8.16	9.28	7.86		8.44	8.46	8.21
Yang Quanlei (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)			CAA Hurdle Development (2021)															
date	24-Apr-21	time	2.66	3.76	4.85	5.94	7.02	8.10	9.20	10.28	11.39	12.51		14.00	4 / 1			
reaction time	0.164	interval		1.10	1.09	1.09	1.08	1.08	1.10	1.08	1.11	1.12	1.49			3.28	3.26	3.31
wind	-1.1 m/s	velocity	5.16	8.31	8.39	8.39	8.46	8.46	8.31	8.46	8.23	8.16	9.41	7.86		8.36	8.41	8.28
Zhang Jinzhao (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)			CAA Hurdle Development (2021)															
date	24-Apr-21	time	2.74	3.84	4.94	5.99	7.06	8.14	9.22	10.29	11.40	12.52		14.00	5 / 3			
reaction time	0.208	interval		1.10	1.10	1.05	1.07	1.08	1.08	1.07	1.11	1.12	1.48	PB		3.25	3.23	3.30
wind	-0.3 m/s	velocity	5.01	8.31	8.31	8.70	8.54	8.46	8.46	8.54	8.23	8.16	9.47	7.86		8.44	8.49	8.31
Li Huaihai (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)			CAA Hurdle Development (2021)															
date	12-Jun-21	time	2.65	3.75	4.84	5.93	7.02	8.11	9.19	10.29	11.39	12.51		14.00	7 / 4			
reaction time	0.139	interval	7 steps	1.10	1.09	1.09	1.09	1.09	1.08	1.10	1.10	1.12	1.49	PB		3.28	3.26	3.32
wind	0.9 m/s	velocity	5.18	8.31	8.39	8.39	8.39	8.39	8.46	8.31	8.31	8.16	9.41	7.86		8.36	8.41	8.26
Pan Zijie (CHN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)			CAA Hurdle Development (2021)															
date	25-Jun-21	time	2.62	3.70	4.76	5.87	6.96	8.04	9.11	10.20	11.32	12.47		14.00	6 / 3			
reaction time	0.167	interval		1.08	1.06	1.11	1.09	1.08	1.07	1.09	1.12	1.15	1.53			3.25	3.24	3.36
wind	0.5 m/s	velocity	5.24	8.46	8.62	8.23	8.39	8.46	8.54	8.39	8.16	7.95	9.16	7.86		8.44	8.46	8.16
Kani, Shota (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Fuse Sprint (Tottori, JPN)			Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season															
date	25-Jun-23	time	2.60	3.71	4.83	5.90	6.98	8.07	9.16	10.27	11.38	12.50		14.00	8 / 7			
reaction time	0.133	interval		1.11	1.12	1.07	1.08	1.09	1.09	1.11	1.11	1.12	1.50			3.30	3.26	3.34
wind	1.1 m/s	velocity	5.28	8.23	8.16	8.54	8.46	8.39	8.39	8.23	8.23	8.16	9.35	7.86		8.31	8.41	8.21
Fernando Santana, José (BRA) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)			Paris 2024 Olympic Games - Results Book (2024)															
date	03-Aug-24	time	2.50	3.62	4.70	5.77	6.83	7.90	8.99	10.11	11.24	12.36		14.00	9 / 5			
reaction time	0.150	interval	7 steps	1.12	1.08	1.07	1.06	1.07	1.09	1.12	1.13	1.12	1.64			3.27	3.22	3.37
wind	0.7 m/s	velocity	5.49	8.16	8.46	8.54	8.62	8.54	8.39	8.16	8.09	8.16	8.55	7.86		8.39	8.52	8.14
Masashi, Kimoto (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 West Japan University Championships (Kyoto, JPN)			(2016.07.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	01-Jul-16	time	2.66	3.74	4.84	5.93	7.01	8.10	9.20	10.31	11.44	12.58		14.01	4 / 1			
reaction time		interval		1.08	1.10	1.09	1.08	1.09	1.10	1.11	1.13	1.14	1.43			3.27	3.27	3.38
wind	-2.1 m/s	velocity	5.16	8.46	8.31	8.39	8.46	8.39	8.31	8.23	8.09	8.02	9.80	7.85		8.39	8.39	8.11
Yada, Gen (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2016 Japanese University Championships (Kumagaya, JPN)			(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	04-Sep-16	time	2.70	3.85	4.95	6.03	7.12	8.21	9.31	10.40	11.50	12.63		14.01	5 / 1			
reaction time	0.135	interval		1.15	1.10	1.08	1.09	1.09	1.10	1.09	1.10	1.13	1.38			3.33	3.28	3.32
wind	0.6 m/s	velocity	5.08	7.95	8.31	8.46	8.39	8.39	8.31	8.39	8.31	8.09	10.16	7.85		8.23	8.36	8.26
Kagimoto, Masahiro (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2016 Japanese University Championships (Kumagaya, JPN)			(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	04-Sep-16	time	2.71	3.80	4.88	5.98	7.08	8.18	9.29	10.37	11.47	12.59		14.01	7 / 2			
reaction time	0.159	interval		1.09	1.08	1.10	1.10	1.10	1.11	1.08	1.10	1.12	1.42			3.27	3.31	3.30
wind	0.6 m/s	velocity	5.06	8.39	8.46	8.31	8.31	8.31	8.23	8.46	8.31	8.16	9.87	7.85		8.39	8.28	8.31
Niwa, Hayato (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	21-Oct-16	time	2.71	3.81	4.89	5.97	7.04	8.11	9.17	10.24	11.33	12.50		14.01	3 / 2			
reaction time		interval		1.10	1.08	1.08	1.07	1.07	1.06	1.07	1.09	1.17	1.51			3.26	3.20	3.33
wind	1.0 m/s	velocity	5.06	8.31	8.46	8.46	8.54	8.54	8.62	8.54	8.39	7.81	9.28	7.85		8.41	8.57	8.23
Furumoto, Tsubasa (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2017 Mito Invitational (Mito, JPN)			(2017) - tfdata-store.com/2017/05/06/post-423/															
date	05-May-17	time	2.64	3.73	4.84	5.91	6.99	8.08	9.17	10.27	11.41	12.54		14.01	5 / 1			
reaction time		interval		1.09	1.11	1.07	1.08	1.09	1.09	1.10	1.14	1.13	1.47			3.27	3.26	3.37
wind	0.6 m/s	velocity	5.20	8.39	8.23	8.54	8.46	8.39	8.39	8.31	8.02	8.09	9.54	7.85		8.39	8.41	8.14
Iwafune, Yoichi (JPN) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Nambu Memorial (Sapporo, JPN)			(2017) - tfdata-store.com/2017/07/12/post-1025/															
date	09-Jul-17	time	2.68	3.78	4.85	5.93	7.00	8.06	9.15	10.26	11.37	12.52		14.01	5 / 3			
reaction time		interval		1.10	1.07	1.08	1.07	1.06	1.09	1.11	1.11	1.15	1.49			3.25	3.22	3.37
wind	2.7 m/s	velocity	5.12	8.31	8.54	8.46	8.54	8.62	8.39	8.23	8.23	7.95	9.41	7.85		8.44	8.52	8.14

Ji Wei (CHN) (1984)																
FINAL - 2017 Chinese National Games (Tianjin, CHN)																
date	03-Sep-17	time	2.73	3.84	4.92	5.99	7.03	8.08	9.16	10.26	11.36	12.50		14.01		
reaction time	0.171	interval		1.11	1.08	1.07	1.04	1.05	1.08	1.10	1.10	1.14	1.51			
wind	0.3 m/s	velocity	5.03	8.23	8.46	8.54	8.79	8.70	8.46	8.31	8.31	8.02	9.28	7.85		
Chu Pengfei (CHN) (1993)																
FINAL - 2017 Chinese National Games (Tianjin, CHN)																
date	03-Sep-17	time	2.71	3.83	4.89	5.97	7.02	8.09	9.21	10.32	11.43	12.54		14.01		
reaction time		interval		1.12	1.06	1.08	1.05	1.07	1.12	1.11	1.11	1.11	1.47			
wind	0.3 m/s	velocity	5.06	8.16	8.62	8.46	8.70	8.54	8.16	8.23	8.23	8.23	9.54	7.85		
Zhu Shenglong (CHN) (2000)																
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)																
date	30-May-19	time	2.71	3.80	4.89	5.96	7.03	8.09	9.16	10.26	11.37	12.51		14.01		
reaction time		interval		1.09	1.09	1.07	1.07	1.06	1.07	1.10	1.11	1.14	1.50	PB		
wind	0.0 m/s	velocity	5.06	8.39	8.39	8.54	8.54	8.62	8.54	8.31	8.23	8.02	9.35	7.85		
Wu Zhenhua (CHN) (1998)																
Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)																
date	25-Jun-21	time	2.69	3.77	4.87	5.94	7.02	8.11	9.19	10.29	11.38	12.51		14.01		
reaction time	0.201	interval		1.08	1.10	1.07	1.08	1.09	1.08	1.10	1.09	1.13	1.50	PB		
wind	0.5 m/s	velocity	5.10	8.46	8.31	8.54	8.46	8.39	8.46	8.31	8.39	8.09	9.35	7.85		
Trajkovic, Milan (CYP) (1992)																
Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	04-Aug-21	time	2.57	3.62	4.64	5.69	6.72	7.77	8.83	9.86	11.01	12.21		14.01		
reaction time	0.147	interval	7 steps	1.05	1.02	1.05	1.03	1.05	1.06	1.03	1.15	1.20	1.80			
wind	-0.1 m/s	velocity	5.34	8.70	8.96	8.70	8.87	8.70	8.62	8.87	7.95	7.62	7.79	7.85		
Yamanaka, Kyouzuke (JPN) (2005)																
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)																
date	06-Aug-23	time	2.72	3.79	4.88	5.97	7.05	8.15	9.23	10.33	11.44	12.55		14.01		
reaction time	0.187	interval		1.07	1.09	1.09	1.08	1.10	1.08	1.10	1.11	1.11	1.46			
wind	0.8 m/s	velocity	5.04	8.54	8.39	8.39	8.46	8.31	8.46	8.31	8.23	8.23	9.60	7.85		
Doucouré, Ladj (FRA) (1983)																
FINAL - 2001 European Cup (Bremen, GER)																
date	24-Jun-01	time	2.70	3.78	4.82	5.84	6.86	7.91	8.98	10.03	11.17	12.44		14.02		
reaction time	0.164	interval		1.08	1.04	1.02	1.02	1.05	1.07	1.05	1.14	1.27	1.58			
wind	1.3 m/s	velocity	5.08	8.46	8.79	8.96	8.96	8.70	8.54	8.70	8.02	7.20	8.87	7.85		
Sato, Hiroyuki (JPN) (1990)																
FINAL - 2013 Seiko Golden Grand Prix (Tokyo, JPN)																
date	05-May-13	time	2.65	3.76	4.85	5.95	7.04	8.13	9.21	10.32	11.43	12.56		14.02		
reaction time		interval		1.11	1.09	1.10	1.09	1.09	1.08	1.11	1.11	1.13	1.46			
wind	-1.4 m/s	velocity	5.18	8.23	8.39	8.31	8.39	8.39	8.46	8.23	8.23	8.09	9.60	7.85		
Takayama, Shunya (JPN) (1994)																
FINAL - 2016 Japanese University Championships (Kumagaya, JPN)																
date	04-Sep-16	time	2.67	3.74	4.84	5.92	7.01	8.09	9.19	10.31	11.43	12.56		14.02		
reaction time	0.159	interval		1.07	1.10	1.08	1.09	1.08	1.10	1.12	1.12	1.13	1.46			
wind	-1.9 m/s	velocity	5.14	8.54	8.31	8.46	8.39	8.46	8.31	8.16	8.16	8.09	9.60	7.85		
Furuya, Kyohei (JPN) (1996)																
FINAL - 2017 Mito Invitational (Mito, JPN)																
date	05-May-17	time	2.63	3.72	4.82	5.93	7.05	8.15	9.23	10.37	11.48	12.59		14.02		
reaction time		interval		1.09	1.10	1.11	1.12	1.10	1.08	1.14	1.11	1.11	1.43			
wind	-2.3 m/s	velocity	5.22	8.39	8.31	8.23	8.16	8.31	8.46	8.02	8.23	8.23	9.80	7.85		
Abe, Hirofumi (JPN) (1985)																
FINAL - 2017 East Japan Business Athletics Championships (Yuma, JPN)																
date	20-May-17	time	2.61	3.71	4.80	5.88	6.95	8.06	9.14	10.26	11.40	12.53		14.02		
reaction time		interval		1.10	1.09	1.08	1.07	1.11	1.08	1.12	1.14	1.13	1.49	PB		
wind	1.1 m/s	velocity	5.26	8.31	8.39	8.46	8.54	8.23	8.46	8.16	8.02	8.09	9.41	7.85		
Ngo, Matteo (FRA) (1998)																
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)																
date	13-Sep-20	time	2.63	3.71	4.73	5.84	6.89	8.00	9.05	10.13	11.24	12.39		14.02		
reaction time	0.218	interval		1.08	1.02	1.11	1.05	1.11	1.05	1.08	1.11	1.15	1.63			
wind	0.0 m/s	velocity	5.22	8.46	8.96	8.23	8.70	8.23	8.70	8.46	8.23	7.95	8.60	7.85		

Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.70	3.79	4.85	5.94	7.02	8.09	9.19	10.31	11.43	12.56		14.03	8 / 5			
reaction time	0.172	interval		1.09	1.06	1.09	1.08	1.07	1.10	1.12	1.12	1.13	1.47	PB		3.24	3.25	3.37
wind	0.5 m/s	velocity	5.08	8.39	8.62	8.39	8.46	8.54	8.31	8.16	8.16	8.09	9.54	7.84		8.46	8.44	8.14

Lararaudeuse, Jeremie (MRI) (2001)**Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)**

Henson (2024) - Athlete First: 2021 year end hurdle report

date	03-Aug-21	time	2.56	3.64	4.73	5.76	6.84	7.88	9.00	10.08	11.24	12.44		14.03	1 / 7			
reaction time	0.132	interval		1.08	1.09	1.03	1.08	1.04	1.12	1.08	1.16	1.20	1.59	PB		3.20	3.24	3.44
wind	-0.1 m/s	velocity	5.36	8.46	8.39	8.87	8.46	8.79	8.16	8.46	7.88	7.62	8.82	7.84		8.57	8.46	7.97

Scantling, Garrett (USA) (1993)**Decathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)**

Henson (2024) - Athlete First: 2021 year end hurdle report

date	05-Aug-21	time	2.64	3.75	4.82	5.94	7.00	8.07	9.15	10.32	11.42	12.49		14.03	6 / 2			
reaction time	0.162	interval	7 steps	1.11	1.07	1.12	1.06	1.07	1.08	1.17	1.10	1.07	1.54			3.30	3.21	3.34
wind	-1.0 m/s	velocity	5.20	8.23	8.54	8.16	8.62	8.54	8.46	7.81	8.31	8.54	9.10	7.84		8.31	8.54	8.21

Fujihara, Koki (JPN) (2002)**B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)**

Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season

date	29-Apr-22	time	2.63	3.74	4.80	5.85	6.90	7.99	9.10	10.23	11.38	12.50		14.03	8 / 4			
reaction time	0.177	interval	7 steps	1.11	1.06	1.05	1.05	1.09	1.11	1.13	1.15	1.12	1.53			3.22	3.25	3.40
wind	-0.7 m/s	velocity	5.22	8.23	8.62	8.70	8.70	8.39	8.23	8.09	7.95	8.16	9.16	7.84		8.52	8.44	8.06

Kulebyakin, Vyacheslav (URS) (1950)**FINAL - 1975 International "Pravda" Sportfest (Sotschi, URS)**

Artyschenko (1977) - zwischen den hürden geht es um die sekunde, teil 1

date	30-May-75	time	2.2	3.3	4.5	5.6	6.6	7.7	8.8	9.9	11.0	12.1		13.8	/ 2			
reaction time		interval		1.10	1.16	1.09	1.05	1.07	1.09	1.13	1.06	1.09	1.73			3.35	3.21	3.28
wind	-0.2 m/s	velocity	6.15	8.31	7.88	8.39	8.70	8.54	8.39	8.09	8.62	8.39	8.10	7.97		8.19	8.54	8.36

Piétris, Dimitrios (GRE) (1979)**FINAL - 2001 European Cup (Bremen, GER)**Graubner (2007) - <http://www.fgs.uni-halle.de>

date	24-Jun-01	time	2.78	3.87	4.93	6.02	7.09	8.17	9.23	10.31	11.45	12.56		14.04	1 / 8			
reaction time	0.155	interval		1.09	1.06	1.09	1.07	1.08	1.06	1.08	1.14	1.11	1.48			3.24	3.21	3.33
wind	1.3 m/s	velocity	4.94	8.39	8.62	8.39	8.54	8.46	8.62	8.46	8.02	8.23	9.47	7.83		8.46	8.54	8.23

Nomoto, Hideki (JPN) (1984)**Heat 1 - 2008 Mikio Oda Memorial (Hiroshima, JPN)**

Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles

date	29-Apr-08	time	2.49	3.60	4.67	5.73	6.81	7.90	8.99	10.10	11.22	12.35		14.04	/ 4			
reaction time		interval		1.11	1.07	1.06	1.08	1.09	1.09	1.11	1.12	1.13	1.69			3.24	3.26	3.36
wind	0.1 m/s	velocity	5.51	8.23	8.54	8.62	8.46	8.39	8.39	8.23	8.16	8.09	8.30	7.83		8.46	8.41	8.16

Wado, Tatsuya (JPN) (1990)**Semi-Final 2 - 2011 Japanese National Championships (Kumagaya, JPN)**

Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro

date	11-Jun-11	time	2.59	3.68	4.75	5.86	6.93	8.03	9.14	10.24	11.36	12.51		14.04	/ 3			
reaction time		interval		1.09	1.07	1.11	1.07	1.10	1.11	1.10	1.12	1.15	1.53			3.27	3.28	3.37
wind	-0.1 m/s	velocity	5.30	8.39	8.54	8.23	8.54	8.31	8.23	8.31	8.16	7.95	9.16	7.83		8.39	8.36	8.14

Vukicevic, Vladimir (NOR) (1991)**FINAL - 2011 Windsprint (Sundsvall, SWE)**Blomkvist (2011) - www.sub13.se

date	31-Jul-11	time	2.67	3.74	4.81	5.89	6.98	8.07	9.17	10.28	11.39	12.52		14.04	/ 2			
reaction time		interval		1.07	1.07	1.08	1.09	1.09	1.10	1.11	1.11	1.13	1.52			3.22	3.28	3.35
wind	2.8 m/s	velocity	5.14	8.54	8.54	8.46	8.39	8.39	8.31	8.23	8.23	8.09	9.22	7.83		8.52	8.36	8.19

Ogata, Akihiro (JPN) (1993)**B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)**(2017) - tdata-store.com/2017/05/01/458/

date	29-Apr-17	time	2.64	3.74	4.83	5.90	6.98	8.07	9.16	10.25	11.39	12.52		14.04	8 / 1			
reaction time		interval	7 steps	1.10	1.09	1.07	1.08	1.09	1.09	1.09	1.14	1.13	1.52			3.26	3.26	3.36
wind	-1.5 m/s	velocity	5.20	8.31	8.39	8.54	8.46	8.39	8.39	8.39	8.02	8.09	9.22	7.83		8.41	8.41	8.16

Zhao Pengchuan (CHN) (1993)**FINAL - 2019 Chinese National Championships (Shenyang, CHN)**

CAA Hurdle Development (2019)

date	08-Jul-19	time	2.67	3.77	4.84	5.90	6.96	8.02	9.11	10.22	11.35	12.46		14.04	4 / 7			
reaction time	0.164	interval		1.10	1.07	1.06	1.06	1.06	1.09	1.11	1.13	1.11	1.58			3.23	3.21	3.35
wind	0.1 m/s	velocity	5.14	8.31	8.54	8.62	8.62	8.62	8.39	8.23	8.09	8.23	8.87	7.83		8.49	8.54	8.19

Muratake, Rachid (JPN) (2002)**FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (99cm)**

Kota (2019) - 72nd high school champs: JAF scientific committee - biomechanics data

date	08-Aug-19	time	2.64	3.73	4.83	5.92	7.02	8.13	9.25	10.37	11.49	12.63		14.04	6 / 1			
reaction time		interval		1.09	1.10	1.09	1.10	1.11	1.12	1.12	1.12	1.14	1.41	PB		3.28	3.33	3.38
wind	-3.0 m/s	velocity	5.20	8.39	8.31	8.39	8.31	8.23	8.16	8.16	8.16	8.02	9.94	7.83		8.36	8.23	8.11

Wang Luoxi (CHN) (2001)**U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)**

CAA Hurdle Development (2019)

date	14-Aug-19	time	2.57	3.67	4.74	5.80	6.87	7.96	9.04	10.14	11.24	12.39	14.04	3 / 4				
reaction time	0.178	interval		1.10	1.07	1.06	1.07	1.09	1.08	1.10	1.10	1.15	1.65			3.23	3.24	3.35
wind	0.5 m/s	velocity	5.34	8.31	8.54	8.62	8.54	8.39	8.46	8.31	8.31	7.95	8.50	7.83		8.49	8.46	8.19
Fung Kin Hei (HKG) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)			CAA Hurdle Development (2019)															
date	14-Aug-19	time	2.65	3.72	4.81	5.91	6.97	8.07	9.18	10.28	11.39	12.53	14.04	7 / 3				
reaction time	0.160	interval		1.07	1.09	1.10	1.06	1.10	1.11	1.10	1.11	1.14	1.51			3.26	3.27	3.35
wind	-0.3 m/s	velocity	5.18	8.54	8.39	8.31	8.62	8.31	8.23	8.31	8.23	8.02	9.28	7.83		8.41	8.39	8.19
Yu Haonan (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)			CAA Hurdle Development (2019)															
date	14-Aug-19	time	2.64	3.75	4.83	5.94	7.02	8.12	9.21	10.31	11.41	12.53	14.04	4 / 3				
reaction time	0.154	interval		1.11	1.08	1.11	1.08	1.10	1.09	1.10	1.10	1.12	1.51			3.30	3.27	3.32
wind	0.6 m/s	velocity	5.20	8.23	8.46	8.23	8.46	8.31	8.39	8.31	8.31	8.16	9.28	7.83		8.31	8.39	8.26
Wu Zhenhua (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)			CAA Hurdle Development (2021)															
date	24-Apr-21	time	2.70	3.79	4.90	5.98	7.06	8.16	9.26	10.35	11.46	12.59	14.04	9 / 4				
reaction time	0.174	interval		1.09	1.11	1.08	1.08	1.10	1.10	1.09	1.11	1.13	1.45	PB		3.28	3.28	3.33
wind	-0.3 m/s	velocity	5.08	8.39	8.23	8.46	8.46	8.31	8.31	8.39	8.23	8.09	9.67	7.83		8.36	8.36	8.23
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)			Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season															
date	29-Apr-22	time	2.68	3.78	4.87	5.95	7.02	8.12	9.23	10.35	11.46	12.58	14.04	7 / 5				
reaction time	0.124	interval		1.10	1.09	1.08	1.07	1.10	1.11	1.12	1.11	1.12	1.46			3.27	3.28	3.35
wind	-0.7 m/s	velocity	5.12	8.31	8.39	8.46	8.54	8.31	8.23	8.16	8.23	8.16	9.60	7.83		8.39	8.36	8.19
Owens-Delerme, Ayden (PUR) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			Henson (2024) - Athlete First: 2023 year end hurdle report															
date	26-Aug-23	time	2.64	3.74	4.83	5.92	7.02	8.08	9.18	10.28	11.42	12.56	14.04	7 / 4				
reaction time	0.073	interval	7 steps	1.10	1.09	1.09	1.10	1.06	1.10	1.10	1.14	1.14	1.48			3.28	3.26	3.38
wind	0.2 m/s	velocity	5.20	8.31	8.39	8.39	8.31	8.62	8.31	8.31	8.02	8.02	9.47	7.83		8.36	8.41	8.11
Baldwin, Heath (USA) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)			Paris 2024 Olympic Games - Results Book (2024)															
date	03-Aug-24	time	2.57	3.66	4.74	5.81	6.88	7.97	9.06	10.15	11.27	12.38	14.04	7 / 6				
reaction time	0.145	interval	7 steps	1.09	1.08	1.07	1.07	1.09	1.09	1.09	1.12	1.11	1.66			3.24	3.25	3.32
wind	0.7 m/s	velocity	5.34	8.39	8.46	8.54	8.54	8.39	8.39	8.39	8.16	8.23	8.45	7.83		8.46	8.44	8.26
Jackson, Colin (GBR) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 1985 European Junior Championships (Cottbus, GDR) (99cm)			Warburton (1985) - 1985 european junior championships - hurdles															
date	23-Aug-85	time	2.42	3.51	4.57	5.64	6.70	7.73	8.86	9.91	11.00	12.13	14.05	/ 1				
reaction time		interval		1.09	1.06	1.07	1.06	1.03	1.13	1.05	1.09	1.13	1.92			3.22	3.22	3.27
wind	-0.8 m/s	velocity	5.67	8.39	8.62	8.54	8.62	8.87	8.09	8.70	8.39	8.09	7.30	7.83		8.52	8.52	8.39
McDowell, Jon (USA) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2007 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2007)															
date	23-Jun-07	time	2.84	3.94	5.00	6.11	7.18	8.26	9.36	10.46	11.58	12.71	14.05	1 / 7				
reaction time		interval		1.10	1.06	1.11	1.07	1.08	1.10	1.10	1.12	1.13	1.34			3.27	3.25	3.35
wind	-1.9 m/s	velocity	4.83	8.31	8.62	8.23	8.54	8.46	8.31	8.31	8.16	8.09	10.46	7.83		8.39	8.44	8.19
Puliček, Tomáš (CZE) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)			Feher (2014) - Final report from the U18 & U20 Czech Republic national championships															
date	28-Jun-14	time	2.74	3.82	4.93	6.00	7.05	8.10	9.17	10.24	11.33	12.44	14.05	3 / 1				
reaction time	0.247	interval		1.08	1.11	1.07	1.05	1.05	1.07	1.07	1.09	1.11	1.61			3.26	3.17	3.27
wind	-0.3 m/s	velocity	5.01	8.46	8.23	8.54	8.70	8.70	8.54	8.54	8.39	8.23	8.71	7.83		8.41	8.65	8.39
Furuya, Takumu (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Japanese National High School Championships (Kofu, JPN) (99cm)			Yanagiya (2014) - research on athlete performance and technique- 2014 data book															
date	03-Aug-14	time	2.64	3.74	4.82	5.89	6.97	8.05	9.16	10.27	11.39	12.55	14.05	4 / 1				
reaction time		interval		1.10	1.08	1.07	1.08	1.08	1.11	1.11	1.12	1.16	1.50			3.25	3.27	3.39
wind	-2.4 m/s	velocity	5.20	8.31	8.46	8.54	8.46	8.46	8.23	8.23	8.16	7.88	9.35	7.83		8.44	8.39	8.09
Katsuta, Chiku (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	21-Oct-16	time	2.67	3.75	4.83	5.90	6.97	8.04	9.14	10.23	11.33	12.51	14.05	1 / 1				
reaction time		interval		1.08	1.08	1.07	1.07	1.07	1.10	1.09	1.10	1.18	1.54			3.23	3.24	3.37
wind	1.5 m/s	velocity	5.14	8.46	8.46	8.54	8.54	8.54	8.31	8.39	8.31	7.75	9.10	7.83		8.49	8.46	8.14
Hiramatsu, Papdemba (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2017 Mito Invitational (Mito, JPN)			(2017) - tdata-store.com/2017/05/06/post-423/															
date	05-May-17	time	2.59	3.70	4.80	5.88	6.98	8.06	9.16	10.29	11.41	12.56	14.05	2 / 2				

reaction time		interval	7 steps	1.11	1.10	1.08	1.10	1.08	1.10	1.13	1.12	1.15	1.49			3.29	3.28	3.40
wind	0.6 m/s	velocity	5.30	8.23	8.31	8.46	8.31	8.46	8.31	8.09	8.16	7.95	9.41	7.83		8.33	8.36	8.06
Furukawa, Yutaro (JPN) (1985)																		
FINAL	- 2017 Mito Invitational (Mito, JPN)																	
date	05-May-17	time	2.64	3.72	4.81	5.90	6.97	8.06	9.16	10.27	11.39	12.53		14.05				
reaction time		interval		1.08	1.09	1.09	1.07	1.09	1.10	1.11	1.12	1.14	1.52			3.26	3.26	3.37
wind	-2.3 m/s	velocity	5.20	8.46	8.39	8.39	8.54	8.39	8.31	8.23	8.16	8.02	9.22	7.83		8.41	8.41	8.14
Maeda, Hirotake (JPN) (1996)																		
Heat 3	- 2017 Japanese National Championships (Osaka, JPN)																	
date	24-Jun-17	time	2.60	3.73	4.82	5.92	7.01	8.16	9.30	10.41	11.51	12.64		14.05				
reaction time	0.137	interval		1.13	1.09	1.10	1.09	1.15	1.14	1.11	1.10	1.13	1.41			3.32	3.38	3.34
wind	0.5 m/s	velocity	5.28	8.09	8.39	8.31	8.39	7.95	8.02	8.23	8.31	8.09	9.94	7.83		8.26	8.11	8.21
Li Haifeng (CHN) (1989)																		
FINAL	- 2017 Chinese National Games (Tianjin, CHN)																	
date	03-Sep-17	time	2.70	3.80	4.91	5.99	7.05	8.15	9.24	10.34	11.48	12.61		14.05				
reaction time		interval		1.10	1.11	1.08	1.06	1.10	1.09	1.10	1.14	1.13	1.44			3.29	3.25	3.37
wind	0.3 m/s	velocity	5.08	8.31	8.23	8.46	8.62	8.31	8.39	8.31	8.02	8.09	9.74	7.83		8.33	8.44	8.14
Zhao Baixian (CHN)																		
FINAL	- 2018 Chinese National U18 Championships (Jinzhou, CHN) (2018.05.19) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups																	
date	17-May-18	time	2.62	3.73	4.82	5.89	6.97	8.07	9.15	10.25	11.37	12.50		14.05				
reaction time		interval		1.11	1.09	1.07	1.08	1.10	1.08	1.10	1.12	1.13	1.55			3.27	3.26	3.35
wind	??	velocity	5.24	8.23	8.39	8.54	8.46	8.31	8.46	8.31	8.16	8.09	9.05	7.83		8.39	8.41	8.19
Zhang Tao (CHN) (1997)																		
Heat 2	- 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																	
date	08-Apr-19	time	2.72	3.82	4.90	5.98	7.06	8.14	9.26	10.34	11.44	12.58		14.05				
reaction time	0.200	interval		1.10	1.08	1.08	1.08	1.08	1.12	1.08	1.10	1.14	1.47			3.26	3.28	3.32
wind	-0.6 m/s	velocity	5.04	8.31	8.46	8.46	8.46	8.46	8.16	8.46	8.31	8.02	9.54	7.83		8.41	8.36	8.26
Pan Yicheng (CHN) (2000)																		
U20 Heat 3	- 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)																	
date	14-Aug-19	time	2.70	3.79	4.87	5.95	7.04	8.11	9.21	10.31	11.44	12.58		14.05				
reaction time	0.163	interval		1.09	1.08	1.08	1.09	1.07	1.10	1.10	1.13	1.14	1.47			3.25	3.26	3.37
wind	0.6 m/s	velocity	5.08	8.39	8.46	8.46	8.39	8.54	8.31	8.31	8.09	8.02	9.54	7.83		8.44	8.41	8.14
Yang Quanlei (CHN) (1999)																		
Heat 1	- 2021 Chinese National Championships (Chongqing, CHN)																	
date	25-Jun-21	time	2.68	3.78	4.88	5.96	7.05	8.14	9.22	10.33	11.45	12.57		14.05				
reaction time	0.164	interval		1.10	1.10	1.08	1.09	1.09	1.08	1.11	1.12	1.12	1.48			3.28	3.26	3.35
wind	-1.0 m/s	velocity	5.12	8.31	8.31	8.46	8.39	8.39	8.46	8.23	8.16	8.16	9.47	7.83		8.36	8.41	8.19
Qin Weiibo (CHN) (2002)																		
Heat 2	- 2021 Chinese National Championships (Chongqing, CHN)																	
date	25-Jun-21	time	2.64	3.75	4.83	5.92	6.99	8.06	9.16	10.25	11.37	12.52		14.05				
reaction time	0.198	interval	7 steps	1.11	1.08	1.09	1.07	1.07	1.10	1.09	1.12	1.15	1.53	PB		3.28	3.24	3.36
wind	-1.2 m/s	velocity	5.20	8.23	8.46	8.39	8.54	8.54	8.31	8.39	8.16	7.95	9.16	7.83		8.36	8.46	8.16
Matsumoto, Nozomu (JPN) (2003)																		
FINAL	- 2021 Japanese High School National Championships (Fukui, JPN)																	
date	01-Aug-21	time	2.63	3.74	4.81	5.91	6.98	8.07	9.18	10.28	11.41	12.54		14.05				
reaction time	0.158	interval		1.11	1.07	1.10	1.07	1.09	1.11	1.10	1.13	1.13	1.51	PB		3.28	3.27	3.36
wind	1.4 m/s	velocity	5.22	8.23	8.54	8.31	8.54	8.39	8.23	8.31	8.09	8.09	9.28	7.83		8.36	8.39	8.16
Asai, Seira (JPN) (2006)																		
FINAL	- 2024 Japanese National High School Championships (Fukuoka, JPN)																	
date	01-Aug-24	time	2.69	3.79	4.87	5.97	7.04	8.13	9.22	10.32	11.45	12.58		14.05				
reaction time	0.159	interval		1.10	1.08	1.10	1.07	1.09	1.09	1.10	1.13	1.13	1.47	PB		3.28	3.25	3.36
wind	-0.7 m/s	velocity	5.10	8.31	8.46	8.31	8.54	8.39	8.39	8.31	8.09	8.09	9.54	7.83		8.36	8.44	8.16
Takaoka, Yudai (JPN) (1999)																		
Semi-Final 1	- 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																	
date	21-Oct-16	time	2.66	3.76	4.84	5.93	7.03	8.11	9.21	10.35	11.47	12.58		14.06				
reaction time		interval		1.10	1.08	1.09	1.10	1.08	1.10	1.14	1.12	1.11	1.48			3.27	3.28	3.37
wind	1.0 m/s	velocity	5.16	8.31	8.46	8.39	8.31	8.46	8.31	8.02	8.16	8.23	9.47	7.82		8.39	8.36	8.14
Nagamatsu, Hiroya (JPN) (1999)																		
Semi-Final 2	- 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																	
date	21-Oct-16	time	2.65	3.76	4.89	5.99	7.07	8.20	9.31	10.42	11.53	12.65		14.06				
reaction time		interval		1.11	1.13	1.10	1.08	1.13	1.11	1.11	1.11	1.12	1.41			3.34	3.32	3.34

wind	1.6 m/s	velocity	5.18	8.23	8.09	8.31	8.46	8.09	8.23	8.23	8.23	8.16	9.94	7.82		8.21	8.26	8.21
Fudaba, Hiroki (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2017 Japanese National Championships (Osaka, JPN)			(2017) - tfdata-store.com/2017/07/13/post-1040/															
date	24-Jun-17	time	2.68	3.77	4.85	5.91	6.98	8.05	9.15	10.27	11.40	12.54		14.06	9 / 8			
reaction time	0.171	interval	7 steps	1.09	1.08	1.06	1.07	1.07	1.10	1.12	1.13	1.14	1.52			3.23	3.24	3.39
wind	0.3 m/s	velocity	5.12	8.39	8.46	8.62	8.54	8.54	8.31	8.16	8.09	8.02	9.22	7.82		8.49	8.46	8.09
Levin, Anton (SWE) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Windsprint (Sundsvall, SWE)			(2017) - www.windsprint/Splittider/															
date	30-Jul-17	time	2.66	3.78	4.87	5.93	7.02	8.10	9.20	10.33	11.43	12.56		14.06	1 / 1			
reaction time		interval		1.12	1.09	1.06	1.09	1.08	1.10	1.13	1.10	1.13	1.50			3.27	3.27	3.36
wind	1.0 m/s	velocity	5.16	8.16	8.39	8.62	8.39	8.46	8.31	8.09	8.31	8.09	9.35	7.82		8.39	8.39	8.16
Nakamura, Akihiko (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2019 Japanese National Multi-Event Championships (Nagano, JPN)			Matsubayashi (2019) - research on athlete performance and technique- 2019 data book															
date	09-Jun-19	time	2.69	3.80	4.88	5.98	7.07	8.17	9.26	10.37	11.50	12.62		14.06	4 / 2			
reaction time		interval		1.11	1.08	1.10	1.09	1.10	1.09	1.11	1.13	1.12	1.44			3.29	3.28	3.36
wind	2.1 m/s	velocity	5.10	8.23	8.46	8.31	8.39	8.31	8.39	8.23	8.09	8.16	9.74	7.82		8.33	8.36	8.16
Zheng Wang (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)			CAA Hurdle Development (2019)															
date	14-Aug-19	time	2.64	3.74	4.80	5.87	6.93	8.02	9.09	10.18	11.33	12.46		14.06	7 / 2			
reaction time	0.167	interval		1.10	1.06	1.07	1.06	1.09	1.07	1.09	1.15	1.13	1.60			3.23	3.22	3.37
wind	-0.1 m/s	velocity	5.20	8.31	8.62	8.54	8.62	8.39	8.54	8.39	7.95	8.09	8.76	7.82		8.49	8.52	8.14
Xie Wenjun (CHN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)			CAA Hurdle Development (2021)															
date	12-Jun-21	time	2.68	3.77	4.84	5.89	6.96	8.04	9.14	10.27	11.39	12.53		14.06	2 / 6			
reaction time	0.152	interval		1.09	1.07	1.05	1.07	1.08	1.10	1.13	1.12	1.14	1.53			3.21	3.25	3.39
wind	0.9 m/s	velocity	5.12	8.39	8.54	8.70	8.54	8.46	8.31	8.09	8.16	8.02	9.16	7.82		8.54	8.44	8.09
Li Huaihai (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)			CAA Hurdle Development (2021)															
date	25-Jun-21	time	2.68	3.77	4.85	5.94	7.02	8.11	9.21	10.31	11.41	12.56		14.06	8 / 2			
reaction time	0.169	interval	7 steps	1.09	1.08	1.09	1.08	1.09	1.10	1.10	1.10	1.15	1.50			3.26	3.27	3.35
wind	-0.2 m/s	velocity	5.12	8.39	8.46	8.39	8.46	8.39	8.31	8.31	8.31	7.95	9.35	7.82		8.41	8.39	8.19
Hirotsomi, Ato (JPN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese U18 National Championships (Matsuyama, JPN) (99cm)			Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season															
date	22-Oct-21	time	2.73	3.83	4.91	5.99	7.07	8.14	8.25	10.33	11.45	12.56		14.06	4 / 3			
reaction time	0.160	interval		1.10	1.08	1.08	1.08	1.07	0.11	2.08	1.12	1.11	1.50			3.26	2.26	4.31
wind	-0.6 m/s	velocity	5.03	8.31	8.46	8.46	8.46	8.54	83.09	4.39	8.16	8.23	9.35	7.82		8.41	12.13	6.36
Herring, Aubrey (USA) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 Windsprint (Sundsvall, SWE)			Blomkvist (2010) - www.sub13.se															
date	08-Aug-10	time	2.68	3.75	4.84	5.90	6.96	8.04	9.13	10.23	11.36	12.49		14.07	1 / 5			
reaction time		interval		1.07	1.09	1.06	1.06	1.08	1.09	1.10	1.13	1.13	1.58			3.22	3.23	3.36
wind	1.1 m/s	velocity	5.12	8.54	8.39	8.62	8.62	8.46	8.39	8.31	8.09	8.09	8.87	7.82		8.52	8.49	8.16
Kuriki, Anthony Tyrell (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Japanese National Junior Championships (Nagoya, JPN) (99cm)			Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015 competitions															
date	16-Oct-15	time	2.67	3.79	4.89	5.98	7.05	8.14	9.25	10.35	11.46	12.58		14.07	4 / 3			
reaction time		interval		1.12	1.10	1.09	1.07	1.09	1.11	1.10	1.11	1.12	1.49	PB		3.31	3.27	3.33
wind	0.1 m/s	velocity	5.14	8.16	8.31	8.39	8.54	8.39	8.23	8.31	8.23	8.16	9.41	7.82		8.28	8.39	8.23
Ishikawa, Shuhei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2016 Japanese University Championships (Kumagaya, JPN)			(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	04-Sep-16	time	2.61	3.74	4.81	5.93	7.01	8.12	9.22	10.34	11.44	12.56		14.07	7 / 4			
reaction time	0.157	interval	7 steps	1.13	1.07	1.12	1.08	1.11	1.10	1.12	1.10	1.12	1.51			3.32	3.29	3.34
wind	0.7 m/s	velocity	5.26	8.09	8.54	8.16	8.46	8.23	8.31	8.16	8.31	8.16	9.28	7.82		8.26	8.33	8.21
Furuya, Kyohei (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)			(2017) - tfdata-store.com/2017/05/01/458/															
date	29-Apr-17	time	2.60	3.71	4.81	5.89	6.98	8.06	9.18	10.28	11.44	12.58		14.07	4 / 2			
reaction time		interval		1.11	1.10	1.08	1.09	1.08	1.12	1.10	1.16	1.14	1.49			3.29	3.29	3.40
wind	-1.5 m/s	velocity	5.28	8.23	8.31	8.46	8.39	8.46	8.16	8.31	7.88	8.02	9.41	7.82		8.33	8.33	8.06
Abe, Hirofumi (JPN) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Nambu Memorial (Sapporo, JPN)			(2017) - tfdata-store.com/2017/07/12/post-1025/															
date	09-Jul-17	time	2.68	3.79	4.86	5.95	7.04	8.13	9.20	10.34	11.47	12.62		14.07	6 / 4			
reaction time		interval		1.11	1.07	1.09	1.09	1.09	1.07	1.14	1.13	1.15	1.45			3.27	3.25	3.42
wind	2.7 m/s	velocity	5.12	8.23	8.54	8.39	8.39	8.39	8.54	8.02	8.09	7.95	9.67	7.82		8.39	8.44	8.02

Li Jiming (CHN) (1996)																
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)																
date	15-Sep-18	time	2.67	3.77	4.84	5.91	6.97	8.06	9.14	10.23	11.36	12.51		14.07	Lane / Place	H1-H4
reaction time	0.160	interval		1.10	1.07	1.07	1.06	1.09	1.08	1.09	1.13	1.15	1.56			3.24 3.23 3.37
wind	-0.2 m/s	velocity	5.14	8.31	8.54	8.54	8.62	8.39	8.46	8.39	8.09	7.95	8.99	7.82		8.46 8.49 8.14
Ning Xiaohan (CHN) (2000)																
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																
date	09-Apr-19	time	2.64	3.71	4.81	5.89	6.98	8.05	9.16	10.26	11.38	12.52		14.07	Lane / Place	H1-H4
reaction time	0.165	interval		1.07	1.10	1.08	1.09	1.07	1.11	1.10	1.12	1.14	1.55	PB		3.25 3.27 3.36
wind	0.2 m/s	velocity	5.20	8.54	8.31	8.46	8.39	8.54	8.23	8.31	8.16	8.02	9.05	7.82		8.44 8.39 8.16
Lu Yang (CHN) (1996)																
Heat 3 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																
date	13-Apr-19	time	2.68	3.78	4.84	5.92	6.98	8.03	9.11	10.22	11.34	12.52		14.07	Lane / Place	H1-H4
reaction time	0.160	interval		1.10	1.06	1.08	1.06	1.05	1.08	1.11	1.12	1.18	1.55			3.24 3.19 3.41
wind	0.0 m/s	velocity	5.12	8.31	8.62	8.46	8.62	8.70	8.46	8.23	8.16	7.75	9.05	7.82		8.46 8.60 8.04
Fujii, Ryota (JPN) (1996)																
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																
date	28-Apr-19	time	2.74	3.84	4.89	5.96	7.03	8.12	9.22	10.32	11.44	12.58		14.07	Lane / Place	H1-H4
reaction time		interval		1.10	1.05	1.07	1.07	1.09	1.10	1.10	1.12	1.14	1.49			3.22 3.26 3.36
wind	0.6 m/s	velocity	5.01	8.31	8.70	8.54	8.54	8.39	8.31	8.31	8.16	8.02	9.41	7.82		8.52 8.41 8.16
Chan Chung Wang (HKG) (1991)																
FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)																
date	07-Jun-19	time	2.70	3.78	4.85	5.91	6.96	8.02	9.07	10.16	11.31	12.49		14.07	Lane / Place	H1-H4
reaction time	0.158	interval		1.08	1.07	1.06	1.05	1.06	1.05	1.09	1.15	1.18	1.58			3.21 3.16 3.42
wind	1.2 m/s	velocity	5.08	8.46	8.54	8.62	8.70	8.62	8.70	8.39	7.95	7.75	8.87	7.82		8.54 8.68 8.02
Li Huaihai (CHN) (1999)																
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)																
date	16-Sep-20	time	2.66	3.77	4.86	5.94	7.00	8.07	9.15	10.26	11.40	12.55		14.07	Lane / Place	H1-H4
reaction time	0.171	interval		1.11	1.09	1.08	1.06	1.07	1.08	1.11	1.14	1.15	1.52			3.28 3.21 3.40
wind	0.4 m/s	velocity	5.16	8.23	8.39	8.46	8.62	8.54	8.46	8.23	8.02	7.95	9.22	7.82		8.36 8.54 8.06
Oguchi, Aoba (JPN) (2006)																
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)																
date	01-Aug-24	time	2.70	3.82	4.89	5.98	7.05	8.14	9.23	10.34	11.47	12.59		14.07	Lane / Place	H1-H4
reaction time	0.134	interval		1.12	1.07	1.09	1.07	1.09	1.09	1.11	1.13	1.12	1.48	PB		3.28 3.25 3.36
wind	-0.7 m/s	velocity	5.08	8.16	8.54	8.39	8.54	8.39	8.39	8.23	8.09	8.16	9.47	7.82		8.36 8.44 8.16
Pascoe, Alan (GBR) (1947)																
Heat 3 - 1972 Olympic Games (Munich, GER)																
date	03-Sep-72	time	2.5		5.8									14.08	Lane / Place	H1-H4
reaction time		interval			3.3											3.26
wind	-1.6 m/s	velocity	5.51		8.41									7.81		8.41
Moore, Anwar (USA) (1979)																
FINAL - 2007 Seiko Super Grand Prix (Yokohama, JPN)																
date	30-Sep-07	time	2.31	3.37	4.42	5.48	6.56	7.65	8.79	9.93	11.09	12.23		14.08	Lane / Place	H1-H4
reaction time		interval		1.06	1.05	1.06	1.08	1.09	1.14	1.14	1.16	1.14	1.85			3.17 3.31 3.44
wind	-1.6 m/s	velocity	5.94	8.62	8.70	8.62	8.46	8.39	8.02	8.02	7.88	8.02	7.58	7.81		8.65 8.28 7.97
García, Yordanis (CUB) (1988)																
Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)																
date	20-Aug-09	time	2.61	3.69	4.78	5.89	6.99	8.11	9.21	10.30	11.45	12.59		14.08	Lane / Place	H1-H4
reaction time	0.156	interval		1.08	1.09	1.11	1.10	1.12	1.10	1.09	1.15	1.14	1.49			3.28 3.32 3.38
wind	0.3 m/s	velocity	5.26	8.46	8.39	8.23	8.31	8.16	8.31	8.39	7.95	8.02	9.41	7.81		8.36 8.26 8.11
Penáz, Petr (CZE) (1991)																
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)																
date	15-Jun-13	time	2.79	3.90	5.00	6.07	7.13	8.19	9.26	10.35	11.45	12.58		14.08	Lane / Place	H1-H4
reaction time	0.185	interval		1.11	1.10	1.07	1.06	1.06	1.07	1.09	1.10	1.13	1.50			3.28 3.19 3.32
wind	-0.6 m/s	velocity	4.92	8.23	8.31	8.54	8.62	8.62	8.54	8.39	8.31	8.09	9.35	7.81		8.36 8.60 8.26
Yamamoto, Kenta (JPN) (1995)																
FINAL - 2016 West Japan University Championships (Kyoto, JPN)																
date	01-Jul-16	time	2.66	3.78	4.86	5.97	7.07	8.17	9.26	10.38	11.50	12.63		14.08	Lane / Place	H1-H4
reaction time		interval		1.12	1.08	1.11	1.10	1.10	1.09	1.12	1.12	1.13	1.45			3.31 3.29 3.37
wind	-2.1 m/s	velocity	5.16	8.16	8.46	8.23	8.31	8.31	8.39	8.16	8.16	8.09	9.67	7.81		8.28 8.33 8.14

Sato, Hiroyuki (JPN) (1990)																
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)																
date	29-Apr-17	time	2.60	3.67	4.74	5.83	6.93	8.03	9.12	10.25	11.37	12.54		14.08	Lane / Place	3 / 3
reaction time		interval		1.07	1.07	1.09	1.10	1.10	1.09	1.13	1.12	1.17	1.54			3.23 3.29 3.42
wind	-1.5 m/s	velocity	5.28	8.54	8.54	8.39	8.31	8.31	8.39	8.09	8.16	7.81	9.10	7.81		8.49 8.33 8.02
Maruyama, Yuma (JPN) (1998)																
Decathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)																
date	17-Jun-18	time	2.70	3.81	4.91	5.99	7.07	8.14	9.22	10.34	11.45	12.61		14.08	Lane / Place	6 / 1
reaction time		interval		1.11	1.10	1.08	1.08	1.07	1.08	1.12	1.11	1.16	1.47	PB		3.29 3.23 3.39
wind	0.2 m/s	velocity	5.08	8.23	8.31	8.46	8.46	8.54	8.46	8.16	8.23	7.88	9.54	7.81		8.33 8.49 8.09
Zhu Shenglong (CHN) (2000)																
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)																
date	08-Jul-19	time	2.71	3.80	4.89	5.95	7.02	8.09	9.20	10.31	11.43	12.57		14.08	Lane / Place	5 / 3
reaction time	0.169	interval		1.09	1.09	1.06	1.07	1.07	1.11	1.11	1.12	1.14	1.51			3.24 3.25 3.37
wind	-0.5 m/s	velocity	5.06	8.39	8.39	8.62	8.54	8.54	8.23	8.23	8.16	8.02	9.28	7.81		8.46 8.44 8.14
Pan Zijie (CHN) (1995)																
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)																
date	24-Aug-19	time	2.68	3.80	4.90	6.00	7.09	8.17	9.27	10.38	11.49	12.61		14.08	Lane / Place	2 / 4
reaction time	0.204	interval		1.12	1.10	1.10	1.09	1.08	1.10	1.11	1.11	1.12	1.47			3.32 3.27 3.34
wind	-0.1 m/s	velocity	5.12	8.16	8.31	8.31	8.39	8.46	8.31	8.23	8.23	8.16	9.54	7.81		8.26 8.39 8.21
Chaverra, Joan Camilo (PUR) (1995)																
FINAL - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)																
date	03-Sep-20	time	2.62	3.67	4.78	5.79	6.86	7.92	9.00	10.17	11.29	12.42		14.08	Lane / Place	8 / 7
reaction time		interval	7 steps	1.05	1.11	1.01	1.07	1.06	1.08	1.17	1.12	1.13	1.66			3.17 3.21 3.42
wind	-0.3 m/s	velocity	5.24	8.70	8.23	9.05	8.54	8.62	8.46	7.81	8.16	8.09	8.45	7.81		8.65 8.54 8.02
Qin Weibo (CHN) (2002)																
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)																
date	16-Sep-20	time	2.67	3.80	4.86	5.93	7.01	8.09	9.18	10.30	11.44	12.58		14.08	Lane / Place	2 / 3
reaction time	0.187	interval		1.13	1.06	1.07	1.08	1.08	1.09	1.12	1.14	1.14	1.50			3.26 3.25 3.40
wind	-0.5 m/s	velocity	5.14	8.09	8.62	8.54	8.46	8.46	8.39	8.16	8.02	8.02	9.35	7.81		8.41 8.44 8.06
Moloney, Ashley (AUS) (2000)																
Decathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	05-Aug-21	time	2.67	3.75	4.84	5.93	7.06	8.13	9.26	10.38	11.50	12.63		14.08	Lane / Place	3 / 3
reaction time	0.143	interval	7 steps	1.08	1.09	1.09	1.13	1.07	1.13	1.12	1.12	1.13	1.45	PB		3.26 3.33 3.37
wind	-1.0 m/s	velocity	5.14	8.46	8.39	8.39	8.09	8.54	8.09	8.16	8.16	8.09	9.67	7.81		8.41 8.23 8.14
Ridgeon, Jon (GBR) (1967)																
Heat 3 - 1985 European Junior Championships (Cottbus, GDR) (99cm)																
date	23-Aug-85	time	2.47	3.52	4.58	5.70	6.75	7.82	8.89	10.05	11.09	12.23		14.09	Lane / Place	1 / 1
reaction time		interval		1.05	1.06	1.12	1.05	1.07	1.07	1.16	1.04	1.14	1.86			3.23 3.19 3.34
wind	1.9 m/s	velocity	5.55	8.70	8.62	8.16	8.70	8.54	8.54	7.88	8.79	8.02	7.54	7.81		8.49 8.60 8.21
Ylöstalo, Mikael (FIN) (1963)																
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)																
date	26-Sep-88	time	2.61	3.70	4.78	5.86	6.98	8.06	9.18	10.28	11.39	12.51		14.09	Lane / Place	2 / 8
reaction time	0.146	interval		1.09	1.08	1.08	1.12	1.08	1.12	1.10	1.11	1.12	1.58			3.25 3.32 3.33
wind	-0.7 m/s	velocity	5.26	8.39	8.46	8.46	8.16	8.46	8.16	8.31	8.23	8.16	8.87	7.81		8.44 8.26 8.23
Akins, Ty (USA) (1986)																
Heat 4 - 2007 USATF National Championships (Indianapolis, IN)																
date	23-Jun-07	time	2.69	3.82	4.90	6.02	7.12	8.19	9.29	10.37	11.49	12.61		14.09	Lane / Place	3 / 6
reaction time		interval		1.13	1.08	1.12	1.10	1.07	1.10	1.08	1.12	1.12	1.48			3.33 3.27 3.32
wind	-2.8 m/s	velocity	5.10	8.09	8.46	8.16	8.31	8.54	8.31	8.46	8.16	8.16	9.47	7.81		8.23 8.39 8.26
Omuro, Hideki (JPN) (1990)																
Semi-Final 1 - 2011 Japanese National Championships (Kumagaya, JPN)																
date	11-Jun-11	time	2.67	3.76	4.85	5.94	7.03	8.14	9.26	10.39	11.52	12.66		14.09	Lane / Place	1 / 2
reaction time		interval		1.09	1.09	1.09	1.09	1.11	1.12	1.13	1.13	1.14	1.43			3.27 3.32 3.40
wind	-2.0 m/s	velocity	5.14	8.39	8.39	8.39	8.39	8.23	8.16	8.09	8.09	8.02	9.80	7.81		8.39 8.26 8.06
Omuro, Hideki (JPN) (1990)																
FINAL - 2015 Shizuoka International Athletics Meeting (Fukuoki, JPN)																
date	03-May-15	time	2.66	3.76	4.85	5.95	7.03	8.12	9.23	10.33	11.46	12.61		14.09	Lane / Place	1 / 6
reaction time		interval		1.10	1.09	1.10	1.08	1.09	1.11	1.10	1.13	1.15	1.48			3.29 3.28 3.38
wind	-0.8 m/s	velocity	5.16	8.31	8.39	8.31	8.46	8.39	8.23	8.31	8.09	7.95	9.47	7.81		8.33 8.36 8.11
Furuya, Takumu (JPN) (1997)																

FINAL - 2016 Japanese University Championships (Kumagaya, JPN)(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	04-Sep-16	time	2.66	3.76	4.85	5.94	7.02	8.12	9.23	10.34	11.48	12.64	14.09	3 / 2			
reaction time	0.149	interval		1.10	1.09	1.09	1.08	1.10	1.11	1.11	1.14	1.16	1.45		3.28	3.29	3.41
wind	-1.9 m/s	velocity	5.16	8.31	8.39	8.39	8.46	8.31	8.23	8.23	8.02	7.88	9.67	7.81	8.36	8.33	8.04

Kawakami, Asuma (JPN) (1999)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)**(2016.11.11) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	21-Oct-16	time	2.67	3.76	4.87	5.96	7.04	8.14	9.24	10.35	11.49	12.63	14.09	5 / 2			
reaction time		interval		1.09	1.11	1.09	1.08	1.10	1.10	1.11	1.14	1.14	1.46		3.29	3.28	3.39
wind	-0.2 m/s	velocity	5.14	8.39	8.23	8.39	8.46	8.31	8.31	8.23	8.02	8.02	9.60	7.81	8.33	8.36	8.09

Maeda, Hirotake (JPN) (1996)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2017 Kyoto University Meeting (Kyoto, JPN)**(2017) - tfdata-store.com/2017/04/12/post-362/

date	09-Apr-17	time	2.65	3.78	4.89	5.99	7.09	8.19	9.30	10.41	11.51	12.64	14.09	5 / 2			
reaction time		interval		1.13	1.11	1.10	1.10	1.10	1.11	1.11	1.10	1.13	1.45	PB	3.34	3.31	3.34
wind	1.5 m/s	velocity	5.18	8.09	8.23	8.31	8.31	8.31	8.23	8.23	8.31	8.09	9.67	7.81	8.21	8.28	8.21

Notoya, Yuta (JPN) (1989)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 3 - 2017 Japanese National Championships (Osaka, JPN)**(2017) - tfdata-store.com/2017/07/13/post-1040/

date	24-Jun-17	time	2.61	3.72	4.82	5.91	6.99	8.08	9.21	10.32	11.45	12.60	14.09	4 / 6			
reaction time	0.119	interval	7 steps	1.11	1.10	1.09	1.08	1.09	1.13	1.11	1.13	1.15	1.49		3.30	3.30	3.39
wind	0.5 m/s	velocity	5.26	8.23	8.31	8.39	8.46	8.39	8.09	8.23	8.09	7.95	9.41	7.81	8.31	8.31	8.09

Levin, Anton (SWE) (1992)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL 2 - 2017 Windsprint (Sundsvall, SWE)**(2017) - www.windsprint/Splittider/

date	30-Jul-17	time	2.68	3.78	4.87	5.95	7.03	8.14	9.23	10.34	11.47	12.61	14.09	/ 1			
reaction time		interval		1.10	1.09	1.08	1.08	1.11	1.09	1.11	1.13	1.14	1.48		3.27	3.28	3.38
wind	1.0 m/s	velocity	5.12	8.31	8.39	8.46	8.46	8.23	8.39	8.23	8.09	8.02	9.47	7.81	8.39	8.36	8.11

Abe, Ryoto (JPN) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99cm)**

(2018) - 71st high school championships: JAF scientific committee - biomechanics data collection

date	06-Aug-18	time	2.62	3.69	4.79	5.86	6.96	8.06	9.17	10.28	11.41	12.58	14.09	8 / 1			
reaction time		interval		1.07	1.10	1.07	1.10	1.10	1.11	1.11	1.13	1.17	1.51	PB	3.24	3.31	3.41
wind	1.6 m/s	velocity	5.24	8.54	8.31	8.54	8.31	8.31	8.23	8.23	8.09	7.81	9.28	7.81	8.46	8.28	8.04

Zhu Shenglong (CHN) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2018 Chinese National Championships (Taiyuan, CHN)**

Henson (2018) - coaching observations

date	16-Sep-18	time	2.72	3.82	4.89	5.96	7.04	8.12	9.22	10.33	11.46	12.58	14.09	2 / 4			
reaction time		interval		1.10	1.07	1.07	1.08	1.08	1.10	1.11	1.13	1.12	1.51	PB	3.24	3.26	3.36
wind	-0.3 m/s	velocity	5.04	8.31	8.54	8.54	8.46	8.46	8.31	8.23	8.09	8.16	9.28	7.81	8.46	8.41	8.16

Kagimoto, Masahiro (JPN) (1995)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****A FINAL - 2018 National Sports Festival (Fukui, JPN)**

Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season

date	08-Oct-18	time	2.66	3.79	4.92	5.99	7.09	8.20	9.29	10.39	11.50	12.62	14.09	7 / 8			
reaction time	0.144	interval		1.13	1.13	1.07	1.10	1.11	1.09	1.10	1.11	1.12	1.47		3.33	3.30	3.33
wind	1.2 m/s	velocity	5.16	8.09	8.09	8.54	8.31	8.23	8.39	8.31	8.23	8.16	9.54	7.81	8.23	8.31	8.23

Mui Ching Yeung (HKG) (1993)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 2 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)**

CAA Hurdle Development (2019)

date	08-Apr-19	time	2.68	3.77	4.85	5.91	7.01	8.09	9.21	10.31	11.47	12.62	14.09	6 / --			
reaction time	0.172	interval		1.09	1.08	1.06	1.10	1.08	1.12	1.10	1.16	1.15	1.47		3.23	3.30	3.41
wind	-0.6 m/s	velocity	5.12	8.39	8.46	8.62	8.31	8.46	8.16	8.31	7.88	7.95	9.54	7.81	8.49	8.31	8.04

Lu Yang (CHN) (1996)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)**

CAA Hurdle Development (2019)

date	09-Apr-19	time	2.78	3.90	4.98	6.06	7.13	8.20	9.30	10.37	11.48	12.60	14.09	6 / 5			
reaction time	0.192	interval		1.12	1.08	1.08	1.07	1.07	1.10	1.07	1.11	1.12	1.49		3.28	3.24	3.30
wind	0.2 m/s	velocity	4.94	8.16	8.46	8.46	8.54	8.54	8.31	8.54	8.23	8.16	9.41	7.81	8.36	8.46	8.31

Wu Zhenhua (CHN) (1998)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)**

CAA Hurdle Development (2019)

date	30-May-19	time	2.67	3.78	4.87	5.97	7.06	8.17	9.27	10.36	11.46	12.63	14.09	7 / 5			
reaction time	0.145	interval		1.11	1.09	1.10	1.09	1.11	1.10	1.09	1.10	1.17	1.46	PB	3.30	3.30	3.36
wind	0.0 m/s	velocity	5.14	8.23	8.39	8.31	8.39	8.23	8.31	8.39	8.31	7.81	9.60	7.81	8.31	8.31	8.16

Ishida Thomas, Higashi (JPN) (1997)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)**

Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season

date	23-Aug-20	time	2.70	3.79	4.86	5.93	7.01	8.11	9.23	10.34	11.46	12.61	14.09	7 / 6			
reaction time	0.146	interval	7 steps	1.09	1.07	1.07	1.08	1.10	1.12	1.11	1.12	1.15	1.48		3.23	3.30	3.38
wind	-0.4 m/s	velocity	5.08	8.39	8.54	8.54	8.46	8.31	8.16	8.23	8.16	7.95	9.47	7.81	8.49	8.31	8.11

Tanaka, Hideaki (JPN) (1995)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 2 - 2020 All Japan Corporate Championships (Kumagaya, JPN)**

Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season

date	20-Sep-20	time	2.68	3.78	4.86	5.95	7.04	8.13	9.22	10.33	11.47	12.61	14.09	3 / 4				
reaction time	0.131	interval		1.10	1.08	1.09	1.09	1.09	1.09	1.11	1.14	1.14	1.48			3.27	3.27	3.39
wind	1.7 m/s	velocity	5.12	8.31	8.46	8.39	8.39	8.39	8.39	8.23	8.02	8.02	9.47	7.81		8.39	8.39	8.09
Wado, Tatsuya (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)			Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season															
date	20-Sep-20	time	2.62	3.72	4.81	5.89	6.97	8.05	9.15	10.28	11.40	12.54	14.09	2 / 6				
reaction time	0.134	interval		1.10	1.09	1.08	1.08	1.08	1.10	1.13	1.12	1.14	1.55			3.27	3.26	3.39
wind	0.1 m/s	velocity	5.24	8.31	8.39	8.46	8.46	8.46	8.31	8.09	8.16	8.02	9.05	7.81		8.39	8.41	8.09
Zhang Jinzhao (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)			CAA Hurdle Development (2021)															
date	24-Apr-21	time	2.74	3.84	4.91	5.99	7.07	8.14	9.24	10.34	11.45	12.59	14.09	3 / 2				
reaction time	0.192	interval		1.10	1.07	1.08	1.08	1.07	1.10	1.10	1.11	1.14	1.50			3.25	3.25	3.35
wind	-1.1 m/s	velocity	5.01	8.31	8.54	8.46	8.46	8.54	8.31	8.31	8.23	8.02	9.35	7.81		8.44	8.44	8.19
Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)			Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season															
date	01-Jun-21	time	2.68	3.80	4.89	5.96	7.03	8.11	9.19	10.29	11.40	12.55	14.09	3 / 7				
reaction time	0.176	interval	7 steps	1.12	1.09	1.07	1.07	1.08	1.08	1.10	1.11	1.15	1.54			3.28	3.23	3.36
wind	0.3 m/s	velocity	5.12	8.16	8.39	8.54	8.54	8.46	8.46	8.31	8.23	7.95	9.10	7.81		8.36	8.49	8.16
Zhang Jinzhao (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)			CAA Hurdle Development (2021)															
date	25-Jun-21	time	2.70	3.82	4.88	5.95	7.04	8.12	9.23	10.34	11.46	12.59	14.09	4 / 3				
reaction time	0.189	interval		1.12	1.06	1.07	1.09	1.08	1.11	1.11	1.12	1.13	1.50			3.25	3.28	3.36
wind	-1.2 m/s	velocity	5.08	8.16	8.62	8.54	8.39	8.46	8.23	8.23	8.16	8.09	9.35	7.81		8.44	8.36	8.16
Li Huaihai (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)			CAA Hurdle Development (2021)															
date	12-Jun-21	time	2.55	3.64	4.72	5.79	6.87	7.96	9.04	10.20	11.34	12.50	14.09	8 / 3				
reaction time	0.154	interval	7 steps	1.09	1.08	1.07	1.08	1.09	1.08	1.16	1.14	1.16	1.59			3.24	3.25	3.46
wind	-0.4 m/s	velocity	5.38	8.39	8.46	8.54	8.46	8.39	8.46	7.88	8.02	7.88	8.82	7.81		8.46	8.44	7.92
Owens-Delorme, Ayden (PUR) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)			Paris 2024 Olympic Games - Results Book (2024)															
date	03-Aug-24	time	2.47	3.57	4.66	5.76	6.85	7.94	9.04	10.16	11.30	12.42	14.09	4 / 7				
reaction time	0.160	interval	7 steps	1.10	1.09	1.10	1.09	1.09	1.10	1.12	1.14	1.12	1.67			3.29	3.28	3.38
wind	0.7 m/s	velocity	5.55	8.31	8.39	8.31	8.39	8.39	8.31	8.16	8.02	8.16	8.40	7.81		8.33	8.36	8.11
Ewen, Tim (AUS) (1977)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 IAAF World Cup (Madrid, ESP)			Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas															
date	21-Sep-02	time	2.69	3.78	4.85	5.93	6.97	8.03	9.13	10.22	11.31	12.42	14.10	8 / 7				
reaction time	0.140	interval		1.09	1.07	1.08	1.04	1.06	1.10	1.09	1.09	1.11	1.68			3.24	3.20	3.29
wind	-2.2 m/s	velocity	5.10	8.39	8.54	8.46	8.79	8.62	8.31	8.39	8.39	8.23	8.35	7.80		8.46	8.57	8.33
Jiles-Tindall, Julius (USA) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2007 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2007)															
date	23-Jun-07	time	2.69	3.79	4.90	5.99	7.08	8.16	9.28	10.38	11.47	12.61	14.10	6 / 7				
reaction time		interval		1.10	1.11	1.09	1.09	1.08	1.12	1.10	1.09	1.14	1.49			3.30	3.29	3.33
wind	-2.8 m/s	velocity	5.10	8.31	8.23	8.39	8.39	8.46	8.16	8.31	8.39	8.02	9.41	7.80		8.31	8.33	8.23
Taue, Shun (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (99cm)			Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015															
date	02-Aug-15	time	2.72	3.83	4.94	6.01	7.11	8.21	9.30	10.40	11.52	12.65	14.10	6 / 2				
reaction time		interval		1.11	1.11	1.07	1.10	1.10	1.09	1.10	1.12	1.13	1.45	=PB		3.29	3.29	3.35
wind	1.4 m/s	velocity	5.04	8.23	8.23	8.54	8.31	8.31	8.39	8.31	8.16	8.09	9.67	7.80		8.33	8.33	8.19
Okazaki, Masaki (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2016 Japanese University Championships (Kumagaya, JPN)			(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	04-Sep-16	time	2.65	3.77	4.85	5.94	7.05	8.14	9.23	10.35	11.49	12.63	14.10	2 / 5				
reaction time	1.530	interval		1.12	1.08	1.09	1.11	1.09	1.09	1.12	1.14	1.14	1.47			3.29	3.29	3.40
wind	0.7 m/s	velocity	5.18	8.16	8.46	8.39	8.23	8.39	8.39	8.16	8.02	8.02	9.54	7.80		8.33	8.33	8.06
Ma Lei (CHN) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)			Henson (2018) - coaching observations															
date	15-Sep-18	time	2.72	3.82	4.90	5.99	7.07	8.14	9.24	10.34	11.46	12.61	14.10	5 / 2				
reaction time		interval	7 steps	1.10	1.08	1.09	1.08	1.07	1.10	1.10	1.12	1.15	1.49			3.27	3.25	3.37
wind	0.7 m/s	velocity	5.04	8.31	8.46	8.39	8.46	8.54	8.31	8.31	8.16	7.95	9.41	7.80		8.39	8.44	8.14
Lu Yang (CHN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)			CAA Hurdle Development (2019)															
date	08-Jul-19	time	2.70	3.79	4.89	5.94	7.01	8.07	9.15	10.26	11.34	12.55	14.10	3 / 4				

reaction time	0.170	interval	1.09	1.10	1.05	1.07	1.06	1.08	1.11	1.08	1.21	1.55			3.24	3.21	3.40
wind	-0.5 m/s	velocity	5.08	8.39	8.31	8.70	8.54	8.62	8.46	8.23	8.46	7.55	9.05	7.80	8.46	8.54	8.06

Fung Kin Hei (HKG) (2000)

Ang Kin Hei (HKG) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)														CAA Hurdle Development (2019)			
date	14-Aug-19	time	2.68	3.78	4.90	5.99	7.07	8.17	9.24	10.37	11.48	12.61	14.10	3 / 7			
reaction time	0.155	interval	1.10	1.12	1.09	1.08	1.10	1.07	1.13	1.11	1.13	1.49		3.31	3.25	3.37	
wind	-0.3 m/s	velocity	5.12	8.31	8.16	8.39	8.46	8.31	8.54	8.09	8.23	8.09	9.41	7.80	8.28	8.44	8.14

McLeod, Omar (JAM) (1994)

C.Leod, Omar (JAM) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 IAAF World Championships (Doha, QAT)														CAA Hurdle Development (2019)			
date	02-Oct-19	time	2.53	3.53	4.54	5.57	6.56	7.53	8.54	9.54	10.70	12.00	14.10	4 / --			
reaction time	0.128	interval		1.00	1.01	1.03	0.99	0.97	1.01	1.00	1.16	1.30	2.10	DQ	3.04	2.97	3.46
wind	0.6 m/s	velocity	5.42	9.14	9.05	8.87	9.23	9.42	9.05	9.14	7.88	7.03	6.68	7.80	9.02	9.23	7.92

Zhang Jinzhao (CHN) (1999)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)																
date	12-Jun-21	time	2.64	3.76	4.84	5.92	7.00	8.09	9.17	10.28	11.39	12.51	14.10	3 / 2		
reaction time	0.172	interval	1.12	1.08	1.08	1.08	1.09	1.08	1.11	1.11	1.12	1.59		3.28	3.25	3.34
wind	-0.8 m/s	velocity	5.20	8.16	8.46	8.46	8.39	8.46	8.23	8.23	8.16	8.82	7.80	8.36	8.44	8.21

Pan Zijie (CHN) (1995)

An Zijie (CHN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Chinese National Championships (Chongqing, CHN)															CAA Hurdle Development (2021)		
date	25-Jun-21	time	2.64	3.75	4.81	5.88	6.95	8.02	9.16	10.29	11.43	12.55	14.10	9 / 8			
reaction time	0.185	interval	1.11	1.06	1.07	1.07	1.07	1.14	1.13	1.14	1.12	1.55			3.24	3.28	3.39
wind	1.6 m/s	velocity	5.20	8.23	8.62	8.54	8.54	8.02	8.09	8.02	8.16	9.05	7.80		8.46	8.36	8.09

Quiñónez, Jackson (ESP) (1989)

Luis Fdez, Jackson (ESP) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Time Trial - 2009 University of Barcelona Hurdle Analysis (Barcelona, ESP)										Padullès (2010) - valoració funcional i anàlisi tècnica biomecànica del dayron robes							
date	Jun-09	time	2.37	3.48	4.56	5.61	6.70	7.79	8.91	10.01	11.15	12.32	14.11	5 /			
reaction time	0.148	interval	1.11	1.08	1.05	1.09	1.09	1.12	1.10	1.14	1.17	1.79			3.24	3.30	3.41
wind	-0.4 m/s	velocity	5.79	8.23	8.46	8.70	8.39	8.39	8.16	8.31	8.02	7.81	7.83	7.80	8.46	8.31	8.04

Nakamura, Akihiko (JPN) (1990)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2012 Japanese Multi-Event National Championships (Nagano, JPN)																
date	03-Jun-12	time	2.67	3.76	4.84	5.94	7.03	8.12	9.21	10.34	11.47	12.63	14.11	5 / 2		
reaction time		interval	1.09	1.08	1.10	1.09	1.09	1.09	1.13	1.13	1.16	1.48		3.27	3.27	3.42
wind	1.7 m/s	velocity	5.14	8.39	8.46	8.31	8.39	8.39	8.09	8.09	7.88	9.47	7.80	8.39	8.39	8.02

Kuriki, Anthony Tyrell (JPN) (1996)

Uriki, Anthony Tyrell (JPN) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Japanese University Championships (Kumagaya, JPN)																	
(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																	
date	04-Sep-16	time	2.69	3.80	4.89	5.98	7.08	8.17	9.27	10.39	11.52	12.68	14.11	4 / 3			
reaction time	0.142	interval	7 steps	1.11	1.09	1.09	1.10	1.09	1.10	1.12	1.13	1.16	1.43		3.29	3.29	3.41
wind	-1.9 m/s	velocity	5.10	8.23	8.39	8.39	8.31	8.39	8.31	8.16	8.09	7.88	9.80	7.80	8.33	8.33	8.04

Yamamoto, Kenta (JPN) (1995)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Tokai Student Autumn Championships (Gifu, JPN)																
date	09-Oct-16	time	2.72	3.82	4.91	6.01	7.11	8.21	9.30	10.39	11.54	12.68	14.11	5 / 1		
reaction time		interval	1.10	1.09	1.10	1.10	1.10	1.09	1.09	1.15	1.14	1.43		3.29	3.29	3.38
wind	1.3 m/s	velocity	5.04	8.31	8.39	8.31	8.31	8.39	8.39	7.95	8.02	9.80	7.80	8.33	8.33	8.11

Kagimoto, Masahiro (JPN) (1995)

Agimoto, Masahiro (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2017 Mito Invitational (Mito, JPN)														(2017) - fdata-store.com/2017/05/06/post-423/			
date	05-May-17	time	2.67	3.77	4.83	5.93	7.03	8.12	9.21	10.34	11.48	12.64	14.11	6 / 3			
reaction time		interval	1.10	1.06	1.10	1.10	1.09	1.09	1.13	1.14	1.16	1.47			3.26	3.28	3.43
wind	0.6 m/s	velocity	5.14	8.31	8.62	8.31	8.31	8.39	8.39	8.09	8.02	7.88	9.54	7.80	8.41	8.36	7.99

Furumoto, Tsubasa (JPN) (1995)

Irumoto, Tsubasa (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2017 Japanese National Championships (Osaka, JPN)														(2017) - tfdata-store.com/2017/07/13/post-1040/			
date	24-Jun-17	time	2.65	3.77	4.88	5.98	7.07	8.18	9.28	10.40	11.52	12.65	14.11	3 / 7			
reaction time	0.120	interval	1.12	1.11	1.10	1.09	1.11	1.10	1.12	1.12	1.13	1.46			3.33	3.30	3.37
wind	0.5 m/s	velocity	5.18	8.16	8.23	8.31	8.39	8.23	8.31	8.16	8.16	8.09	9.60	7.80	8.23	8.31	8.14

Hatanaka, Yushi (JPN) (1994)

Iwanaka, Yushi (JPN) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)												Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season					
date	06-May-18	time	2.65	3.76	4.88	5.98	7.07	8.16	9.28	10.40	11.53	12.65	14.11	3 / 6			
reaction time		interval	1.11	1.12	1.10	1.09	1.09	1.12	1.12	1.13	1.12	1.46			3.33	3.30	3.37
wind	1.6 m/s	velocity	5.18	8.23	8.16	8.31	8.39	8.39	8.16	8.16	8.09	8.16	9.60	7.80	8.23	8.31	8.14

Maeda, Koki (JPN)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)																
date	06-May-18	time	2.65	3.75	4.82	5.91	6.99	8.09	9.18	10.31	11.45	12.59	14.11	9 / 7		
reaction time		interval	1.10	1.07	1.09	1.08	1.10	1.09	1.13	1.14	1.14	1.52		3.26	3.27	3.41

wind	1.6 m/s	velocity	5.18	8.31	8.54	8.39	8.46	8.31	8.39	8.09	8.02	8.02	9.22	7.80		8.41	8.39	8.04	
Pan Zijie (CHN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)			<i>Henson (2018) - coaching observations</i>																
date	15-Sep-18	time	2.70	3.80	4.87	5.98	7.07	8.15	9.26	10.38	11.48	12.64		14.11	7 / 3		3.28	3.28	3.38
reaction time		interval		1.10	1.07	1.11	1.09	1.08	1.11	1.12	1.10	1.16	1.47						
wind	0.7 m/s	velocity	5.08	8.31	8.54	8.23	8.39	8.46	8.23	8.16	8.31	7.88	9.54	7.80		8.36	8.36	8.11	
Lu Yang (CHN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 5 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)			<i>CAA Hurdle Development (2019)</i>																
date	08-Apr-19	time	2.74	3.84	4.92	5.98	7.06	8.15	9.24	10.31	11.44	12.58		14.11	2 / 1		3.24	3.26	3.34
reaction time	0.201	interval		1.10	1.08	1.06	1.08	1.09	1.09	1.07	1.13	1.14	1.53						
wind	0.6 m/s	velocity	5.01	8.31	8.46	8.62	8.46	8.39	8.39	8.54	8.09	8.02	9.16	7.80		8.46	8.41	8.21	
Mui Ching Yeung (HKG) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)			<i>CAA Hurdle Development (2019)</i>																
date	09-Apr-19	time	2.68	3.79	4.88	6.00	7.10	8.20	9.27	10.41	11.52	12.66		14.11	1 / --		3.32	3.27	3.39
reaction time	0.184	interval		1.11	1.09	1.12	1.10	1.10	1.07	1.14	1.11	1.14	1.45						
wind	0.2 m/s	velocity	5.12	8.23	8.39	8.16	8.31	8.31	8.54	8.02	8.23	8.02	9.67	7.80		8.26	8.39	8.09	
Zhang Tao (CHN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)			<i>CAA Hurdle Development (2019)</i>																
date	13-Apr-19	time	2.76	3.86	4.96	6.06	7.14	8.23	9.32	10.42	11.52	12.66		14.11	9 / 4		3.30	3.26	3.34
reaction time	0.216	interval		1.10	1.10	1.10	1.08	1.09	1.09	1.10	1.10	1.14	1.45						
wind	-0.3 m/s	velocity	4.97	8.31	8.31	8.31	8.46	8.39	8.39	8.31	8.31	8.02	9.67	7.80		8.31	8.41	8.21	
Zeng Jianhang (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)			<i>CAA Hurdle Development (2019)</i>																
date	23-Aug-19	time	2.65	3.71	4.77	5.85	6.94	8.02	9.11	10.24	11.38	12.53		14.11	4 / 1		3.20	3.26	3.42
reaction time	0.176	interval		1.06	1.06	1.08	1.09	1.08	1.09	1.13	1.14	1.15	1.58						
wind	-0.2 m/s	velocity	5.18	8.62	8.62	8.46	8.39	8.46	8.39	8.09	8.02	7.95	8.87	7.80		8.57	8.41	8.02	
Manninen, Ilari (FIN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)			<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																
date	11-Aug-20	time	2.60	3.70	4.80	5.90	7.00	8.08	9.21	10.31	11.44	12.58		14.11	1 / 7		3.30	3.31	3.37
reaction time	0.201	interval	7 steps	1.10	1.10	1.10	1.10	1.08	1.13	1.10	1.13	1.14	1.53						
wind	1.1 m/s	velocity	5.28	8.31	8.31	8.31	8.31	8.46	8.09	8.31	8.09	8.02	9.16	7.80		8.31	8.28	8.14	
Kitz, Silvio (GDR) (1966)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1986 East German National Championships (Jena, GDR)			<i>Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes</i>																
date	27-Jun-86	time	2.62	3.74	4.84	5.95	7.06	8.17	9.29	10.40	11.51	12.66		14.12	/ 3		3.33	3.34	3.37
reaction time		interval		1.12	1.10	1.11	1.11	1.11	1.12	1.11	1.11	1.15	1.46						
wind	1.7 m/s	velocity	5.24	8.16	8.31	8.23	8.23	8.23	8.16	8.23	8.23	7.95	9.60	7.79		8.23	8.21	8.14	
López, Francisco (ESP) (1973)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)			<i>Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas</i>																
date	02-Aug-98	time	2.64	3.72	4.82	5.94	6.98	8.05	9.12	10.25	11.37	12.52		14.12	5 / 1		3.30	3.18	3.40
reaction time		interval		1.08	1.10	1.12	1.04	1.07	1.07	1.13	1.12	1.15	1.60						
wind	0.1 m/s	velocity	5.20	8.46	8.31	8.16	8.79	8.54	8.54	8.09	8.16	7.95	8.76	7.79		8.31	8.62	8.06	
Taylor, Logan (USA) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2007 USATF National Championships (Indianapolis, IN)			<i>USATF Men's Hurdle Development (2007)</i>																
date	23-Jun-07	time	2.64	3.75	4.84	5.94	7.06	8.12	9.22	10.36	11.46	12.63		14.12	7 / 6		3.30	3.28	3.41
reaction time		interval		1.11	1.09	1.10	1.12	1.06	1.10	1.14	1.10	1.17	1.49						
wind	-3.2 m/s	velocity	5.20	8.23	8.39	8.31	8.16	8.62	8.31	8.02	8.31	7.81	9.41	7.79		8.31	8.36	8.04	
Smit, Louw (RSA) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2010 Folsam GP (Sollentuna, SWE)			<i>Blomkvist (2010) - www.sub13.se</i>																
date	01-Jul-10	time	2.53	3.65	4.73									14.12	8 / 6				
reaction time		interval		1.12	1.08														
wind	0.4 m/s	velocity	5.42	8.16	8.46									7.79					
Chen Mingjie (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Chinese National U20 Championships (Nanchang, CHN) (99.1cm)			<i>Zhang (2019) - comparative analysis characteristics Chinese elite 110m hurdles in different age</i>																
date	13-May-18	time	2.24	3.41	4.52	5.61	6.69	7.77	8.86	9.94	11.06	12.22		14.12	7 / 5		3.37	3.25	3.36
reaction time		interval		1.17	1.11	1.09	1.08	1.08	1.09	1.08	1.12	1.16	1.90						
wind	1.0 m/s	velocity	6.13	7.81	8.23	8.39	8.46	8.46	8.39	8.46	8.16	7.88	7.38	7.79		8.14	8.44	8.16	
Li Jiming (CHN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 National Grand Prix Final (Guiyang, CHN) (Altitude)			<i>Zhang (2019) - comparative analysis characteristics Chinese elite men's 110m hurdles in different age groups</i>																
date	17-Jun-18	time	2.70	3.81	4.89	5.97	7.03	8.10	9.18	10.28	11.40	12.58		14.12	3 / 6		3.27	3.21	3.40
reaction time		interval		1.11	1.08	1.08	1.06	1.07	1.08	1.10	1.12	1.18	1.54						
wind	-0.3 m/s	velocity	5.08	8.23	8.46	8.46	8.62	8.54	8.46	8.31	8.16	7.75	9.10	7.79		8.39	8.54	8.06	

Iizuka, Kaisei (JPN) (2001)																
FINAL	- 2018 Japanese National High School Championships (Nagoya, JPN)	(99.6cm)	(2018)	- 71st high school championships: JAF scientific committee - biomechanics data collection												
date	06-Aug-18	time	2.71	3.82	4.94	6.03	7.13	8.21	9.31	10.42	11.52	12.62		14.12	5 / 2	
reaction time		interval		1.11	1.12	1.09	1.10	1.08	1.10	1.11	1.10	1.10	1.50	PB		3.32 3.28 3.31
wind	1.6 m/s	velocity	5.06	8.23	8.16	8.39	8.31	8.46	8.31	8.23	8.31	8.31	9.35	7.79		8.26 8.36 8.28
Kubota, Taichi (JPN) (2000)																
FINAL	- 2018 Japanese National High School Championships (Nagoya, JPN)	(99.6cm)	(2018)	- 71st high school championships: JAF scientific committee - biomechanics data collection												
date	06-Aug-18	time	2.70	3.80	4.90	6.00	7.10	8.21	9.29	10.41	11.52	12.64		14.12	3 / 3	
reaction time		interval		1.10	1.10	1.10	1.10	1.11	1.08	1.12	1.11	1.12	1.48	PB		3.30 3.29 3.35
wind	1.6 m/s	velocity	5.08	8.31	8.31	8.31	8.31	8.23	8.46	8.16	8.23	8.16	9.47	7.79		8.31 8.33 8.19
Pan Zijie (CHN) (1995)																
FINAL	- 2018 Chinese National Championships (Taiyuan, CHN)	Henson (2018) - coaching observations														
date	16-Sep-18	time	2.64	3.75	4.84	5.96	7.04	8.13	9.23	10.33	11.46	12.60		14.12	8 / 5	
reaction time		interval		1.11	1.09	1.12	1.08	1.09	1.10	1.10	1.13	1.14	1.52			3.32 3.27 3.37
wind	-0.3 m/s	velocity	5.20	8.23	8.39	8.16	8.46	8.39	8.31	8.31	8.09	8.02	9.22	7.79		8.26 8.39 8.14
Jiang Fan (CHN) (1990)																
Heat 1	- 2019 Chinese National Championships (Shenyang, CHN)	CAA Hurdle Development (2019)														
date	08-Jul-19	time	2.69	3.80	4.87	5.95	7.05	8.12	9.22	10.34	11.44	12.59		14.12	6 / 2	
reaction time	0.150	interval		1.11	1.07	1.08	1.10	1.07	1.10	1.12	1.10	1.15	1.53			3.26 3.27 3.37
wind	0.1 m/s	velocity	5.10	8.23	8.54	8.46	8.31	8.54	8.31	8.16	8.31	7.95	9.16	7.79		8.41 8.39 8.14
Zhang Jinzhao (CHN) (1999)																
FINAL	- 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)	CAA Hurdle Development (2021)														
date	08-Apr-21	time	2.76	3.86	4.96	6.04	7.12	8.22	9.32	10.42	11.52	12.64		14.12	9 / 3	
reaction time		interval		1.10	1.10	1.08	1.08	1.10	1.10	1.10	1.10	1.12	1.48	PB		3.28 3.28 3.32
wind	-0.1 m/s	velocity	4.97	8.31	8.31	8.46	8.46	8.31	8.31	8.31	8.31	8.16	9.47	7.79		8.36 8.36 8.26
Uchida, Kaisei (JPN) (2004)																
FINAL	- 2021 Japanese U18 National Championships (Matsuyama, JPN)	(99cm)	Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season													
date	22-Oct-21	time	2.64	3.76	4.86	5.96	7.07	8.16	9.27	10.39	11.53	12.65		14.12	8 / 4	
reaction time	0.139	interval		1.12	1.10	1.10	1.11	1.09	1.11	1.12	1.14	1.12	1.47			3.32 3.31 3.38
wind	-0.6 m/s	velocity	5.20	8.16	8.31	8.31	8.23	8.39	8.23	8.16	8.02	8.16	9.54	7.79		8.26 8.28 8.11
Yoshima, Kaito (JPN) (1998)																
B FINAL	- 2024 Mikio Oda Memorial (Hiroshima, JPN)	Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season														
date	29-Apr-24	time	2.65	3.74	4.83	5.90	7.00	8.08	9.20	10.32	11.45	12.61		14.12	2 / 5	
reaction time	0.161	interval	7 steps	1.09	1.09	1.07	1.10	1.08	1.12	1.12	1.13	1.16	1.51			3.25 3.30 3.41
wind	-0.7 m/s	velocity	5.18	8.39	8.39	8.54	8.31	8.46	8.16	8.16	8.09	7.88	9.28	7.79		8.44 8.31 8.04
Krauchanka, Andrei (BLR) (1986)																
Decathlon - Heat 3	- 2009 IAAF World Championships (Berlin, GER)	Graubner (2009) - biomechanical analyses at the 12th IAAF world championships														
date	20-Aug-09	time	2.77	3.89	4.99	6.07	7.17	8.25	9.35	10.45	11.56	12.67		14.13	4 / 1	
reaction time	0.175	interval		1.12	1.10	1.08	1.10	1.08	1.10	1.10	1.11	1.11	1.46			3.30 3.28 3.32
wind	-0.1 m/s	velocity	4.95	8.16	8.31	8.46	8.31	8.46	8.31	8.31	8.23	8.23	9.60	7.78		8.31 8.36 8.26
Tanaka, Shinya (JPN) (1993)																
B FINAL	- 2017 Mikio Oda Memorial (Hiroshima, JPN)	(2017) - tfdata-store.com/2017/05/01/458/														
date	29-Apr-17	time	2.62	3.74	4.82	5.89	6.98	8.09	9.21	10.34	11.49	12.64		14.13	7 / 4	
reaction time		interval	7 steps	1.12	1.08	1.07	1.09	1.11	1.12	1.13	1.15	1.15	1.49			3.27 3.32 3.43
wind	-1.5 m/s	velocity	5.24	8.16	8.46	8.54	8.39	8.23	8.16	8.09	7.95	7.95	9.41	7.78		8.39 8.26 7.99
Yang Quanlei (CHN) (1999)																
FINAL	- 2018 Chinese National U20 Championships (Nanchang, CHN)	(99.1cm)	Zhang (2019) - comparative analysis characteristics Chinese elite 110m hurdles in different age													
date	13-May-18	time	2.70	3.82	4.90	5.98	7.06	8.15	9.22	10.32	11.44	12.57		14.13	8 / 6	
reaction time		interval		1.12	1.08	1.08	1.08	1.09	1.07	1.10	1.12	1.13	1.56			3.28 3.24 3.35
wind	1.0 m/s	velocity	5.08	8.16	8.46	8.46	8.46	8.39	8.54	8.31	8.16	8.09	8.99	7.78		8.36 8.46 8.19
Zhu Shenglong (CHN) (2000)																
Heat 2	- 2018 Chinese National Championships (Taiyuan, CHN)	Henson (2018) - coaching observations														
date	15-Sep-18	time	2.74	3.85	4.94	6.00	7.09	8.19	9.26	10.38	11.49	12.61		14.13	2 / 4	
reaction time		interval		1.11	1.09	1.06	1.09	1.10	1.07	1.12	1.11	1.12	1.52	PB		3.26 3.26 3.35
wind	0.7 m/s	velocity	5.01	8.23	8.39	8.62	8.39	8.31	8.54	8.16	8.23	8.16	9.22	7.78		8.41 8.41 8.19
Sun Haoru (CHN) (1998)																
FINAL	- 2019 Chinese National Grand Prix 3 (Jinhau, CHN)	CAA Hurdle Development (2019)														
date	23-May-19	time	2.70	3.82	4.92	6.00	7.08	8.20	9.28	10.38	11.50	12.60		14.13	9 / 7	
reaction time	0.231	interval		1.12	1.10	1.08	1.08	1.12	1.08	1.10	1.12	1.10	1.53			3.30 3.28 3.32
wind	2.5 m/s	velocity	5.08	8.16	8.31	8.46	8.46	8.16	8.46	8.31	8.16	8.31	9.16	7.78		8.31 8.36 8.26

Bautista, Clinton Kingsley (PHI) (1991)																
FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)																
date	07-Jun-19	time	2.65	3.77	4.87	5.99	7.07	8.17	9.29	10.41	11.52	12.67		14.13	Lane / Place	2 / 7
reaction time	0.180	interval	7 steps	1.12	1.10	1.12	1.08	1.10	1.12	1.12	1.11	1.15	1.46	PB		3.34 3.30 3.38
wind	1.2 m/s	velocity	5.18	8.16	8.31	8.16	8.46	8.31	8.16	8.16	8.23	7.95	9.60	7.78		8.21 8.31 8.11
Jiang Fan (CHN) (1990)																
Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)																
date	02-Aug-19	time	2.68	3.78	4.88	5.97	7.05	8.12	9.24	10.36	11.48	12.61		14.13	Lane / Place	7 / 2
reaction time	0.144	interval		1.10	1.10	1.09	1.08	1.07	1.12	1.12	1.12	1.13	1.52			3.29 3.27 3.37
wind	-0.3 m/s	velocity	5.12	8.31	8.31	8.39	8.46	8.54	8.16	8.16	8.16	8.09	9.22	7.78		8.33 8.39 8.14
Tanaka, Hideaki (JPN) (1995)																
Race 2 - 2020 World Athletics Trials (Fuji, JPN)																
date	06-Sep-20	time	2.71	3.83	4.92	6.00	7.10	8.19	9.28	10.40	11.51	12.65		14.13	Lane / Place	6 / 3
reaction time		interval	7 steps	1.12	1.09	1.08	1.10	1.09	1.09	1.12	1.11	1.14	1.48			3.29 3.28 3.37
wind	1.3 m/s	velocity	5.06	8.16	8.39	8.46	8.31	8.39	8.39	8.16	8.23	8.02	9.47	7.78		8.33 8.36 8.14
Ureña, Jorge (ESP) (1993)																
Decathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	05-Aug-21	time	2.68	3.77	4.90	6.01	7.10	8.21	9.30	10.40	11.53	12.68		14.13	Lane / Place	9 / 4
reaction time	0.132	interval		1.09	1.13	1.11	1.09	1.11	1.09	1.10	1.13	1.15	1.45			3.33 3.29 3.38
wind	-1.0 m/s	velocity	5.12	8.39	8.09	8.23	8.39	8.23	8.39	8.31	8.09	7.95	9.67	7.78		8.23 8.33 8.11
Maruyama, Yuma (JPN) (1998)																
Decathlon - Heat 2 - 2022 Michitaka Kinami Memorial (Osaka, JPN)																
date	01-May-22	time	2.69	3.82	4.91	5.99	7.07	8.14	9.23	10.36	11.49	12.61		14.13	Lane / Place	6 / 1
reaction time	0.146	interval		1.13	1.09	1.08	1.08	1.07	1.09	1.13	1.13	1.12	1.52			3.30 3.24 3.38
wind	1.2 m/s	velocity	5.10	8.09	8.39	8.46	8.46	8.54	8.39	8.09	8.09	8.16	9.22	7.78		8.31 8.46 8.11
Bacari, Elie (BEL) (2003)																
Repechage 3 - 2024 Olympic Games (Paris, FRA)																
date	06-Aug-24	time	2.39	3.47	4.53	5.58	6.64	7.70	8.79	9.90	11.02	12.18		14.13	Lane / Place	4 / 7
reaction time	0.147	interval	7 steps	1.08	1.06	1.05	1.06	1.06	1.09	1.11	1.12	1.16	1.95			3.19 3.21 3.39
wind	-1.1 m/s	velocity	5.74	8.46	8.62	8.70	8.62	8.62	8.39	8.23	8.16	7.88	7.19	7.78		8.60 8.54 8.09
Nossmly, Philip (SWE) (1982)																
FINAL - 2010 Swedish National Championships (Falun, SWE)																
date	22-Aug-10	time	2.70	3.79	4.85	5.92	6.98	8.06	9.15	10.29	11.42	12.55		14.14	Lane / Place	1 / 1
reaction time		interval		1.09	1.06	1.07	1.06	1.08	1.09	1.14	1.13	1.13	1.59			3.22 3.23 3.40
wind	-0.7 m/s	velocity	5.08	8.39	8.62	8.54	8.62	8.46	8.39	8.02	8.09	8.09	8.82	7.78		8.52 8.49 8.06
Dabó, Rasul (POR) (1989)																
Race 1 - 2011 European Team Championships (Stockholm, SWE)																
date	19-Jun-11	time	2.60	3.72	4.80	5.86	6.96	8.03	9.12	10.28	11.40	12.56		14.14	Lane / Place	2 / 5
reaction time	0.148	interval		1.12	1.08	1.06	1.10	1.07	1.09	1.16	1.12	1.16	1.58			3.26 3.26 3.44
wind	-0.8 m/s	velocity	5.28	8.16	8.46	8.62	8.31	8.54	8.39	7.88	8.16	7.88	8.87	7.78		8.41 8.41 7.97
Wado, Tatsuya (JPN) (1990)																
Heat 2 - 2013 Mito Invitational Athletics Meeting (Mito, JPN)																
date	04-May-13	time	2.64	3.72	4.84	5.93	7.03	8.11	9.20	10.32	11.46	12.62		14.14	Lane / Place	1 / 2
reaction time		interval		1.08	1.12	1.09	1.10	1.08	1.09	1.12	1.14	1.16	1.52			3.29 3.27 3.42
wind	0.8 m/s	velocity	5.20	8.46	8.16	8.39	8.31	8.46	8.39	8.16	8.02	7.88	9.22	7.78		8.33 8.39 8.02
Fudaba, Hiroki (JPN) (1994)																
FINAL - 2017 Michitaka Memorial (Osaka, JPN)																
date	07-May-17	time	2.72	3.81	4.92	6.00	7.10	8.19	9.29	10.39	11.52	12.63		14.14	Lane / Place	1 / 6
reaction time		interval	7 steps	1.09	1.11	1.08	1.10	1.09	1.10	1.10	1.13	1.11	1.51			3.28 3.29 3.34
wind	-0.8 m/s	velocity	5.04	8.39	8.23	8.46	8.31	8.39	8.31	8.31	8.09	8.23	9.28	7.78		8.36 8.33 8.21
Murakami, Masao (JPN)																
Heat 1 - 2017 Japanese National Championships (Osaka, JPN)																
date	24-Jun-17	time	2.64	3.74	4.83	5.92	7.00	8.09	9.19	10.32	11.46	12.64		14.14	Lane / Place	3 / 8
reaction time	0.167	interval		1.10	1.09	1.09	1.08	1.09	1.10	1.13	1.14	1.18	1.50			3.28 3.27 3.45
wind	1.3 m/s	velocity	5.20	8.31	8.39	8.39	8.46	8.39	8.31	8.09	8.02	7.75	9.35	7.78		8.36 8.39 7.95
Iwafune, Yoichi (JPN) (1985)																
Heat 4 - 2017 Japanese National Championships (Osaka, JPN)																
date	24-Jun-17	time	2.71	3.81	4.88	5.97	7.05	8.15	9.24	10.37	11.50	12.63		14.14	Lane / Place	7 / 6
reaction time	0.151	interval		1.10	1.07	1.09	1.08	1.10	1.09	1.13	1.13	1.13	1.51			3.26 3.27 3.39
wind	0.0 m/s	velocity	5.06	8.31	8.54	8.39	8.46	8.31	8.39	8.09	8.09	8.09	9.28	7.78		8.41 8.39 8.09
Kawamura, Naoya (JPN) (1996)																

FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)*Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season*

date	06-May-18	time	2.73	3.84	4.94	6.05	7.13	8.23	9.32	10.43	11.53	12.67	14.14	2 / 8			
reaction time		interval		1.11	1.10	1.11	1.08	1.10	1.09	1.11	1.10	1.14	1.47		3.32	3.27	3.35
wind	1.6 m/s	velocity	5.03	8.23	8.31	8.23	8.46	8.31	8.39	8.23	8.31	8.02	9.54	7.78	8.26	8.39	8.19

Sun Haoru (CHN) (1998)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	08-Jul-19	time	2.65	3.77	4.87	5.98	7.06	8.14	9.25	10.36	11.48	12.63	14.14	6 / 4			
reaction time	0.174	interval		1.12	1.10	1.11	1.08	1.08	1.11	1.11	1.12	1.15	1.51		3.33	3.27	3.38
wind	0.4 m/s	velocity	5.18	8.16	8.31	8.23	8.46	8.46	8.23	8.23	8.16	7.95	9.28	7.78	8.23	8.39	8.11

Li Jiming (CHN) (1996)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	02-Aug-19	time	2.64	3.73	4.80	5.91	7.00	8.09	9.18	10.29	11.40	12.58	14.14	1 / 6			
reaction time	0.176	interval		1.09	1.07	1.11	1.09	1.09	1.09	1.11	1.11	1.18	1.56		3.27	3.27	3.40
wind	0.0 m/s	velocity	5.20	8.39	8.54	8.23	8.39	8.39	8.39	8.23	8.23	7.75	8.99	7.78	8.39	8.39	8.06

Liu Bowen (CHN) (2001)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)*CAA Hurdle Development (2021)*

date	19-May-21	time	2.67	3.77	4.87	5.93	7.02	8.09	9.21	10.33	11.46	12.61	14.14	5 / 3			
reaction time	0.163	interval		1.10	1.10	1.06	1.09	1.07	1.12	1.12	1.13	1.15	1.53		3.26	3.28	3.40
wind	1.9 m/s	velocity	5.14	8.31	8.31	8.62	8.39	8.54	8.16	8.16	8.09	7.95	9.16	7.78	8.41	8.36	8.06

Sýkora, Jiří (CZE) (1995)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Decathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2022 year end hurdle report*

date	24-Jul-22	time	2.71	3.80	4.95	6.00	7.10	8.20	9.33	10.40	11.53	12.65	14.14	7 / 2			
reaction time	0.126	interval		1.09	1.15	1.05	1.10	1.10	1.13	1.07	1.13	1.12	1.49		3.29	3.33	3.32
wind	0.4 m/s	velocity	5.06	8.39	7.95	8.70	8.31	8.31	8.09	8.54	8.09	8.16	9.41	7.78	8.33	8.23	8.26

Nakamura, Akihiko (JPN) (1990)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Decathlon - Heat ?? - 2012 Tokyo Athletics Championships (Chofu, JPN)*Takeo (2014) - decathletes sprint ability & relationship of individual event performance*

date	22-Apr-12	time	2.71	3.83	4.94	6.05	7.15	8.26	9.35	10.46	11.59	12.72	14.15	???			
reaction time		interval		1.12	1.11	1.11	1.10	1.11	1.09	1.11	1.13	1.13	1.43		3.34	3.30	3.37
wind	-0.1 m/s	velocity	5.06	8.16	8.23	8.23	8.31	8.23	8.39	8.23	8.09	8.09	9.80	7.77	8.21	8.31	8.14

Wado, Tatsuya (JPN) (1990)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Heat 3 - 2013 Japanese National Championships (Chofu, JPN)*Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13*

date	08-Jun-13	time	2.63	3.74	4.82	5.91	7.02	8.11	9.22	10.32	11.45	12.63	14.15	5 / 4			
reaction time		interval		1.11	1.08	1.09	1.11	1.09	1.11	1.10	1.13	1.18	1.52		3.28	3.31	3.41
wind	-0.4 m/s	velocity	5.22	8.23	8.46	8.39	8.23	8.39	8.23	8.31	8.09	7.75	9.22	7.77	8.36	8.28	8.04

Takeyoshi, Daiki (JPN) (1994)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Semi-Final 3 - 2016 Japanese University Championships (Kumagaya, JPN)*(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	04-Sep-16	time	2.66	3.74	4.82	5.90	7.00	8.09	9.22	10.35	11.49	12.65	14.15	6 / 2			
reaction time	0.134	interval		1.08	1.08	1.08	1.10	1.09	1.13	1.13	1.14	1.16	1.50		3.24	3.32	3.43
wind	-0.1 m/s	velocity	5.16	8.46	8.46	8.46	8.31	8.39	8.09	8.09	8.02	7.88	9.35	7.77	8.46	8.26	7.99

Kishi, Kazuki (JPN) (1993)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Heat 2 - 2017 Japanese National Championships (Osaka, JPN)*(2017) - tfdata-store.com/2017/07/13/post-1040/*

date	24-Jun-17	time	2.65	3.75	4.85	5.95	7.06	8.14	9.27	10.39	11.53	12.67	14.15	9 / 6			
reaction time	0.158	interval		1.10	1.10	1.10	1.11	1.08	1.13	1.12	1.14	1.14	1.48		3.30	3.32	3.40
wind	0.0 m/s	velocity	5.18	8.31	8.31	8.31	8.23	8.46	8.09	8.16	8.02	8.02	9.47	7.77	8.31	8.26	8.06

Zhang Xiangyu (CHN) (1991)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

FINAL - 2018 National Grand Prix Final (Guiyang, CHN) (Altitude)*Zhang (2019) - comparative analysis characteristics Chinese elite men's 110m hurdles in different age groups*

date	17-Jun-18	time	2.71	3.80	4.89	5.97	7.08	8.16	9.27	10.37	11.50	12.62	14.15	9 / 7			
reaction time		interval		1.09	1.09	1.08	1.11	1.08	1.11	1.10	1.13	1.12	1.53		3.26	3.30	3.35
wind	-0.3 m/s	velocity	5.06	8.39	8.39	8.46	8.23	8.46	8.23	8.31	8.09	8.16	9.16	7.77	8.41	8.31	8.19

Ning Xiaohan (CHN) (2000)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Heat 3 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)*CAA Hurdle Development (2019)*

date	13-Apr-19	time	2.68	3.78	4.86	5.94	7.02	8.10	9.22	10.32	11.45	12.60	14.15	5 / 2			
reaction time	0.145	interval		1.10	1.08	1.08	1.08	1.08	1.12	1.10	1.13	1.15	1.55		3.26	3.28	3.38
wind	0.0 m/s	velocity	5.12	8.31	8.46	8.46	8.46	8.46	8.16	8.31	8.09	7.95	9.05	7.77	8.41	8.36	8.11

Sun Zhenjiang (CHN) (1999)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)*CAA Hurdle Development (2019)*

date	30-May-19	time	2.62	3.70	4.74	5.80	6.86	7.93	9.02	10.11	11.22	12.38	14.15	3 / 6			
reaction time	0.173	interval	7 steps	1.08	1.04	1.06	1.06	1.07	1.09	1.09	1.11	1.16	1.77		3.18	3.22	3.36
wind	0.0 m/s	velocity	5.24	8.46	8.79	8.62	8.62	8.54	8.39	8.39	8.23	7.88	7.92	7.77	8.62	8.52	8.16

Wang Weihao (CHN) (2001)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)*CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.64	3.72	4.80	5.87	6.96	8.09	9.20	10.33	11.45	12.63	14.15	4 / 4			
reaction time	0.174	interval		1.08	1.08	1.07	1.09	1.13	1.11	1.13	1.12	1.18	1.52		3.23	3.33	3.43
wind	-0.3 m/s	velocity	5.20	8.46	8.46	8.54	8.39	8.09	8.23	8.09	8.16	7.75	9.22	7.77	8.49	8.23	7.99
Toyoda, Ken (JPN) (2002)																	
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7 H7-H10
			Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season														
date	23-Aug-20	time	2.60	3.68	4.76	5.85	6.98	8.08	9.19	10.33	11.48	12.62	14.15	1 / 7			
reaction time	0.136	interval	7 steps	1.08	1.08	1.09	1.13	1.10	1.11	1.14	1.15	1.14	1.53	PB		3.25	3.34 3.43
wind	-0.4 m/s	velocity	5.28	8.46	8.46	8.39	8.09	8.31	8.23	8.02	7.95	8.02	9.16	7.77		8.44	8.21 7.99
Taue, Shun (JPN) (1997)																	
Decathlon - Heat 3 - 2020 Japanese Multi-Event National Championships (Nagano, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7 H7-H10
			Matsubayashi (2020) - research athlete performance technique- 2020 databook														
date	27-Sep-20	time	2.77	3.88	4.97	6.06	7.16	8.24	9.34	10.44	11.56	12.68	14.15	7 / 1			
reaction time		interval		1.11	1.09	1.09	1.10	1.08	1.10	1.10	1.12	1.12	1.47			3.29	3.28 3.34
wind	0.7 m/s	velocity	4.95	8.23	8.39	8.39	8.31	8.46	8.31	8.31	8.16	8.16	9.54	7.77		8.33	8.36 8.21
Guo Zhongjie (CHN) (2001)																	
Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7 H7-H10
			CAA Hurdle Development (2021)														
date	12-Jun-21	time	2.61	3.70	4.77	5.85	6.93	8.02	9.14	10.26	11.36	12.54	14.15	6 / 3			
reaction time	0.177	interval		1.09	1.07	1.08	1.08	1.09	1.12	1.12	1.10	1.18	1.61			3.24	3.29 3.40
wind	-0.8 m/s	velocity	5.26	8.39	8.54	8.46	8.46	8.39	8.16	8.16	8.31	7.75	8.71	7.77		8.46	8.33 8.06
Takahashi, Ryo (JPN) (2005)																	
FINAL - 2021 Japanese U18 National Championships (Matsuyama, JPN) (99cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7 H7-H10
			Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season														
date	22-Oct-21	time	2.71	3.83	4.93	6.02	7.10	8.19	9.31	10.40	11.52	12.64	14.15	9 / 5			
reaction time	0.163	interval		1.12	1.10	1.09	1.08	1.09	1.12	1.09	1.12	1.12	1.51			3.31	3.29 3.33
wind	-0.6 m/s	velocity	5.06	8.16	8.31	8.39	8.46	8.39	8.16	8.39	8.16	8.16	9.28	7.77		8.28	8.33 8.23
Kojima, Keiichiro (JPN)																	
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7 H7-H10
			Takashima (2023) - national high school sports festival - biomechanics data														
date	06-Aug-23	time	2.75	3.86	4.95	6.05	7.13	8.24	9.33	10.44	11.57	12.70	14.15	5 / 2			
reaction time	0.228	interval		1.11	1.09	1.10	1.08	1.11	1.09	1.11	1.13	1.13	1.45			3.30	3.28 3.37
wind	0.8 m/s	velocity	4.99	8.23	8.39	8.31	8.46	8.23	8.39	8.23	8.09	8.09	9.67	7.77		8.31	8.36 8.14
Chen Kuei-Ru (TPE) (1993)																	
B FINAL - 2024 Mikio Oda Memorial (Hiroshima, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7 H7-H10
			Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season														
date	29-Apr-24	time	2.67	3.77	4.84	5.89	6.98	8.05	9.17	10.28	11.41	12.56	14.15	1 / 6			
reaction time	0.171	interval	7 steps	1.10	1.07	1.05	1.09	1.07	1.12	1.11	1.13	1.15	1.59			3.22	3.28 3.39
wind	-0.7 m/s	velocity	5.14	8.31	8.54	8.70	8.39	8.54	8.16	8.23	8.09	7.95	8.82	7.77		8.52	8.36 8.09
Skotheim, Sander (NOR) (2002)																	
Decathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7 H7-H10
			Paris 2024 Olympic Games - Results Book (2024)														
date	03-Aug-24	time	2.50	3.65	4.78	5.87	6.97	8.06	9.16	10.24	11.34	12.46	14.15	8 / 1			
reaction time	0.161	interval		1.15	1.13	1.09	1.10	1.09	1.10	1.08	1.10	1.12	1.69			3.37	3.29 3.30
wind	0.2 m/s	velocity	5.49	7.95	8.09	8.39	8.31	8.39	8.31	8.46	8.31	8.16	8.30	7.77		8.14	8.33 8.31
de los Santos, Miguel (ESP) (1973)																	
FINAL - 1997 European Cup (Munich, GER)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7 H7-H10
			Jung (2003) - http://www.fgs.uni-halle.de														
date	22-Jun-97	time	2.77	3.87	4.94	6.02	7.08	8.17	9.29	10.40	11.52	12.70	14.16	1 / 8			
reaction time		interval		1.10	1.07	1.08	1.06	1.09	1.12	1.11	1.12	1.18	1.46			3.25	3.27 3.41
wind	0.2 m/s	velocity	4.95	8.31	8.54	8.46	8.62	8.39	8.16	8.23	8.16	7.75	9.60	7.77		8.44	8.39 8.04
Aoki, Yuto (JPN) (1984)																	
FINAL - 2008 Seiko Super Grand Prix (Kawasaki, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7 H7-H10
			Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles														
date	23-Sep-08	time	2.59	3.69	4.75	5.83	6.89	8.00	9.07	10.22	11.31	12.43	14.16	1 / 6			
reaction time		interval		1.10	1.06	1.08	1.06	1.11	1.07	1.15	1.09	1.12	1.73			3.24	3.24 3.36
wind	-0.7 m/s	velocity	5.30	8.31	8.62	8.46	8.62	8.23	8.54	7.95	8.39	8.16	8.10	7.77		8.46	8.46 8.16
Nakamura, Akihiko (JPN) (1990)																	
Decathlon - Heat 2 - 2013 Wakayama Athletics Meeting (Wakayama, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7 H7-H10
			Takeo (2014) - decathletes sprint ability & relationship of individual event performance														
date	28-Apr-13	time	2.69	3.81	4.91	6.03	7.12	8.23	9.34	10.46	11.58	12.72	14.16	6 / 2			
reaction time		interval		1.12	1.10	1.12	1.09	1.11	1.11	1.12	1.12	1.14	1.44			3.34	3.31 3.38
wind	1.5 m/s	velocity	5.10	8.16	8.31	8.16	8.39	8.23	8.23	8.16	8.16	8.02	9.74	7.77		8.21	8.28 8.11
Kato, Takuma (JPN) (1998)																	
FINAL - 2016 Niigata Prefecture High School Meeting (Niigata, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7 H7-H10
			(2016.05.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en														
date	29-May-16	time	2.68	3.78	4.88	5.97	7.08	8.20	9.31	10.43	11.56	12.70	14.16	1 / 1			
reaction time		interval		1.10	1.10	1.09	1.11	1.12	1.11	1.12	1.13	1.14	1.46			3.29	3.34 3.39
wind	-0.6 m/s	velocity	5.12	8.31	8.31	8.39	8.23	8.16	8.23	8.16	8.09	8.02	9.60	7.77		8.33	8.21 8.09
Taue, Shun (JPN) (1997)																	
Semi-Final 1 - 2016 Japanese University Championships (Kumagaya, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7 H7-H10
			(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en														
date	04-Sep-16	time	2.73	3.85	4.94	6.02	7.12	8.22	9.32	10.41	11.54	12.69	14.16	2 / 4			

reaction time	0.144	interval	1.12	1.09	1.08	1.10	1.10	1.10	1.09	1.13	1.15	1.47			3.29	3.30	3.37
wind	0.6 m/s	velocity	5.03	8.16	8.39	8.46	8.31	8.31	8.31	8.39	8.09	7.95	9.54	7.77	8.33	8.31	8.14

Zhang Tao (CHN) (1997)

Huang Tao (CHN) (1997)													H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																	CAA Hurdle Development (2019)												
date	13-Apr-19		time	2.72	3.82	4.90	5.98	7.06	8.16	9.26	10.40	11.52	12.68		14.16	8 / 3													
reaction time	0.198	interval		1.10	1.08	1.08	1.08	1.10	1.10	1.14	1.12	1.16	1.48													3.26	3.28	3.42	
wind	0.0 m/s	velocity	5.04	8.31	8.46	8.46	8.46	8.31	8.31	8.02	8.16	7.88	9.47	7.77												8.41	8.36	8.02	

Sato, Hiroyuki (JPN) (1990)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
ato, Hiroyuki (JPN) (1990)																	
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)												Yamanaka (2019) - research on athlete performance and technique- 2019 data book					
date	30-Jun-19	time	2.58	3.68	4.75	5.84	6.92	8.00	9.10	10.21	11.44	12.63	14.16	5 / 8			
reaction time	0.157	interval	1.10	1.07	1.09	1.08	1.08	1.10	1.11	1.23	1.19	1.53			3.26	3.26	3.53
wind	-0.6 m/s	velocity	5.32	8.31	8.54	8.39	8.46	8.46	8.31	8.23	7.43	7.68	9.16	7.77	8.41	8.41	7.77

Jiang Jinlong (CHN) (2000)

Ang Jinlong (CHN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)															CAA Hurdle Development (2019)		
date	14-Aug-19	time	2.70	3.80	4.90	5.99	7.09	8.18	9.26	10.37	11.48	12.61	14.16	3 / 5			
reaction time	0.168	interval	1.10	1.10	1.09	1.10	1.09	1.08	1.11	1.11	1.13	1.55			3.29	3.27	3.35
wind	-0.3 m/s	velocity	5.08	8.31	8.31	8.39	8.31	8.39	8.46	8.23	8.23	8.09	9.05	7.77	8.33	8.39	8.19

Greff, Ronan (FRA) (1998)

Ref, Ronan (FRA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)												Henson (2020) - Athlete First: 2020 year end hurdle report					
date	03-Sep-20	time	2.69	3.80	4.88	5.89	7.03	8.08	9.15	10.30	11.41	12.49	14.16	1 / 8			
reaction time	0.247	interval	1.11	1.08	1.01	1.14	1.05	1.07	1.15	1.11	1.08	1.67			3.20	3.26	3.34
wind	-0.3 m/s	velocity	5.10	8.23	8.46	9.05	8.02	8.70	8.54	7.95	8.23	8.46	8.40	7.77	8.57	8.41	8.21

Furuya, Shinta (JPN) (2000)

Iwajima, Shinta (JPN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 2 - 2020 World Athletics Trials (Fuji, JPN)												Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season					
date	06-Sep-20	time	2.65	3.76	4.83	5.92	7.00	8.10	9.22	10.36	11.49	12.64	14.16	7 / 4			
reaction time		interval	1.11	1.07	1.09	1.08	1.10	1.12	1.14	1.13	1.15	1.52	PB		3.27	3.30	3.42
wind	1.3 m/s	velocity	5.18	8.23	8.54	8.39	8.46	8.31	8.16	8.02	8.09	7.95	9.22	7.77	8.39	8.31	8.02

Pan Zijie (CHN) (1995)

an Zijie (CHN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)															CAA Hurdle Development (2021)		
date	12-Jun-21	time	2.51	3.61	4.72	5.80	6.91	8.03	9.14	10.25	11.40	12.53	14.16	7 / 4			
reaction time	0.111	interval	1.10	1.11	1.08	1.11	1.12	1.11	1.11	1.15	1.13	1.63			3.29	3.34	3.39
wind	-0.4 m/s	velocity	5.47	8.31	8.23	8.46	8.23	8.16	8.23	8.23	7.95	8.09	8.60	7.77	8.33	8.21	8.09

Yang Quanlei (CHN) (1999)

Ang Quanlei (CHN) (1999)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)															CAA Hurdle Development (2021)		
date	12-Jun-21	time	2.72	3.79	4.88	5.97	7.05	8.17	9.24	10.36	11.51	12.65	14.16	6 / 7			
reaction time	0.172	interval	1.07	1.09	1.09	1.08	1.12	1.07	1.12	1.15	1.14	1.51			3.25	3.27	3.41
wind	0.9 m/s	velocity	5.04	8.54	8.39	8.39	8.46	8.16	8.54	8.16	7.95	8.02	9.28	7.77	8.44	8.39	8.04

Lu Yang (CHN) (1996)

Y Yang (CHN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Chinese National Games (Xi'an, CHN)										Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers							
date	22-Sep-21	time	2.68	3.79	4.89	5.94	7.02	8.10	9.20	10.28	11.42	12.59	14.16	/ 8			
reaction time	0.146	interval	1.11	1.10	1.05	1.08	1.08	1.10	1.08	1.14	1.17	1.57			3.26	3.26	3.39
wind	0.0 m/s	velocity	5.12	8.23	8.31	8.70	8.46	8.46	8.31	8.46	8.02	7.81	8.93	7.77	8.41	8.41	8.09

Yoshima, Kaito (JPN) (1998)

Shibayama, Kaito (JPN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)										Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season							
date	29-Apr-22	time	2.70	3.81	4.90	5.99	7.06	8.13	9.24	10.35	11.48	12.64	14.16	1 / 6			
reaction time	0.175	interval	7 steps	1.11	1.09	1.09	1.07	1.07	1.11	1.11	1.13	1.16	1.52		3.29	3.25	3.40
wind	-0.7 m/s	velocity	5.08	8.23	8.39	8.39	8.54	8.54	8.23	8.23	8.09	7.88	9.22	7.77	8.33	8.44	8.06

Ji Haohao (CHN) (2001)

Zhaohao (CHN) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2022 Chinese National Grand Prix (Huangshi, CHN)										Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers							
date	15-Jul-22	time	2.66	3.76	4.86	5.94	7.04	8.16	9.28	10.41	11.53	12.66	14.16	/ 2			
reaction time		interval		1.10	1.10	1.08	1.10	1.12	1.12	1.13	1.12	1.13	1.50		3.28	3.34	3.38
wind	-0.2 m/s	velocity	5.16	8.31	8.31	8.46	8.31	8.16	8.16	8.09	8.16	8.09	9.35	7.77	8.36	8.21	8.11

Matsumae, Taiga (JPN) (2007)

atsumae, Taiga (JPN) (2007)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)										Takashima (2024) - national high school sports festival - biomechanics data							
date	01-Aug-24	time	2.68	3.80	4.89	5.97	7.06	8.15	9.27	10.37	11.48	12.63	14.16	4 / 5			
reaction time	0.161	interval	1.12	1.09	1.08	1.09	1.09	1.12	1.10	1.11	1.15	1.53	=PB		3.29	3.30	3.36
wind	-0.7 m/s	velocity	5.12	8.16	8.39	8.46	8.39	8.39	8.16	8.31	8.23	7.95	9.16	7.77	8.33	8.31	8.16

Santos, Miguel (ESP) (1973)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Antos, Miguel (ESP) (1973)																	
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)																	
Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas																	
date	02-Aug-98	time	2.66	3.75	4.85	5.98	7.04	8.16	9.28	10.38	11.50	12.63	14.17	6 / 2			
reaction time		interval	1.09	1.10	1.13	1.06	1.12	1.12	1.10	1.12	1.13	1.54			3.32	3.30	3.35

wind	0.1 m/s	velocity	5.16	8.39	8.31	8.09	8.62	8.16	8.16	8.31	8.16	8.09	9.10	7.76		8.26	8.31	8.19
Sato, Hiroyuki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2011 Japanese National Championships (Kumagaya, JPN)										<i>Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro</i>								
date	11-Jun-11	time	2.65	3.75	4.84	5.94	7.03	8.12	9.23	10.35	11.49	12.65		14.17	1 / 7			
reaction time		interval		1.10	1.09	1.10	1.09	1.09	1.11	1.12	1.14	1.16	1.52			3.29	3.29	3.42
wind	-2.0 m/s	velocity	5.18	8.31	8.39	8.31	8.39	8.39	8.23	8.16	8.02	7.88	9.22	7.76		8.33	8.33	8.02
Furuta, Kazuaki (JPN) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2017 Japanese National Championships (Osaka, JPN)										<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>								
date	24-Jun-17	time	2.69	3.79	4.86	5.95	7.04	8.13	9.26	10.37	11.50	12.65		14.17	3 / 7			
reaction time	0.130	interval		7 steps	1.10	1.07	1.09	1.09	1.13	1.11	1.13	1.15	1.52			3.26	3.31	3.39
wind	0.0 m/s	velocity	5.10	8.31	8.54	8.39	8.39	8.39	8.09	8.23	8.09	7.95	9.22	7.76		8.41	8.28	8.09
Ning Xiaohan (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)										<i>CAA Hurdle Development (2019)</i>								
date	08-Apr-19	time	2.62	3.72	4.80	5.88	6.95	8.05	9.14	10.26	11.40	12.58		14.17	4 / 1			
reaction time	0.158	interval			1.10	1.08	1.08	1.07	1.10	1.09	1.12	1.14	1.18	1.59		3.26	3.26	3.44
wind	-0.8 m/s	velocity	5.24	8.31	8.46	8.46	8.54	8.31	8.39	8.16	8.02	7.75	8.82	7.76		8.41	8.41	7.97
Kokubu, Toru (JPN) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)										<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>								
date	28-Apr-19	time	2.69	3.79	4.88	5.96	7.05	8.15	9.25	10.38	11.52	12.67		14.17	6 / 2			
reaction time		interval		7 steps	1.10	1.09	1.08	1.09	1.10	1.10	1.13	1.14	1.15	1.50		3.27	3.29	3.42
wind	1.4 m/s	velocity	5.10	8.31	8.39	8.46	8.39	8.31	8.31	8.09	8.02	7.95	9.35	7.76		8.39	8.33	8.02
Ning Xiaohan (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)										<i>CAA Hurdle Development (2019)</i>								
date	08-Jul-19	time	2.68	3.77	4.85	5.94	7.02	8.12	9.22	10.34	11.46	12.60		14.17	4 / 3			
reaction time	0.163	interval			1.09	1.08	1.09	1.08	1.10	1.10	1.12	1.12	1.14	1.57		3.26	3.28	3.38
wind	0.1 m/s	velocity	5.12	8.39	8.46	8.39	8.46	8.31	8.31	8.16	8.16	8.02	8.93	7.76		8.41	8.36	8.11
Pan Zijie (CHN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)										<i>CAA Hurdle Development (2019)</i>								
date	02-Aug-19	time	2.65	3.77	4.87	6.00	7.14	8.24	9.35	10.46	11.57	12.68		14.17	3 / 3			
reaction time	0.173	interval			1.12	1.10	1.13	1.14	1.10	1.11	1.11	1.11	1.11	1.49		3.35	3.35	3.33
wind	-0.3 m/s	velocity	5.18	8.16	8.31	8.09	8.02	8.31	8.23	8.23	8.23	8.23	9.41	7.76		8.19	8.19	8.23
Yang Quanlei (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)										<i>CAA Hurdle Development (2020)</i>								
date	16-Sep-20	time	2.70	3.79	4.89	6.00	7.08	8.18	9.29	10.43	11.56	12.68		14.17	5 / 4			
reaction time	0.175	interval			1.09	1.10	1.11	1.08	1.10	1.11	1.14	1.13	1.12	1.49		3.30	3.29	3.39
wind	0.3 m/s	velocity	5.08	8.39	8.31	8.23	8.46	8.31	8.23	8.02	8.09	8.16	9.41	7.76		8.31	8.33	8.09
Lu Yang (CHN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)										<i>CAA Hurdle Development (2020)</i>								
date	16-Sep-20	time	2.72	3.84	4.95	6.02	7.11	8.19	9.27	10.38	11.50	12.68		14.17	8 / 4			
reaction time	0.145	interval			1.12	1.11	1.07	1.09	1.08	1.08	1.11	1.12	1.18	1.49		3.30	3.25	3.41
wind	-0.5 m/s	velocity	5.04	8.16	8.23	8.54	8.39	8.46	8.46	8.23	8.16	7.75	9.41	7.76		8.31	8.44	8.04
Qin Weibo (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)										<i>CAA Hurdle Development (2020)</i>								
date	16-Sep-20	time	2.69	3.80	4.89	5.96	7.02	8.14	9.25	10.38	11.52	12.68		14.17	8 / 7			
reaction time	0.169	interval			1.11	1.09	1.07	1.06	1.12	1.11	1.13	1.14	1.16	1.49		3.27	3.29	3.43
wind	0.4 m/s	velocity	5.10	8.23	8.39	8.54	8.62	8.16	8.23	8.09	8.02	7.88	9.41	7.76		8.39	8.33	7.99
Xu Zhuoyi (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)										<i>CAA Hurdle Development (2021)</i>								
date	08-Apr-21	time	2.72	3.84	4.96	6.04	7.12	8.24	9.32	10.44	11.56	12.68		14.17	5 / 4			
reaction time		interval		7 steps	1.12	1.12	1.08	1.08	1.12	1.08	1.12	1.12	1.12	1.49		3.32	3.28	3.36
wind	-0.1 m/s	velocity	5.04	8.16	8.16	8.46	8.46	8.16	8.46	8.16	8.16	8.16	9.41	7.76		8.26	8.36	8.16
Long Wei (CHN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)										<i>CAA Hurdle Development (2021)</i>								
date	25-Jun-21	time	2.62	3.71	4.81	5.91	7.01	8.11	9.24	10.34	11.50	12.65		14.17	2 / 6			
reaction time	0.162	interval			1.09	1.10	1.10	1.10	1.13	1.10	1.16	1.15	1.52			3.29	3.33	3.41
wind	0.5 m/s	velocity	5.24	8.39	8.31	8.31	8.31	8.31	8.09	8.31	7.88	7.95	9.22	7.76		8.33	8.23	8.04
Hirotsu, Ato (JPN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)										<i>Shibayama (2021) - national high school and U20 national championships</i>								
date	01-Aug-21	time	2.73	3.80	4.92	5.99	7.10	8.22	9.33	10.45	11.58	12.70		14.17	2 / 5			
reaction time	0.136	interval			1.07	1.12	1.07	1.11	1.12	1.11	1.12	1.13	1.12	1.47		3.26	3.34	3.37
wind	1.4 m/s	velocity	5.03	8.54	8.16	8.54	8.23	8.16	8.23	8.16	8.09	8.16	9.54	7.76		8.41	8.21	8.14

Lovett, Eddie (ISV) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		Henson (2024) - Athlete First: 2021 year end hurdle report															
date	03-Aug-21	time	2.58	3.65	4.77	5.85	6.96	8.05	9.13	10.24	11.41	12.62	14.17	9 / 7			
reaction time	0.132	interval		1.07	1.12	1.08	1.11	1.09	1.08	1.11	1.17	1.21	1.55		3.27	3.28	3.49
wind	-0.2 m/s	velocity	5.32	8.54	8.16	8.46	8.23	8.39	8.46	8.23	7.81	7.55	9.05	7.76	8.39	8.36	7.86
Yan Chenyu (CHN) (2003)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2022 Chinese National Grand Prix (Huangshi, CHN)		Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers															
date	15-Jul-22	time	2.66	3.79	4.91	6.01	7.11	8.21	9.34	10.45	11.56	12.68	14.17	/ 3			
reaction time		interval		1.13	1.12	1.10	1.10	1.10	1.13	1.11	1.11	1.12	1.49	PB	3.35	3.33	3.34
wind	-0.2 m/s	velocity	5.16	8.09	8.16	8.31	8.31	8.31	8.09	8.23	8.23	8.16	9.41	7.76	8.19	8.23	8.21
Wu Zhenhua (CHN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2022 Chinese National Grand Prix (Huangshi, CHN)		Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers															
date	15-Jul-22	time	2.63	3.74	4.84	5.94	7.05	8.15	9.27	10.39	11.50	12.63	14.17	/ 4			
reaction time		interval		1.11	1.10	1.10	1.11	1.10	1.12	1.12	1.11	1.13	1.54		3.31	3.33	3.36
wind	-0.2 m/s	velocity	5.22	8.23	8.31	8.31	8.23	8.31	8.16	8.16	8.23	8.09	9.10	7.76	8.28	8.23	8.16
Takahashi, Daishi (JPN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)		Takashima (2023) - national high school sports festival - biomechanics data															
date	06-Aug-23	time	2.69	3.76	4.85	5.96	7.07	8.17	9.29	10.40	11.52	12.66	14.17	2 / 3			
reaction time	0.180	interval		1.07	1.09	1.11	1.11	1.10	1.12	1.11	1.12	1.14	1.51		3.27	3.33	3.37
wind	0.8 m/s	velocity	5.10	8.54	8.39	8.23	8.23	8.31	8.16	8.23	8.16	8.02	9.28	7.76	8.39	8.23	8.14
Katsuta, Kizuku (JPN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Japanese National High School Championships (Okayama, JPN) (99cm)		Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics															
date	02-Aug-16	time	2.65	3.74	4.88	5.99	7.11	8.24	9.36	10.46	11.59	12.74	14.18	4 / 2			
reaction time	0.147	interval		1.09	1.14	1.11	1.12	1.13	1.12	1.10	1.13	1.15	1.44	PB	3.34	3.37	3.38
wind	1.2 m/s	velocity	5.18	8.39	8.02	8.23	8.16	8.09	8.16	8.31	8.09	7.95	9.74	7.76	8.21	8.14	8.11
Zhang Tao (CHN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)		CAA Hurdle Development (2019)															
date	24-Aug-19	time	2.72	3.85	4.93	6.03	7.11	8.21	9.31	10.42	11.55	12.67	14.18	4 / 5			
reaction time	0.181	interval		1.13	1.08	1.10	1.08	1.10	1.10	1.11	1.13	1.12	1.51		3.31	3.28	3.36
wind	-0.1 m/s	velocity	5.04	8.09	8.46	8.31	8.46	8.31	8.31	8.23	8.09	8.16	9.28	7.76	8.28	8.36	8.16
Sasaki, Keito (JPN) (2003)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Japanese U20 National Championships (Osaka, JPN) (99cm)		Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season															
date	12-Jun-22	time	2.75	3.86	4.96	6.05	7.13	8.20	9.30	10.39	11.51	12.64	14.18	3 / 8			
reaction time	0.175	interval		1.11	1.10	1.09	1.08	1.07	1.10	1.09	1.12	1.13	1.54		3.30	3.25	3.34
wind	1.1 m/s	velocity	4.99	8.23	8.31	8.39	8.46	8.54	8.31	8.39	8.16	8.09	9.10	7.76	8.31	8.44	8.21
Garland, Kyle (USA) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)		Henson (2024) - Athlete First: 2022 year end hurdle report															
date	24-Jul-22	time	2.60	3.73	4.78	5.86	6.98	8.06	9.20	10.32	11.42	12.58	14.18	2 / 5			
reaction time	0.141	interval		1.13	1.05	1.08	1.12	1.08	1.14	1.12	1.10	1.16	1.60		3.26	3.34	3.38
wind	1.1 m/s	velocity	5.28	8.09	8.70	8.46	8.16	8.46	8.02	8.16	8.31	7.88	8.76	7.76	8.41	8.21	8.11
Golubovic, Daniel (AUS) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)		Henson (2024) - Athlete First: 2023 year end hurdle report															
date	26-Aug-23	time	2.76	3.92	5.00	6.06	7.18	8.23	9.34	10.41	11.51	12.61	14.18	6 / 2			
reaction time	0.178	interval		1.16	1.08	1.06	1.12	1.05	1.11	1.07	1.10	1.10	1.57		3.30	3.28	3.27
wind	0.1 m/s	velocity	4.97	7.88	8.46	8.62	8.16	8.70	8.23	8.54	8.31	8.31	8.93	7.76	8.31	8.36	8.39
Maruyama, Yuma (JPN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN)		Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season															
date	26-Aug-23	time	2.74	3.88	4.98	6.06	7.16	8.24	9.35	10.48	11.59	12.70	14.18	7 / 2			
reaction time	0.192	interval	7 steps	1.14	1.10	1.08	1.10	1.08	1.11	1.13	1.11	1.11	1.48		3.32	3.29	3.35
wind	0.1 m/s	velocity	5.01	8.02	8.31	8.46	8.31	8.46	8.23	8.09	8.23	8.23	9.47	7.76	8.26	8.33	8.19
Ishida Thomas, Higashi (JPN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2024 Mikio Oda Memorial (Hiroshima, JPN)		Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season															
date	29-Apr-24	time	2.67	3.73	4.81	5.90	7.02	8.13	9.25	10.38	11.50	12.68	14.18	3 / 7			
reaction time	0.167	interval	7 steps	1.06	1.08	1.09	1.12	1.11	1.12	1.13	1.12	1.18	1.50		3.23	3.35	3.43
wind	-0.7 m/s	velocity	5.14	8.62	8.46	8.39	8.16	8.23	8.16	8.09	8.16	7.75	9.35	7.76	8.49	8.19	7.99
Hashizume, Rento (JPN) (2006)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)		Takashima (2024) - national high school sports festival - biomechanics data															
date	01-Aug-24	time	2.69	3.78	4.88	5.99	7.08	8.18	9.29	10.43	11.56	12.72	14.18	3 / 5			
reaction time	0.143	interval		1.09	1.10	1.11	1.09	1.10	1.11	1.14	1.13	1.16	1.46	PB	3.30	3.30	3.43
wind	-0.7 m/s	velocity	5.10	8.39	8.31	8.23	8.39	8.31	8.23	8.02	8.09	7.88	9.60	7.76	8.31	8.31	7.99

Pogorelov, Aleksandr (RUS) (1980)																
Decathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)										<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
date	20-Aug-09	time	2.82	3.94	5.04	6.15	7.25	8.34	9.41	10.52	11.64	12.74	14.19	8 / 1		
reaction time	0.146	interval		1.12	1.10	1.11	1.10	1.09	1.07	1.11	1.12	1.10	1.45		3.33	3.26
wind	0.3 m/s	velocity	4.87	8.16	8.31	8.23	8.31	8.39	8.54	8.23	8.16	8.31	9.67	7.75	8.23	8.41
Martinsen, Andreas (DEN) (1990)																
FINAL - 2011 Windsprint (Sundsvall, SWE)										<i>Blomkvist (2011) - www.sub13.se</i>						
date	31-Jul-11	time	2.71	3.81	4.87	5.94	7.01	8.08	9.17	10.31	11.44	12.59	14.19	/ 3		
reaction time		interval		1.10	1.06	1.07	1.07	1.07	1.09	1.14	1.13	1.15	1.60		3.23	3.23
wind	2.8 m/s	velocity	5.06	8.31	8.62	8.54	8.54	8.54	8.39	8.02	8.09	7.95	8.76	7.75	8.49	8.49
Smith, Chad (USA) (1974)																
Decathlon - Heat ?? - 2004 Mt. SAC Relays (Walnut, CA)										<i>Henson (2004) - USATF OTC sport science</i>						
date	18-Apr-04	time	2.55	3.67	4.75	5.83	6.92	8.02	9.12	10.22	11.37	12.52	14.19	/ 1		
reaction time		interval		1.12	1.08	1.08	1.09	1.10	1.10	1.10	1.15	1.15	1.67		3.28	3.29
wind	2.8 m/s	velocity	5.38	8.16	8.46	8.46	8.39	8.31	8.31	8.31	7.95	7.95	8.40	7.75	8.36	8.33
Hiramatsu, Papdamba (JPN) (1997)																
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (99cm)										<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015</i>						
date	02-Aug-15	time	2.64	3.73	4.82	5.91	6.99	8.09	9.22	10.36	11.49	12.64	14.19	5 / 3		
reaction time		interval		1.09	1.09	1.09	1.08	1.10	1.13	1.14	1.13	1.15	1.55	PB	3.27	3.31
wind	1.4 m/s	velocity	5.20	8.39	8.39	8.39	8.46	8.31	8.09	8.02	8.09	7.95	9.05	7.75	8.39	8.28
Takata, Kota (JPN)																
FINAL - 2016 Kyoto Prefecture High School Meeting (Kyoto, JPN)										<i>(2016.05.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>						
date	21-May-16	time	2.73	3.82	4.96	6.03	7.14	8.24	9.34	10.46	11.59	12.73	14.19	7 / 1		
reaction time		interval		1.09	1.14	1.07	1.11	1.10	1.10	1.12	1.13	1.14	1.46		3.30	3.31
wind	2.1 m/s	velocity	5.03	8.39	8.02	8.54	8.23	8.31	8.31	8.16	8.09	8.02	9.60	7.75	8.31	8.28
Hatanaka, Yushi (JPN) (1994)																
FINAL - 2016 Kansai Student Athletics Championships (Osaka, JPN)										<i>(2016.10.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>						
date	19-Oct-16	time	2.71	3.83	4.92	6.04	7.13	8.23	9.34	10.46	11.60	12.73	14.19	5 / 1		
reaction time		interval		7 steps	1.12	1.09	1.12	1.09	1.10	1.11	1.12	1.14	1.46		3.33	3.30
wind	-1.0 m/s	velocity	5.06	8.16	8.39	8.16	8.39	8.31	8.23	8.16	8.02	8.09	9.60	7.75	8.23	8.31
Nagamatsu, Hiroya (JPN) (1999)																
Heat 2 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)										<i>(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>						
date	21-Oct-16	time	2.67	3.77	4.86	6.00	7.10	8.22	9.33	10.45	11.59	12.72	14.19	8 / 2		
reaction time		interval		1.10	1.09	1.14	1.10	1.12	1.11	1.12	1.14	1.13	1.47		3.33	3.33
wind	2.3 m/s	velocity	5.14	8.31	8.39	8.02	8.31	8.16	8.23	8.16	8.02	8.09	9.54	7.75	8.23	8.23
Kubota, Taichi (JPN) (2000)																
Semi-Final 2 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)										<i>(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>						
date	21-Oct-16	time	2.78	3.91	5.01	6.12	7.21	8.31	9.41	10.49	11.61	12.72	14.19	5 / 3		
reaction time		interval		1.13	1.10	1.11	1.09	1.10	1.10	1.08	1.12	1.11	1.47		3.34	3.29
wind	1.6 m/s	velocity	4.94	8.09	8.31	8.23	8.39	8.31	8.31	8.46	8.16	8.23	9.54	7.75	8.21	8.33
Katsuta, Kizuku (JPN) (1999)																
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)										<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics</i>						
date	02-Aug-17	time	2.68	3.78	4.88	5.98	7.08	8.20	9.33	10.44	11.59	12.73	14.19	7 / 1		
reaction time	0.153	interval		1.10	1.10	1.10	1.10	1.12	1.13	1.11	1.15	1.14	1.46		3.30	3.35
wind	-0.7 m/s	velocity	5.12	8.31	8.31	8.31	8.31	8.16	8.09	8.23	7.95	8.02	9.60	7.75	8.31	8.19
Ning Xiaohan (CHN) (2000)																
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)										<i>CAA Hurdle Development (2019)</i>						
date	13-Apr-19	time	2.68	3.80	4.86	5.96	7.02	8.14	9.24	10.38	11.52	12.67	14.19	5 / 5		
reaction time	0.163	interval		1.12	1.06	1.10	1.06	1.12	1.10	1.14	1.14	1.15	1.52		3.28	3.28
wind	-0.3 m/s	velocity	5.12	8.16	8.62	8.31	8.62	8.16	8.31	8.02	8.02	7.95	9.22	7.75	8.36	8.36
Wu Zhenhua (CHN) (1998)																
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)										<i>CAA Hurdle Development (2019)</i>						
date	13-Apr-19	time	2.72	3.81	4.92	6.03	7.10	8.19	9.34	10.45	11.57	12.73	14.19	8 / 6		
reaction time	0.178	interval		1.09	1.11	1.11	1.07	1.09	1.15	1.11	1.12	1.16	1.46	PB	3.31	3.31
wind	-0.3 m/s	velocity	5.04	8.39	8.23	8.23	8.54	8.39	7.95	8.23	8.16	7.88	9.60	7.75	8.28	8.28
Maruyama, Yuma (JPN) (1998)																
Decathlon - Heat 2 - 2019 Japanese National Multi-Event Championships (Nagano, JPN)										<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>						
date	09-Jun-19	time	2.69	3.80	4.91	5.99	7.08	8.19	9.28	10.41	11.53	12.68	14.19	5 / 3		
reaction time		interval		1.11	1.11	1.08	1.09	1.11	1.09	1.13	1.12	1.15	1.51		3.30	3.29
wind	2.1 m/s	velocity	5.10	8.23	8.23	8.46	8.39	8.23	8.39	8.09	8.16	7.95	9.28	7.75	8.31	8.33
Pan Zijie (CHN) (1995)																
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10

FINAL - 2021 East China District Meeting (Zhaoqing, CHN)															CAA Hurdle Development (2021)			
date	24-Apr-21	time	2.68	3.79	4.91	5.99	7.08	8.19	9.28	10.39	11.54	12.68	14.19	2 / 5				
reaction time	0.186	interval		1.11	1.12	1.08	1.09	1.11	1.09	1.11	1.15	1.14	1.51		3.31	3.29	3.40	
wind	-0.3 m/s	velocity	5.12	8.23	8.16	8.46	8.39	8.23	8.39	8.23	7.95	8.02	9.28	7.75	8.28	8.33	8.06	
Liu Bowen (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)															CAA Hurdle Development (2021)			
date	25-Jun-21	time	2.60	3.70	4.80	5.91	6.99	8.11	9.22	10.33	11.48	12.65	14.19	7 / 3				
reaction time	0.201	interval		1.10	1.10	1.11	1.08	1.12	1.11	1.11	1.15	1.17	1.54		3.31	3.31	3.43	
wind	-0.2 m/s	velocity	5.28	8.31	8.31	8.23	8.46	8.16	8.23	8.23	7.95	7.81	9.10	7.75	8.28	8.28	7.99	
Hashimoto, Yu (JPN) (2006)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)															Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season			
date	24-Oct-21	time	2.67	3.77	4.88	6.00	7.12	8.23	9.36	10.47	11.55	12.68	14.19	1 / 1				
reaction time		interval		1.10	1.11	1.12	1.12	1.11	1.13	1.11	1.08	1.13	1.51		3.33	3.36	3.32	
wind	1.0 m/s	velocity	5.14	8.31	8.23	8.16	8.16	8.23	8.09	8.23	8.46	8.09	9.28	7.75	8.23	8.16	8.26	
Yang Yuxuan (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2022 Chinese National Grand Prix (Huangshi, CHN)															Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers			
date	15-Jul-22	time	2.69	3.81	4.91	6.00	7.07	8.17	9.28	10.39	11.51	12.67	14.19	1 / 2				
reaction time		interval		1.12	1.10	1.09	1.07	1.10	1.11	1.11	1.12	1.16	1.52		3.31	3.28	3.39	
wind	0.2 m/s	velocity	5.10	8.16	8.31	8.39	8.54	8.31	8.23	8.23	8.16	7.88	9.22	7.75	8.28	8.36	8.09	
Kawasaki, Kousuke (JPN) (2007)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)															Takashima (2024) - national high school sports festival - biomechanics data			
date	01-Aug-24	time	2.74	3.84	4.95	6.04	7.14	8.24	9.34	10.46	11.58	12.72	14.19	9 / 6				
reaction time	0.156	interval		1.10	1.11	1.09	1.10	1.10	1.10	1.12	1.12	1.14	1.47	PB	3.30	3.30	3.38	
wind	-0.7 m/s	velocity	5.01	8.31	8.23	8.39	8.31	8.31	8.31	8.16	8.16	8.02	9.54	7.75	8.31	8.31	8.11	
Al-Ameen, Alex (GBR) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 Windsprint (Sundsvall, SWE)															Blomkvist (2010) - www.sub13.se			
date	08-Aug-10	time	2.75	3.86	4.95	6.03	7.11	8.21	9.31	10.42	11.53	12.67	14.20	1 / 6				
reaction time	0.138	interval		1.11	1.09	1.08	1.08	1.10	1.10	1.11	1.11	1.14	1.53		3.28	3.28	3.36	
wind	1.1 m/s	velocity	4.99	8.23	8.39	8.46	8.46	8.31	8.31	8.23	8.23	8.02	9.16	7.75	8.36	8.36	8.16	
Kichima, Kaito (JPN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Japanese National High School Championships (Okayama, JPN) (99cm)															Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics			
date	02-Aug-16	time	2.68	3.78	4.87	5.95	7.05	8.15	9.27	10.38	11.53	12.70	14.20	7 / 3				
reaction time	0.161	interval		1.10	1.09	1.08	1.10	1.10	1.12	1.11	1.15	1.17	1.50	PB	3.27	3.32	3.43	
wind	1.2 m/s	velocity	5.12	8.31	8.39	8.46	8.31	8.31	8.16	8.23	7.95	7.81	9.35	7.75	8.39	8.26	7.99	
Tomioka, Tatsuto (JPN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Japanese National High School Championships (Okayama, JPN) (99cm)															Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics			
date	02-Aug-16	time	2.71	3.82	4.94	6.02	7.12	8.21	9.30	10.41	11.54	12.67	14.20	5 / 4				
reaction time	0.138	interval		1.11	1.12	1.08	1.10	1.09	1.09	1.11	1.13	1.13	1.53	PB	3.31	3.28	3.37	
wind	1.2 m/s	velocity	5.06	8.23	8.16	8.46	8.31	8.39	8.39	8.23	8.09	8.09	9.16	7.75	8.28	8.36	8.14	
Fudaba, Hiroki (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)															(2017) - tfdata-store.com/2017/05/01/458/			
date	29-Apr-17	time	2.72	3.83	4.92	6.00	7.09	8.18	9.29	10.40	11.54	12.68	14.20	1 / 5				
reaction time		interval	7 steps	1.11	1.09	1.08	1.09	1.09	1.11	1.11	1.14	1.14	1.52		3.28	3.29	3.39	
wind	-1.5 m/s	velocity	5.04	8.23	8.39	8.46	8.39	8.39	8.23	8.23	8.02	8.02	9.22	7.75	8.36	8.33	8.09	
Okazaki, Masaki (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 East Japan Business Athletics Championships (Yuma, JPN)															(2017) - tfdata-store.com/2017/05/20/post-579/			
date	20-May-17	time	2.64	3.74	4.83	5.94	7.02	8.16	9.28	10.40	11.55	12.70	14.20	8 / 7				
reaction time		interval		1.10	1.09	1.11	1.08	1.14	1.12	1.12	1.15	1.15	1.50		3.30	3.34	3.42	
wind	1.1 m/s	velocity	5.20	8.31	8.39	8.23	8.46	8.02	8.16	8.16	7.95	7.95	9.35	7.75	8.31	8.21	8.02	
Katsuta, Kizuku (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Fuse Sprint (Tottori, JPN)															(2017) - tfdata-store.com/2017/06/04/post-848/			
date	04-Jun-17	time	2.69	3.78	4.90	5.99	7.09	8.20	9.32	10.45	11.57	12.74	14.20	3 / 6				
reaction time		interval		1.09	1.12	1.09	1.10	1.11	1.12	1.13	1.12	1.17	1.46		3.30	3.33	3.42	
wind	3.2 m/s	velocity	5.10	8.39	8.16	8.39	8.31	8.23	8.16	8.09	8.16	7.81	9.60	7.75	8.31	8.23	8.02	
Kiriyaama, Norihiro (JPN) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)															(2017) - tfdata-store.com/2017/07/13/post-1040/			
date	24-Jun-17	time	2.69	3.78	4.86	5.93	7.04	8.16	9.26	10.38	11.53	12.68	14.20	5 / 7				
reaction time	0.176	interval		1.09	1.08	1.07	1.11	1.12	1.10	1.12	1.15	1.15	1.52		3.24	3.33	3.42	
wind	0.0 m/s	velocity	5.10	8.39	8.46	8.54	8.23	8.16	8.31	8.16	7.95	7.95	9.22	7.75	8.46	8.23	8.02	
Kim Kyung-Tae (KOR) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Korean National Championships (Kimchun, KOR)															Hong (2018) - performance of men's 110m hurdles using rhythmic units			

date	02-Jun-17	time	2.65	3.78	4.88	6.01	7.14	8.21	9.31	10.41	11.54	12.67	14.20	/ 3			
reaction time		interval		1.13	1.10	1.13	1.13	1.07	1.10	1.10	1.13	1.13	1.53		3.36	3.30	3.36
wind	2.6 m/s	velocity	5.18	8.09	8.31	8.09	8.09	8.54	8.31	8.31	8.09	8.09	9.16	7.75	8.16	8.31	8.16
Nakamura, Akihiko (JPN) (1990)																	
Decathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)																	
date	17-Jun-18	time	2.69	3.85	4.95	6.04	7.14	8.25	9.34	10.48	11.61	12.75	14.20	4 / 2			
reaction time		interval		1.16	1.10	1.09	1.10	1.11	1.09	1.14	1.13	1.14	1.45		3.35	3.30	3.41
wind	0.2 m/s	velocity	5.10	7.88	8.31	8.39	8.31	8.23	8.39	8.02	8.09	8.02	9.67	7.75	8.19	8.31	8.04
McCorry, Jacob (AUS) (1997)																	
B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																	
date	28-Apr-19	time	2.67	3.76	4.83	5.92	7.03	8.14	9.25	10.36	11.46	12.63	14.20	3 / 3			
reaction time		interval		1.09	1.07	1.09	1.11	1.11	1.11	1.11	1.10	1.17	1.57		3.25	3.33	3.38
wind	1.4 m/s	velocity	5.14	8.39	8.54	8.39	8.23	8.23	8.23	8.23	8.31	7.81	8.93	7.75	8.44	8.23	8.11
Zhang Tao (CHN) (1997)																	
Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)																	
date	02-Aug-19	time	2.70	3.82	4.90	5.96	7.07	8.16	9.24	10.36	11.48	12.65	14.20	4 / 2			
reaction time	0.174	interval		1.12	1.08	1.06	1.11	1.09	1.08	1.12	1.12	1.17	1.55		3.26	3.28	3.41
wind	-0.2 m/s	velocity	5.08	8.16	8.46	8.62	8.23	8.39	8.46	8.16	8.16	7.81	9.05	7.75	8.41	8.36	8.04
Sun Zhenjiang (CHN) (1999)																	
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																	
date	23-Aug-19	time	2.62	3.72	4.80	5.90	6.99	8.09	9.21	10.33	11.46	12.64	14.20	7 / 2			
reaction time	0.177	interval	7 steps	1.10	1.08	1.10	1.09	1.10	1.12	1.12	1.13	1.18	1.56		3.28	3.31	3.43
wind	-0.2 m/s	velocity	5.24	8.31	8.46	8.31	8.39	8.31	8.16	8.16	8.09	7.75	8.99	7.75	8.36	8.28	7.99
Pistol, Marvin (FRA) (1996)																	
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)																	
date	13-Sep-20	time	2.67	3.75	4.86	5.94	6.96	8.10	9.15	10.23	11.34	12.49	14.20	1 / 5			
reaction time	0.202	interval		1.08	1.11	1.08	1.02	1.14	1.05	1.08	1.11	1.15	1.71		3.27	3.21	3.34
wind	0.0 m/s	velocity	5.14	8.46	8.23	8.46	8.96	8.02	8.70	8.46	8.23	7.95	8.20	7.75	8.39	8.54	8.21
Li Huaihai (CHN) (1999)																	
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)																	
date	24-Apr-21	time	2.66	3.76	4.86	5.94	7.03	8.13	9.25	10.36	11.51	12.66	14.20	4 / 2			
reaction time	0.162	interval	7 steps	1.10	1.10	1.08	1.09	1.10	1.12	1.11	1.15	1.15	1.54		3.28	3.31	3.41
wind	-1.2 m/s	velocity	5.16	8.31	8.31	8.46	8.39	8.31	8.16	8.23	7.95	7.95	9.10	7.75	8.36	8.28	8.04
Tomita, Kanto (JPN) (2004)																	
FINAL - 2021 Japanese U18 National Championships (Matsuyama, JPN) (99cm)																	
date	22-Oct-21	time	2.71	3.82	4.91	6.00	7.10	8.19	9.30	10.41	11.54	12.68	14.20	3 / 6			
reaction time	0.191	interval		1.11	1.09	1.09	1.10	1.09	1.11	1.11	1.13	1.14	1.52		3.29	3.30	3.38
wind	-0.6 m/s	velocity	5.06	8.23	8.39	8.39	8.31	8.39	8.23	8.23	8.09	8.02	9.22	7.75	8.33	8.31	8.11
Vega, Javier (ESP) (1975)																	
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)																	
date	02-Aug-98	time	2.66	3.75	4.84	5.95	7.02	8.14	9.24	10.37	11.50	12.64	14.21	7 / 3			
reaction time		interval		1.09	1.09	1.11	1.07	1.12	1.10	1.13	1.13	1.14	1.57		3.29	3.29	3.40
wind	0.1 m/s	velocity	5.16	8.39	8.39	8.23	8.54	8.16	8.31	8.09	8.09	8.02	8.93	7.74	8.33	8.33	8.06
Vahnyakov, Oleksandr (UKR) (1986)																	
FINAL - 2007 European Cup (Munich, GER)																	
date	24-Jun-07	time	2.80	3.93	5.02	6.08	7.15	8.24	9.35	10.47	11.57	12.69	14.21	/ 8			
reaction time	0.243	interval		1.13	1.09	1.06	1.07	1.09	1.11	1.12	1.10	1.12	1.52		3.28	3.27	3.34
wind	0.4 m/s	velocity	4.90	8.09	8.39	8.62	8.54	8.39	8.23	8.16	8.31	8.16	9.22	7.74	8.36	8.39	8.21
Yazawa, Wataru (JPN) (1991)																	
FINAL - 2011 Asian Championships (Kobe, JPN)																	
date	10-Jul-11	time	2.62	3.72	4.80	5.91	7.01	8.11	9.23	10.37	11.51	12.69	14.21	/ 4			
reaction time		interval		1.10	1.08	1.11	1.10	1.10	1.12	1.14	1.14	1.18	1.52		3.29	3.32	3.46
wind	-2.1 m/s	velocity	5.24	8.31	8.46	8.23	8.31	8.31	8.16	8.02	8.02	7.75	9.22	7.74	8.33	8.26	7.92
Penáz, Petr (CZE) (1991)																	
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)																	
date	02-Aug-14	time	2.82	3.93	5.03	6.13	7.21	8.31	9.40	10.49	11.60	12.72	14.21	5 / 1			
reaction time	0.190	interval		1.11	1.10	1.10	1.08	1.10	1.09	1.09	1.11	1.12	1.49		3.31	3.27	3.32
wind	0.8 m/s	velocity	4.87	8.23	8.31	8.31	8.46	8.31	8.39	8.39	8.23	8.16	9.41	7.74	8.28	8.39	8.26
Nakamura, Akihiko (JPN) (1990)																	
Decathlon - Heat 1 - 2014 Japanese Multi-Event National Championships (Nagano, JPN)																	
date	01-Jun-14	time	2.68	3.79	4.93	6.04	7.14	8.27	9.40	10.52	11.64	12.77	14.21	5 / 2			

reaction time		interval	1.11	1.14	1.11	1.10	1.13	1.13	1.12	1.12	1.13	1.44			3.36	3.36	3.37
wind	0.1 m/s	velocity	5.12	8.23	8.02	8.23	8.31	8.09	8.09	8.16	8.16	8.09	9.74	7.74	8.16	8.16	8.14

Tsuneyoshi, Keisuke (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2016 Japanese University Championships (Kumagaya, JPN)			(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	04-Sep-16	time	2.76	3.88	4.97	6.07	7.17	8.27	9.36	10.52	11.63	12.78		14.21	4 / 5			
reaction time	0.173	interval		1.12	1.09	1.10	1.10	1.10	1.09	1.16	1.11	1.15	1.43			3.31	3.29	3.42
wind	0.6 m/s	velocity	4.97	8.16	8.39	8.31	8.31	8.31	8.39	7.88	8.23	7.95	9.80	7.74		8.28	8.33	8.02

Furuya, Kyohei (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2016 Japanese University Championships (Kumagaya, JPN)			(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	04-Sep-16	time	2.68	3.77	4.89	5.97	7.09	8.18	9.34	10.48	11.61	12.78		14.21	3 / 7			
reaction time	0.133	interval		1.09	1.12	1.08	1.12	1.09	1.16	1.14	1.13	1.17	1.43			3.29	3.37	3.44
wind	0.7 m/s	velocity	5.12	8.39	8.16	8.46	8.16	8.39	7.88	8.02	8.09	7.81	9.80	7.74		8.33	8.14	7.97

Kawakami, Asuma (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	21-Oct-16	time	2.67	3.78	4.88	5.97	7.08	8.20	9.31	10.43	11.56	12.71		14.21	7 / 1			
reaction time		interval		1.11	1.10	1.09	1.11	1.12	1.11	1.12	1.13	1.15	1.50			3.30	3.34	3.40
wind	1.7 m/s	velocity	5.14	8.23	8.31	8.39	8.23	8.16	8.23	8.16	8.09	7.95	9.35	7.74		8.31	8.21	8.06

Hiramatsu, Papdamba (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Mito Invitational (Mito, JPN)			(2017) - tdata-store.com/2017/05/06/post-423/															
date	05-May-17	time	2.63	3.76	4.87	5.96	7.07	8.19	9.30	10.41	11.55	12.69		14.21	9 / 5			
reaction time		interval	7 steps	1.13	1.11	1.09	1.11	1.12	1.11	1.11	1.14	1.14	1.52			3.33	3.34	3.39
wind	-2.3 m/s	velocity	5.22	8.09	8.23	8.39	8.23	8.16	8.23	8.23	8.02	8.02	9.22	7.74		8.23	8.21	8.09

Okazaki, Masaki (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)			(2017) - tdata-store.com/2017/07/13/post-1040/															
date	24-Jun-17	time	2.65	3.79	4.90	6.00	7.11	8.23	9.35	10.48	11.62	12.76		14.21	7 / 8			
reaction time	0.142	interval	7 steps	1.14	1.11	1.10	1.11	1.12	1.12	1.13	1.14	1.14	1.45			3.35	3.35	3.41
wind	0.0 m/s	velocity	5.18	8.02	8.23	8.31	8.23	8.16	8.16	8.09	8.02	8.02	9.67	7.74		8.19	8.19	8.04

Sato, Hiroyuki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)			Kobayashi (2019) - research on athlete performance and technique- 2019 data book															
date	28-Apr-19	time	2.59	3.69	4.76	5.84	6.93	8.03	9.13	10.28	11.47	12.65		14.21	2 / 4			
reaction time		interval		1.10	1.07	1.08	1.09	1.10	1.10	1.15	1.19	1.18	1.56			3.25	3.29	3.52
wind	1.4 m/s	velocity	5.30	8.31	8.54	8.46	8.39	8.31	8.31	7.95	7.68	7.75	8.99	7.74		8.44	8.33	7.79

Ma Lei (CHN) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)			CAA Hurdle Development (2019)															
date	08-Jul-19	time	2.72	3.85	4.95	6.04	7.14	8.22	9.31	10.43	11.54	12.69		14.21	7 / 4			
reaction time	0.155	interval	7 steps	1.13	1.10	1.09	1.10	1.08	1.09	1.12	1.11	1.15	1.52			3.32	3.27	3.38
wind	0.1 m/s	velocity	5.04	8.09	8.31	8.39	8.31	8.46	8.39	8.16	8.23	7.95	9.22	7.74		8.26	8.39	8.11

Kondo, Mizuki (JPN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (99cm)			Kota (2019) - 72nd high school champs: JAF scientific committee - biomechanics data															
date	08-Aug-19	time	2.69	3.80	4.92	6.00	7.12	8.23	9.33	10.46	11.57	12.72		14.21	5 / 2			
reaction time		interval		1.11	1.12	1.08	1.12	1.11	1.10	1.13	1.11	1.15	1.49	PB		3.31	3.33	3.39
wind	-3.0 m/s	velocity	5.10	8.23	8.16	8.46	8.16	8.23	8.31	8.09	8.23	7.95	9.41	7.74		8.28	8.23	8.09

Gao Shunyang (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)			CAA Hurdle Development (2019)															
date	14-Aug-19	time	2.75	3.85	4.95	6.02	7.11	8.19	9.28	10.38	11.49	12.64		14.21	2 / 5			
reaction time	0.184	interval		1.10	1.10	1.07	1.09	1.08	1.09	1.10	1.11	1.15	1.57			3.27	3.26	3.36
wind	0.6 m/s	velocity	4.99	8.31	8.31	8.54	8.39	8.46	8.39	8.31	8.23	7.95	8.93	7.74		8.39	8.41	8.16

Nakamura, Akihiko (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2020 Japanese Multi-Event National Championships (Nagano, JPN)			Matsubayashi (2020) - research athlete performance technique- 2020 databook															
date	27-Sep-20	time	2.71	3.85	4.94	6.05	7.15	8.26	9.37	10.49	11.60	12.73		14.21	4 / 2			
reaction time		interval		1.14	1.09	1.11	1.10	1.11	1.11	1.12	1.11	1.13	1.48			3.34	3.32	3.36
wind	0.7 m/s	velocity	5.06	8.02	8.39	8.23	8.31	8.23	8.23	8.16	8.23	8.09	9.47	7.74		8.21	8.26	8.16

Wu Zhenhua (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)			CAA Hurdle Development (2021)															
date	24-Apr-21	time	2.68	3.80	4.88	5.98	7.08	8.20	9.32	10.44	11.59	12.72		14.21	9 / 3			
reaction time	0.156	interval		1.12	1.08	1.10	1.10	1.12	1.12	1.12	1.15	1.13	1.49			3.30	3.34	3.40
wind	-1.1 m/s	velocity	5.12	8.16	8.46	8.31	8.31	8.16	8.16	8.16	7.95	8.09	9.41	7.74		8.31	8.21	8.06

Raja, Andres (EST) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)			Graubner (2009) - biomechanical analyses at the 12th IAAF world championships															
date	20-Aug-09	time	2.67	3.79	4.91	6.00	7.10	8.19	9.29	10.43	11.55	12.71		14.22	7 / 3			
reaction time	0.151	interval		1.12	1.12	1.09	1.10	1.09	1.10	1.14	1.12	1.16	1.51			3.33	3.29	3.42

wind	0.3 m/s	velocity	5.14	8.16	8.16	8.39	8.31	8.39	8.31	8.02	8.16	7.88	9.28	7.74		8.23	8.33	8.02
Carda, Jan (CZE) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Czech Republic National Championships (Tábor, CZE)			<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>															
date	15-Jun-13	time	2.66	3.76	4.84	5.91	6.99	8.09	9.23	10.37	11.51	12.69		14.22	2 / 3			
reaction time	0.135	interval	1.10	1.08	1.07	1.08	1.10	1.10	1.14	1.14	1.14	1.18	1.53	PB		3.25	3.32	3.46
wind	0.4 m/s	velocity	5.16	8.31	8.46	8.54	8.46	8.31	8.02	8.02	8.02	7.75	9.16	7.74		8.44	8.26	7.92
Tanaka, Shinya (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2016 Japanese University Championships (Kumagaya, JPN)			<i>(2016.09.05) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en</i>															
date	04-Sep-16	time	2.68	3.77	4.86	5.96	7.07	8.17	9.29	10.44	11.58	12.75		14.22	7 / 3			
reaction time	0.141	interval	7 steps	1.09	1.09	1.10	1.11	1.10	1.12	1.15	1.14	1.17	1.47			3.28	3.33	3.46
wind	-0.1 m/s	velocity	5.12	8.39	8.39	8.31	8.23	8.31	8.16	7.95	8.02	7.81	9.54	7.74		8.36	8.23	7.92
Tokuoka, Rika (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			<i>(2016.11.11) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en</i>															
date	21-Oct-16	time	2.64	3.76	4.85	5.93	7.01	8.11	9.22	10.35	11.51	12.67		14.22	8 / 3			
reaction time		interval	1.12	1.09	1.08	1.08	1.10	1.11	1.13	1.16	1.16	1.55				3.29	3.29	3.45
wind	-0.2 m/s	velocity	5.20	8.16	8.39	8.46	8.46	8.31	8.23	8.09	7.88	7.88	9.05	7.74		8.33	8.33	7.95
Kato, Yoshihiko (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2017 Mito Invitational (Mito, JPN)			<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>															
date	05-May-17	time	2.72	3.82	4.93	6.03	7.12	8.23	9.35	10.46	11.60	12.74		14.22	9 / 2			
reaction time		interval	1.10	1.11	1.10	1.09	1.11	1.12	1.11	1.14	1.14	1.48				3.31	3.32	3.39
wind	0.3 m/s	velocity	5.04	8.31	8.23	8.31	8.39	8.23	8.16	8.23	8.02	8.02	9.47	7.74		8.28	8.26	8.09
Jian Wei (CHN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)			<i>Henson (2018) - coaching observations</i>															
date	15-Sep-18	time	2.68	3.78	4.87	5.94	7.02	8.12	9.22	10.36	11.50	12.66		14.22	8 / 5			
reaction time		interval	7 steps	1.10	1.09	1.07	1.08	1.10	1.10	1.14	1.14	1.16	1.56			3.26	3.28	3.44
wind	0.7 m/s	velocity	5.12	8.31	8.39	8.54	8.46	8.31	8.31	8.02	8.02	7.88	8.99	7.74		8.41	8.36	7.97
Nakamura, Akihiko (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN)			<i>Matsubayashi (2018) - research on athlete performance and technique</i>															
date	22-Apr-18	time	2.73	3.85	4.96	6.06	7.16	8.26	9.36	10.49	11.62	12.76		14.22	5 / 1			
reaction time		interval	1.12	1.11	1.10	1.10	1.10	1.10	1.10	1.13	1.13	1.14	1.46			3.33	3.30	3.40
wind	1.1 m/s	velocity	5.03	8.16	8.23	8.31	8.31	8.31	8.31	8.09	8.09	8.02	9.60	7.74		8.23	8.31	8.06
Guo Zhongjie (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	30-May-19	time	2.68	3.77	4.87	5.96	7.05	8.12	9.24	10.36	11.53	12.68		14.22	1 / 7			
reaction time	0.192	interval	1.09	1.10	1.09	1.09	1.07	1.12	1.12	1.17	1.15	1.54				3.28	3.28	3.44
wind	0.0 m/s	velocity	5.12	8.39	8.31	8.39	8.39	8.54	8.16	8.16	7.81	7.95	9.10	7.74		8.36	8.36	7.97
Bautista, Clinton Kingsley (PHI) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	04-Jun-19	time	2.60	3.70	4.80	5.88	6.99	8.10	9.25	10.41	11.57	12.72		14.22	2 / 6			
reaction time	0.169	interval	7 steps	1.10	1.10	1.08	1.11	1.11	1.15	1.16	1.16	1.15	1.50			3.28	3.37	3.47
wind	-0.3 m/s	velocity	5.28	8.31	8.31	8.46	8.23	8.23	7.95	7.88	7.88	7.95	9.35	7.74		8.36	8.14	7.90
Guo Zhongjie (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)			<i>CAA Hurdle Development (2020)</i>															
date	16-Sep-20	time	2.71	3.79	4.87	5.95	7.05	8.16	9.26	10.37	11.52	12.68		14.22	7 / 5			
reaction time	0.179	interval	1.08	1.08	1.08	1.10	1.11	1.10	1.11	1.15	1.16	1.54				3.24	3.31	3.42
wind	0.3 m/s	velocity	5.06	8.46	8.46	8.46	8.31	8.23	8.31	8.23	7.95	7.88	9.10	7.74		8.46	8.28	8.02
Guo Zhongjie (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)			<i>CAA Hurdle Development (2020)</i>															
date	16-Sep-20	time	2.74	3.81	4.89	5.96	7.05	8.14	9.24	10.36	11.51	12.67		14.22	2 / 8			
reaction time	0.185	interval	1.07	1.08	1.07	1.09	1.09	1.10	1.12	1.15	1.16	1.55				3.22	3.28	3.43
wind	0.4 m/s	velocity	5.01	8.54	8.46	8.54	8.39	8.39	8.31	8.16	7.95	7.88	9.05	7.74		8.52	8.36	7.99
Chen Jie (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	24-Apr-21	time	2.73	3.85	4.94	6.04	7.16	8.26	9.38	10.50	11.60	12.75		14.22	7 / 4			
reaction time	0.168	interval	1.12	1.09	1.10	1.12	1.10	1.12	1.12	1.10	1.15	1.47	PB			3.31	3.34	3.37
wind	-1.1 m/s	velocity	5.03	8.16	8.39	8.31	8.16	8.31	8.16	8.16	8.31	7.95	9.54	7.74		8.28	8.21	8.14
Imanishi, Ryota (JPN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)			<i>Shibayama (2021) - national high school and U20 national championships</i>															
date	01-Aug-21	time	2.74	3.87	4.97	6.07	7.16	8.28	9.39	10.50	11.63	12.76		14.22	8 / 6			
reaction time	0.187	interval	1.13	1.10	1.10	1.09	1.12	1.11	1.11	1.13	1.13	1.46	PB			3.33	3.32	3.37
wind	1.4 m/s	velocity	5.01	8.09	8.31	8.31	8.39	8.16	8.23	8.23	8.09	8.09	9.60	7.74		8.23	8.26	8.14

Nakamura, Akihiko (JPN) (1990)																
Decathlon - Heat 1	2014 Nittai University Distance Meeting (Wakayama, JPN)															
date	27-Apr-14	time	2.71	3.84	4.97	6.09	7.21	8.32	9.43	10.54	11.67	12.80		14.23	4 / 1	
reaction time		interval		1.13	1.13	1.12	1.12	1.11	1.11	1.11	1.13	1.13	1.43		3.38	3.34
wind	1.0 m/s	velocity	5.06	8.09	8.09	8.16	8.16	8.23	8.23	8.23	8.09	8.09	9.80	7.73	8.11	8.21
Kawamura, Naoya (JPN) (1996)																
Semi-Final 1	2016 Japanese University Championships (Kumagaya, JPN)															
date	04-Sep-16	time	2.78	3.89	4.98	6.07	7.17	8.28	9.38	10.50	11.62	12.77		14.23	3 / 6	
reaction time	0.160	interval		1.11	1.09	1.09	1.10	1.11	1.10	1.12	1.12	1.15	1.46		3.29	3.31
wind	0.6 m/s	velocity	4.94	8.23	8.39	8.39	8.31	8.23	8.31	8.16	8.16	7.95	9.60	7.73	8.33	8.28
Wu Zhenhua (CHN) (1998)																
Heat 4	2019 Chinese National Grand Prix 2 (Huangshi, CHN)															
date	13-Apr-19	time	2.70	3.80	4.90	5.99	7.11	8.22	9.36	10.46	11.60	12.72		14.23	6 / 1	
reaction time	0.174	interval		1.10	1.10	1.09	1.12	1.11	1.14	1.10	1.14	1.12	1.51	PB	3.29	3.37
wind	-0.8 m/s	velocity	5.08	8.31	8.31	8.39	8.16	8.23	8.02	8.31	8.02	8.16	9.28	7.73	8.33	8.14
Yang Yuxuan (CHN) (2002)																
Heat 2	2019 Chinese National Championships (Shenyang, CHN)															
date	08-Jul-19	time	2.70	3.82	4.90	6.00	7.11	8.22	9.34	10.46	11.59	12.74		14.23	8 / 5	
reaction time	0.158	interval		1.12	1.08	1.10	1.11	1.11	1.12	1.12	1.13	1.15	1.49	PB	3.30	3.34
wind	0.4 m/s	velocity	5.08	8.16	8.46	8.31	8.23	8.23	8.16	8.16	8.09	7.95	9.41	7.73	8.31	8.21
Li Jiming (CHN) (1996)																
Heat 1	2019 Chinese National Grand Prix Final (Daqing, CHN)															
date	23-Aug-19	time	2.70	3.80	4.89	5.97	7.06	8.16	9.26	10.36	11.48	12.64		14.23	8 / 3	
reaction time	0.192	interval		1.10	1.09	1.08	1.09	1.10	1.10	1.10	1.12	1.16	1.59		3.27	3.29
wind	-0.2 m/s	velocity	5.08	8.31	8.39	8.46	8.39	8.31	8.31	8.31	8.16	7.88	8.82	7.73	8.39	8.33
Xu Zhuoyi (CHN) (2003)																
Heat 1	2021 Chinese National Championships (Chongqing, CHN)															
date	25-Jun-21	time	2.68	3.80	4.89	5.97	7.06	8.15	9.26	10.38	11.54	12.71		14.23	6 / 3	
reaction time	0.156	interval	7 steps	1.12	1.09	1.08	1.09	1.09	1.11	1.12	1.16	1.17	1.52		3.29	3.29
wind	-1.0 m/s	velocity	5.12	8.16	8.39	8.46	8.39	8.39	8.23	8.16	7.88	7.81	9.22	7.73	8.33	8.33
Chan Chung Wang (HKG) (1991)																
Heat 4	2020 Olympic Games (Tokyo, JPN) (TV Analysis)															
date	03-Aug-21	time	2.62	3.73	4.81	5.90	7.02	8.13	9.21	10.32	11.46	12.64		14.23	7 / 8	
reaction time	0.149	interval	7 steps	1.11	1.08	1.09	1.12	1.11	1.08	1.11	1.14	1.18	1.59		3.28	3.31
wind	-0.2 m/s	velocity	5.24	8.23	8.46	8.39	8.16	8.23	8.46	8.23	8.02	7.75	8.82	7.73	8.36	8.28
Ikeda, Kai (JPN) (2002)																
FINAL	2023 Michitaka Kinami Memorial (Osaka, JPN)															
date	07-May-23	time	2.67	3.89	5.05	6.15	7.25	8.33	9.43	10.53	11.62	12.74		14.23	8 / 8	
reaction time	0.164	interval	7 steps	1.22	1.16	1.10	1.10	1.08	1.10	1.10	1.09	1.12	1.49		3.48	3.28
wind	-0.3 m/s	velocity	5.14	7.49	7.88	8.31	8.31	8.46	8.31	8.31	8.39	8.16	9.41	7.73	7.88	8.36
Behrenbruch, Pascal (GER) (1985)																
Decathlon - Heat 2	2009 IAAF World Championships (Berlin, GER)															
date	20-Aug-09	time	2.75	3.87	4.97	6.07	7.17	8.28	9.39	10.50	11.63	12.77		14.24	2 / 4	
reaction time	0.156	interval		1.12	1.10	1.10	1.10	1.11	1.11	1.11	1.13	1.14	1.47		3.32	3.32
wind	0.3 m/s	velocity	4.99	8.16	8.31	8.31	8.31	8.23	8.23	8.23	8.09	8.02	9.54	7.72	8.26	8.26
Nakamura, Akihiko (JPN) (1990)																
Decathlon - Heat 1	2013 Japanese Multi-Event National Championships (Nagano, JPN)															
date	02-Jun-13	time	2.68	3.81	4.94	6.06	7.17	8.29	9.38	10.53	11.68	12.81		14.24	6 / 2	
reaction time		interval		1.13	1.13	1.12	1.11	1.12	1.09	1.15	1.15	1.13	1.43		3.38	3.32
wind	0.7 m/s	velocity	5.12	8.09	8.09	8.16	8.23	8.16	8.39	7.95	7.95	8.09	9.80	7.72	8.11	8.26
Morita, Shunichi (JPN) (1989)																
FINAL	2017 Fuse Sprint (Tottori, JPN)															
date	04-Jun-17	time	2.76	3.83	4.95	6.05	7.14	8.24	9.37	10.50	11.63	12.78		14.24	2 / 7	
reaction time		interval		1.07	1.12	1.10	1.09	1.10	1.13	1.13	1.13	1.15	1.46		3.29	3.32
wind	3.2 m/s	velocity	4.97	8.54	8.16	8.31	8.39	8.31	8.09	8.09	8.09	7.95	9.60	7.72	8.33	8.26
Zhao Pengchuan (CHN) (1993)																
FINAL	2019 Chinese National Grand Prix 2 (Huangshi, CHN)															
date	13-Apr-19	time	2.68	3.81	4.90	5.96	7.06	8.18	9.28	10.42	11.54	12.68		14.24	7 / 7	
reaction time	0.176	interval		1.13	1.09	1.06	1.10	1.12	1.10	1.14	1.12	1.14	1.56		3.28	3.32
wind	-0.3 m/s	velocity	5.12	8.09	8.39	8.62	8.31	8.16	8.31	8.02	8.16	8.02	8.99	7.72	8.36	8.26

Miyazaki, Takumi (JPN) (2001)																
B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)										<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>						
date	29-Apr-22	time	2.65	3.76	4.84	5.95	7.06	8.17	9.29	10.42	11.58	12.74		14.24	2 / 7	
reaction time	0.161	interval		1.11	1.08	1.11	1.11	1.11	1.12	1.13	1.16	1.16	1.50		3.30	3.34
wind	-0.7 m/s	velocity	5.18	8.23	8.46	8.23	8.23	8.23	8.16	8.09	7.88	7.88	9.35	7.72	8.31	7.95
Nakamura, Akihiko (JPN) (1990)																
Decathlon - Heat ?? - 2011 Japanese Multi-Event National Championships (Kawasaki, JPN)										<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>						
date	05-Jun-11	time	2.70	3.83	4.95	6.06	7.17	8.28	9.40	10.52	11.65	12.79		14.25	???	
reaction time		interval		1.13	1.12	1.11	1.11	1.11	1.12	1.12	1.13	1.14	1.46		3.36	3.39
wind	1.4 m/s	velocity	5.08	8.09	8.16	8.23	8.23	8.23	8.16	8.16	8.09	8.02	9.60	7.72	8.16	8.09
Sklenár, David (CZE) (1997)																
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)										<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>						
date	28-Jun-14	time	2.67	3.77	4.86	5.94	7.02	8.11	9.22	10.35	11.49	12.66		14.25	5 / 2	
reaction time	0.159	interval		1.10	1.09	1.08	1.08	1.09	1.11	1.13	1.14	1.17	1.59		3.27	3.44
wind	-3.7 m/s	velocity	5.14	8.31	8.39	8.46	8.46	8.39	8.23	8.09	8.02	7.81	8.82	7.72	8.39	7.97
Higuchi, Rikuto (JPN) (1999)																
FINAL - 2016 Japanese National High School Championships (Okayama, JPN) (99cm)										<i>Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics</i>						
date	02-Aug-16	time	2.68	3.78	4.86	5.96	7.07	8.21	9.35	10.47	11.60	12.77		14.25	2 / 5	
reaction time	0.168	interval		1.10	1.08	1.10	1.11	1.14	1.14	1.12	1.13	1.17	1.48	PB	3.28	3.42
wind	1.2 m/s	velocity	5.12	8.31	8.46	8.31	8.23	8.02	8.02	8.16	8.09	7.81	9.47	7.72	8.36	8.02
Kanai, Taio (JPN) (1995)																
FINAL - 2016 Japanese University Championships (Kumagaya, JPN)										<i>(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>						
date	04-Sep-16	time	2.64	3.75	4.85	5.94	7.03	8.17	9.30	10.44	11.57	12.73		14.25	6 / 4	
reaction time	0.146	interval	7 steps	1.11	1.10	1.09	1.09	1.14	1.13	1.14	1.13	1.16	1.52		3.30	3.43
wind	-1.9 m/s	velocity	5.20	8.23	8.31	8.39	8.39	8.02	8.09	8.02	8.09	7.88	9.22	7.72	8.31	7.99
Furukawa, Yutaro (JPN) (1985)																
Heat 3 - 2017 Mito Invitational (Mito, JPN)										<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>						
date	05-May-17	time	2.65	3.73	4.81	5.90	6.99	8.09	9.21	10.35	11.49	12.66		14.25	4 / 3	
reaction time		interval		1.08	1.08	1.09	1.09	1.10	1.12	1.14	1.14	1.17	1.59		3.25	3.45
wind	-2.5 m/s	velocity	5.18	8.46	8.46	8.39	8.39	8.31	8.16	8.02	8.02	7.81	8.82	7.72	8.44	7.95
Nishizawa, Masanori (JPN) (1987)																
FINAL - 2017 Nambu Memorial (Sapporo, JPN)										<i>(2017) - tfdata-store.com/2017/07/12/post-1025/</i>						
date	09-Jul-17	time	2.71	3.81	4.91	6.02	7.11	8.20	9.30	10.41	11.56	12.72		14.25	9 / 5	
reaction time		interval		1.10	1.10	1.11	1.09	1.09	1.10	1.11	1.15	1.16	1.53		3.31	3.42
wind	2.7 m/s	velocity	5.06	8.31	8.31	8.23	8.39	8.39	8.31	8.23	7.95	7.88	9.16	7.72	8.28	8.02
Tanaka, Shinya (JPN) (1993)																
FINAL - 2018 Fuse Sprint (Tottori, JPN)										<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>						
date	03-Jun-18	time	2.65	3.75	4.83	5.92	7.00	8.11	9.25	10.38	11.53	12.70		14.25	1 / 7	
reaction time		interval		1.10	1.08	1.09	1.08	1.11	1.14	1.13	1.15	1.17	1.55		3.27	3.45
wind	0.5 m/s	velocity	5.18	8.31	8.46	8.39	8.46	8.23	8.02	8.09	7.95	7.81	9.05	7.72	8.39	7.95
Sun Haoru (CHN) (1998)																
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)										<i>CAA Hurdle Development (2019)</i>						
date	13-Apr-19	time	2.70	3.81	4.92	6.02	7.12	8.20	9.29	10.42	11.54	12.70		14.25	3 / 8	
reaction time	0.181	interval		1.11	1.11	1.10	1.10	1.08	1.09	1.13	1.12	1.16	1.55	PB	3.32	3.41
wind	-0.3 m/s	velocity	5.08	8.23	8.23	8.31	8.31	8.46	8.39	8.09	8.16	7.88	9.05	7.72	8.26	8.04
Guo Zhongjie (CHN) (2001)																
FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)										<i>CAA Hurdle Development (2019)</i>						
date	23-May-19	time	2.74	3.82	4.88	5.94	7.02	8.12	9.22	10.32	11.46	12.66		14.25	3 / 8	
reaction time	0.219	interval		1.08	1.06	1.06	1.08	1.10	1.10	1.10	1.14	1.20	1.59		3.20	3.44
wind	2.5 m/s	velocity	5.01	8.46	8.62	8.62	8.46	8.31	8.31	8.31	8.02	7.62	8.82	7.72	8.57	7.97
Zhao Pengchuan (CHN) (1993)																
Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)										<i>CAA Hurdle Development (2019)</i>						
date	02-Aug-19	time	2.69	3.82	4.93	6.01	7.12	8.21	9.32	10.43	11.56	12.69		14.25	4 / 4	
reaction time	0.168	interval		1.13	1.11	1.08	1.11	1.09	1.11	1.11	1.13	1.13	1.56		3.32	3.37
wind	-0.3 m/s	velocity	5.10	8.09	8.23	8.46	8.23	8.39	8.23	8.23	8.09	8.09	8.99	7.72	8.26	8.14
Wu Zhenhua (CHN) (1998)																
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)										<i>CAA Hurdle Development (2019)</i>						
date	02-Aug-19	time	2.70	3.82	4.93	6.02	7.12	8.21	9.32	10.43	11.58	12.75		14.25	7 / 7	
reaction time	0.151	interval		1.12	1.11	1.09	1.10	1.09	1.11	1.11	1.15	1.17	1.50		3.32	3.43
wind	0.0 m/s	velocity	5.08	8.16	8.23	8.39	8.31	8.39	8.23	8.23	7.95	7.81	9.35	7.72	8.26	7.99
Li Huaihai (CHN) (1999)																

Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)

date	16-Sep-20	time	2.69	3.77	4.93	6.03	7.13	8.23	9.32	10.45	11.57	12.72		14.25	CAA Hurdle Development (2020)			
reaction time	0.185	interval		1.08	1.16	1.10	1.10	1.10	1.09	1.13	1.12	1.15	1.53			3.34	3.29	3.40
wind	0.3 m/s	velocity	5.10	8.46	7.88	8.31	8.31	8.31	8.39	8.09	8.16	7.95	9.16	7.72		8.21	8.33	8.06

Xie Wenjun (CHN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)

date	12-Jun-21	time	2.59	3.69	4.76	5.83	6.90	8.01	9.13	10.28	11.42	12.59		14.25	CAA Hurdle Development (2021)			
reaction time	0.162	interval		1.10	1.07	1.07	1.07	1.11	1.12	1.15	1.14	1.17	1.66			3.24	3.30	3.46
wind	-0.8 m/s	velocity	5.30	8.31	8.54	8.54	8.54	8.23	8.16	7.95	8.02	7.81	8.45	7.72		8.46	8.31	7.92

Nishi, Tetsuro (JPN) (2004)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 Mikio Oda Memorial (Hiroshima, JPN)

date	29-Apr-24	time	2.73	3.83	4.92	6.01	7.08	8.18	9.28	10.40	11.53	12.68		14.25	Shibayama (2024) - race analysis of domestic and international men's 110m hurdles in the 2024 season			
reaction time	0.179	interval	7 steps	1.10	1.09	1.09	1.07	1.10	1.10	1.12	1.13	1.15	1.57			3.28	3.27	3.40
wind	-0.6 m/s	velocity	5.03	8.31	8.39	8.39	8.54	8.31	8.31	8.16	8.09	7.95	8.93	7.72		8.36	8.39	8.06

Rooth, Markus (NOR) (2001)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Decathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)

date	03-Aug-24	time	2.46	3.60	4.71	5.80	6.91	8.01	9.15	10.25	11.38	12.55		14.25	Paris 2024 Olympic Games - Results Book (2024)			
reaction time	0.143	interval		1.14	1.11	1.09	1.11	1.10	1.14	1.10	1.13	1.17	1.70			3.34	3.35	3.40
wind	0.2 m/s	velocity	5.58	8.02	8.23	8.39	8.23	8.31	8.02	8.31	8.09	7.81	8.25	7.72		8.21	8.19	8.06

Coertzen, Willem (RSA) (1982)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Decathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)

date	20-Aug-09	time	2.75	3.86	4.97	6.08	7.17	8.27	9.39	10.49	11.63	12.79		14.26	Graubner (2009) - biomechanical analyses at the 12th IAAF world championships			
reaction time	0.152	interval		1.11	1.11	1.11	1.09	1.10	1.12	1.10	1.14	1.16	1.47	PB		3.33	3.31	3.40
wind	-0.1 m/s	velocity	4.99	8.23	8.23	8.23	8.39	8.31	8.16	8.31	8.02	7.88	9.54	7.71		8.23	8.28	8.06

Wado, Tatsuya (JPN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 3 - 2013 Mikio Oda Memorial (Hiroshima, JPN)

date	29-Apr-13	time	2.59	3.66	4.75	5.81	6.87	7.95	9.00	10.09	11.12	12.52		14.26	Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13			
reaction time		interval		1.07	1.09	1.06	1.06	1.08	1.05	1.09	1.03	1.40	1.74			3.22	3.19	3.52
wind	2.4 m/s	velocity	5.30	8.54	8.39	8.62	8.62	8.46	8.70	8.39	8.87	6.53	8.06	7.71		8.52	8.60	7.79

Polách, Josef (CZE) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)

date	02-Aug-14	time	2.73	3.85	4.94	6.05	7.15	8.26	9.35	10.46	11.61	12.76		14.26	Fehér (2014) - Final report from the Czech Republic national championships			
reaction time	0.143	interval		1.12	1.09	1.11	1.10	1.11	1.09	1.11	1.15	1.15	1.50			3.32	3.30	3.41
wind	0.8 m/s	velocity	5.03	8.16	8.39	8.23	8.31	8.23	8.39	8.23	7.95	7.95	9.35	7.71		8.26	8.31	8.04

Li Jiming (CHN) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)

date	16-Sep-18	time	2.70	3.80	4.87	5.94	7.05	8.12	9.23	10.39	11.53	12.68		14.26	Henson (2018) - coaching observations			
reaction time		interval		1.10	1.07	1.07	1.11	1.07	1.11	1.16	1.14	1.15	1.58			3.24	3.29	3.45
wind	-0.3 m/s	velocity	5.08	8.31	8.54	8.54	8.23	8.54	8.23	7.88	8.02	7.95	8.87	7.71		8.46	8.33	7.95

Martinot Lagarde, Pascal (FRA) (199)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)

date	10-Jun-21	time	2.56	3.64	4.74	5.80	6.88	7.98	9.08	10.24	11.42	12.58		14.26	Henson (2021) - Athlete First: 2021 year end hurdle report			
reaction time	0.162	interval	7 steps	1.08	1.10	1.06	1.08	1.10	1.10	1.16	1.18	1.16	1.68			3.24	3.28	3.50
wind	-0.1 m/s	velocity	5.36	8.46	8.31	8.62	8.46	8.31	8.31	7.88	7.75	7.88	8.35	7.71		8.46	8.36	7.83

Qin Weibo (CHN) (2002)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)

date	12-Jun-21	time	2.58	3.72	4.81	5.91	7.00	8.10	9.23	10.36	11.49	12.64		14.26	CAA Hurdle Development (2021)			
reaction time	0.174	interval	7 steps	1.14	1.09	1.10	1.09	1.10	1.13	1.13	1.13	1.15	1.62			3.33	3.32	3.41
wind	-0.8 m/s	velocity	5.32	8.02	8.39	8.31	8.39	8.31	8.09	8.09	8.09	7.95	8.65	7.71		8.23	8.26	8.04

Taue, Shun (JPN) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Decathlon - Heat 2 - 2023 Michitaka Kinami Memorial (Osaka, JPN)

date	08-May-23	time	2.72	3.86	4.96	6.07	7.17	8.28	9.38	10.50	11.62	12.78		14.26	Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season			
reaction time	0.161	interval		1.14	1.10	1.11	1.10	1.11	1.10	1.12	1.12	1.16	1.48			3.35	3.31	3.40
wind	-0.2 m/s	velocity	5.04	8.02	8.31	8.23	8.31	8.23	8.31	8.16	8.16	7.88	9.47	7.71		8.19	8.28	8.06

Herring, Aubrey (USA) (1978)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 4 - 2007 USATF National Championships (Indianapolis, IN)

date	23-Jun-07	time	2.64	3.79	4.89	5.99	7.07	8.17	9.29	10.41	11.51	12.66		14.27	USATF Men's Hurdle Development (2007)			
reaction time		interval		1.15	1.10	1.10	1.08	1.10	1.12	1.12	1.10	1.15	1.61			3.35	3.30	3.37
wind	-2.8 m/s	velocity	5.20	7.95	8.31	8.31	8.46	8.31	8.16	8.16	8.31	7.95	8.71	7.71		8.19	8.31	8.14

Barras, Romain (FRA) (1980)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Decathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)

Graubner (2009) - biomechanical analyses at the 12th IAAF world championships

date	20-Aug-09	time	2.72	3.85	4.96	6.07	7.15	8.27	9.37	10.49	11.61	12.75		14.27	8 / 3			
reaction time	0.135	interval		1.13	1.11	1.11	1.08	1.12	1.10	1.12	1.12	1.14	1.52			3.35	3.30	3.38
wind	-0.1 m/s	velocity	5.04	8.09	8.23	8.23	8.46	8.16	8.31	8.16	8.16	8.02	9.22	7.71		8.19	8.31	8.11
Shaker, Amir (IRQ) (1989)																		
FINAL - 2011 Folsam GP (Göteborg, SWE)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
															<i>Blomkvist (2011) - www.sub13.se</i>			
date	11-Jun-11	time	2.64	3.72	4.84	5.90	6.96	8.05	9.16	10.26	11.38	12.56		14.27	1 / 6			
reaction time		interval		1.08	1.12	1.06	1.06	1.09	1.11	1.10	1.12	1.18	1.71			3.26	3.26	3.40
wind	0.6 m/s	velocity	5.20	8.46	8.16	8.62	8.62	8.39	8.23	8.31	8.16	7.75	8.20	7.71		8.41	8.41	8.06
Fudaba, Hiroki (JPN) (1994)																		
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
															<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>			
date	07-May-17	time	2.77	3.85	4.96	6.06	7.16	8.24	9.37	10.51	11.61	12.75		14.27	5 / 6			
reaction time		interval	7 steps	1.08	1.11	1.10	1.10	1.08	1.13	1.14	1.10	1.14	1.52			3.29	3.31	3.38
wind	-1.5 m/s	velocity	4.95	8.46	8.23	8.31	8.31	8.46	8.09	8.02	8.31	8.02	9.22	7.71		8.33	8.28	8.11
Chu Pengfei (CHN) (1993)																		
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
															<i>Henson (2018) - coaching observations</i>			
date	15-Sep-18	time	2.78	3.92	5.00	6.09	7.17	8.27	9.36	10.46	11.61	12.76		14.27	7 / 5			
reaction time		interval		1.14	1.08	1.09	1.08	1.10	1.09	1.10	1.15	1.15	1.51			3.31	3.27	3.40
wind	-0.2 m/s	velocity	4.94	8.02	8.46	8.39	8.46	8.31	8.39	8.31	7.95	7.95	9.28	7.71		8.28	8.39	8.06
Zhang Shuai (CHN) (1996)																		
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
															<i>CAA Hurdle Development (2019)</i>			
date	30-May-19	time	2.68	3.78	4.88	5.97	7.07	8.19	9.30	10.41	11.54	12.72		14.27	4 / 8			
reaction time	0.174	interval		1.10	1.10	1.09	1.10	1.12	1.11	1.11	1.13	1.18	1.55			3.29	3.33	3.42
wind	0.0 m/s	velocity	5.12	8.31	8.31	8.39	8.31	8.16	8.23	8.23	8.09	7.75	9.05	7.71		8.33	8.23	8.02
Jiang Fan (CHN) (1990)																		
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
															<i>CAA Hurdle Development (2020)</i>			
date	16-Sep-20	time	2.69	3.82	4.92	6.01	7.12	8.21	9.30	10.45	11.59	12.74		14.27	4 / 5			
reaction time	0.140	interval		1.13	1.10	1.09	1.11	1.09	1.09	1.15	1.14	1.15	1.53			3.32	3.29	3.44
wind	-0.5 m/s	velocity	5.10	8.09	8.31	8.39	8.23	8.39	8.39	7.95	8.02	7.95	9.16	7.71		8.26	8.33	7.97
Kaul, Niklas (GER) (1998)																		
Decathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
															<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>			
date	24-Jul-22	time	2.76	3.90	5.00	6.10	7.17	8.26	9.37	10.50	11.60	12.74		14.27	8 / 3			
reaction time	0.143	interval	7 steps	1.14	1.10	1.10	1.07	1.09	1.11	1.13	1.10	1.14	1.53	PB		3.34	3.27	3.37
wind	0.4 m/s	velocity	4.97	8.02	8.31	8.31	8.54	8.39	8.23	8.09	8.31	8.02	9.16	7.71		8.21	8.39	8.14
Maruyama, Yuma (JPN) (1998)																		
Decathlon - Heat 2 - 2024 Japanese National Multi-Event Championships (Gifu, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
															<i>Matsubayashi (2024) - performance analysis of decathlon athletes in the 2024 season</i>			
date	23-Jun-24	time	2.74	3.87	4.98	6.06	7.16	8.22	9.36	10.50	11.63	12.76		14.27	7 / 1			
reaction time		interval		1.13	1.11	1.08	1.10	1.06	1.14	1.14	1.13	1.13	1.51			3.32	3.30	3.40
wind	0.4 m/s	velocity	5.01	8.09	8.23	8.46	8.31	8.62	8.02	8.02	8.09	8.09	9.28	7.71		8.26	8.31	8.06
Wright, Don (AUS) (1959)																		
Semi-Final 2 - 1983 IAAF World Championships (Helsinki, FIN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
															<i>Knoke (1984) - the hurdles</i>			
date	12-Aug-83	time	2.66	3.82	4.96	5.98	7.04	8.42	9.57	10.58	11.72	12.88		14.28	3 / 7			
reaction time		interval		1.16	1.14	1.02	1.06	1.38	1.15	1.01	1.14	1.16	1.40			3.32	3.59	3.31
wind	-0.7 m/s	velocity	5.16	7.88	8.02	8.96	8.62	6.62	7.95	9.05	8.02	7.88	10.01	7.70		8.26	7.64	8.28
Loyd, Michael (USA) (1984)																		
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
															<i>USATF Women's Sprint Development (2003)</i>			
date	22-Jun-03	time	2.58	3.73	4.82	5.87	6.97	8.09	9.21	10.34	11.48	12.63		14.28	8 / 4			
reaction time		interval		1.15	1.09	1.05	1.10	1.12	1.12	1.13	1.14	1.15	1.65			3.29	3.34	3.42
wind	-0.4 m/s	velocity	5.32	7.95	8.39	8.70	8.31	8.16	8.16	8.09	8.02	7.95	8.50	7.70		8.33	8.21	8.02
Nunley, Booker (USA) (1990)																		
FINAL - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
															<i>USATF Men's Hurdle Development (2007)</i>			
date	21-Jun-07	time	2.69	3.77	4.85	5.95	7.01	8.14	9.26	10.39	11.51	12.68		14.28	1 / 8			
reaction time		interval		1.08	1.08	1.10	1.06	1.13	1.12	1.13	1.12	1.17	1.60			3.26	3.31	3.42
wind	2.7 m/s	velocity	5.10	8.46	8.46	8.31	8.62	8.09	8.16	8.09	8.16	7.81	8.76	7.70		8.41	8.28	8.02
Eaton, Ashton (USA) (1988)																		
Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
															<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>			
date	20-Aug-09	time	2.70	3.79	4.87	5.97	7.07	8.17	9.27	10.45	11.61	12.75		14.28	5 / 5			
reaction time	0.178	interval		1.09	1.08	1.10	1.10	1.10	1.10	1.18	1.16	1.14	1.53			3.27	3.30	3.48
wind	0.3 m/s	velocity	5.08	8.39	8.46	8.31	8.31	8.31	8.31	7.75	7.88	8.02	9.16	7.70		8.39	8.31	7.88
Homola, Tomáš (CZE) (1995)																		
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
															<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>			

reaction time	0.147	interval	1.12	1.10	1.09	1.11	1.10	1.10	1.13	1.13	1.17	1.55			3.31	3.31	3.43
wind	-2.2 m/s	velocity	5.12	8.16	8.31	8.39	8.23	8.31	8.31	8.09	8.09	7.81	9.05	7.70	8.28	8.28	7.99

Hiraga, Kentaro (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	21-Oct-16	time	2.68	3.82	4.92	6.04	7.14	8.24	9.36	10.49	11.63	12.79		14.28	6 / 2			
reaction time		interval		1.14	1.10	1.12	1.10	1.10	1.12	1.13	1.14	1.16	1.49			3.36	3.32	3.43
wind	1.7 m/s	velocity	5.12	8.02	8.31	8.16	8.31	8.31	8.16	8.09	8.02	7.88	9.41	7.70		8.16	8.26	7.99

Takaoka, Yudai (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	21-Oct-16	time	2.72	3.82	4.93	6.02	7.11	8.19	9.31	10.43	11.62	12.77		14.28	8 / 2			
reaction time		interval		1.10	1.11	1.09	1.09	1.08	1.12	1.12	1.19	1.15	1.51			3.30	3.29	3.46
wind	1.5 m/s	velocity	5.04	8.31	8.23	8.39	8.39	8.46	8.16	8.16	7.68	7.95	9.28	7.70		8.31	8.33	7.92

Kagimoto, Masahiro (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)			(2017) - https://www.tfd-data-store.com/2017/05/01/458/															
date	29-Apr-17	time	2.67	3.75	4.86	5.97	7.06	8.18	9.31	10.47	11.60	12.76		14.28	6 / 6			
reaction time		interval		1.08	1.11	1.11	1.09	1.12	1.13	1.16	1.13	1.16	1.52			3.30	3.34	3.45
wind	-1.5 m/s	velocity	5.14	8.46	8.23	8.23	8.39	8.16	8.09	7.88	8.09	7.88	9.22	7.70		8.31	8.21	7.95

Furuya, Takumu (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)			Kobayashi (2019) - <i>research on athlete performance and technique- 2019 data book</i>															
date	28-Apr-19	time	2.73	3.82	4.93	6.00	7.10	8.20	9.31	10.43	11.57	12.73		14.28	4 / 5			
reaction time		interval		1.09	1.11	1.07	1.10	1.10	1.11	1.12	1.14	1.16	1.55			3.27	3.31	3.42
wind	1.4 m/s	velocity	5.03	8.39	8.23	8.54	8.31	8.31	8.23	8.16	8.02	7.88	9.05	7.70		8.39	8.28	8.02

Lu Yang (CHN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)			CAA Hurdle Development (2021)															
date	25-Jun-21	time	2.70	3.82	4.90	5.99	7.07	8.17	9.27	10.38	11.53	12.70		14.28	5 / 4			
reaction time	0.163	interval		1.12	1.08	1.09	1.08	1.10	1.10	1.11	1.15	1.17	1.58			3.29	3.28	3.43
wind	-1.2 m/s	velocity	5.08	8.16	8.46	8.39	8.46	8.31	8.31	8.23	7.95	7.81	8.87	7.70		8.33	8.36	7.99

Nakai, Shouta (JPN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese U18 National Championships (Matsuyama, JPN) (99cm)			Shibayama (2021) - <i>race analysis of men's 110m hurdles in the 2021 season</i>															
date	22-Oct-21	time	2.74	3.90	5.01	6.10	7.21	8.30	9.39	10.48	11.62	12.75		14.28	7 / 7			
reaction time	0.188	interval		1.16	1.11	1.09	1.11	1.09	1.09	1.09	1.14	1.13	1.53			3.36	3.29	3.36
wind	-0.6 m/s	velocity	5.01	7.88	8.23	8.39	8.23	8.39	8.39	8.39	8.02	8.09	9.16	7.70		8.16	8.33	8.16

Dubler, Cedric (AUS) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			Henson (2024) - <i>Athlete First: 2022 year end hurdle report</i>															
date	24-Jul-22	time	2.66	3.80	4.86	5.96	7.05	8.20	9.32	10.41	11.54	12.73		14.28	3 / 6			
reaction time	0.129	interval		1.14	1.06	1.10	1.09	1.15	1.12	1.09	1.13	1.19	1.55			3.30	3.36	3.41
wind	1.1 m/s	velocity	5.16	8.02	8.62	8.31	8.39	7.95	8.16	8.39	8.09	7.68	9.05	7.70		8.31	8.16	8.04

Williams, Harrison (USA) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)			Paris 2024 Olympic Games - Results Book (2024)															
date	03-Aug-24	time	2.56	3.67	4.80	5.85	6.97	8.08	9.21	10.33	11.46	12.60		14.28	5 / 8			
reaction time	0.155	interval	7 steps	1.11	1.13	1.05	1.12	1.11	1.13	1.12	1.13	1.14	1.68			3.29	3.36	3.39
wind	0.7 m/s	velocity	5.36	8.23	8.09	8.70	8.16	8.23	8.09	8.16	8.09	8.02	8.35	7.70		8.33	8.16	8.09

Sasa, Atsushi (JPN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99cm)			Goto (2018) - <i>71st high school championships: JAF scientific committee - biomechanics data collection</i>															
date	06-Aug-18	time	2.76	3.87	4.98	6.08	7.20	8.31	9.44	10.56	11.69	12.83		14.29	2 / 4			
reaction time		interval		1.11	1.11	1.10	1.12	1.11	1.13	1.12	1.13	1.14	1.46			3.32	3.36	3.39
wind	1.6 m/s	velocity	4.97	8.23	8.23	8.31	8.16	8.23	8.09	8.16	8.09	8.02	9.60	7.70		8.26	8.16	8.09

Brathwaite, Shane (BAR) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)			CAA Hurdle Development (2019)															
date	02-Oct-19	time	2.62	3.68	4.70	5.72	6.74	7.76	8.79	9.86	10.92	12.12		14.29	8 / 7			
reaction time	0.169	interval		1.06	1.02	1.02	1.02	1.02	1.03	1.07	1.06	1.20	2.17			3.10	3.07	3.33
wind	1.1 m/s	velocity	5.24	8.62	8.96	8.96	8.96	8.96	8.87	8.54	8.62	7.62	6.46	7.70		8.85	8.93	8.23

Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)			Shibayama (2020) - <i>race analysis of men's 110m hurdles in the 2020 season</i>															
date	23-Aug-20	time	2.67	3.80	4.90	6.00	7.10	8.19	9.29	10.42	11.56	12.72		14.29	8 / 8			
reaction time	0.158	interval	7 steps	1.13	1.10	1.10	1.10	1.09	1.10	1.13	1.14	1.16	1.57			3.33	3.29	3.43
wind	-0.4 m/s	velocity	5.14	8.09	8.31	8.31	8.31	8.39	8.31	8.09	8.02	7.88	8.93	7.70		8.23	8.33	7.99

Zhu Shenglong (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)			CAA Hurdle Development (2021)															
date	24-Apr-21	time	2.64	3.73	4.78	5.87	6.97	8.05	9.23	10.38	11.57	12.74		14.29	3 / 3			
reaction time	0.164	interval		1.09	1.05	1.09	1.10	1.08	1.18	1.15	1.19	1.17	1.55			3.23	3.36	3.51

wind	-1.2 m/s	velocity	5.20	8.39	8.70	8.39	8.31	8.46	7.75	7.95	7.68	7.81	9.05	7.70		8.49	8.16	7.81
Yang Yuxuan (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)			CAA Hurdle Development (2021)															
date	25-Jun-21	time	2.72	3.83	4.94	6.05	7.14	8.24	9.36	10.49	11.64	12.80		14.29	3 / 4			
reaction time	0.146	interval		1.11	1.11	1.11	1.09	1.10	1.12	1.13	1.15	1.16	1.49			3.33	3.31	3.44
wind	-1.0 m/s	velocity	5.04	8.23	8.23	8.23	8.39	8.31	8.16	8.09	7.95	7.88	9.41	7.70		8.23	8.28	7.97
Hojo, Yuki (JPN) (2005)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)			Takashima (2023) - national high school sports festival - biomechanics data															
date	06-Aug-23	time	2.73	3.82	4.93	6.02	7.12	8.20	9.30	10.45	11.59	12.73		14.29	8 / 4			
reaction time	0.188	interval		1.09	1.11	1.09	1.10	1.08	1.10	1.15	1.14	1.14	1.56			3.29	3.28	3.43
wind	0.8 m/s	velocity	5.03	8.39	8.23	8.39	8.31	8.46	8.31	7.95	8.02	8.02	8.99	7.70		8.33	8.36	7.99
Ureña, Jorge (ESP) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)			Paris 2024 Olympic Games - Results Book (2024)															
date	03-Aug-24	time	2.48	3.63	4.74	5.84	6.93	8.04	9.14	10.28	11.43	12.58		14.29	3 / 2			
reaction time	0.136	interval		1.15	1.11	1.10	1.09	1.11	1.10	1.14	1.15	1.15	1.71			3.36	3.30	3.44
wind	0.2 m/s	velocity	5.53	7.95	8.23	8.31	8.39	8.23	8.31	8.02	7.95	7.95	8.20	7.70		8.16	8.31	7.97
Sklenár, David (CZE) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)			Feher (2014) - Final report from the U18 & U20 Czech Republic national championships															
date	28-Jun-14	time	2.73	3.83	4.93	6.04	7.12	8.21	9.33	10.44	11.50	12.65		14.30	3 / 1			
reaction time	0.197	interval		1.10	1.10	1.11	1.08	1.09	1.12	1.11	1.06	1.15	1.65			3.31	3.29	3.32
wind	-4.1 m/s	velocity	5.03	8.31	8.31	8.23	8.46	8.39	8.16	8.23	8.62	7.95	8.50	7.69		8.28	8.33	8.26
Tokuoka, Rika (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en															
date	21-Oct-16	time	2.68	3.79	4.91	6.02	7.12	8.22	9.34	10.49	11.61	12.77		14.30	7 / 3			
reaction time		interval		1.11	1.12	1.11	1.10	1.10	1.12	1.15	1.12	1.16	1.53			3.34	3.32	3.43
wind	2.3 m/s	velocity	5.12	8.23	8.16	8.23	8.31	8.31	8.16	7.95	8.16	7.88	9.16	7.69		8.21	8.26	7.99
Abe, Ryoto (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en															
date	21-Oct-16	time	2.66	3.76	4.85	5.96	7.06	8.18	9.32	10.45	11.63	12.83		14.30	2 / 3			
reaction time		interval		1.10	1.09	1.11	1.10	1.12	1.14	1.13	1.18	1.20	1.47			3.30	3.36	3.51
wind	1.5 m/s	velocity	5.16	8.31	8.39	8.23	8.31	8.16	8.02	8.09	7.75	7.62	9.54	7.69		8.31	8.16	7.81
Morito, Nobuaki (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)			Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics															
date	02-Aug-17	time	2.74	3.87	4.97	6.09	7.20	8.31	9.41	10.54	11.64	12.81		14.30	4 / 2			
reaction time	0.179	interval		1.13	1.10	1.12	1.11	1.11	1.10	1.13	1.10	1.17	1.49			3.35	3.32	3.40
wind	-0.7 m/s	velocity	5.01	8.09	8.31	8.16	8.23	8.23	8.31	8.09	8.31	7.81	9.41	7.69		8.19	8.26	8.06
Guo Zhongjie (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)			CAA Hurdle Development (2019)															
date	08-Jul-19	time	2.70	3.80	4.92	6.00	7.11	8.19	9.32	10.43	11.58	12.73		14.30	8 / 5			
reaction time	0.190	interval		1.10	1.12	1.08	1.11	1.08	1.13	1.11	1.15	1.15	1.57			3.30	3.32	3.41
wind	0.1 m/s	velocity	5.08	8.31	8.16	8.46	8.23	8.46	8.09	8.23	7.95	7.95	8.93	7.69		8.31	8.26	8.04
Jia Qihang (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)			CAA Hurdle Development (2019)															
date	14-Aug-19	time	2.59	3.72	4.81	5.91	6.99	8.14	9.26	10.41	11.51	12.70		14.30	7 / 5			
reaction time	0.177	interval		1.13	1.09	1.10	1.08	1.15	1.12	1.15	1.10	1.19	1.60			3.32	3.35	3.44
wind	0.5 m/s	velocity	5.30	8.09	8.39	8.31	8.46	7.95	8.16	7.95	8.31	7.68	8.76	7.69		8.26	8.19	7.97
Zhang Tao (CHN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)			CAA Hurdle Development (2019)															
date	23-Aug-19	time	2.74	3.85	4.95	6.05	7.14	8.22	9.33	10.46	11.58	12.75		14.30	4 / 1			
reaction time	0.180	interval		1.11	1.10	1.10	1.09	1.08	1.11	1.13	1.12	1.17	1.55			3.31	3.28	3.42
wind	-0.2 m/s	velocity	5.01	8.23	8.31	8.31	8.39	8.46	8.23	8.09	8.16	7.81	9.05	7.69		8.28	8.36	8.02
Tomiyama, Hiroki (JPN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 2 - 2020 World Athletics Trials (Fuji, JPN)			Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season															
date	06-Sep-20	time	2.68	3.81	4.93	6.04	7.13	8.24	9.35	10.49	11.62	12.78		14.30	5 / 5			
reaction time		interval	7 steps	1.13	1.12	1.11	1.09	1.11	1.11	1.14	1.13	1.16	1.52			3.36	3.31	3.43
wind	1.3 m/s	velocity	5.12	8.09	8.16	8.23	8.39	8.23	8.23	8.02	8.09	7.88	9.22	7.69		8.16	8.28	7.99
Sun Haoru (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)			CAA Hurdle Development (2020)															
date	16-Sep-20	time	2.68	3.79	4.89	5.98	7.05	8.17	9.28	10.41	11.57	12.74		14.30	7 / 6			
reaction time	0.153	interval		1.11	1.10	1.09	1.07	1.12	1.11	1.13	1.16	1.17	1.56			3.30	3.30	3.46
wind	-0.5 m/s	velocity	5.12	8.23	8.31	8.39	8.54	8.16	8.23	8.09	7.88	7.81	8.99	7.69		8.31	8.31	7.92

Liu Bowen (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)															CAA Hurdle Development (2021)			
date	12-Jun-21	time	2.51	3.60	4.72	5.84	6.94	8.07	9.18	10.32	11.46	12.65		14.30	3 / 5			
reaction time	0.148	interval		1.09	1.12	1.12	1.10	1.13	1.11	1.14	1.14	1.19	1.65			3.33	3.34	3.47
wind	-0.4 m/s	velocity	5.47	8.39	8.16	8.16	8.31	8.09	8.23	8.02	8.02	7.68	8.50	7.69		8.23	8.21	7.90
Lu Yang (CHN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)															CAA Hurdle Development (2021)			
date	08-Apr-21	time	2.76	3.88	4.96	6.08	7.16	8.24	9.34	10.48	11.60	12.76		14.30	7 / 5			
reaction time		interval		1.12	1.08	1.12	1.08	1.08	1.10	1.14	1.12	1.16	1.54			3.32	3.26	3.42
wind	-0.1 m/s	velocity	4.97	8.16	8.46	8.16	8.46	8.46	8.31	8.02	8.16	7.88	9.10	7.69		8.26	8.41	8.02
Tamura, Eita (JPN) (2006)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)															Takashima (2024) - national high school sports festival - biomechanics data			
date	01-Aug-24	time	2.75	3.86	4.96	6.06	7.16	8.27	9.41	10.53	11.68	12.85		14.30	2 / 8			
reaction time	0.213	interval		1.11	1.10	1.10	1.10	1.11	1.14	1.12	1.15	1.17	1.45			3.31	3.35	3.44
wind	-0.7 m/s	velocity	4.99	8.23	8.31	8.31	8.31	8.23	8.02	8.16	7.95	7.81	9.67	7.69		8.28	8.19	7.97
Ueno, Yuta (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2016 Japanese University Championships (Kumagaya, JPN)															(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en			
date	04-Sep-16	time	2.71	3.83	4.95	6.05	7.15	8.28	9.40	10.54	11.68	12.84		14.31	8 / 7			
reaction time	0.136	interval		1.12	1.12	1.10	1.10	1.13	1.12	1.14	1.14	1.16	1.47			3.34	3.35	3.44
wind	0.6 m/s	velocity	5.06	8.16	8.16	8.31	8.31	8.09	8.16	8.02	8.02	7.88	9.54	7.69		8.21	8.19	7.97
Kato, Yoshihiko (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Mito Invitational (Mito, JPN)															(2017) - tdata-store.com/2017/05/06/post-423/			
date	05-May-17	time	2.72	3.88	5.04	6.17	7.28	8.39	9.49	10.60	11.70	12.83		14.31	8 / 6			
reaction time		interval		1.16	1.16	1.13	1.11	1.11	1.10	1.11	1.10	1.13	1.48			3.45	3.32	3.34
wind	-2.3 m/s	velocity	5.04	7.88	7.88	8.09	8.23	8.23	8.31	8.23	8.31	8.09	9.47	7.69		7.95	8.26	8.21
Shi Hanlin (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Chinese National U20 Championships (Nanchang, CHN) (99.1cm)															Zhang (2019) - comparative analysis characteristics Chinese elite 110m hurdles in different age			
date	13-May-18	time	2.78	3.89	4.98	6.07	7.16	8.27	9.38	10.50	11.63	12.78		14.31	2 / 7			
reaction time		interval		1.11	1.09	1.09	1.09	1.11	1.11	1.12	1.13	1.15	1.53			3.29	3.31	3.40
wind	1.0 m/s	velocity	4.94	8.23	8.39	8.39	8.39	8.23	8.23	8.16	8.09	7.95	9.16	7.69		8.33	8.28	8.06
Tawada, Asahi (JPN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99.1cm)															(2018) - 71st high school championships: JAF scientific committee - biomechanics data collection			
date	06-Aug-18	time	2.65	3.76	4.88	6.00	7.09	8.19	9.30	10.45	11.59	12.75		14.31	6 / 5			
reaction time		interval		1.11	1.12	1.12	1.09	1.10	1.11	1.15	1.14	1.16	1.56			3.35	3.30	3.45
wind	1.6 m/s	velocity	5.18	8.23	8.16	8.16	8.39	8.31	8.23	7.95	8.02	7.88	8.99	7.69		8.19	8.31	7.95
Zeng Pan (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Chinese National Sports School Championships (Jinjiang, CHN) (99.1cm)															(2018) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups			
date	??	time	2.75	3.88	4.96	6.09	7.18	8.27	9.39	10.53	11.65	12.78		14.31	6 / 5			
reaction time		interval		1.13	1.08	1.13	1.09	1.09	1.12	1.14	1.12	1.13	1.53			3.34	3.30	3.39
wind	??	velocity	4.99	8.09	8.46	8.09	8.39	8.39	8.16	8.02	8.16	8.09	9.16	7.69		8.21	8.31	8.09
Zeng Jianhang (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)															CAA Hurdle Development (2019)			
date	08-Apr-19	time	2.69	3.81	4.87	5.96	7.08	8.20	9.33	10.44	11.58	12.73		14.31	2 / 1			
reaction time	0.290	interval		1.12	1.06	1.09	1.12	1.12	1.13	1.11	1.14	1.15	1.58			3.27	3.37	3.40
wind	-1.5 m/s	velocity	5.10	8.16	8.62	8.39	8.16	8.16	8.09	8.23	8.02	7.95	8.87	7.69		8.39	8.14	8.06
Pan Zijie (CHN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)															CAA Hurdle Development (2021)			
date	24-Apr-21	time	2.68	3.80	4.90	5.98	7.10	8.25	9.36	10.50	11.63	12.78		14.31	9 / 4			
reaction time	0.178	interval		1.12	1.10	1.08	1.12	1.15	1.11	1.14	1.13	1.15	1.53			3.30	3.38	3.42
wind	-1.2 m/s	velocity	5.12	8.16	8.31	8.46	8.16	7.95	8.23	8.02	8.09	7.95	9.16	7.69		8.31	8.11	8.02
Chen Jie (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)															CAA Hurdle Development (2021)			
date	25-Jun-21	time	2.72	3.81	4.93	6.04	7.15	8.27	9.40	10.53	11.68	12.81		14.31	8 / 5			
reaction time	0.151	interval		1.09	1.12	1.11	1.11	1.12	1.13	1.13	1.15	1.13	1.50			3.32	3.36	3.41
wind	-1.0 m/s	velocity	5.04	8.39	8.16	8.23	8.23	8.16	8.09	8.09	7.95	8.09	9.35	7.69		8.26	8.16	8.04
Lewis-Banks, Matthew (USA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															Henson (2024) - Athlete First: 2024 year end hurdle report			
date	24-Jun-24	time	2.63	3.72	4.79	5.86	6.92	8.05	9.20	10.30	11.56	12.73		14.31	1 / 9			
reaction time		interval		1.09	1.07	1.07	1.06	1.13	1.15	1.10	1.26	1.17	1.58			3.23	3.34	3.53
wind	1.8 m/s	velocity	5.22	8.39	8.54	8.54	8.62	8.09	7.95	8.31	7.25	7.81	8.87	7.69		8.49	8.21	7.77

Nishi, Kyohei (JPN) (1995)																
FINAL - 2016 Kyushu Championships (Kita-Kyushu, JPN) (2016.08.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																
date	27-Aug-16	time	2.70	3.81	4.95	6.05	7.15	8.28	9.39	10.51	11.65	12.81		14.32	4 / 1	
reaction time		interval		1.11	1.14	1.10	1.10	1.13	1.11	1.12	1.14	1.16	1.51		3.35	3.34
wind	-2.1 m/s	velocity	5.08	8.23	8.02	8.31	8.31	8.09	8.23	8.16	8.02	7.88	9.28	7.68	8.19	8.21
Takayama, Shunya (JPN) (1994)																
Semi-Final 3 - 2016 Japanese University Championships (Kumagaya, JPN) (2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																
date	04-Sep-16	time	2.71	3.83	4.94	6.06	7.17	8.27	9.39	10.51	11.64	12.80		14.32	9 / 5	
reaction time	0.151	interval		1.12	1.11	1.12	1.11	1.10	1.12	1.12	1.13	1.16	1.52		3.35	3.33
wind	-0.1 m/s	velocity	5.06	8.16	8.23	8.16	8.23	8.31	8.16	8.16	8.09	7.88	9.22	7.68	8.19	8.23
Kagimoto, Masahiro (JPN) (1995)																
FINAL - 2016 Japanese University Championships (Kumagaya, JPN) (2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																
date	04-Sep-16	time	2.71	3.83	4.94	6.06	7.17	8.27	9.39	10.51	11.64	12.80		14.32	9 / 5	
reaction time	0.169	interval		1.12	1.11	1.12	1.11	1.10	1.12	1.12	1.13	1.16	1.52		3.35	3.33
wind	-1.9 m/s	velocity	5.06	8.16	8.23	8.16	8.23	8.31	8.16	8.16	8.09	7.88	9.22	7.68	8.19	8.23
Yamamura, Keita (JPN) (1999)																
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99cm) (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection																
date	06-Aug-18	time	2.69	3.82	4.95	6.05	7.15	8.26	9.38	10.50	11.65	12.80		14.32	9 / 6	
reaction time		interval		1.13	1.13	1.10	1.10	1.11	1.12	1.12	1.15	1.15	1.52		3.36	3.33
wind	1.6 m/s	velocity	5.10	8.09	8.09	8.31	8.31	8.23	8.16	8.16	7.95	7.95	9.22	7.68	8.16	8.23
Huan Jiaxing (CHN) (2001)																
U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm) CAA Hurdle Development (2019)																
date	14-Aug-19	time	2.59	3.69	4.81	5.89	6.99	8.11	9.23	10.36	11.49	12.66		14.32	8 / 6	
reaction time	0.196	interval		1.10	1.12	1.08	1.10	1.12	1.12	1.13	1.13	1.17	1.66		3.30	3.34
wind	0.5 m/s	velocity	5.30	8.31	8.16	8.46	8.31	8.16	8.16	8.09	8.09	7.81	8.45	7.68	8.31	8.21
Pérez, Eduardo (ESP) (1970)																
FINAL - 1998 Spanish National Championships (San Sebastián, ESP) Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas																
date	02-Aug-98	time	2.69	3.76	4.89	6.03	7.08	8.20	9.32	10.45	11.58	12.78		14.33	1 / 4	
reaction time		interval		1.07	1.13	1.14	1.05	1.12	1.12	1.13	1.13	1.20	1.55		3.34	3.29
wind	0.1 m/s	velocity	5.10	8.54	8.09	8.02	8.70	8.16	8.16	8.09	8.09	7.62	9.05	7.68	8.21	8.33
Nakamura, Akihiko (JPN) (1990)																
Decathlon - Heat 2 - 2014 Asian Games (Incheon, KOR) Takeo (2014) - decathletes sprint ability & relationship of individual event performance																
date	01-Oct-14	time	2.74	3.86	4.97	6.09	7.21	8.33	9.47	10.59	11.73	12.89		14.33	1 / 1	
reaction time	0.166	interval		1.12	1.11	1.12	1.12	1.12	1.14	1.12	1.14	1.16	1.44		3.35	3.38
wind	1.9 m/s	velocity	5.01	8.16	8.23	8.16	8.16	8.16	8.02	8.16	8.02	7.88	9.74	7.68	8.19	8.11
Kawashima, Ryota (JPN) (1999)																
FINAL - 2016 Japanese National High School Championships (Okayama, JPN) (99cm) Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics																
date	02-Aug-16	time	2.69	3.82	4.94	6.05	7.16	8.29	9.41	10.52	11.67	12.83		14.33	9 / 6	
reaction time	0.169	interval		1.13	1.12	1.11	1.11	1.13	1.12	1.11	1.15	1.16	1.50	PB	3.36	3.36
wind	1.2 m/s	velocity	5.10	8.09	8.16	8.23	8.23	8.09	8.16	8.23	7.95	7.88	9.35	7.68	8.16	8.16
Aiso, Ibuki (JPN) (1996)																
FINAL - 2017 Kyoto University Meeting (Kyoto, JPN) (2017) - tfdata-store.com/2017/04/12/post-362/																
date	09-Apr-17	time	2.70	3.84	4.95	6.04	7.17	8.28	9.38	10.50	11.64	12.82		14.33	4 / 3	
reaction time		interval		1.14	1.11	1.09	1.13	1.11	1.10	1.12	1.14	1.18	1.51		3.34	3.34
wind	1.5 m/s	velocity	5.08	8.02	8.23	8.39	8.09	8.23	8.31	8.16	8.02	7.75	9.28	7.68	8.21	8.21
Kagimoto, Masahiro (JPN) (1995)																
FINAL - 2017 Mito Invitational (Mito, JPN) (2017) - tfdata-store.com/2017/05/06/post-423/																
date	05-May-17	time	2.68	3.76	4.90	6.01	7.12	8.24	9.37	10.49	11.64	12.81		14.33	3 / 7	
reaction time		interval		1.08	1.14	1.11	1.11	1.12	1.13	1.12	1.15	1.17	1.52		3.33	3.36
wind	-2.3 m/s	velocity	5.12	8.46	8.02	8.23	8.23	8.16	8.09	8.16	7.95	7.81	9.22	7.68	8.23	8.16
Kameyama, Yuji (JPN) (1997)																
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN) (2017) - tfdata-store.com/2017/05/13/post-441/																
date	11-May-17	time	2.74	3.86	4.98	6.10	7.21	8.30	9.40	10.52	11.64	12.81		14.33	6 / 5	
reaction time		interval		1.12	1.12	1.12	1.11	1.09	1.10	1.12	1.12	1.17	1.52		3.36	3.30
wind	1.6 m/s	velocity	5.01	8.16	8.16	8.16	8.23	8.39	8.31	8.16	8.16	7.81	9.22	7.68	8.16	8.31
Jiang Fan (CHN) (1990)																
Heat 2 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN) CAA Hurdle Development (2019)																
date	08-Apr-19	time	2.71	3.85	4.95	6.05	7.15	8.26	9.38	10.50	11.65	12.79		14.33	5 / 2	
reaction time	0.176	interval		1.14	1.10	1.10	1.10	1.11	1.12	1.12	1.15	1.14	1.54		3.34	3.33
wind	-0.6 m/s	velocity	5.06	8.02	8.31	8.31	8.31	8.23	8.16	8.16	7.95	8.02	9.10	7.68	8.21	8.23
Sun Zhenjiang (CHN) (1999)																

Heat 2 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)

CAA Hurdle Development (2019)

date	13-Apr-19	time	2.64	3.72	4.79	5.86	6.94	8.04	9.18	10.31	11.45	12.68		14.33	3 / 2			
reaction time	0.169	interval	7 steps	1.08	1.07	1.07	1.08	1.10	1.14	1.13	1.14	1.23	1.65			3.22	3.32	3.50
wind	0.1 m/s	velocity	5.20	8.46	8.54	8.54	8.46	8.31	8.02	8.09	8.02	7.43	8.50	7.68		8.52	8.26	7.83

Pan Zijie (CHN) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)

CAA Hurdle Development (2021)

date	08-Apr-21	time	2.72	3.84	4.96	6.04	7.16	8.28	9.40	10.52	11.66	12.78		14.33	3 / 6			
reaction time		interval		1.12	1.12	1.08	1.12	1.12	1.12	1.12	1.14	1.12	1.55			3.32	3.36	3.38
wind	-0.1 m/s	velocity	5.04	8.16	8.16	8.46	8.16	8.16	8.16	8.16	8.02	8.16	9.05	7.68		8.26	8.16	8.11

Xu Zhuoyi (CHN) (2003)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)

CAA Hurdle Development (2021)

date	12-Jun-21	time	2.64	3.73	4.85	5.94	7.04	8.14	9.26	10.38	11.52	12.70		14.33	5 / 6			
reaction time	0.173	interval	7 steps	1.09	1.12	1.09	1.10	1.10	1.12	1.12	1.14	1.18	1.63			3.30	3.32	3.44
wind	-0.4 m/s	velocity	5.20	8.39	8.16	8.39	8.31	8.31	8.16	8.16	8.02	7.75	8.60	7.68		8.31	8.26	7.97

Yokoyama, Masaya (JPN)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)

Takashima (2023) - national high school sports festival - biomechanics data

date	06-Aug-23	time	2.77	3.91	5.02	6.13	7.23	8.33	9.45	10.57	11.70	12.89		14.33	3 / 5			
reaction time	0.201	interval		1.14	1.11	1.11	1.10	1.10	1.12	1.12	1.13	1.19	1.44			3.36	3.32	3.44
wind	0.8 m/s	velocity	4.95	8.02	8.23	8.23	8.31	8.31	8.16	8.16	8.09	7.68	9.74	7.68		8.16	8.26	7.97

Williams, Harrison (USA) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Decathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

Henson (2024) - Athlete First: 2023 year end hurdle report

date	26-Aug-23	time	2.76	3.85	4.96	6.02	7.15	8.18	9.26	10.42	11.60	12.80		14.33	8 / 5			
reaction time	0.182	interval	7 steps	1.09	1.11	1.06	1.13	1.03	1.08	1.16	1.18	1.20	1.53			3.26	3.24	3.54
wind	0.2 m/s	velocity	4.97	8.39	8.23	8.62	8.09	8.87	8.46	7.88	7.75	7.62	9.16	7.68		8.41	8.46	7.75

Hatanaka, Yushi (JPN) (1994)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 1 - 2016 Japanese University Championships (Kumagaya, JPN)(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	04-Sep-16	time	2.69	3.81	4.91	6.03	7.12	8.27	9.40	10.56	11.69	12.86		14.34	6 / 8			
reaction time	0.151	interval		1.12	1.10	1.12	1.09	1.15	1.13	1.16	1.13	1.17	1.48			3.34	3.37	3.46
wind	0.6 m/s	velocity	5.10	8.16	8.31	8.16	8.39	7.95	8.09	7.88	8.09	7.81	9.47	7.67		8.21	8.14	7.92

Aiso, Ibuki (JPN) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)(2017) - tfdata-store.com/2017/05/13/post-441/

date	11-May-17	time	2.69	3.82	4.95	6.06	7.15	8.27	9.42	10.54	11.68	12.85		14.34	3 / 6			
reaction time		interval		1.13	1.13	1.11	1.09	1.12	1.15	1.12	1.14	1.17	1.49			3.37	3.36	3.43
wind	1.6 m/s	velocity	5.10	8.09	8.09	8.23	8.39	8.16	7.95	8.16	8.02	7.81	9.41	7.67		8.14	8.16	7.99

Kubota, Kohei (JPN) (1989)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Nambu Memorial (Sapporo, JPN)(2017) - tfdata-store.com/2017/07/12/post-1025/

date	09-Jul-17	time	2.65	3.77	4.90	6.01	7.14	8.26	9.38	10.51	11.65	12.82		14.34	8 / 6			
reaction time		interval		1.12	1.13	1.11	1.13	1.12	1.12	1.13	1.14	1.17	1.52			3.36	3.37	3.44
wind	2.7 m/s	velocity	5.18	8.16	8.09	8.23	8.09	8.16	8.16	8.09	8.02	7.81	9.22	7.67		8.16	8.14	7.97

Xie Wenjun (CHN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)

Henson (2020) - Athlete First: 2017 year end hurdle report

date	09-Jul-17	time	2.60	3.66	4.74	5.78	6.82	7.90	8.98	10.08	11.26	12.46		14.34	2 / 9			
reaction time	0.157	interval		1.06	1.08	1.04	1.04	1.08	1.08	1.10	1.18	1.20	1.88			3.18	3.20	3.48
wind	0.0 m/s	velocity	5.28	8.62	8.46	8.79	8.79	8.46	8.46	8.31	7.75	7.62	7.46	7.67		8.62	8.57	7.88

Holm, Jonathan (SWE) (1994)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Windsprint (Sundsvall, SWE)(2017) - www.windsprint/Splittider/

date	30-Jul-17	time	2.69	3.80	4.88	5.99	7.11	8.23	9.35	10.50	11.63	12.81		14.34	1 / 2			
reaction time		interval		1.11	1.08	1.11	1.12	1.12	1.12	1.15	1.13	1.18	1.53			3.30	3.36	3.46
wind	1.0 m/s	velocity	5.10	8.23	8.46	8.23	8.16	8.16	8.16	7.95	8.09	7.75	9.16	7.67		8.31	8.16	7.92

Higuchi, Rikuto (JPN) (1999)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)

Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics

date	02-Aug-17	time	2.70	3.82	4.95	6.08	7.22	8.35	9.48	10.61	11.76	12.92		14.34	6 / 3			
reaction time	0.169	interval		1.12	1.13	1.13	1.14	1.13	1.13	1.13	1.15	1.16	1.42			3.38	3.40	3.44
wind	-0.7 m/s	velocity	5.08	8.16	8.09	8.09	8.02	8.09	8.09	8.09	7.95	7.88	9.87	7.67		8.11	8.06	7.97

Yang Jianxing (CHN) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)

Henson (2018) - coaching observations

date	15-Sep-18	time	2.67	3.77	4.87	5.98	7.07	8.16	9.29	10.44	11.61	12.80		14.34	6 / 6			
reaction time		interval		1.10	1.10	1.11	1.09	1.09	1.13	1.15	1.17	1.19	1.54			3.31	3.31	3.51
wind	0.7 m/s	velocity	5.14	8.31	8.31	8.23	8.39	8.39	8.09	7.95	7.81	7.68	9.10	7.67		8.28	8.28	7.81

Qin Weibo (CHN) (2002)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)

Henson (2018) - coaching observations

date	15-Sep-18	time	2.75	3.84	4.92	5.97	7.07	8.14	9.31	10.47	11.64	12.80		14.34	3 / 6			
reaction time		interval		1.09	1.08	1.05	1.10	1.07	1.17	1.16	1.17	1.16	1.54			3.22	3.34	3.49
wind	-0.2 m/s	velocity	4.99	8.39	8.46	8.70	8.31	8.54	7.81	7.88	7.81	7.88	9.10	7.67		8.52	8.21	7.86
Yang Yuxuan (CHN) (2002)																		
Heat 3 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																		
date	08-Apr-19	time	2.76	3.88	4.99	6.13	7.25	8.36	9.46	10.58	11.70	12.83		14.34	8 / 2			
reaction time	0.165	interval		1.12	1.11	1.14	1.12	1.11	1.10	1.12	1.12	1.13	1.51	PB		3.37	3.33	3.37
wind	0.0 m/s	velocity	4.97	8.16	8.23	8.02	8.16	8.23	8.31	8.16	8.16	8.09	9.28	7.67		8.14	8.23	8.14
Ma Lei (CHN) (1989)																		
Heat 5 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																		
date	08-Apr-19	time	2.75	3.89	5.00	6.09	7.18	8.30	9.42	10.54	11.68	12.82		14.34	8 / 2			
reaction time	0.159	interval	7 steps	1.14	1.11	1.09	1.09	1.12	1.12	1.12	1.14	1.14	1.52			3.34	3.33	3.40
wind	0.6 m/s	velocity	4.99	8.02	8.23	8.39	8.39	8.16	8.16	8.16	8.02	8.02	9.22	7.67		8.21	8.23	8.06
Shi Guoxing (CHN) (2000)																		
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)																		
date	16-Sep-20	time	2.72	3.86	5.00	6.11	7.24	8.37	9.50	10.63	11.76	12.90		14.34	9 / 7			
reaction time	0.169	interval		1.14	1.14	1.11	1.13	1.13	1.13	1.13	1.13	1.14	1.44	PB		3.39	3.39	3.40
wind	0.3 m/s	velocity	5.04	8.02	8.02	8.23	8.09	8.09	8.09	8.09	8.09	8.02	9.74	7.67		8.09	8.09	8.06
Nakamura, Akihiko (JPN) (1990)																		
Decathlon - Heat 3 - 2021 Japanese Multi-Event National Championships (Nagano, JPN)																		
date	13-Jun-21	time	2.73	3.85	4.97	6.09	7.21	8.32	9.45	10.58	11.72	12.85		14.34	2 / 2			
reaction time	0.152	interval		1.12	1.12	1.12	1.12	1.11	1.13	1.13	1.14	1.13	1.49			3.36	3.36	3.40
wind	-0.9 m/s	velocity	5.03	8.16	8.16	8.16	8.16	8.23	8.09	8.09	8.02	8.09	9.41	7.67		8.16	8.16	8.06
Berger, Dominic (USA) (1986)																		
Heat 3 - 2007 USATF National Championships (Indianapolis, IN)																		
date	23-Jun-07	time	2.70	3.82	4.90	5.99	7.08	8.16	9.26	10.38	11.48	12.61		14.35	8 / 7			
reaction time		interval		1.12	1.08	1.09	1.09	1.08	1.10	1.12	1.10	1.13	1.74			3.29	3.27	3.35
wind	-3.2 m/s	velocity	5.08	8.16	8.46	8.39	8.39	8.46	8.31	8.16	8.31	8.09	8.06	7.67		8.33	8.39	8.19
Eida, Ryusei (JPN) (2000)																		
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99cm)																		
date	06-Aug-18	time	2.70	3.83	4.94	6.06	7.18	8.32	9.47	10.60	11.76	12.89		14.35	7 / 7			
reaction time		interval		1.13	1.11	1.12	1.12	1.14	1.15	1.13	1.16	1.13	1.46			3.36	3.41	3.42
wind	1.6 m/s	velocity	5.08	8.09	8.23	8.16	8.16	8.02	7.95	8.09	7.88	8.09	9.60	7.67		8.16	8.04	8.02
Sun Haoru (CHN) (1998)																		
Heat 1 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																		
date	13-Apr-19	time	2.67	3.79	4.90	5.97	7.07	8.19	9.31	10.46	11.61	12.78		14.35	9 / 1			
reaction time	0.185	interval		1.12	1.11	1.07	1.10	1.12	1.12	1.15	1.15	1.17	1.57			3.30	3.34	3.47
wind	0.0 m/s	velocity	5.14	8.16	8.23	8.54	8.31	8.16	8.16	7.95	7.95	7.81	8.93	7.67		8.31	8.21	7.90
Li Fuqiang (CHN) (2000)																		
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)																		
date	14-Aug-19	time	2.65	3.77	4.90	6.01	7.15	8.26	9.39	10.55	11.68	12.83		14.35	8 / 6			
reaction time	0.162	interval		1.12	1.13	1.11	1.14	1.11	1.13	1.16	1.13	1.15	1.52			3.36	3.38	3.44
wind	0.6 m/s	velocity	5.18	8.16	8.09	8.23	8.02	8.23	8.09	7.88	8.09	7.95	9.22	7.67		8.16	8.11	7.97
Mao Chenchen (CHN) (2002)																		
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)																		
date	14-Aug-19	time	2.67	3.82	4.93	6.02	7.09	8.19	9.29	10.44	11.59	12.73		14.35	5 / 3			
reaction time	0.162	interval		1.15	1.11	1.09	1.07	1.10	1.10	1.15	1.15	1.14	1.62			3.35	3.27	3.44
wind	-0.1 m/s	velocity	5.14	7.95	8.23	8.39	8.54	8.31	8.31	7.95	7.95	8.02	8.65	7.67		8.19	8.39	7.97
Helcelet, Adam Sebastian (CZE) (1991)																		
Decathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																		
date	05-Aug-21	time	2.65	3.80	4.85	5.95	7.08	8.19	9.31	10.45	11.58	12.78		14.35	4 / 1			
reaction time	0.140	interval	7 steps	1.15	1.05	1.10	1.13	1.11	1.12	1.14	1.13	1.20	1.57			3.30	3.36	3.47
wind	0.0 m/s	velocity	5.18	7.95	8.70	8.31	8.09	8.23	8.16	8.02	8.09	7.62	8.93	7.67		8.31	8.16	7.90
Erm, Johannes (EST) (1998)																		
Decathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)																		
date	03-Aug-24	time	2.63	3.77	4.89	5.99	7.07	8.15	9.27	10.38	11.53	12.68		14.35	7 / 3			
reaction time	0.208	interval	7 steps	1.14	1.12	1.10	1.08	1.08	1.12	1.11	1.15	1.15	1.67			3.36	3.28	3.41
wind	0.2 m/s	velocity	5.22	8.02	8.16	8.31	8.46	8.46	8.16	8.23	7.95	7.95	8.40	7.67		8.16	8.36	8.04
MacDonald, Rich (CAN) (1949)																		
Heat 4 - 1972 Olympic Games (Munich, GER)																		
date	03-Sep-72	time	2.5			5.8								14.36	8 / 3			

reaction time		interval		3.3														3.32
wind	0.9 m/s	velocity	5.44	8.26								7.66						8.26

Craddock, Kevin (USA) (1987)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 USATF National Junior Championships (Indianapolis, IN) (99cm)		USATF Women's Sprint Development (2003)															
date	22-Jun-03	time	2.60	3.72	4.86	5.94	7.07	8.19	9.31	10.44	11.56	12.73		14.36	6 / 5		
reaction time		interval		1.12	1.14	1.08	1.13	1.12	1.12	1.13	1.12	1.17	1.63			3.34	3.37
wind	-0.4 m/s	velocity	5.28	8.16	8.02	8.46	8.09	8.16	8.16	8.09	8.16	7.81	8.60	7.66		8.21	8.14

McDonald, Ian (IRL) (1984)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Windsprint (Sundsvall, SWE)		Blomkvist (2012) - www.sub13.se															
date	17-Jun-12	time	2.74	3.84	4.94	6.03	7.12	8.21	9.35	10.48	11.62	12.77		14.36	1 / 5		
reaction time		interval		1.10	1.10	1.09	1.09	1.09	1.14	1.13	1.14	1.15	1.59			3.29	3.32
wind	1.1 m/s	velocity	5.01	8.31	8.31	8.39	8.39	8.39	8.02	8.09	8.02	7.95	8.82	7.66		8.33	8.26

Sedláč, Václav (CZE) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Czech Republic National Championships (Tábor, CZE)		Feher (2013) - Final report from the men's & women's Czech Republic national championships															
date	15-Jun-13	time	2.73	3.85	4.96	6.05	7.13	8.25	9.40	10.53	11.68	12.87		14.36	3 / 4		
reaction time	0.147	interval		1.12	1.11	1.09	1.08	1.12	1.15	1.13	1.15	1.19	1.49			3.32	3.35
wind	0.4 m/s	velocity	5.03	8.16	8.23	8.39	8.46	8.16	7.95	8.09	7.95	7.68	9.41	7.66		8.26	8.19

Igarashi, Rai (JPN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (99cm)		Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015															
date	02-Aug-15	time	2.67	3.81	4.91	6.04	7.15	8.29	9.41	10.56	11.71	12.87		14.36	2 / 4		
reaction time		interval		1.14	1.10	1.13	1.11	1.14	1.12	1.15	1.15	1.16	1.49			3.37	3.37
wind	1.4 m/s	velocity	5.14	8.02	8.31	8.09	8.23	8.02	8.16	7.95	7.95	7.88	9.41	7.66		8.14	8.14

Furumoto, Tsubasa (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2016 Japanese University Championships (Kumagaya, JPN)		(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en															
date	04-Sep-16	time	2.70	3.80	4.93	6.04	7.14	8.24	9.34	10.47	11.66	12.85		14.36	8 / 8		
reaction time	0.133	interval		1.10	1.13	1.11	1.10	1.10	1.10	1.13	1.19	1.19	1.51			3.34	3.30
wind	0.7 m/s	velocity	5.08	8.31	8.09	8.23	8.31	8.31	8.31	8.09	7.68	7.68	9.28	7.66		8.21	8.31

Fujii, Ryota (JPN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)		(2017) - tfdata-store.com/2017/05/01/458/															
date	29-Apr-17	time	2.61	3.73	4.84	5.97	7.09	8.19	9.34	10.49	11.65	12.81		14.36	2 / 7		
reaction time		interval		1.12	1.11	1.13	1.12	1.10	1.15	1.15	1.16	1.16	1.55			3.36	3.37
wind	-1.5 m/s	velocity	5.26	8.16	8.23	8.09	8.16	8.31	7.95	7.95	7.88	7.88	9.05	7.66		8.16	8.14

Wu Zhenhua (CHN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)		Henson (2018) - coaching observations															
date	15-Sep-18	time	2.72	3.84	4.96	6.06	7.17	8.31	9.43	10.56	11.68	12.84		14.36	6 / 7		
reaction time		interval		1.12	1.12	1.10	1.11	1.14	1.12	1.13	1.12	1.16	1.52			3.34	3.37
wind	-0.2 m/s	velocity	5.04	8.16	8.16	8.31	8.23	8.02	8.16	8.09	8.16	7.88	9.22	7.66		8.21	8.14

Yang Yuxuan (CHN) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)		CAA Hurdle Development (2019)															
date	09-Apr-19	time	2.76	3.88	4.98	6.08	7.18	8.26	9.38	10.52	11.66	12.82		14.36	3 / 6		
reaction time	0.180	interval		1.12	1.10	1.10	1.10	1.08	1.12	1.14	1.14	1.16	1.54			3.32	3.30
wind	0.2 m/s	velocity	4.97	8.16	8.31	8.31	8.31	8.46	8.16	8.02	8.02	7.88	9.10	7.66		8.26	8.31

Ma Lei (CHN) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)		CAA Hurdle Development (2019)															
date	13-Apr-19	time	2.76	3.88	4.98	6.09	7.17	8.28	9.38	10.50	11.66	12.80		14.36	7 / 2		
reaction time	0.164	interval	7 steps	1.12	1.10	1.11	1.08	1.11	1.10	1.12	1.16	1.14	1.56			3.33	3.29
wind	-0.8 m/s	velocity	4.97	8.16	8.31	8.23	8.46	8.23	8.31	8.16	7.88	8.02	8.99	7.66		8.23	8.33

Shi Guoxing (CHN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)		CAA Hurdle Development (2019)															
date	24-Aug-19	time	2.78	3.89	4.99	6.10	7.19	8.32	9.44	10.56	11.72	12.88		14.36	3 / 6		
reaction time	0.201	interval		1.11	1.10	1.11	1.09	1.13	1.12	1.12	1.16	1.16	1.48			3.32	3.34
wind	-0.1 m/s	velocity	4.94	8.23	8.31	8.23	8.39	8.09	8.16	8.16	7.88	7.88	9.47	7.66		8.26	8.21

Zhu Shenglong (CHN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)		CAA Hurdle Development (2020)															
date	16-Sep-20	time	2.73	3.84	4.94	6.02	7.11	8.22	9.34	10.46	11.62	12.80		14.36	1 / 8		
reaction time	0.157	interval		1.11	1.10	1.08	1.09	1.11	1.12	1.12	1.16	1.18	1.56			3.29	3.32
wind	0.3 m/s	velocity	5.03	8.23	8.31	8.46	8.39	8.23	8.16	8.16	7.88	7.75	8.99	7.66		8.33	8.26

Kawano, Hayato (JPN) (2003)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)		Shibayama (2021) - national high school and U20 national championships															
date	01-Aug-21	time	2.64	3.75	4.85	5.97	7.07	8.18	9.33	10.50	11.62	12.79		14.36	7 / 7		
reaction time	0.143	interval		1.11	1.10	1.12	1.10	1.11	1.15	1.17	1.12	1.17	1.57			3.33	3.36

wind	1.4 m/s	velocity	5.20	8.23	8.31	8.16	8.31	8.23	7.95	7.81	8.16	7.81	8.93	7.66		8.23	8.16	7.92
DuBose, Jacoby (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2007 USATF National Championships (Indianapolis, IN)			USATF Men's Hurdle Development (2007)															
date	23-Jun-07	time	2.79	3.90	5.01	6.10	7.22	8.34	9.44	10.58	11.71	12.85		14.37	4 / 8			
reaction time	0.139	interval		1.11	1.11	1.09	1.12	1.12	1.10	1.14	1.13	1.14	1.52			3.31	3.34	3.41
wind	-3.2 m/s	velocity	4.92	8.23	8.23	8.39	8.16	8.16	8.31	8.02	8.09	8.02	9.22	7.65		8.28	8.21	8.04
Uchino, Rio (JPN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)			Shibayama (2021) - national high school and U20 national championships															
date	01-Aug-21	time	2.73	3.85	4.95	6.06	7.17	8.28	9.40	10.51	11.66	12.84		14.37	1 / 8			
reaction time	0.139	interval		1.12	1.10	1.11	1.11	1.11	1.12	1.11	1.15	1.18	1.53	PB		3.33	3.34	3.44
wind	1.4 m/s	velocity	5.03	8.16	8.31	8.23	8.23	8.23	8.16	8.23	7.95	7.75	9.16	7.65		8.23	8.21	7.97
Steinforth, Till (GER) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)			Paris 2024 Olympic Games - Results Book (2024)															
date	03-Aug-24	time	2.48	3.63	4.75	5.86	6.97	8.08	9.21	10.34	11.49	12.65		14.37	6 / 4			
reaction time	0.103	interval	7 steps	1.15	1.12	1.11	1.11	1.11	1.13	1.13	1.15	1.16	1.72			3.38	3.35	3.44
wind	0.2 m/s	velocity	5.53	7.95	8.16	8.23	8.23	8.23	8.09	8.09	7.95	7.88	8.15	7.65		8.11	8.19	7.97
Toyoda, Masaki (JPN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (99cm)			Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015															
date	02-Aug-15	time	2.72	3.87	5.01	6.13	7.24	8.35	9.49	10.64	11.78	12.93		14.38	8 / 5			
reaction time		interval		1.15	1.14	1.12	1.11	1.11	1.14	1.15	1.14	1.15	1.45			3.41	3.36	3.44
wind	1.4 m/s	velocity	5.04	7.95	8.02	8.16	8.23	8.23	8.02	7.95	8.02	7.95	9.67	7.65		8.04	8.16	7.97
Kubota, Taichi (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	21-Oct-16	time	2.74	3.85	4.97	6.08	7.20	8.31	9.45	10.59	11.73	12.86		14.38	3 / 1			
reaction time		interval		1.11	1.12	1.11	1.12	1.11	1.14	1.14	1.14	1.13	1.52			3.34	3.37	3.41
wind	1.3 m/s	velocity	5.01	8.23	8.16	8.23	8.16	8.23	8.02	8.02	8.02	8.09	9.22	7.65		8.21	8.14	8.04
Watae, Yuto (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)			(2017) - tfdata-store.com/2017/05/13/post-441/															
date	11-May-17	time	2.65	3.75	4.87	5.97	7.08	8.21	9.33	10.48	11.63	12.81		14.38	2 / 7			
reaction time		interval		1.10	1.12	1.10	1.11	1.13	1.12	1.15	1.15	1.18	1.57			3.32	3.36	3.48
wind	1.6 m/s	velocity	5.18	8.31	8.16	8.31	8.23	8.09	8.16	7.95	7.95	7.75	8.93	7.65		8.26	8.16	7.88
Tong Zhangwei (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Chinese National Sports School Championships (Jinjiang, CHN) (91.4cm)			comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups															
date	??	time	2.72	3.83	4.97	6.08	7.19	8.32	9.46	10.57	11.72	12.86		14.38	2 / 6			
reaction time		interval		1.11	1.14	1.11	1.11	1.13	1.14	1.11	1.15	1.14	1.52			3.36	3.38	3.40
wind	??	velocity	5.04	8.23	8.02	8.23	8.23	8.09	8.02	8.23	7.95	8.02	9.22	7.65		8.16	8.11	8.06
Zhao Pengchuan (CHN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)			CAA Hurdle Development (2019)															
date	08-Apr-19	time	2.78	3.89	4.98	6.06	7.18	8.26	9.38	10.48	11.60	12.75		14.38	3 / 2			
reaction time	0.288	interval		1.11	1.09	1.08	1.12	1.08	1.12	1.10	1.12	1.15	1.63			3.28	3.32	3.37
wind	-1.5 m/s	velocity	4.94	8.23	8.39	8.46	8.16	8.46	8.16	8.31	8.16	7.95	8.60	7.65		8.36	8.26	8.14
Lai Junjie (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 National Grand Prix (Chengdu, CHN)			CAA Hurdle Development (2021)															
date	02-Apr-21	time	2.72	3.88	5.02	6.10	7.20	8.30	9.42	10.56	11.68	12.84		14.38	3 / 2			
reaction time	0.189	interval		1.16	1.14	1.08	1.10	1.10	1.12	1.14	1.12	1.16	1.54	PB		3.38	3.32	3.42
wind	0.3 m/s	velocity	5.04	7.88	8.02	8.46	8.31	8.31	8.16	8.02	8.16	7.88	9.10	7.94		8.11	8.26	8.02
Erm, Johannes (EST) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			Henson (2024) - Athlete First: 2022 year end hurdle report															
date	24-Jul-22	time	2.78	3.96	5.06	6.20	7.30	8.43	9.55	10.62	11.75	12.87		14.38	6 / 1			
reaction time	0.171	interval	7 steps	1.18	1.10	1.14	1.10	1.13	1.12	1.07	1.13	1.12	1.51			3.42	3.35	3.32
wind	1.5 m/s	velocity	4.94	7.75	8.31	8.02	8.31	8.09	8.16	8.54	8.09	8.16	9.28	7.65		8.02	8.19	8.26
Senryu, Asai (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)			Takashima (2023) - national high school sports festival - biomechanics data															
date	06-Aug-23	time	2.77	3.91	5.01	6.11	7.21	8.31	9.46	10.59	11.75	12.89		14.38	9 / 6			
reaction time	0.212	interval		1.14	1.10	1.10	1.10	1.10	1.15	1.13	1.16	1.14	1.49			3.34	3.35	3.43
wind	0.8 m/s	velocity	4.95	8.02	8.31	8.31	8.31	8.31	7.95	8.09	7.88	8.02	9.41	7.65		8.21	8.19	7.99
Polách, Josef (CZE) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)			Feher (2014) - Final report from the Czech Republic national championships															
date	02-Aug-14	time	2.70	3.82	4.93	6.05	7.15	8.26	9.37	10.52	11.63	12.83		14.39	3 / 2			
reaction time	0.154	interval		1.12	1.11	1.12	1.10	1.11	1.11	1.15	1.11	1.20	1.56			3.35	3.32	3.46
wind	-1.2 m/s	velocity	5.08	8.16	8.23	8.16	8.31	8.23	8.23	7.95	8.23	7.62	8.99	7.64		8.19	8.26	7.92

Kato, Takuma (JPN) (1998)																	
FINAL	- 2016 Hokusei Shinetsu High School Meeting (Okayama, JPN) (99cm)																
date	18-Jun-16	time	2.68	3.76	4.88	5.98	7.10	8.24	9.40	10.56	11.73	12.89		14.39	7 / 1		
reaction time		interval		1.08	1.12	1.10	1.12	1.14	1.16	1.16	1.17	1.16	1.50			3.30	3.42
wind	-2.5 m/s	velocity	5.12	8.46	8.16	8.31	8.16	8.02	7.88	7.88	7.81	7.88	9.35	7.64		8.31	8.02
Morita, Kanon (JPN) (2000)																	
Heat 3	- 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																
date	21-Oct-16	time	2.66	3.80	4.92	6.04	7.15	8.28	9.42	10.54	11.70	12.86		14.39	7 / 2		
reaction time		interval		1.14	1.12	1.12	1.11	1.13	1.14	1.12	1.16	1.16	1.53			3.38	3.38
wind	1.4 m/s	velocity	5.16	8.02	8.16	8.16	8.23	8.09	8.02	8.16	7.88	7.88	9.16	7.64		8.11	8.11
Yang Libo (CHN)																	
FINAL	- 2018 Chinese National Sports School Championships (Jinjiang, CHN) (91.4cm)																
date	??	time	2.81	3.93	5.03	6.14	7.22	8.32	9.42	10.55	11.69	12.85		14.39	3 / ??		
reaction time		interval		1.12	1.10	1.11	1.08	1.10	1.10	1.13	1.14	1.16	1.54			3.33	3.28
wind	??	velocity	4.88	8.16	8.31	8.23	8.46	8.31	8.31	8.09	8.02	7.88	9.10	7.64		8.23	8.36
Ji Haohao (CHN) (2001)																	
FINAL	- 2018 Chinese National Sports School Championships (Jinjiang, CHN) (91.4cm)																
date	??	time	2.74	3.85	4.94	6.03	7.14	8.20	9.32	10.50	11.66	12.81		14.39	8 / ??		
reaction time		interval		1.11	1.09	1.09	1.11	1.06	1.12	1.18	1.16	1.15	1.58			3.29	3.29
wind	??	velocity	5.01	8.23	8.39	8.39	8.23	8.62	8.16	7.75	7.88	7.95	8.87	7.64		8.33	8.33
Shi Guoxing (CHN) (2000)																	
Heat 2	- 2020 Chinese Olympic Trials (Shaoxing, CHN)																
date	12-Jun-21	time	2.65	3.76	4.87	5.97	7.11	8.24	9.36	10.49	11.63	12.77		14.39	7 / 6		
reaction time	0.156	interval		1.11	1.11	1.10	1.14	1.13	1.12	1.13	1.14	1.14	1.62			3.32	3.39
wind	-0.8 m/s	velocity	5.18	8.23	8.23	8.31	8.02	8.09	8.16	8.09	8.02	8.02	8.65	7.64		8.26	8.09
LePage, Pierce (CAN) (1996)																	
Decathlon - Heat 3	- 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	05-Aug-21	time	2.72	3.88	4.95	6.10	7.20	8.32	9.48	10.58	11.75	12.90		14.39	5 / 5		
reaction time	0.168	interval		1.16	1.07	1.15	1.10	1.12	1.16	1.10	1.17	1.15	1.49			3.38	3.38
wind	-1.0 m/s	velocity	5.04	7.88	8.54	7.95	8.31	8.16	7.88	8.31	7.81	7.95	9.41	7.64		8.11	8.11
Yokochi, Taiga (JPN) (2000)																	
Heat 3	- 2023 World Athletics Championships (Budapest, HUN)																
date	20-Aug-23	time	2.66	3.74	4.79	5.81	6.90	7.97	9.02	10.09	11.18		14.39	9 / 8			
reaction time	0.170	interval		1.08	1.05	1.02	1.09	1.07	1.05	1.07	1.09					3.15	3.21
wind	0.0 m/s	velocity	5.16	8.46	8.70	8.96	8.39	8.54	8.70	8.54	8.39			7.64		8.70	8.54
Eitel, Manuel (GER) (1997)																	
Decathlon - Heat 2	- 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																
date	26-Aug-23	time	2.72	3.83	4.95	6.05	7.16	8.26	9.42	10.55	11.72	12.85		14.39	3 / 4		
reaction time	0.172	interval		1.11	1.12	1.10	1.11	1.10	1.16	1.13	1.17	1.13	1.54			3.33	3.37
wind	0.1 m/s	velocity	5.04	8.23	8.16	8.31	8.23	8.31	7.88	8.09	7.81	8.09	9.10	7.64		8.23	8.14
Aiso, Ibuki (JPN) (1996)																	
Heat 2	- 2017 Mito Invitational (Mito, JPN)																
date	05-May-17	time	2.70	3.84	4.98	6.11	7.23	8.35	9.47	10.59	11.73	12.91		14.40	9 / 4		
reaction time		interval		1.14	1.14	1.13	1.12	1.12	1.12	1.12	1.14	1.18	1.49			3.41	3.36
wind	0.6 m/s	velocity	5.08	8.02	8.02	8.09	8.16	8.16	8.16	8.16	8.02	7.75	9.41	7.64		8.04	8.16
Sugaya, Takumi (JPN) (2001)																	
FINAL	- 2019 Japanese National High School Championships (Okinawa, JPN) (99cm)																
date	08-Aug-19	time	2.74	3.86	4.99	6.12	7.24	8.37	9.50	10.63	11.75	12.91		14.40	7 / 3		
reaction time		interval		1.12	1.13	1.13	1.12	1.13	1.13	1.13	1.12	1.16	1.49			3.38	3.38
wind	-3.0 m/s	velocity	5.01	8.16	8.09	8.09	8.16	8.09	8.09	8.09	8.16	7.88	9.41	7.64		8.11	8.11
Pan Zijie (CHN) (1995)																	
Heat 2	- 2020 Chinese National Championships (Shaoxing, CHN)																
date	16-Sep-20	time	2.64	3.78	4.90	6.00	7.13	8.26	9.39	10.53	11.68	12.84		14.40	9 / 7		
reaction time	0.154	interval		1.14	1.12	1.10	1.13	1.13	1.13	1.14	1.15	1.16	1.56			3.36	3.39
wind	-0.5 m/s	velocity	5.20	8.02	8.16	8.31	8.09	8.09	8.09	8.02	7.95	7.88	8.99	7.64		8.16	8.09
Yang Jiajun (CHN) (2002)																	
FINAL	- 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)																
date	19-May-21	time	2.72	3.83	4.94	6.06	7.16	8.26	9.39	10.56	11.71	12.88		14.40	8 / 4		
reaction time	0.126	interval		1.11	1.11	1.12	1.10	1.10	1.13	1.17	1.15	1.17	1.52			3.34	3.33
wind	1.9 m/s	velocity	5.04	8.23	8.23	8.16	8.31	8.31	8.09	7.81	7.95	7.81	9.22	7.64		8.21	8.23

Yang Jiajun (CHN) (2002)																
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																
CAA Hurdle Development (2021)																
date	25-Jun-21	time	2.71	3.85	4.97	6.06	7.16	8.26	9.37	10.52	11.67	12.84		14.40	9 / 6	
reaction time	0.170	interval		1.14	1.12	1.09	1.10	1.10	1.11	1.15	1.15	1.17	1.56	=PB		3.35 3.31 3.47
wind	-1.0 m/s	velocity	5.06	8.02	8.16	8.39	8.31	8.31	8.23	7.95	7.95	7.81	8.99	7.64		8.19 8.28 7.90
Wu Zhenhua (CHN) (1998)																
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																
CAA Hurdle Development (2019)																
date	23-Aug-19	time	2.74	3.84	4.95	6.06	7.20	8.31	9.44	10.59	11.73	12.88		14.41	9 / 4	
reaction time	0.175	interval		1.10	1.11	1.11	1.14	1.11	1.13	1.15	1.14	1.15	1.53			3.32 3.38 3.44
wind	-0.2 m/s	velocity	5.01	8.31	8.23	8.23	8.02	8.23	8.09	7.95	8.02	7.95	9.16	7.63		8.26 8.11 7.97
Lin Ken (CHN) (1999)																
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																
CAA Hurdle Development (2021)																
date	25-Jun-21	time	2.69	3.78	4.88	6.02	7.10	8.22	9.37	10.50	11.67	12.84		14.41	2 / 7	
reaction time	0.190	interval		1.09	1.10	1.14	1.08	1.12	1.15	1.13	1.17	1.17	1.57	PB		3.33 3.35 3.47
wind	-1.0 m/s	velocity	5.10	8.39	8.31	8.02	8.46	8.16	7.95	8.09	7.81	7.81	8.93	7.63		8.23 8.19 7.90
Maruyama, Yuma (JPN) (1998)																
Decathlon - Heat 2 - 2023 Japanese Multi-Event National Championships (Akita, JPN)																
Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season																
date	11-Jun-23	time	2.72	3.88	5.03	6.15	7.24	8.34	9.47	10.60	11.75	12.90		14.41	7 / 2	
reaction time		interval		1.16	1.15	1.12	1.09	1.10	1.13	1.13	1.15	1.15	1.51			3.43 3.32 3.43
wind	-0.1 m/s	velocity	5.04	7.88	7.95	8.16	8.39	8.31	8.09	8.09	7.95	7.95	9.28	7.63		7.99 8.26 7.99
Miyamoto, Koju (JPN)																
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)																
Takashima (2023) - national high school sports festival - biomechanics data																
date	06-Aug-23	time	2.74	3.86	4.95	6.08	7.17	8.29	9.39	10.57	11.74	12.94		14.41	7 / 7	
reaction time	0.197	interval		1.12	1.09	1.13	1.09	1.12	1.10	1.18	1.17	1.20	1.47			3.34 3.31 3.55
wind	0.8 m/s	velocity	5.01	8.16	8.39	8.09	8.39	8.16	8.31	7.75	7.81	7.62	9.54	7.63		8.21 8.28 7.72
Bentsen, Jon Yde (DEN) (1985)																
FINAL - 2011 Windsprint (Sundsvall, SWE)																
Blomkvist (2011) - www.sub13.se																
date	31-Jul-11	time	2.72	3.85	4.95	6.04	7.14	8.25	9.37	10.49	11.64	12.81		14.42	1 / 4	
reaction time		interval		1.13	1.10	1.09	1.10	1.11	1.12	1.12	1.15	1.17	1.61			3.32 3.33 3.44
wind	2.8 m/s	velocity	5.04	8.09	8.31	8.39	8.31	8.23	8.16	8.16	7.95	7.81	8.71	7.63		8.26 8.23 7.97
Toyama, Hiroki (JPN) (1999)																
FINAL - 2016 Hiroshima Prefecture High School Meeting (Hiroshima, JPN)																
(2016.05.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																
date	29-May-16	time	2.69	3.83	4.95	6.11	7.25	8.38	9.51	10.65	11.80	12.97		14.42	6 / 1	
reaction time		interval	7 steps	1.14	1.12	1.16	1.14	1.13	1.13	1.14	1.15	1.17	1.45			3.42 3.40 3.46
wind	0.1 m/s	velocity	5.10	8.02	8.16	7.88	8.02	8.09	8.09	8.02	7.95	7.81	9.67	7.63		8.02 8.06 7.92
Namba, Niroschi (JPN) (1999)																
Heat 5 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																
(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																
date	21-Oct-16	time	2.77	3.92	5.05	6.18	7.30	8.41	9.53	10.68	11.81	12.95		14.42	4 / 2	
reaction time		interval		1.15	1.13	1.13	1.12	1.11	1.12	1.15	1.13	1.14	1.47			3.41 3.35 3.42
wind	1.3 m/s	velocity	4.95	7.95	8.09	8.09	8.16	8.23	8.16	7.95	8.09	8.02	9.54	7.63		8.04 8.19 8.02
Kumada, Ryo (JPN) (1994)																
Heat 3 - 2017 Mito Invitational (Mito, JPN)																
(2017) - tfdata-store.com/2017/05/06/post-423/																
date	05-May-17	time	2.77	3.93	5.05	6.16	7.30	8.42	9.55	10.67	11.83	12.99		14.42	9 / 4	
reaction time		interval	7 steps	1.16	1.12	1.11	1.14	1.12	1.13	1.12	1.16	1.16	1.43			3.39 3.39 3.44
wind	-2.5 m/s	velocity	4.95	7.88	8.16	8.23	8.02	8.16	8.09	8.16	7.88	7.88	9.80	7.63		8.09 8.09 7.97
Miura, Yoshiaki (JPN) (1995)																
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)																
(2017) - tfdata-store.com/2017/05/13/post-441/																
date	11-May-17	time	2.68	3.80	4.91	6.01	7.15	8.26	9.38	10.52	11.70	12.88		14.42	8 / 8	
reaction time		interval		1.12	1.11	1.10	1.14	1.11	1.12	1.14	1.18	1.18	1.54			3.33 3.37 3.50
wind	1.6 m/s	velocity	5.12	8.16	8.23	8.31	8.02	8.23	8.16	8.02	7.75	7.75	9.10	7.63		8.23 8.14 7.83
Guo Zhongjie (CHN) (2001)																
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																
CAA Hurdle Development (2019)																
date	23-Aug-19	time	2.73	3.84	4.92	6.01	7.12	8.22	9.36	10.51	11.66	12.85		14.42	5 / 5	
reaction time	0.193	interval		1.11	1.08	1.09	1.11	1.10	1.14	1.15	1.15	1.19	1.57			3.28 3.35 3.49
wind	-0.2 m/s	velocity	5.03	8.23	8.46	8.39	8.23	8.31	8.02	7.95	7.95	7.68	8.93	7.63		8.36 8.19 7.86
Xu Zhuoyi (CHN) (2003)																
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)																
CAA Hurdle Development (2021)																
date	24-Apr-21	time	2.74	3.88	5.02	6.15	7.25	8.38	9.50	10.62	11.75	12.91		14.42	8 / 5	
reaction time	0.179	interval	7 steps	1.14	1.14	1.13	1.10	1.13	1.12	1.12	1.13	1.16	1.51			3.41 3.35 3.41
wind	-1.1 m/s	velocity	5.01	8.02	8.02	8.09	8.31	8.09	8.16	8.16	8.09	7.88	9.28	7.63		8.04 8.19 8.04
Zhang Tao (CHN) (1997)																

Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.70	3.80	4.92	6.04	7.14	8.24	9.38	10.51	11.66	12.85		14.42	5 / 4			
reaction time	0.189	interval		1.10	1.12	1.12	1.10	1.10	1.14	1.13	1.15	1.19	1.57			3.34	3.34	3.47
wind	-0.2 m/s	velocity	5.08	8.31	8.16	8.16	8.31	8.31	8.02	8.09	7.95	7.68	8.93	7.63		8.21	8.21	7.90

Bastien, Steven (USA) (1994)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Decathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis) Henson (2024) - Athlete First: 2021 year end hurdle report

date	05-Aug-21	time	2.68	3.76	4.90	6.03	7.12	8.25	9.42	10.55	11.73	12.87		14.42	2 / 6			
reaction time	0.148	interval	7 steps	1.08	1.14	1.13	1.09	1.13	1.17	1.13	1.18	1.14	1.55			3.35	3.39	3.45
wind	-1.0 m/s	velocity	5.12	8.46	8.02	8.09	8.39	8.09	7.81	8.09	7.75	8.02	9.05	7.63		8.19	8.09	7.95

Askros, Rafael (SWE) (1981)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2010 Windsprint (Sundsvall, SWE) Blomkvist (2010) - www.sub13.se

date	08-Aug-10	time	2.79	3.91	5.01	6.11	7.20	8.33	9.44	10.58	11.74	12.90		14.43	1 / 7			
reaction time		interval		1.12	1.10	1.10	1.09	1.13	1.11	1.14	1.16	1.16	1.53			3.32	3.33	3.46
wind	1.1 m/s	velocity	4.92	8.16	8.31	8.31	8.39	8.09	8.23	8.02	7.88	7.88	9.16	7.62		8.26	8.23	7.92

Homola, Tomáš (CZE) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm) Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

date	28-Jun-14	time	2.65	3.78	4.89	5.99	7.11	8.23	9.34	10.50	11.67	12.84		14.43	4 / 1			
reaction time	0.176	interval		1.13	1.11	1.10	1.12	1.12	1.11	1.16	1.17	1.17	1.59			3.34	3.35	3.50
wind	-1.6 m/s	velocity	5.18	8.09	8.23	8.31	8.16	8.16	8.23	7.88	7.83	7.79	8.82	7.62		8.21	8.19	7.83

Imai, Junpei (JPN) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2016 Niigata Prefecture High School Meeting (Niigata, JPN) (2016.05.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	29-May-16	time	2.69	3.82	4.94	6.07	7.19	8.32	9.46	10.60	11.76	12.90		14.43	1 / 2			
reaction time		interval		1.13	1.12	1.13	1.12	1.13	1.14	1.14	1.16	1.14	1.53			3.38	3.39	3.44
wind	-0.6 m/s	velocity	5.10	8.09	8.16	8.09	8.16	8.09	8.02	8.02	7.88	8.02	9.16	7.62		8.11	8.09	7.97

Imai, Rikkoshi (JPN)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 5 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm) (2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	21-Oct-16	time	2.66	3.79	4.91	6.02	7.16	8.28	9.42	10.56	11.76	12.93		14.43	7 / 3			
reaction time		interval		1.13	1.12	1.11	1.14	1.12	1.14	1.14	1.20	1.17	1.50			3.36	3.40	3.51
wind	1.3 m/s	velocity	5.16	8.09	8.16	8.23	8.02	8.16	8.02	8.02	7.62	7.81	9.35	7.62		8.16	8.06	7.81

Shibaya, Takumi (JPN) (2000)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 6 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm) (2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	21-Oct-16	time	2.75	3.85	4.97	6.08	7.21	8.32	9.44	10.59	11.75	12.90		14.43	1 / 2			
reaction time		interval		1.10	1.12	1.11	1.13	1.11	1.12	1.15	1.16	1.15	1.53			3.33	3.36	3.46
wind	1.2 m/s	velocity	4.99	8.31	8.16	8.23	8.09	8.23	8.16	7.95	7.88	7.95	9.16	7.62		8.23	8.16	7.92

Kanai, Tadashi (JPN)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 3 - 2017 Mito Invitational (Mito, JPN) (2017) - tfdata-store.com/2017/05/06/post-423/

date	05-May-17	time	2.70	3.82	4.93	6.05	7.15	8.28	9.41	10.56	11.71	12.89		14.43	2 / 5			
reaction time		interval		1.12	1.11	1.12	1.10	1.13	1.13	1.15	1.15	1.18	1.54			3.35	3.36	3.48
wind	-2.5 m/s	velocity	5.08	8.16	8.23	8.16	8.31	8.09	8.09	7.95	7.95	7.75	9.10	7.62		8.19	8.16	7.88

Takahasai, Yusuke (JPN) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 3 - 2017 Mito Invitational (Mito, JPN) (2017) - tfdata-store.com/2017/05/06/post-423/

date	05-May-17	time	2.65	3.83	4.96	6.10	7.25	8.37	9.49	10.63	11.80	12.97		14.43	8 / 6			
reaction time		interval		1.18	1.13	1.14	1.15	1.12	1.12	1.14	1.17	1.17	1.46			3.45	3.39	3.48
wind	-2.5 m/s	velocity	5.18	7.75	8.09	8.02	7.95	8.16	8.16	8.02	7.81	7.81	9.60	7.62		7.95	8.09	7.88

Muratake, Rachid (JPN) (2002)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99cm) (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection

date	06-Aug-18	time	2.66	3.75	4.89	5.99	7.11	8.24	9.43	10.60	11.77	12.98		14.43	4 / 8			
reaction time		interval		1.09	1.14	1.10	1.12	1.13	1.19	1.17	1.17	1.21	1.45			3.33	3.44	3.55
wind	1.6 m/s	velocity	5.16	8.39	8.02	8.31	8.16	8.09	7.68	7.81	7.81	7.55	9.67	7.62		8.23	7.97	7.72

Yang Jianxing (CHN) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 1 - 2019 Chinese National Championships (Shenyang, CHN) CAA Hurdle Development (2019)

date	08-Jul-19	time	2.69	3.82	4.94	6.07	7.16	8.31	9.44	10.57	11.73	12.88		14.43	3 / 6			
reaction time	0.141	interval		1.13	1.12	1.13	1.09	1.15	1.13	1.13	1.16	1.15	1.55			3.38	3.37	3.44
wind	0.1 m/s	velocity	5.10	8.09	8.16	8.09	8.39	7.95	8.09	8.09	7.88	7.95	9.05	7.62		8.11	8.14	7.97

Si Zhengdong (CHN) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN) CAA Hurdle Development (2019)

date	08-Jul-19	time	2.72	3.84	4.92	6.01	7.09	8.17	9.27	10.38	11.57	12.80		14.43	7 / 5			
reaction time	0.185	interval		1.12	1.08	1.09	1.08	1.08	1.10	1.11	1.19	1.23	1.63	PB		3.29	3.26	3.53
wind	-0.5 m/s	velocity	5.04	8.16	8.46	8.39	8.46	8.46	8.31	8.23	7.68	7.43	8.60	7.62		8.33	8.41	7.77

Wu Zhenhua (CHN) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN) CAA Hurdle Development (2019)

date	02-Aug-19	time	2.74	3.87	4.98	6.10	7.21	8.34	9.48	10.61	11.74	12.91	14.43	8 / 3			
reaction time	0.174	interval		1.13	1.11	1.12	1.11	1.13	1.14	1.13	1.13	1.17	1.52		3.36	3.38	3.43
wind	-0.2 m/s	velocity	5.01	8.09	8.23	8.16	8.23	8.09	8.02	8.09	8.09	7.81	9.22	7.62	8.16	8.11	7.99
Yang Yuxuan (CHN) (2002)																	
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)																	
date	16-Sep-20	time	2.72	3.88	4.98	6.10	7.20	8.32	9.45	10.59	11.75	12.91	14.43	4 / 9			
reaction time	0.138	interval		1.16	1.10	1.12	1.10	1.12	1.13	1.14	1.16	1.16	1.52		3.38	3.35	3.46
wind	0.3 m/s	velocity	5.04	7.88	8.31	8.16	8.31	8.16	8.09	8.02	7.88	7.88	9.22	7.62	8.11	8.19	7.92
Lai Junjie (CHN) (2003)																	
FINAL - 2021 National Grand Prix (Chengdu, CHN)																	
date	02-Apr-21	time	2.78	3.95	5.06	6.18	7.27	8.38	9.48	10.60	11.75	12.90	14.43	3 / 3			
reaction time	0.176	interval		1.17	1.11	1.12	1.09	1.11	1.10	1.12	1.15	1.15	1.53		3.40	3.30	3.42
wind	-0.1 m/s	velocity	4.94	7.81	8.23	8.16	8.39	8.23	8.31	8.16	7.95	7.95	9.16	7.62	8.06	8.31	8.02
Jiang Wei (CHN) (1994)																	
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)																	
date	19-May-21	time	2.74	3.89	5.00	6.10	7.22	8.36	9.44	10.59	11.73	12.90	14.43	2 / 5			
reaction time	0.194	interval		1.15	1.11	1.10	1.12	1.14	1.08	1.15	1.14	1.17	1.53		3.36	3.34	3.46
wind	1.9 m/s	velocity	5.01	7.95	8.23	8.31	8.16	8.02	8.46	7.95	8.02	7.81	9.16	7.62	8.16	8.21	7.92
Shkurenov, Ilya (RUS) (1991)																	
Decathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																	
date	05-Aug-21	time	2.70	3.83	4.92	6.05	7.14	8.28	9.44	10.56	11.70	12.88	14.43	2 / 2			
reaction time	0.174	interval	7 steps	1.13	1.09	1.13	1.09	1.14	1.16	1.12	1.14	1.18	1.55		3.35	3.39	3.44
wind	0.0 m/s	velocity	5.08	8.09	8.39	8.09	8.39	8.02	7.88	8.16	8.02	7.75	9.05	7.62	8.19	8.09	7.97
Kazmirek, Kai (GER) (1991)																	
Decathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																	
date	24-Jul-22	time	2.76	3.88	5.00	6.10	7.20	8.32	9.46	10.58	11.73	12.92	14.43	3 / 4			
reaction time	0.150	interval		1.12	1.12	1.10	1.10	1.12	1.14	1.12	1.15	1.19	1.51		3.34	3.36	3.46
wind	0.4 m/s	velocity	4.97	8.16	8.16	8.31	8.31	8.16	8.02	8.16	7.95	7.68	9.28	7.62	8.21	8.16	7.92
Kasyanov, Oleksiy (UKR) (1985)																	
Decathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)																	
date	20-Aug-09	time	2.73	3.85	4.95	6.07	7.18	8.31	9.45	10.59	11.77	12.96	14.44	7 / 4			
reaction time	0.163	interval		1.12	1.10	1.12	1.11	1.13	1.14	1.14	1.18	1.19	1.48		3.34	3.38	3.51
wind	-0.1 m/s	velocity	5.03	8.16	8.31	8.16	8.23	8.09	8.02	8.02	7.75	7.68	9.47	7.62	8.21	8.11	7.81
Šebrle, Roman (CZE) (1974)																	
Decathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)																	
date	20-Aug-09	time	2.77	3.91	5.01	6.11	7.21	8.35	9.44	10.57	11.73	12.90	14.44	2 / 5			
reaction time	0.165	interval		1.14	1.10	1.10	1.10	1.14	1.09	1.13	1.16	1.17	1.54		3.34	3.33	3.46
wind	-0.1 m/s	velocity	4.95	8.02	8.31	8.31	8.31	8.02	8.39	8.09	7.88	7.81	9.10	7.62	8.21	8.23	7.92
Sekiguchi, Takane (JPN)																	
Heat 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																	
date	21-Oct-16	time	2.69	3.82	4.93	6.03	7.15	8.28	9.42	10.54	11.68	12.87	14.44	4 / 3			
reaction time		interval		1.13	1.11	1.10	1.12	1.13	1.14	1.12	1.14	1.19	1.57		3.34	3.39	3.45
wind	1.7 m/s	velocity	5.10	8.09	8.23	8.31	8.16	8.09	8.02	8.16	8.02	7.68	8.93	7.62	8.21	8.09	7.95
Kudo, Masayoshi (JPN)																	
Heat 6 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																	
date	21-Oct-16	time	2.70	3.80	4.89	6.00	7.09	8.28	9.41	10.57	11.70	12.91	14.44	2 / 3			
reaction time		interval		1.10	1.09	1.11	1.09	1.19	1.13	1.16	1.13	1.21	1.53		3.30	3.41	3.50
wind	1.2 m/s	velocity	5.08	8.31	8.39	8.23	8.39	7.68	8.09	7.88	8.09	7.55	9.16	7.62	8.31	8.04	7.83
Kato, Takuma (JPN) (1998)																	
Heat 1 - 2017 Mito Invitational (Mito, JPN)																	
date	05-May-17	time	2.71	3.83	4.96	6.06	7.19	8.31	9.43	10.56	11.70	12.89	14.44	6 / 3			
reaction time		interval		1.12	1.13	1.10	1.13	1.12	1.12	1.13	1.14	1.19	1.55		3.35	3.37	3.46
wind	0.3 m/s	velocity	5.06	8.16	8.09	8.31	8.09	8.16	8.16	8.09	8.02	7.68	9.05	7.62	8.19	8.14	7.92
Nakata, Hidetoshi (JPN) (1999)																	
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)																	
date	02-Aug-17	time	2.69	3.81	4.94	6.05	7.17	8.27	9.41	10.56	11.73	12.91	14.44	5 / 4			
reaction time	0.130	interval		1.12	1.13	1.11	1.12	1.10	1.14	1.15	1.17	1.18	1.53		3.36	3.36	3.50
wind	-0.7 m/s	velocity	5.10	8.16	8.09	8.23	8.16	8.31	8.02	7.95	7.81	7.75	9.16	7.62	8.16	8.16	7.83
Tokuoka, Ryo (JPN) (1999)																	
B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																	
date	28-Apr-19	time	2.74	3.86	4.99	6.11	7.20	8.33	9.44	10.60	11.75	12.91	14.44	1 / 6			

reaction time		interval	1.12	1.13	1.12	1.09	1.13	1.11	1.16	1.15	1.16	1.53			3.37	3.33	3.47
wind	1.4 m/s	velocity	5.01	8.16	8.09	8.16	8.39	8.09	8.23	7.88	7.95	7.88	9.16	7.62	8.14	8.23	7.90

Yang Haoran (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 National Grand Prix (Chengdu, CHN)																		
date	02-Apr-21	time	2.69	3.82	4.97	6.10	7.25	8.38	9.52	10.66	11.82	12.96		14.44	6 / 4			
reaction time	0.145	interval		1.13	1.15	1.13	1.15	1.13	1.14	1.14	1.16	1.14	1.48	PB		3.41	3.42	3.44
wind	-0.1 m/s	velocity	5.10	8.09	7.95	8.09	7.95	8.09	8.02	8.02	7.88	8.02	9.47	7.62		8.04	8.02	7.97

Ji Haohao (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)																		
date	25-Jun-21	time	2.72	3.84	4.94	6.07	7.18	8.29	9.43	10.56	11.71	12.88		14.44	7 / 7			
reaction time	0.177	interval		1.12	1.10	1.13	1.11	1.11	1.14	1.13	1.15	1.17	1.56			3.35	3.36	3.45
wind	0.5 m/s	velocity	5.04	8.16	8.31	8.09	8.23	8.23	8.02	8.09	7.95	7.81	8.99	7.62		8.19	8.16	7.95

Suárez, Leonel (CUB) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)																		
date	20-Aug-09	time	2.65	3.78	4.89	6.01	7.13	8.25	9.39	10.51	11.68	12.85		14.45	8 / 7			
reaction time	0.139	interval		1.13	1.11	1.12	1.12	1.12	1.14	1.12	1.17	1.17	1.60			3.36	3.38	3.46
wind	0.3 m/s	velocity	5.18	8.09	8.23	8.16	8.16	8.16	8.02	8.16	7.81	7.81	8.76	7.61		8.16	8.11	7.92

Askros, Rafael (SWE) (1981)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 Swedish National Championships (Falun, SWE)																		
date	22-Aug-10	time	2.79	3.91	5.02	6.14	7.25	8.36	9.50	10.64	11.80	12.97		14.45	1 / 2			
reaction time		interval		1.12	1.11	1.12	1.11	1.11	1.14	1.14	1.16	1.17	1.48			3.35	3.36	3.47
wind	-0.7 m/s	velocity	4.92	8.16	8.23	8.16	8.23	8.23	8.02	8.02	7.88	7.81	9.47	7.61		8.19	8.16	7.90

Abe, Masaya (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Nambu Memorial (Sapporo, JPN)																		
date	09-Jul-17	time	2.69	3.83	4.95	6.08	7.23	8.35	9.47	10.61	11.76	12.93		14.45	2 / 7			
reaction time		interval		1.14	1.12	1.13	1.15	1.12	1.12	1.14	1.15	1.17	1.52			3.39	3.39	3.46
wind	2.7 m/s	velocity	5.10	8.02	8.16	8.09	7.95	8.16	8.16	8.02	7.95	7.81	9.22	7.61		8.09	8.09	7.92

Jiang Wei (CHN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 National Grand Prix Final (Guiyang, CHN) (Altitude)																		
date	17-Jun-18	time	2.69	3.80	4.93	6.06	7.18	8.29	9.42	10.57	11.71	12.86		14.45	2 / 8			
reaction time		interval		1.11	1.13	1.13	1.12	1.11	1.13	1.15	1.14	1.15	1.59			3.37	3.36	3.44
wind	-0.3 m/s	velocity	5.10	8.23	8.09	8.09	8.16	8.23	8.09	7.95	8.02	7.95	8.82	7.61		8.14	8.16	7.97

Öiglane, Janek (EST) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)																		
date	03-Aug-24	time	2.53	3.69	4.81	5.93	7.05	8.16	9.31	10.42	11.58	12.75		14.45	5 / 2			
reaction time	0.162	interval		1.16	1.12	1.12	1.12	1.11	1.15	1.11	1.16	1.17	1.70			3.40	3.38	3.44
wind	0.2 m/s	velocity	5.42	7.88	8.16	8.16	8.16	8.23	7.95	8.23	7.88	7.81	8.25	7.61		8.06	8.11	7.97

Askros, Rafael (SWE) (1981)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 Windsprint (Sundsvall, SWE)																		
date	24-Jul-07	time		3.76			7.19			10.59				14.46	1 / 4			
reaction time		interval					3.43			3.40			3.87					
wind	1.3 m/s	velocity		6.08			7.99			8.06			8.35	7.61				

Karpov, Dmitriy (KAZ) (1981)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)																		
date	20-Aug-09	time	2.73	3.85	4.94	6.03	7.17	8.31	9.45	10.61	11.73	12.91		14.46	4 / 1			
reaction time	0.141	interval		1.12	1.09	1.09	1.14	1.14	1.14	1.16	1.12	1.18	1.55			3.30	3.42	3.46
wind	0.0 m/s	velocity	5.03	8.16	8.39	8.39	8.02	8.02	8.02	7.88	8.16	7.75	9.05	7.61		8.31	8.02	7.92

Widlund, Hampus (SWE) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Windsprint (Sundsvall, SWE)																		
date	28-Jul-13	time	2.76	3.89	5.00	6.11	7.23	8.38	9.53	10.65	11.78	12.93		14.46	1 / 7			
reaction time		interval		1.13	1.11	1.11	1.12	1.15	1.15	1.12	1.13	1.15	1.53			3.35	3.42	3.40
wind	1.7 m/s	velocity	4.97	8.09	8.23	8.23	8.16	7.95	7.95	8.16	8.09	7.95	9.16	7.61		8.19	8.02	8.06

Suzuki, Yusei (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																		
date	21-Oct-16	time	2.64	3.76	4.89	6.01	7.13	8.27	9.42	10.55	11.72	12.91		14.46	4 / 3			
reaction time		interval		1.12	1.13	1.12	1.12	1.14	1.15	1.13	1.17	1.19	1.55			3.37	3.41	3.49
wind	1.4 m/s	velocity	5.20	8.16	8.09	8.16	8.16	8.02	7.95	8.09	7.81	7.68	9.05	7.61		8.14	8.04	7.86

Hatanaka, Yushi (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)																		
date	06-Apr-17	time	2.71	3.84	4.95	6.04	7.15	8.28	9.42	10.58	11.75	12.91		14.46	6 / 1			
reaction time		interval		1.13	1.11	1.09	1.11	1.13	1.14	1.16	1.17	1.16	1.55			3.33	3.38	3.49

WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified DV=Drug Violation

wind	-1.8 m/s	velocity	5.06	8.09	8.23	8.39	8.23	8.09	8.02	7.88	7.81	7.88	9.05	7.61			8.23	8.11	7.86
Li Jiming (CHN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)			CAA Hurdle Development (2019)																
date	08-Apr-19	time	2.73	3.85	4.96	6.06	7.14	8.26	9.37	10.52	11.68	12.87		14.46	6 / 2				
reaction time	0.190	interval		1.12	1.11	1.10	1.08	1.12	1.11	1.15	1.16	1.19	1.59				3.33	3.31	3.50
wind	-0.8 m/s	velocity	5.03	8.16	8.23	8.31	8.46	8.16	8.23	7.95	7.88	7.68	8.82	7.61			8.23	8.28	7.83
Guo Zhongjie (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)			CAA Hurdle Development (2019)																
date	24-Aug-19	time	2.73	3.80	4.90	6.00	7.11	8.24	9.37	10.52	11.68	12.88		14.46	8 / 7				
reaction time	0.226	interval		1.07	1.10	1.10	1.11	1.13	1.13	1.15	1.16	1.20	1.58				3.27	3.37	3.51
wind	-0.1 m/s	velocity	5.03	8.54	8.31	8.31	8.23	8.09	8.09	7.95	7.88	7.62	8.87	7.61			8.39	8.14	7.81
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)			Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season																
date	09-May-21	time	2.59	3.66	4.74	5.81	6.90	7.99	9.09	10.21	11.33	12.73		14.46	1 / 9				
reaction time	0.153	interval		1.07	1.08	1.07	1.09	1.09	1.10	1.12	1.12	1.40	1.73				3.22	3.28	3.64
wind	-0.8 m/s	velocity	5.30	8.54	8.46	8.54	8.39	8.39	8.31	8.16	8.16	6.53	8.10	7.61			8.52	8.36	7.53
Moloney, Ashley (AUS) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			Henson (2024) - Athlete First: 2022 year end hurdle report																
date	24-Jul-22	time	2.68	3.78	4.90	6.00	7.14	8.28	9.42	10.58	11.73	12.92		14.46	5 / 5				
reaction time	0.125	interval	7 steps	1.10	1.12	1.10	1.14	1.14	1.14	1.16	1.15	1.19	1.54				3.32	3.42	3.50
wind	0.4 m/s	velocity	5.12	8.31	8.16	8.31	8.02	8.02	8.02	7.88	7.95	7.68	9.10	7.61			8.26	8.02	7.83
Tateyama, Masama (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)			Takashima (2023) - national high school sports festival - biomechanics data																
date	06-Aug-23	time	2.73	3.84	4.96	6.09	7.24	8.34	9.48	10.62	11.78	12.96		14.46	6 / 8				
reaction time	0.171	interval		1.11	1.12	1.13	1.15	1.10	1.14	1.14	1.16	1.18	1.50				3.36	3.39	3.48
wind	0.8 m/s	velocity	5.03	8.23	8.16	8.09	7.95	8.31	8.02	8.02	7.88	7.75	9.35	7.61			8.16	8.09	7.88
Stavang, Eivind (NOR) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Windsprint (Sundsvall, SWE)			Blomkvist (2012) - www.sub13.se																
date	17-Jun-12	time	2.72	3.85	4.99	6.12	7.23	8.36	9.49	10.64	11.79	12.95		14.47	2 / 6				
reaction time		interval		1.13	1.14	1.13	1.11	1.13	1.13	1.15	1.15	1.16	1.52				3.40	3.37	3.46
wind	1.1 m/s	velocity	5.04	8.09	8.02	8.09	8.23	8.09	8.09	7.95	7.95	7.88	9.22	7.60			8.06	8.14	7.92
Inui, Daisuke (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)			Kobayashi (2019) - research on athlete performance and technique- 2019 data book																
date	28-Apr-19	time	2.69	3.83	4.92	6.02	7.13	8.27	9.41	10.56	11.71	12.91		14.47	7 / 7				
reaction time		interval		1.14	1.09	1.10	1.11	1.14	1.14	1.15	1.15	1.20	1.56				3.33	3.39	3.50
wind	1.4 m/s	velocity	5.10	8.02	8.39	8.31	8.23	8.02	8.02	7.95	7.95	7.62	8.99	7.60			8.23	8.09	7.83
Fujiwara, Koki (JPN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (99cm)			Kota (2019) - 72nd high school champs: JAF scientific committee - biomechanics data																
date	08-Aug-19	time	2.71	3.84	4.93	6.01	7.10	8.26	9.37	10.54	11.71	12.93		14.47	3 / 4				
reaction time		interval		1.13	1.09	1.08	1.09	1.16	1.11	1.17	1.17	1.22	1.54				3.30	3.36	3.56
wind	-3.0 m/s	velocity	5.06	8.09	8.39	8.46	8.39	7.88	8.23	7.81	7.81	7.49	9.10	7.60			8.31	8.16	7.70
Ziemek, Zachery (USA) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			Henson (2024) - Athlete First: 2022 year end hurdle report																
date	24-Jul-22	time	2.76	3.87	5.00	6.16	7.25	8.40	9.50	10.67	11.83	13.00		14.47	3 / 2				
reaction time	0.116	interval	7 steps	1.11	1.13	1.16	1.09	1.15	1.10	1.17	1.16	1.17	1.47				3.40	3.34	3.50
wind	1.5 m/s	velocity	4.97	8.23	8.09	7.88	8.39	7.95	8.31	7.81	7.88	7.81	9.54	7.60			8.06	8.21	7.83
Victor, Lindon (GRN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			Henson (2024) - Athlete First: 2023 year end hurdle report																
date	26-Aug-23	time	2.70	3.83	5.00	6.10	7.26	8.38	9.50	10.65	11.81	13.01		14.47	7 / 1				
reaction time	0.149	interval	7 steps	1.13	1.17	1.10	1.16	1.12	1.12	1.15	1.16	1.20	1.46				3.40	3.40	3.51
wind	0.2 m/s	velocity	5.08	8.09	7.81	8.31	7.88	8.16	8.16	7.95	7.88	7.62	9.60	7.60			8.06	8.06	7.81
Rooth, Markus (NOR) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			Henson (2024) - Athlete First: 2023 year end hurdle report																
date	26-Aug-23	time	2.63	3.75	4.85	5.94	7.02	8.16	9.33	10.52	11.67	12.85		14.47	8 / 5				
reaction time	0.156	interval		1.12	1.10	1.09	1.08	1.14	1.17	1.19	1.15	1.18	1.62				3.31	3.39	3.52
wind	0.1 m/s	velocity	5.22	8.16	8.31	8.39	8.46	8.02	7.81	7.68	7.95	7.75	8.65	7.60			8.28	8.09	7.79
Whitely, Aaron (USA)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)			USATF Women's Sprint Development (2003)																
date	21-Jun-03	time	2.68	3.77	4.90	5.96	7.07	8.19	9.33	10.46	11.64	12.82		14.48	3 / 6				
reaction time		interval		1.09	1.13	1.06	1.11	1.12	1.14	1.13	1.18	1.18	1.66				3.28	3.37	3.49
wind	-2.4 m/s	velocity	5.12	8.39	8.09	8.62	8.23	8.16	8.02	8.09	7.75	7.75	8.45	7.60			8.36	8.14	7.86

Askros, Rafael (SWE) (1981)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2010 Folsam GP (Sollentuna, SWE)															Blomkvist (2010) - www.sub13.se			
date	01-Jul-10	time	2.60	3.73	4.83	5.93	7.03	8.15	9.27	10.40	11.56	12.76		14.48	1 / 7			
reaction time		interval		1.13	1.10	1.10	1.10	1.12	1.12	1.13	1.16	1.20	1.72			3.33	3.34	3.49
wind	0.4 m/s	velocity	5.28	8.09	8.31	8.31	8.31	8.16	8.16	8.09	7.88	7.62	8.15	7.60		8.23	8.21	7.86
Abe, Ryoto (JPN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)															Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics			
date	02-Aug-17	time	2.65	3.76	4.92	6.03	7.20	8.34	9.48	10.63	11.82	12.99		14.48	8 / 5			
reaction time	0.144	interval		1.11	1.16	1.11	1.17	1.14	1.14	1.15	1.19	1.17	1.49			3.38	3.45	3.51
wind	-0.7 m/s	velocity	5.18	8.23	7.88	8.23	7.81	8.02	8.02	7.95	7.68	7.81	9.41	7.60		8.11	7.95	7.81
Li Jiming (CHN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)															CAA Hurdle Development (2019)			
date	13-Apr-19	time	2.70	3.80	4.90	6.00	7.10	8.22	9.34	10.47	11.64	12.83		14.48	1 / 5			
reaction time	0.179	interval		1.10	1.10	1.10	1.10	1.12	1.12	1.13	1.17	1.19	1.65			3.30	3.34	3.49
wind	0.1 m/s	velocity	5.08	8.31	8.31	8.31	8.31	8.16	8.16	8.09	7.81	7.68	8.50	7.60		8.31	8.21	7.86
Pan Zijie (CHN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)															CAA Hurdle Development (2019)			
date	23-Aug-19	time	2.67	3.80	4.90	6.01	7.12	8.24	9.36	10.52	11.67	12.86		14.48	7 / 2			
reaction time	0.195	interval		1.13	1.10	1.11	1.11	1.12	1.12	1.16	1.15	1.19	1.62			3.34	3.35	3.50
wind	-0.2 m/s	velocity	5.14	8.09	8.31	8.23	8.23	8.16	8.16	7.88	7.95	7.68	8.65	7.60		8.21	8.19	7.83
Sýkora, Jiří (CZE) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)															Henson (2024) - Athlete First: 2021 year end hurdle report			
date	05-Aug-21	time	2.75	3.86	5.03	6.15	7.25	8.38	9.53	10.66	11.81	12.94		14.48	8 / 3			
reaction time	0.160	interval		1.11	1.17	1.12	1.10	1.13	1.15	1.13	1.15	1.13	1.54			3.40	3.38	3.41
wind	0.0 m/s	velocity	4.99	8.23	7.81	8.16	8.31	8.09	7.95	8.09	7.95	8.09	9.10	7.60		8.06	8.11	8.04
Taue, Shun (JPN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - FINAL - 2022 Japanese Multi-Event National Championships (Akita, JPN)															Takefu (2023) - performance analysis of decathlon athletes in the 2022 season			
date	05-Jun-22	time	2.72	3.87	4.99	6.09	7.23	8.35	9.49	10.65	11.81	12.99		14.48	7 / 1			
reaction time		interval		1.15	1.12	1.10	1.14	1.12	1.14	1.16	1.16	1.18	1.49			3.37	3.40	3.50
wind	-2.3 m/s	velocity	5.04	7.95	8.16	8.31	8.02	8.16	8.02	7.88	7.88	7.75	9.41	7.60		8.14	8.06	7.83
Hon, Brandon (USA) (1979)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2007 USATF National Championships (Indianapolis, IN)															USATF Men's Hurdle Development (2007)			
date	23-Jun-07	time	2.74	3.85	4.95	6.06	7.14	8.22	9.32	10.46	11.64	12.90		14.49	7 / 8			
reaction time		interval		1.11	1.10	1.11	1.08	1.08	1.10	1.14	1.18	1.26	1.59			3.32	3.26	3.58
wind	-1.9 m/s	velocity	5.01	8.23	8.31	8.23	8.46	8.46	8.31	8.02	7.75	7.25	8.82	7.59		8.26	8.41	7.66
Holm, Jonathan (SWE) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL 2 - 2017 Windsprint (Sundsvall, SWE)															(2017) - www.windsprint/Splittider/			
date	30-Jul-17	time	2.69	3.79	4.89	5.98	7.07	8.19	9.28	10.38	11.64	12.91		14.49	1 / 2			
reaction time		interval		1.10	1.10	1.09	1.09	1.12	1.09	1.10	1.26	1.27	1.58			3.29	3.30	3.63
wind	1.0 m/s	velocity	5.10	8.31	8.31	8.39	8.39	8.16	8.39	8.31	7.25	7.20	8.87	7.59		8.33	8.31	7.55
Jiang Wei (CHN) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)															CAA Hurdle Development (2021)			
date	25-Jun-21	time	2.69	3.82	4.97	6.09	7.21	8.31	9.43	10.56	11.73	12.90		14.49	4 / 5			
reaction time	0.162	interval		1.13	1.15	1.12	1.12	1.10	1.12	1.13	1.17	1.17	1.59			3.40	3.34	3.47
wind	-0.2 m/s	velocity	5.10	8.09	7.95	8.16	8.16	8.31	8.16	8.09	7.81	7.81	8.82	7.59		8.06	8.21	7.90
Uibo, Maicel (EST) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															Henson (2024) - Athlete First: 2022 year end hurdle report			
date	24-Jul-22	time	2.74	3.90	5.03	6.13	7.23	8.40	9.50	10.65	11.80	13.00		14.49	2 / 3			
reaction time	0.166	interval	7 steps	1.16	1.13	1.10	1.10	1.17	1.10	1.15	1.15	1.20	1.49			3.39	3.37	3.50
wind	1.5 m/s	velocity	5.01	7.88	8.09	8.31	8.31	7.81	8.31	7.95	7.95	7.62	9.41	7.59		8.09	8.14	7.83
Tørring, Jesper (DEN) (1947)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 1972 Olympic Games (Munich, GER)															Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften			
date	03-Sep-72	time	2.6			6.0								14.50	1 / 5			
reaction time		interval				3.4										3.38		
wind	0.9 m/s	velocity	5.34			8.11								7.59		8.11		
Nakamura, Akihiko (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 1 - 2011 Asian Championships (Kobe, JPN)															Takeo (2014) - decathletes sprint ability & relationship of individual event performance			
date	08-Jul-11	time	2.70	3.83	4.95	6.07	7.21	8.34	9.48	10.66	11.82	13.00		14.50	1 / 1			
reaction time		interval		1.13	1.12	1.12	1.14	1.13	1.14	1.18	1.16	1.18	1.50			3.37	3.41	3.52
wind	0.3 m/s	velocity	5.08	8.09	8.16	8.16	8.02	8.09	8.02	7.75	7.88	7.75	9.35	7.59		8.14	8.04	7.79

Kato, Takuma (JPN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (99cm)										Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015								
date	02-Aug-15	time	2.69	3.83	4.96	6.08	7.22	8.35	9.48	10.64	11.80	12.97		14.50	3 / 6			
reaction time		interval		1.14	1.13	1.12	1.14	1.13	1.13	1.16	1.16	1.17	1.53			3.39	3.40	3.49
wind	1.4 m/s	velocity	5.10	8.02	8.09	8.16	8.02	8.09	8.09	7.88	7.88	7.81	9.16	7.59		8.09	8.06	7.86
Yan Chenyu (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 National Grand Prix (Chengdu, CHN)										CAA Hurdle Development (2021)								
date	02-Apr-21	time	2.74	3.88	5.00	6.14	7.27	8.40	9.54	10.68	11.81	12.94		14.50	8 / 5			
reaction time	0.192	interval		1.14	1.12	1.14	1.13	1.13	1.14	1.14	1.13	1.13	1.56			3.40	3.40	3.40
wind	-0.1 m/s	velocity	5.01	8.02	8.16	8.02	8.09	8.09	8.02	8.02	8.09	8.09	8.99	7.59		8.06	8.06	8.06
Maruyama, Yuma (JPN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2021 Japanese Multi-Event National Championships (Nagano, JPN)										Matsubayashi (2021) - 110m hurdling race analysis of decathlon athletes in the 2021 season								
date	13-Jun-21	time	2.74	3.91	5.05	6.17	7.27	8.40	9.51	10.66	11.80	12.95		14.50	6 / 3			
reaction time	0.170	interval		1.17	1.14	1.12	1.10	1.13	1.11	1.15	1.14	1.15	1.55			3.43	3.34	3.44
wind	-0.9 m/s	velocity	5.01	7.81	8.02	8.16	8.31	8.09	8.23	7.95	8.02	7.95	9.05	7.59		7.99	8.21	7.97
Jiles-Tindall, Julius (USA) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)										USATF Women's Sprint Development (2003)								
date	21-Jun-03	time	2.70	3.84	4.94	6.04	7.14	8.29	9.41	10.54	11.71	12.89		14.51	2 / 7			
reaction time	0.148	interval		1.14	1.10	1.10	1.10	1.15	1.12	1.13	1.17	1.18	1.62			3.34	3.37	3.48
wind	-2.4 m/s	velocity	5.08	8.02	8.31	8.31	8.31	7.95	8.16	8.09	7.81	7.75	8.65	7.58		8.21	8.14	7.88
Vos, Ingmar (NED) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 5 - 2009 IAAF World Championships (Berlin, GER)										Graubner (2009) - biomechanical analyses at the 12th IAAF world championships								
date	20-Aug-09	time	2.76	3.91	5.04	6.16	7.28	8.40	9.52	10.66	11.80	12.99		14.51	4 / 1			
reaction time	0.178	interval		1.15	1.13	1.12	1.12	1.12	1.12	1.14	1.14	1.19	1.52	PB		3.40	3.36	3.47
wind	0.3 m/s	velocity	4.97	7.95	8.09	8.16	8.16	8.16	8.16	8.02	8.02	7.68	9.22	7.58		8.06	8.16	7.90
Tuček, Martin (CZE) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)										Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships								
date	28-Jun-14	time	2.68	3.82	4.94	6.07	7.20	8.31	9.42	10.56	11.70	12.91		14.51	6 / 2			
reaction time	0.148	interval		1.14	1.12	1.13	1.13	1.11	1.11	1.14	1.14	1.21	1.60			3.39	3.35	3.49
wind	-2.2 m/s	velocity	5.12	8.02	8.16	8.09	8.09	8.23	8.23	8.02	8.02	7.55	8.76	7.58		8.09	8.19	7.86
Liu Junqian (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)										CAA Hurdle Development (2021)								
date	08-Apr-21	time	2.68	3.80	4.92	6.04	7.16	8.28	9.40	10.52	11.72	12.90		14.51	8 / 7			
reaction time		interval		1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.20	1.18	1.61			3.36	3.36	3.50
wind	-0.1 m/s	velocity	5.12	8.16	8.16	8.16	8.16	8.16	8.16	8.16	7.62	7.75	8.71	7.58		8.16	8.16	7.83
Ziemek, Zachery (USA) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)										Henson (2024) - Athlete First: 2021 year end hurdle report								
date	05-Aug-21	time	2.75	3.90	4.97	6.08	7.20	8.39	9.52	10.64	11.80	12.98		14.51	6 / 2			
reaction time	0.181	interval	7 steps	1.15	1.07	1.11	1.12	1.19	1.13	1.12	1.16	1.18	1.53			3.33	3.44	3.46
wind	0.1 m/s	velocity	4.99	7.95	8.54	8.23	8.16	7.68	8.09	8.16	7.88	7.75	9.16	7.58		8.23	7.97	7.92
Õiglane, Janek (EST) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)										Henson (2024) - Athlete First: 2023 year end hurdle report								
date	26-Aug-23	time	2.70	3.83	5.00	6.10	7.26	8.40	9.58	10.70	11.85	12.98		14.51	6 / 2			
reaction time	0.143	interval		1.13	1.17	1.10	1.16	1.14	1.18	1.12	1.15	1.13	1.53			3.40	3.48	3.40
wind	0.2 m/s	velocity	5.08	8.09	7.81	8.31	7.88	8.02	7.75	8.16	7.95	8.09	9.16	7.58		8.06	7.88	8.06
Neugebauer, Leo (GER) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)										Paris 2024 Olympic Games - Results Book (2024)								
date	03-Aug-24	time	2.53	3.68	4.81	5.91	7.06	8.18	9.32	10.45	11.61	12.78		14.51	2 / 5			
reaction time	0.134	interval	7 steps	1.15	1.13	1.10	1.15	1.12	1.14	1.13	1.16	1.17	1.73			3.38	3.41	3.46
wind	0.2 m/s	velocity	5.42	7.95	8.09	8.31	7.95	8.16	8.02	8.09	7.88	7.81	8.10	7.58		8.11	8.04	7.92
English, Andre (USA) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)										USATF Women's Sprint Development (2003)								
date	22-Jun-03	time	2.63	3.75	4.89	6.01	7.12	8.24	9.39	10.54	11.69	12.85		14.52	9 / 8			
reaction time		interval		1.12	1.14	1.12	1.11	1.12	1.15	1.15	1.15	1.16	1.67			3.38	3.38	3.46
wind	-0.4 m/s	velocity	5.22	8.16	8.02	8.16	8.23	8.16	7.95	7.95	7.95	7.88	8.40	7.58		8.11	8.11	7.92
Shaker, Amir (SWE) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Windsprint (Sundsvall, SWE)										Blomkvist (2012) - www.sub13.se								
date	17-Jun-12	time	2.76	3.87	4.97	6.06	7.15	8.28	9.42	10.58	11.74	12.91		14.52	8 / 7			
reaction time		interval		1.11	1.10	1.09	1.09	1.13	1.14	1.16	1.16	1.17	1.61			3.30	3.36	3.49
wind	1.1 m/s	velocity	4.97	8.23	8.31	8.39	8.39	8.09	8.02	7.88	7.88	7.81	8.71	7.58		8.31	8.16	7.86
Doležal, Jan (CZE) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)

date	28-Jun-14	time	2.75	3.87	4.97	6.07	7.19	8.33	9.45	10.60	11.77	12.92	14.52	3 / 1
reaction time	0.254	interval		1.12	1.10	1.10	1.12	1.14	1.12	1.15	1.17	1.15	1.60	3.32 3.38 3.47
wind	-2.5 m/s	velocity	4.99	8.16	8.31	8.31	8.16	8.02	8.16	7.95	7.81	7.95	8.76	7.58 8.26 8.11 7.90

*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships***Doležal, Jan (CZE) (1996)**

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)															
date	28-Jun-14	time	2.74	3.89	4.99	6.09	7.20	8.34	9.45	10.58	11.75	12.96	14.52	3 / 3	
reaction time	0.157	interval		1.15	1.10	1.10	1.11	1.14	1.11	1.13	1.17	1.21	1.56	3.35 3.36 3.51	
wind	-2.2 m/s	velocity	5.01	7.95	8.31	8.31	8.23	8.02	8.23	8.09	7.81	7.55	8.99	7.58 8.19 8.16 7.81	

*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships***Umemura, Taichi (JPN) (1996)**

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Japanese National High School Championships (Kofu, JPN) (99cm)															
date	03-Aug-14	time	2.74	3.89	4.98	6.12	7.22	8.36	9.51	10.67	11.85	13.04	14.52	5 / 2	
reaction time		interval		1.15	1.09	1.14	1.10	1.14	1.15	1.16	1.18	1.19	1.48	3.38 3.39 3.53	
wind	-2.4 m/s	velocity	5.01	7.95	8.39	8.02	8.31	8.02	7.95	7.88	7.75	7.68	9.47	7.58 8.11 8.09 7.77	

*Yanagiya (2014) - research on athlete performance and technique- 2014 data book***Shinyo, Morito (JPN)**

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Chiba Prefecture High School Championships (Chiba, JPN)															
date	22-Sep-16	time	2.82	3.97	5.10	6.22	7.35	8.46	9.61	10.75	11.88	13.06	14.52	5 / 1	
reaction time		interval		1.15	1.13	1.12	1.13	1.11	1.15	1.14	1.13	1.18	1.46	3.40 3.39 3.45	
wind	1.8 m/s	velocity	4.87	7.95	8.09	8.16	8.09	8.23	7.95	8.02	8.09	7.75	9.60	7.58 8.06 8.09 7.95	

*(2016.10.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en***Togochi, Hiromasa (JPN)**

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)															
date	02-Aug-17	time	2.77	3.90	5.05	6.18	7.32	8.43	9.56	10.71	11.84	13.03	14.52	9 / 6	
reaction time	0.149	interval		1.13	1.15	1.13	1.14	1.11	1.13	1.15	1.13	1.19	1.49	3.41 3.38 3.47	
wind	-0.7 m/s	velocity	4.95	8.09	7.95	8.09	8.02	8.23	8.09	7.95	8.09	7.68	9.41	7.58 8.04 8.11 7.90	

*Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics***Lu Wei (CHN) (2000)**

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)															
date	13-Apr-19	time	2.77	3.90	5.02	6.11	7.22	8.36	9.50	10.67	11.82	12.98	14.52	7 / 2	
reaction time	0.170	interval		1.13	1.12	1.09	1.11	1.14	1.14	1.17	1.15	1.16	1.54	PB 3.34 3.39 3.48	
wind	0.0 m/s	velocity	4.95	8.09	8.16	8.39	8.23	8.02	8.02	7.81	7.95	7.88	9.10	7.58 8.21 8.09 7.88	

*CAA Hurdle Development (2019)***Ikedu, Daisuke (JPN) (1986)**

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2009 Japanese National Championships (Hiroshima, JPN)															
date	26-Jun-09	time	2.50	3.64	4.79	5.91	7.04	8.18	9.32	10.48	11.64	12.82	14.53	4 / 1	
reaction time		interval		1.14	1.15	1.12	1.13	1.14	1.14	1.16	1.16	1.18	1.71	3.41 3.41 3.50	
wind	1.6 m/s	velocity	5.49	8.02	7.95	8.16	8.09	8.02	8.02	7.88	7.88	7.75	8.20	7.57 8.04 8.04 7.83	

*Hisashi (2010) - the run performance analysis in the decathlon sprint events***Kaul, Niklas (GER) (1998)**

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)															
date	03-Aug-24	time	2.63	3.79	4.91	6.02	7.13	8.24	9.36	10.49	11.62	12.78	14.53	5 / 6	
reaction time	0.158	interval		1.16	1.12	1.11	1.11	1.11	1.12	1.13	1.13	1.16	1.75	3.39 3.34 3.42	
wind	0.2 m/s	velocity	5.22	7.88	8.16	8.23	8.23	8.23	8.16	8.09	8.09	7.88	8.01	7.57 8.09 8.21 8.02	

*Paris 2024 Olympic Games - Results Book (2024)***Cleve, Moritz (GER) (1987)**

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)															
date	20-Aug-09	time	2.77	3.87	5.05	6.17	7.28	8.37	9.49	10.67	11.81	12.99	14.54	5 / 6	
reaction time	0.162	interval		1.10	1.18	1.12	1.11	1.09	1.12	1.18	1.14	1.18	1.55	3.40 3.32 3.50	
wind	-0.1 m/s	velocity	4.95	8.31	7.75	8.16	8.23	8.39	8.16	7.75	8.02	7.75	9.05	7.57 8.06 8.26 7.83	

*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships***Kavka, Tomáš (CZE) (1989)**

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Czech Republic National Championships (Tábor, CZE)															
date	15-Jun-13	time	2.80	3.92	5.05	6.13	7.24	8.38	9.50	10.65	11.79	12.95	14.54	6 / 5	
reaction time	0.161	interval		1.12	1.13	1.08	1.11	1.14	1.12	1.15	1.14	1.16	1.59	3.33 3.37 3.45	
wind	0.4 m/s	velocity	4.90	8.16	8.09	8.46	8.23	8.02	8.16	7.95	8.02	7.88	8.82	7.57 8.23 8.14 7.95	

*Feher (2013) - Final report from the men's & women's Czech Republic national championships***Gustafsson, Petter (SWE) (1994)**

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Windsprint (Sundsvall, SWE)															
date	30-Jul-17	time	2.68	3.81	4.94	6.07	7.22	8.36	9.51	10.69	11.86	13.00	14.54	/ 3	
reaction time		interval		1.13	1.13	1.13	1.15	1.14	1.15	1.18	1.17	1.14	1.54	3.39 3.44 3.49	
wind	1.0 m/s	velocity	5.12	8.09	8.09	8.09	7.95	8.02	7.95	7.75	7.81	8.02	9.10	7.57 8.09 7.97 7.86	

*(2017) - www.windsprint/Splittider/***Hiraga, Kentaro (JPN) (1999)**

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)															
date	02-Aug-17	time	2.70	3.83	4.96	6.09	7.25	8.35	9.49	10.67	11.83	13.03	14.54	2 / 7	
reaction time	0.156	interval		1.13	1.13	1.13	1.16	1.10	1.14	1.18	1.16	1.20	1.51	3.39 3.40 3.54	
wind	-0.7 m/s	velocity	5.08	8.09	8.09	8.09	7.88	8.31	8.02	7.75	7.88	7.62	9.28	7.57 8.09 8.06 7.75	

*Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics***Yang Haoran (CHN) (2001)**

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 National Grand Prix (Chengdu, CHN)															

CAA Hurdle Development (2021)

date	02-Apr-21	time	2.70	3.82	4.94	6.10	7.22	8.32	9.48	10.60	11.78	12.96		14.54	5 / 3			
reaction time	0.162	interval		1.12	1.12	1.16	1.12	1.10	1.16	1.12	1.18	1.18	1.58	PB		3.40	3.38	3.48
wind	0.3 m/s	velocity	5.08	8.16	8.16	7.88	8.16	8.31	7.88	8.16	7.75	7.75	8.87	7.81		8.06	8.11	7.88
Okuda, Keisuke (JPN) (1996)																		
Decathlon - Heat 2 - 2021 Japanese Multi-Event National Championships (Nagano, JPN) Matsubayashi (2021) - 110m hurdling race analysis of decathlon athletes in the 2021 season																		
date	13-Jun-21	time	2.74	3.88	5.02	6.15	7.26	8.41	9.56	10.71	11.86	13.06		14.54	2 / 1			
reaction time	0.151	interval		1.14	1.14	1.13	1.11	1.15	1.15	1.15	1.15	1.20	1.48			3.41	3.41	3.50
wind	-0.9 m/s	velocity	5.01	8.02	8.02	8.09	8.23	7.95	7.95	7.95	7.95	7.62	9.47	7.57		8.04	8.04	7.83
Yang Haoran (CHN) (2001)																		
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN) CAA Hurdle Development (2021)																		
date	25-Jun-21	time	2.71	3.83	4.94	6.06	7.20	8.35	9.50	10.67	11.83	12.99		14.54	7 / 8			
reaction time	0.142	interval		1.12	1.11	1.12	1.14	1.15	1.15	1.17	1.16	1.16	1.55			3.35	3.44	3.49
wind	-1.0 m/s	velocity	5.06	8.16	8.23	8.16	8.02	7.95	7.95	7.81	7.88	7.88	9.05	7.57		8.19	7.97	7.86
Huan Jiaxing (CHN) (2001)																		
Heat 3 - 2021 Chinese National Championships (Chongqing, CHN) CAA Hurdle Development (2021)																		
date	25-Jun-21	time	2.69	3.82	4.95	6.09	7.22	8.34	9.48	10.64	11.80	12.96		14.54	9 / 8			
reaction time	0.172	interval		1.13	1.13	1.14	1.13	1.12	1.14	1.16	1.16	1.16	1.58			3.40	3.39	3.48
wind	0.5 m/s	velocity	5.10	8.09	8.09	8.02	8.09	8.16	8.02	7.88	7.88	7.88	8.87	7.57		8.06	8.09	7.88
Taue, Shun (JPN) (1997)																		
Decathlon - Heat 1 - 2022 Michitaka Kinami Memorial (Osaka, JPN) Takefu (2023) - performance analysis of decathlon athletes in the 2022 season																		
date	01-May-22	time	2.75	3.90	5.03	6.16	7.28	8.40	9.53	10.69	11.84	13.02		14.54	4 / 1			
reaction time	0.139	interval		1.15	1.13	1.13	1.12	1.12	1.13	1.16	1.15	1.18	1.52			3.41	3.37	3.49
wind	0.0 m/s	velocity	4.99	7.95	8.09	8.09	8.16	8.16	8.09	7.88	7.95	7.75	9.22	7.57		8.04	8.14	7.86
Askros, Rafael (SWE) (1981)																		
B FINAL - 2010 Folksam GP (Sollentuna, SWE) Blomkvist (2010) - www.sub13.se																		
date	01-Jul-10	time	2.56	3.67	4.77	5.88	6.99	8.10	9.23	10.38	11.56	12.74		14.55	1 / 1			
reaction time		interval		1.11	1.10	1.11	1.11	1.11	1.13	1.15	1.18	1.18	1.81			3.32	3.35	3.51
wind	0.4 m/s	velocity	5.36	8.23	8.31	8.23	8.23	8.23	8.09	7.95	7.75	7.75	7.75	7.56		8.26	8.19	7.81
Blaschke, Joakim (SWE) (1977)																		
FINAL - 2010 Folksam GP (Sollentuna, SWE) Blomkvist (2010) - www.sub13.se																		
date	01-Jul-10	time	2.53	3.65	4.79									14.55	7 / 8			
reaction time		interval		1.12	1.14													
wind	0.4 m/s	velocity	5.42	8.16	8.02									7.56				
Večera, Jindrich (CZE) (1995)																		
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm) Feher (2014) - Final report from the U18 & U20 Czech Republic national championships																		
date	28-Jun-14	time	2.75	3.85	4.99	6.09	7.19	8.30	9.45	10.59	11.74	12.92		14.55	3 / 1			
reaction time	0.184	interval		1.10	1.14	1.10	1.10	1.11	1.15	1.14	1.15	1.18	1.63			3.34	3.36	3.47
wind	-2.9 m/s	velocity	4.99	8.31	8.02	8.31	8.31	8.23	7.95	8.02	7.95	7.75	8.60	7.56		8.21	8.16	7.90
Večera, Jindrich (CZE) (1995)																		
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm) Feher (2014) - Final report from the U18 & U20 Czech Republic national championships																		
date	28-Jun-14	time	2.70	3.83	4.94	6.06	7.17	8.28	9.43	10.56	11.73	12.92		14.55	5 / 4			
reaction time	0.171	interval		1.13	1.11	1.12	1.11	1.11	1.15	1.13	1.17	1.19	1.63			3.36	3.37	3.49
wind	-2.2 m/s	velocity	5.08	8.09	8.23	8.16	8.23	8.23	7.95	8.09	7.81	7.68	8.60	7.56		8.16	8.14	7.86
Kanai, Nao (JPN) (1997)																		
FINAL - 2014 Japanese National High School Championships (Kofu, JPN) (99cm) Yanagiya (2014) - research on athlete performance and technique- 2014 data book																		
date	03-Aug-14	time	2.74	3.88	4.99	6.11	7.23	8.36	9.50	10.65	11.81	13.00		14.55	6 / 3			
reaction time		interval		1.14	1.11	1.12	1.12	1.13	1.14	1.15	1.16	1.19	1.55			3.37	3.39	3.50
wind	-2.4 m/s	velocity	5.01	8.02	8.23	8.16	8.16	8.09	8.02	7.95	7.88	7.68	9.05	7.56		8.14	8.09	7.83
Si Zhengdong (CHN) (1997)																		
Heat 5 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN) CAA Hurdle Development (2019)																		
date	13-Apr-19	time	2.72	3.86	5.00	6.14	7.24	8.34	9.46	10.59	11.76	12.94		14.55	5 / 3			
reaction time	0.197	interval		1.14	1.14	1.14	1.10	1.10	1.12	1.13	1.17	1.18	1.61			3.42	3.32	3.48
wind	0.6 m/s	velocity	5.04	8.02	8.02	8.02	8.31	8.31	8.16	8.09	7.81	7.75	8.71	7.56		8.02	8.26	7.88
Zhang Jinzhao (CHN) (1999)																		
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN) CAA Hurdle Development (2019)																		
date	08-Jul-19	time	2.82	3.95	5.06	6.17	7.29	8.41	9.54	10.69	11.85	13.03		14.55	4 / 6			
reaction time	0.233	interval		1.13	1.11	1.11	1.12	1.12	1.13	1.15	1.16	1.18	1.52	PB		3.35	3.37	3.49
wind	-0.5 m/s	velocity	4.87	8.09	8.23	8.23	8.16	8.16	8.09	7.95	7.88	7.75	9.22	7.56		8.19	8.14	7.86
Li Xiaodong (CHN) (1995)																		
Decathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN) CAA Hurdle Development (2021)																		
date	27-Jun-21	time	2.73	3.90	5.02	6.14	7.27	8.39	9.52	10.68	11.84	13.01		14.55	7 / 1			

reaction time	0.154	interval	1.17	1.12	1.12	1.13	1.12	1.13	1.16	1.16	1.17	1.54			3.41	3.38	3.49
wind	0.5 m/s	velocity	5.03	7.81	8.16	8.16	8.09	8.16	8.09	7.88	7.88	7.81	9.10	7.56	8.04	8.11	7.86

Erm, Johannes (EST) (1998)

m, Johannes (EST) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													Henson (2024) - Athlete First: 2021 year end hurdle report				
date	05-Aug-21	time	2.72	3.83	4.97	6.08	7.20	8.39	9.52	10.63	11.80	12.96	14.55	4 / 3			
reaction time	0.155	interval	7 steps	1.11	1.14	1.11	1.12	1.19	1.13	1.11	1.17	1.16	1.59		3.36	3.44	3.44
wind	0.1 m/s	velocity	5.04	8.23	8.02	8.23	8.16	7.68	8.09	8.23	7.81	7.88	8.82	7.56	8.16	7.97	7.97

Díaz, Yunior (CUB) (1987)

Zaz, Yuniør (CUB) (1987)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)										Graubner (2009) - biomechanical analyses at the 12th IAAF world championships							
date	20-Aug-09	time	2.69	3.86	5.00	6.13	7.26	8.38	9.51	10.86	11.86	13.08	14.56	6 / 2			
reaction time	0.155	interval		1.17	1.14	1.13	1.13	1.12	1.13	1.35	1.00	1.22	1.48		3.44	3.38	3.57
wind	0.3 m/s	velocity	5.10	7.81	8.02	8.09	8.09	8.16	8.09	6.77	9.14	7.49	9.47	7.55	7.97	8.11	7.68

Sedláč, Václav (CZE) (1993)

Zedlák, Václav (CZE) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)									Feher (2013) - Final report from the men's & women's Czech Republic national championships								
date	15-Jun-13	time	2.75	3.91	5.03	6.13	7.26	8.38	9.52	10.67	11.84	13.00	14.56	4 / 1			
reaction time	0.131	interval		1.16	1.12	1.10	1.13	1.12	1.14	1.15	1.17	1.16	1.56		3.38	3.39	3.48
wind	-0.3 m/s	velocity	4.99	7.88	8.16	8.31	8.09	8.16	8.02	7.95	7.81	7.88	8.99	7.55	8.11	8.09	7.88

Gustafsson, Petter (SWE) (1994)

Justafsson, Petter (SWE) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL 2 - 2017 Windsprint (Sundsvall, SWE)															(2017) - www.windsprint/Splittider/		
date	30-Jul-17	time	2.65	3.77	4.90	6.05	7.18	8.37	9.52	10.66	11.85	13.05	14.56	/ 3			
reaction time		interval		1.12	1.13	1.15	1.13	1.19	1.15	1.14	1.19	1.20	1.51		3.40	3.47	3.53
wind	1.0 m/s	velocity	5.18	8.16	8.09	7.95	8.09	7.68	7.95	8.02	7.68	7.62	9.28	7.55	8.06	7.90	7.77

Hu Yufei (CHN) (1993)

Yu Yufei (CHN) (1993)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)														CAA Hurdle Development (2019)			
date	11-Jul-19	time	2.72	3.85	4.97	6.07	7.20	8.35	9.51	10.66	11.84	12.98	14.56	7 / 1			
reaction time	0.162	interval	7 steps	1.13	1.12	1.10	1.13	1.15	1.16	1.15	1.18	1.14	1.58		3.35	3.44	3.47
wind	-0.1 m/s	velocity	5.04	8.09	8.16	8.31	8.09	7.95	7.88	7.95	7.75	8.02	8.87	7.55	8.19	7.97	7.90

Bouraada, Larbi (ALG) (1988)

Duraada, Larbi (ALG) (1988)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 5 - 2009 IAAF World Championships (Berlin, GER)										Graubner (2009) - biomechanical analyses at the 12th IAAF world championships							
date	20-Aug-09	time	2.74	3.88	5.04	6.18	7.31	8.49	9.64	10.78	11.94	13.12	14.57	5 / 2			
reaction time	0.140	interval		1.14	1.16	1.14	1.13	1.18	1.15	1.14	1.16	1.18	1.45		3.44	3.46	3.48
wind	0.3 m/s	velocity	5.01	8.02	7.88	8.02	8.09	7.75	7.95	8.02	7.88	7.75	9.67	7.55	7.97	7.92	7.88

Blaschke, Joakim (SWE) (1977)

Aschke, Joakim (SWE) (1977)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2010 Swedish National Championships (Falun, SWE)															Blomkvist (2010) - www.sub13.se			
date	22-Aug-10	time	2.70	3.84	4.97	6.09	7.21	8.35	9.48	10.64	11.82	13.00	14.57	/ 3		3.39	3.39	3.52
reaction time		interval		1.14	1.13	1.12	1.12	1.14	1.13	1.16	1.18	1.18	1.57			3.39	3.39	3.52
wind	-0.7 m/s	velocity	5.08	8.02	8.09	8.16	8.16	8.02	8.09	7.88	7.75	7.75	8.93	7.55		8.09	8.09	7.79

Kopanyko, Serhiy (UKR) (1988)

Dnapanayko, Serhiy (UKR) (1988)													H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 1 - 2011 European Team Championships (Stockholm, SWE)													Blomkvist (2011) - www.sub13.se															
date		19-Jun-11		time	2.68	3.76	4.88	5.96	7.04	8.11	9.26	10.40	11.62	12.84	14.57		4 / 6								3.28	3.30	3.58	
reaction time		0.166		interval		1.08	1.12	1.08	1.08	1.07	1.15	1.14	1.22	1.22	1.73									8.36	8.31	7.66		
wind		-0.8 m/s		velocity	5.12	8.46	8.16	8.46	8.46	8.54	7.95	8.02	7.49	7.49	8.10	7.55												

Takahashi, Rui (JPN) (1997)

Akahashi, Rui (JPN) (1997)																	
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (99cm) Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015																	
date	02-Aug-15	time	2.73	3.86	5.00	6.13	7.28	8.46	9.57	10.75	11.93	13.04		14.57	7 / 7		
reaction time		interval		1.13	1.14	1.13	1.15	1.18	1.11	1.18	1.18	1.11	1.53		3.40	3.44	3.47
wind	1.4 m/s	velocity	5.03	8.09	8.02	8.09	7.95	7.75	8.23	7.75	7.75	8.23	9.16	7.55	8.06	7.97	7.90

Cao Jin (CHN) (1996)

Ao Jin (CHN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)														CAA Hurdle Development (2019)			
date	11-Jul-19	time	2.72	3.84	4.93	6.02	7.17	8.29	9.46	10.62	11.78	13.00	14.57	5 / 1			
reaction time	0.169	interval	7 steps	1.12	1.09	1.09	1.15	1.12	1.17	1.16	1.16	1.22	1.57		3.30	3.44	3.54
wind	-0.6 m/s	velocity	5.04	8.16	8.39	8.39	7.95	8.16	7.81	7.88	7.88	7.49	8.93	7.55	8.31	7.97	7.75

Chen Jie (CHN) (2002)

Ben Jie (CHN) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)														CAA Hurdle Development (2021)			
date	24-Apr-21	time	2.68	3.76	4.89	5.97	7.10	8.19	9.38	10.56	11.76	12.96	14.57	8 / 6			
reaction time	0.171	interval		1.08	1.13	1.08	1.13	1.09	1.19	1.18	1.20	1.20	1.61		3.29	3.41	3.58
wind	-0.3 m/s	velocity	5.12	8.46	8.09	8.46	8.09	8.39	7.68	7.75	7.62	7.62	8.71	7.55	8.33	8.04	7.66

Konno, Ryoma (JPN) (2004)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Onno, Ryoma (JPN) (2004)																	
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)		Kishima (2022) - national high school championships biomechanics data collection															
date	07-Aug-22	time	2.69	3.82	4.96	6.08	7.20	8.32	9.47	10.66	11.82	13.06	14.57	4 / 1			
reaction time	0.147	interval		1.13	1.14	1.12	1.12	1.12	1.15	1.19	1.16	1.24	1.51		3.39	3.39	3.59

wind	-3.8 m/s	velocity	5.10	8.09	8.02	8.16	8.16	8.16	7.95	7.68	7.88	7.37	9.28	7.55		8.09	8.09	7.64
Lukáš, Marek (CZE) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Czech Republic National Championships (Tábor, CZE)			Feher (2013) - Final report from the men's & women's Czech Republic national championships															
date	15-Jun-13	time	2.75	3.87	5.00	6.10	7.24	8.38	9.53	10.68	11.85	13.05		14.58	1 / 6			
reaction time	0.177	interval		1.12	1.13	1.10	1.14	1.14	1.15	1.15	1.17	1.20	1.53	PB		3.35	3.43	3.52
wind	0.4 m/s	velocity	4.99	8.16	8.09	8.31	8.02	8.02	7.95	7.95	7.81	7.62	9.16	7.54		8.19	7.99	7.79
Yashiro, Koki (JPN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Aichi Prefecture High School Meeting (Nagoya, JPN)			(2016.05.29) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	20-May-16	time	2.73	3.89	5.04	6.20	7.34	8.47	9.60	10.76	11.91	13.11		14.58	6 / 1			
reaction time		interval		1.16	1.15	1.16	1.14	1.13	1.13	1.16	1.15	1.20	1.47			3.47	3.40	3.51
wind	-0.7 m/s	velocity	5.03	7.88	7.95	7.88	8.02	8.09	8.09	7.88	7.95	7.62	9.54	7.54		7.90	8.06	7.81
Morita, Shunichi (JPN) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2017 Mito Invitational (Mito, JPN)			(2017) - tfdata-store.com/2017/05/06/post-423/															
date	05-May-17	time	2.75	3.89	5.02	6.15	7.28	8.40	9.53	10.69	11.86	13.04		14.58	3 / 5			
reaction time		interval		1.14	1.13	1.13	1.13	1.12	1.13	1.16	1.17	1.18	1.54			3.40	3.38	3.51
wind	0.6 m/s	velocity	4.99	8.02	8.09	8.09	8.09	8.16	8.09	7.88	7.81	7.75	9.10	7.54		8.06	8.11	7.81
Shi Guoxing (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)			CAA Hurdle Development (2019)															
date	23-Aug-19	time	2.81	3.94	5.06	6.17	7.34	8.48	9.62	10.76	11.92	13.08		14.58	5 / 3			
reaction time	0.195	interval		1.13	1.12	1.11	1.17	1.14	1.14	1.14	1.16	1.16	1.50			3.36	3.45	3.46
wind	-0.2 m/s	velocity	4.88	8.09	8.16	8.23	7.81	8.02	8.02	8.02	7.88	7.88	9.35	7.54		8.16	7.95	7.92
dos Santos, Felipe (BRA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			Henson (2024) - Athlete First: 2021 year end hurdle report															
date	05-Aug-21	time	2.72	3.88	4.95	6.07	7.20	8.32	9.48	10.63	11.85	13.05		14.58	8 / 7			
reaction time	0.172	interval	7 steps	1.16	1.07	1.12	1.13	1.12	1.16	1.15	1.22	1.20	1.53			3.35	3.41	3.57
wind	-1.0 m/s	velocity	5.04	7.88	8.54	8.16	8.09	8.16	7.88	7.95	7.49	7.62	9.16	7.54		8.19	8.04	7.68
Müller, Norman (GER) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)			Graubner (2009) - biomechanical analyses at the 12th IAAF world championships															
date	20-Aug-09	time	2.79	3.93	5.05	6.17	7.30	8.42	9.55	10.70	11.86	13.40		14.59	5 / 3			
reaction time	0.172	interval		1.14	1.12	1.12	1.13	1.12	1.13	1.15	1.16	1.54	1.19			3.38	3.38	3.85
wind	0.3 m/s	velocity	4.92	8.02	8.16	8.16	8.09	8.16	8.09	7.95	7.88	5.94	11.78	7.54		8.11	8.11	7.12
Kavka, Tomáš (CZE) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)			Feher (2013) - Final report from the men's & women's Czech Republic national championships															
date	15-Jun-13	time	2.81	3.98	5.08	6.19	7.32	8.45	9.58	10.70	11.87	13.03		14.59	5 / 2			
reaction time	0.161	interval		1.17	1.10	1.11	1.13	1.13	1.13	1.12	1.17	1.16	1.56			3.38	3.39	3.45
wind	-0.3 m/s	velocity	4.88	7.81	8.31	8.23	8.09	8.09	8.09	8.16	7.81	7.88	8.99	7.54		8.11	8.09	7.95
Tay, Marvin (SWE) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Windsprint (Sundsvall, SWE)			(2017) - www.windsprint/Splittider/															
date	30-Jul-17	time	2.68	3.79	4.89	6.01	7.12	8.25	9.41	10.56	11.72	12.93		14.59	1 / 4			
reaction time		interval		1.11	1.10	1.12	1.11	1.13	1.16	1.15	1.16	1.21	1.66			3.33	3.40	3.52
wind	1.0 m/s	velocity	5.12	8.23	8.31	8.16	8.23	8.09	7.88	7.95	7.88	7.55	8.45	7.54		8.23	8.06	7.79
Guo Zhongjie (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)			Henson (2018) - coaching observations															
date	15-Sep-18	time	2.70	3.80	4.92	6.00	7.15	8.31	9.46	10.61	11.78	13.00		14.59	4 / 7			
reaction time		interval		1.10	1.12	1.08	1.15	1.16	1.15	1.15	1.17	1.22	1.59			3.30	3.46	3.54
wind	0.7 m/s	velocity	5.08	8.31	8.16	8.46	7.95	7.88	7.95	7.95	7.81	7.49	8.82	7.54		8.31	7.92	7.75
Iwakiri, Yuki (JPN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Kagoshima Prefecture High School Meeting (Kagoshima, JPN)			(2016.06.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	28-May-16	time	2.78	3.94	5.07	6.19	7.32	8.45	9.59	10.75	11.91	13.10		14.60	3 / 1			
reaction time		interval		1.16	1.13	1.12	1.13	1.13	1.14	1.16	1.16	1.19	1.50			3.41	3.40	3.51
wind	0.0 m/s	velocity	4.94	7.88	8.09	8.16	8.09	8.09	8.02	7.88	7.88	7.68	9.35	7.53		8.04	8.06	7.81
Kubota, Kosuke (JPN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL A - 2016 Japanese Junior Olympics (Yokohama, JPN) (99cm)			(2016.10.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	30-Oct-16	time	2.72	3.84	4.96	6.10	7.24	8.37	9.52	10.67	11.82	12.99		14.60	7 / 1			
reaction time		interval		1.12	1.12	1.14	1.14	1.13	1.15	1.15	1.15	1.17	1.61			3.38	3.42	3.47
wind	0.1 m/s	velocity	5.04	8.16	8.16	8.02	8.02	8.09	7.95	7.95	7.95	7.81	8.71	7.53		8.11	8.02	7.90
Jiang Wei (CHN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)			CAA Hurdle Development (2019)															
date	23-Aug-19	time	2.72	3.87	4.99	6.11	7.26	8.39	9.51	10.68	11.84	13.04		14.60	3 / 4			
reaction time	0.200	interval	7 steps	1.15	1.12	1.12	1.15	1.13	1.12	1.17	1.16	1.20	1.56			3.39	3.40	3.53
wind	-0.2 m/s	velocity	5.04	7.95	8.16	8.16	7.95	8.09	8.16	7.81	7.88	7.62	8.99	7.53		8.09	8.06	7.77

Yang Zihao (CHN) (1998)																
Decathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																
date	27-Jun-21	time	2.72	3.89	5.04	6.17	7.32	8.44	9.56	10.73	11.91	13.08		14.63	8 / 2	
reaction time	0.172	interval		1.17	1.15	1.13	1.15	1.12	1.12	1.17	1.18	1.17	1.55		3.45	3.39
wind	0.5 m/s	velocity	5.04	7.81	7.95	8.09	7.95	8.16	8.16	7.81	7.75	7.81	9.05	7.52	7.95	8.09
Blaschke, Joakim (SWE) (1977)																
FINAL - 2008 Windsprint (Sundsvall, SWE)																
date	06-Jul-08	time		3.84			7.22			10.73				14.64	3 / 3	
reaction time		interval					3.38			3.51			3.91			
wind	0.5 m/s	velocity		5.95			8.11			7.81			8.26	7.51		
Carda, Jan (CZE) (1989)																
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)																
date	15-Jun-13	time	2.70	3.83	4.96	6.05	7.17	8.30	9.48	10.68	11.85	13.08		14.64	5 / 3	
reaction time	0.141	interval		1.13	1.13	1.09	1.12	1.13	1.18	1.20	1.17	1.23	1.56		3.35	3.43
wind	-0.6 m/s	velocity	5.08	8.09	8.09	8.39	8.16	8.09	7.75	7.62	7.81	7.43	8.99	7.51	8.19	7.99
Nakamura, Akihiko (JPN) (1990)																
Decathlon - Heat 1 - 2022 Michitaka Kinami Memorial (Osaka, JPN)																
date	01-May-22	time	2.79	3.95	5.09	6.22	7.36	8.50	9.63	10.78	11.94	13.11		14.64	9 / 2	
reaction time	0.147	interval		1.16	1.14	1.13	1.14	1.14	1.13	1.15	1.16	1.17	1.53		3.43	3.41
wind	0.0 m/s	velocity	4.92	7.88	8.02	8.09	8.02	8.02	8.09	7.95	7.88	7.81	9.16	7.51	7.99	8.04
Jiang Fan (CHN) (1990)																
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																
date	09-Apr-19	time	2.76	3.88	4.97	6.11	7.21	8.34	9.48	10.63	11.80	12.98		14.65	8 / 7	
reaction time	0.209	interval		1.12	1.09	1.14	1.10	1.13	1.14	1.15	1.17	1.18	1.67		3.35	3.37
wind	0.2 m/s	velocity	4.97	8.16	8.39	8.02	8.31	8.09	8.02	7.95	7.81	7.75	8.40	7.51	8.19	8.14
Omuro, Hideki (JPN) (1990)																
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)																
date	01-Jun-21	time	2.65	3.78	4.88	6.00	7.13	8.25	9.42	10.56	11.75	12.95		14.65	5 / 8	
reaction time	0.165	interval		1.13	1.10	1.12	1.13	1.12	1.17	1.14	1.19	1.20	1.70		3.35	3.42
wind	0.3 m/s	velocity	5.18	8.09	8.31	8.16	8.09	8.16	7.81	8.02	7.68	7.62	8.25	7.51	8.19	8.02
Nakamura, Akihiko (JPN) (1990)																
Decathlon - FINAL - 2022 Japanese Multi-Event National Championships (Akita, JPN)																
date	05-Jun-22	time	2.76	3.92	5.06	6.21	7.35	8.49	9.64	10.81	11.98	13.15		14.65	5 / 3	
reaction time		interval		1.16	1.14	1.15	1.14	1.14	1.15	1.17	1.17	1.17	1.50		3.45	3.43
wind	-2.3 m/s	velocity	4.97	7.88	8.02	7.95	8.02	8.02	7.95	7.81	7.81	7.81	9.35	7.51	7.95	7.99
Okuda, Keisuke (JPN) (1996)																
Decathlon - Heat 1 - 2024 Japanese National Multi-Event Championships (Gifu, JPN)																
date	23-Jun-24	time	2.81	3.98	5.12	6.28	7.41	8.56	9.70	10.84	12.01	13.15		14.65	1 / 1	
reaction time		interval		1.17	1.14	1.16	1.13	1.15	1.14	1.14	1.17	1.14	1.50		3.47	3.42
wind	0.4 m/s	velocity	4.88	7.81	8.02	7.88	8.09	7.95	8.02	8.02	7.81	8.02	9.35	7.51	7.90	8.02
Krejčí, Michal (CZE) (1981)																
Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)																
date	15-Jun-13	time	2.71	3.86	4.99	6.13	7.27	8.40	9.54	10.70	11.88	13.08		14.66	5 / 2	
reaction time	0.126	interval		1.15	1.13	1.14	1.14	1.13	1.14	1.16	1.18	1.20	1.58		3.42	3.41
wind	-0.6 m/s	velocity	5.06	7.95	8.09	8.02	8.02	8.09	8.02	7.88	7.75	7.62	8.87	7.50	8.02	8.04
Ríha, Michal (CZE) (1994)																
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)																
date	02-Aug-14	time	2.66	3.85	5.02	6.15	7.28	8.45	9.61	10.75	11.91	13.09		14.66	6 / 3	
reaction time	0.159	interval		1.19	1.17	1.13	1.13	1.17	1.16	1.14	1.16	1.18	1.57		3.49	3.46
wind	-1.2 m/s	velocity	5.16	7.68	7.81	8.09	8.09	7.81	7.88	8.02	7.88	7.75	8.93	7.50	7.86	7.92
Jian Jinlong (CHN) (2000)																
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)																
date	24-Apr-21	time	2.75	3.93	5.06	6.20	7.32	8.46	9.59	10.74	11.90	13.10		14.66	2 / 6	
reaction time	0.166	interval		1.18	1.13	1.14	1.12	1.14	1.13	1.15	1.16	1.20	1.56	PB	3.45	3.39
wind	-1.1 m/s	velocity	4.99	7.75	8.09	8.02	8.16	8.02	8.09	7.95	7.88	7.62	8.99	7.50	7.95	8.09
Tilga, Karel (EST) (1998)																
Decathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)																
date	03-Aug-24	time	2.57	3.74	4.86	5.99	7.10	8.24	9.44	10.59	11.80	12.98		14.66	2 / 4	
reaction time	0.163	interval	7 steps	1.17	1.12	1.13	1.11	1.14	1.20	1.15	1.21	1.18	1.68		3.42	3.45
wind	0.2 m/s	velocity	5.34	7.81	8.16	8.09	8.23	8.02	7.62	7.95	7.55	7.75	8.35	7.50	8.02	7.95
Yahata, Kenji (JPN) (1980)																

Heat 1 - 2008 Nambu Chuhei Memorial (Harodate, JPN)

date	06-Jul-08	time	2.56	3.67	4.76	5.84	6.93	8.09	9.31	10.51	11.70	12.89	14.67	???			
reaction time		interval		1.11	1.09	1.08	1.09	1.16	1.22	1.20	1.19	1.19	1.78		3.28	3.47	3.58
wind	0.2 m/s	velocity	5.36	8.23	8.39	8.46	8.39	7.88	7.49	7.62	7.68	7.68	7.88	7.50	8.36	7.90	7.66

*Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles***Iwakiri, Yuki (JPN) (1998)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2016 Japanese National High School Championships (Okayama, JPN) (99cm)*Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics*

date	02-Aug-16	time	2.77	3.88	5.00	6.13	7.24	8.39	9.53	10.70	11.87	13.06	14.67		8 / 7		
reaction time	0.160	interval		1.11	1.12	1.13	1.11	1.15	1.14	1.17	1.17	1.19	1.61		3.36	3.40	3.53
wind	1.2 m/s	velocity	4.95	8.23	8.16	8.09	8.23	7.95	8.02	7.81	7.81	7.68	8.71	7.50	8.16	8.06	7.77

Watase, Yuto (JPN) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)*(2017) - tfdata-store.com/2017/04/07/post-249/*

date	06-Apr-17	time	2.67	3.82	4.95	6.08	7.22	8.38	9.56	10.75	11.92	13.15	14.67		8 / 2		
reaction time		interval		1.15	1.13	1.13	1.14	1.16	1.18	1.19	1.17	1.23	1.52		3.41	3.48	3.59
wind	-1.8 m/s	velocity	5.14	7.95	8.09	8.09	8.02	7.88	7.75	7.68	7.81	7.43	9.22	7.50	8.04	7.88	7.64

Zhang Shuai (CHN) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	08-Jul-19	time	2.69	3.84	5.01	6.14	7.26	8.37	9.53	10.69	11.86	13.05	14.67		8 / 7		
reaction time	0.260	interval		1.15	1.17	1.13	1.12	1.11	1.16	1.16	1.17	1.19	1.62		3.45	3.39	3.52
wind	-0.5 m/s	velocity	5.10	7.95	7.81	8.09	8.16	8.23	7.88	7.88	7.81	7.68	8.65	7.50	7.95	8.09	7.79

Shaker, Amir (SWE) (1989)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2010 Swedish National Championships (Falun, SWE)*Blomkvist (2010) - www.sub13.se*

date	22-Aug-10	time	2.80	3.94	5.07	6.20	7.32	8.45	9.59	10.77	11.94	13.11	14.68		1 / 4		
reaction time		interval		1.14	1.13	1.13	1.12	1.13	1.14	1.18	1.17	1.17	1.57	PB	3.40	3.39	3.52
wind	-0.7 m/s	velocity	4.90	8.02	8.09	8.09	8.16	8.09	8.02	7.75	7.81	7.81	8.93	7.49	8.06	8.09	7.79

Wado, Tatsuya (JPN) (1990)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2013 Mito Invitational Athletics Meeting (Mito, JPN)*Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13*

date	04-May-13	time	2.60	3.93	5.15	6.34	7.46	8.60	9.71	10.83	11.97	13.13	14.68		1 / 8		
reaction time		interval		1.33	1.22	1.19	1.12	1.14	1.11	1.12	1.14	1.16	1.55		3.74	3.37	3.42
wind	-1.3 m/s	velocity	5.28	6.87	7.49	7.68	8.16	8.02	8.23	8.16	8.02	7.88	9.05	7.49	7.33	8.14	8.02

Nejedly, Adam (CZE) (1988)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2013 Czech Republic National Championships (Tábor, CZE)*Fehér (2013) - Final report from the men's & women's Czech Republic national championships*

date	15-Jun-13	time	2.78	3.95	5.07	6.18	7.32	8.45	9.62	10.78	11.95	13.14	14.68		7 / 8		
reaction time	0.145	interval		1.17	1.12	1.11	1.14	1.13	1.17	1.16	1.17	1.19	1.54		3.40	3.44	3.52
wind	0.4 m/s	velocity	4.94	7.81	8.16	8.23	8.02	8.09	7.81	7.88	7.81	7.68	9.10	7.49	8.06	7.97	7.79

Kawahara, Ren (JPN) (2006)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)*Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season*

date	24-Oct-21	time	2.74	3.89	5.05	6.21	7.39	8.54	9.69	10.81	11.94	13.11	14.68		1 / 2		
reaction time		interval		1.15	1.16	1.16	1.18	1.15	1.15	1.12	1.13	1.17	1.57		3.47	3.48	3.42
wind	1.0 m/s	velocity	5.01	7.95	7.88	7.88	7.75	7.95	7.95	8.16	8.09	7.81	8.93	7.49	7.90	7.88	8.02

Tilga, Karel (EST) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Decathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2024) - Athlete First: 2023 year end hurdle report*

date	26-Aug-23	time	2.73	3.88	5.04	6.21	7.32	8.50	9.65	10.83	12.01	13.21	14.68		8 / 3		
reaction time	0.166	interval	7 steps	1.15	1.16	1.17	1.11	1.18	1.15	1.18	1.18	1.20	1.47		3.48	3.44	3.56
wind	0.2 m/s	velocity	5.03	7.95	7.88	7.81	8.23	7.75	7.95	7.75	7.75	7.62	9.54	7.49	7.88	7.97	7.70

Tomiyama, Hiroki (JPN) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (99cm)*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015*

date	02-Aug-15	time	2.75	3.88	5.01	6.15	7.29	8.42	9.60	10.76	11.94	13.13	14.69		9 / 8		
reaction time		interval		1.13	1.13	1.14	1.14	1.13	1.18	1.16	1.18	1.19	1.56		3.40	3.45	3.53
wind	1.4 m/s	velocity	4.99	8.09	8.09	8.02	8.02	8.09	7.75	7.88	7.75	7.68	8.99	7.49	8.06	7.95	7.77

Wu Zhenhua (CHN) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	08-Jul-19	time	2.70	3.81	4.94	6.04	7.20	8.34	9.51	10.68	11.86	13.05	14.69		7 / 6		
reaction time	0.157	interval		1.11	1.13	1.10	1.16	1.14	1.17	1.17	1.18	1.19	1.64		3.34	3.47	3.54
wind	0.4 m/s	velocity	5.08	8.23	8.09	8.31	7.88	8.02	7.81	7.81	7.75	7.68	8.55	7.49	8.21	7.90	7.75

Li Jiming (CHN) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	02-Aug-19	time	2.71	3.85	4.96	6.06	7.17	8.31	9.46	10.63	11.81	13.01	14.69		3 / 4		
reaction time	0.191	interval		1.14	1.11	1.10	1.11	1.14	1.15	1.17	1.18	1.20	1.68		3.35	3.40	3.55
wind	-0.2 m/s	velocity	5.06	8.02	8.23	8.31	8.23	8.02	7.95	7.81	7.75	7.62	8.35	7.49	8.19	8.06	7.72

Zhao Jiefu (CHN) (2001)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)*CAA Hurdle Development (2021)*

date	24-Apr-21	time	2.80	3.96	5.08	6.23	7.35	8.46	9.60	10.74	11.88	13.08	14.69	2 / 5				
reaction time	0.213	interval		1.16	1.12	1.15	1.12	1.11	1.14	1.14	1.20	1.61			3.43	3.37	3.48	
wind	-1.2 m/s	velocity	4.90	7.88	8.16	7.95	8.16	8.23	8.02	8.02	8.02	7.62	8.71	7.49	7.99	8.14	7.88	
Sun Haoru (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)			CAA Hurdle Development (2021)															
date	25-Jun-21	time	2.75	3.89	5.00	6.11	7.25	8.38	9.51	10.64	11.88	13.09	14.69	8 / 5				
reaction time	0.166	interval		1.14	1.11	1.11	1.14	1.13	1.13	1.13	1.24	1.21	1.60			3.36	3.40	3.58
wind	-1.2 m/s	velocity	4.99	8.02	8.23	8.23	8.02	8.09	8.09	8.09	7.37	7.55	8.76	7.49		8.16	8.06	7.66
Öiglane, Janek (EST) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			Henson (2024) - Athlete First: 2022 year end hurdle report															
date	24-Jul-22	time	2.73	3.86	4.98	6.15	7.28	8.40	9.56	10.73	11.88	13.06	14.69	6 / 6				
reaction time	0.181	interval		1.13	1.12	1.17	1.13	1.12	1.16	1.17	1.15	1.18	1.63			3.42	3.41	3.50
wind	0.4 m/s	velocity	5.03	8.09	8.16	7.81	8.09	8.16	7.88	7.81	7.95	7.75	8.60	7.49		8.02	8.04	7.83
Fukumoto, Riku (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 China Perfcture High School Championships (Izumo, JPN)			(2016.10.16) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	15-Oct-16	time	2.75	3.90	5.04	6.16	7.33	8.46	9.65	10.82	12.02	13.23	14.71	4 / 1				
reaction time		interval		1.15	1.14	1.12	1.17	1.13	1.19	1.17	1.20	1.21	1.48			3.41	3.49	3.58
wind	0.9 m/s	velocity	4.99	7.95	8.02	8.16	7.81	8.09	7.68	7.81	7.62	7.55	9.47	7.48		8.04	7.86	7.66
Okuda, Keisuke (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - FINAL - 2022 Japanese Multi-Event National Championsips (Akita, JPN)			Takefu (2023) - performance analysis of decathlon athletes in the 2022 season															
date	05-Jun-22	time	2.75	3.90	5.05	6.20	7.35	8.50	9.66	10.82	12.00	13.21	14.71	9 / 4				
reaction time		interval		1.15	1.15	1.15	1.15	1.15	1.16	1.16	1.18	1.21	1.50			3.45	3.46	3.55
wind	-2.3 m/s	velocity	4.99	7.95	7.95	7.95	7.95	7.95	7.88	7.88	7.75	7.55	9.35	7.48		7.95	7.92	7.72
Blaschke, Joakim (SWE) (1977)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 Folsam GP (Göteborg, SWE)			Blomkvist (2011) - www.sub13.se															
date	11-Jun-11	time	2.60	3.72	4.84	5.96	7.12	8.28	9.42	10.58	11.76	12.94	14.72	1 / 7				
reaction time		interval		1.12	1.12	1.12	1.16	1.16	1.14	1.16	1.18	1.18	1.78			3.36	3.46	3.52
wind	0.6 m/s	velocity	5.28	8.16	8.16	8.16	7.88	7.88	8.02	7.88	7.75	7.75	7.88	7.47		8.16	7.92	7.79
Zhong Shulun (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)			CAA Hurdle Development (2019)															
date	14-Aug-19	time	2.80	3.97	5.12	6.23	7.36	8.51	9.66	10.79	11.93	13.10	14.72	8 / 4				
reaction time	0.225	interval		1.17	1.15	1.11	1.13	1.15	1.15	1.13	1.14	1.17	1.62			3.43	3.43	3.44
wind	-0.1 m/s	velocity	4.90	7.81	7.95	8.23	8.09	7.95	7.95	8.09	8.02	7.81	8.65	7.47		7.99	7.99	7.97
Yang Jiajun (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)			CAA Hurdle Development (2021)															
date	24-Apr-21	time	2.76	3.93	5.04	6.17	7.30	8.46	9.61	10.78	11.96	13.15	14.72	6 / 6				
reaction time	0.171	interval		1.17	1.11	1.13	1.13	1.16	1.15	1.17	1.18	1.19	1.57	PB		3.41	3.44	3.54
wind	-1.2 m/s	velocity	4.97	7.81	8.23	8.09	8.09	7.88	7.95	7.81	7.75	7.68	8.93	7.47		8.04	7.97	7.75
Belmar, Félix (ESP) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)			Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas															
date	02-Aug-98	time	2.70	3.82	4.96	6.06	7.20	8.36	9.51	10.70	11.86	13.08	14.73	8 / 5				
reaction time		interval		1.12	1.14	1.10	1.14	1.16	1.15	1.19	1.16	1.22	1.65			3.36	3.45	3.57
wind	0.1 m/s	velocity	5.08	8.16	8.02	8.31	8.02	7.88	7.95	7.68	7.88	7.49	8.50	7.47		8.16	7.95	7.68
Tetsuguchi, Ren (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2017 Mito Invitational (Mito, JPN)			(2017) - tfdata-store.com/2017/05/06/post-423/															
date	05-May-17	time	2.79	3.94	5.08	6.21	7.36	8.51	9.65	10.82	12.01	13.21	14.73	8 / 5				
reaction time		interval	7 steps	1.15	1.14	1.13	1.15	1.15	1.14	1.17	1.19	1.20	1.52			3.42	3.44	3.56
wind	0.3 m/s	velocity	4.92	7.95	8.02	8.09	7.95	7.95	8.02	7.81	7.68	7.62	9.22	7.47		8.02	7.97	7.70
Ni Mengfan (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)			CAA Hurdle Development (2019)															
date	14-Aug-19	time	2.70	3.87	5.02	6.17	7.31	8.44	9.64	10.81	11.98	13.16	14.73	2 / 5				
reaction time	0.199	interval		1.17	1.15	1.15	1.14	1.13	1.20	1.17	1.17	1.18	1.57			3.47	3.47	3.52
wind	-0.1 m/s	velocity	5.08	7.81	7.95	7.95	8.02	8.09	7.62	7.81	7.81	7.75	8.93	7.47		7.90	7.90	7.79
Wu Zhenhua (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)			CAA Hurdle Development (2020)															
date	16-Sep-20	time	2.73	3.89	5.03	6.14	7.27	8.39	9.59	10.79	11.97	13.18	14.73	5 / 8				
reaction time	0.150	interval		1.16	1.14	1.11	1.13	1.12	1.20	1.20	1.18	1.21	1.55			3.41	3.45	3.59
wind	-0.5 m/s	velocity	5.03	7.88	8.02	8.23	8.09	8.16	7.62	7.62	7.75	7.55	9.05	7.47		8.04	7.95	7.64
Kazmirek, Kai (GER) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			Henson (2024) - Athlete First: 2021 year end hurdle report															
date	05-Aug-21	time	2.82	3.93	5.03	6.24	7.32	8.46	9.64	10.78	11.93	13.12	14.73	9 / 4				

reaction time	0.136	interval	1.11	1.10	1.21	1.08	1.14	1.18	1.14	1.15	1.19	1.61			3.42	3.40	3.48
wind	0.0 m/s	velocity	4.87	8.23	8.31	7.55	8.46	8.02	7.75	8.02	7.95	7.68	8.71	7.47	8.02	8.06	7.88

Nakamura, Akihiko (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2023 Japanese Multi-Event National Championships (Akita, JPN)										Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season								
date	11-Jun-23	time	2.81	3.97	5.13	6.27	7.40	8.54	9.70	10.86	12.04	13.22		14.73	9 / 4			
reaction time		interval		1.16	1.16	1.14	1.13	1.14	1.16	1.16	1.18	1.18	1.51			3.46	3.43	3.52
wind	-0.1 m/s	velocity	4.88	7.88	7.88	8.02	8.09	8.02	7.88	7.88	7.75	7.75	9.28	7.47		7.92	7.99	7.79

Otobe, Takumi (JPN) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 1 - 2014 Nittai University Distance Meeting (Wakayama, JPN)										Takeo (2014) - decathletes sprint ability & relationship of individual event performance								
date	27-Apr-14	time	2.70	3.90	5.06	6.21	7.36	8.52	9.66	10.84	12.00	13.19	14.74	6 / 3			Matsuo (2014)	
reaction time		interval		1.20	1.16	1.15	1.15	1.16	1.14	1.18	1.16	1.19	1.55	PB		3.51	3.45	3.53
wind	1.0 m/s	velocity	5.08	7.62	7.88	7.95	7.95	7.88	8.02	7.75	7.88	7.68	9.05	7.46		7.81	7.95	7.77

Riha, Michal (CZE) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)										Fehér (2014) - Final report from the Czech Republic national championships							
date	02-Aug-14	time	2.70	3.86	5.02	6.15	7.31	8.47	9.65	10.82	12.00	13.20	14.74	3 / 2			
reaction time	0.171	interval		1.16	1.16	1.13	1.16	1.16	1.18	1.17	1.18	1.20	1.54		3.45	3.50	3.55
wind	-1.6 m/s	velocity	5.08	7.88	7.88	8.09	7.88	7.88	7.75	7.81	7.75	7.62	9.10	7.46	7.95	7.83	7.72

Huan Jiaxing (CHN) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)															CAA Hurdle Development (2021)		
date	08-Apr-21	time	2.80	3.92	5.08	6.22	7.34	8.48	9.66	10.84	12.00	13.20	14.74	2 / 8			
reaction time		interval		1.12	1.16	1.14	1.12	1.14	1.18	1.18	1.16	1.20	1.54		3.42	3.44	3.54
wind	-0.1 m/s	velocity	4.90	8.16	7.88	8.02	8.16	8.02	7.75	7.75	7.88	7.62	9.10	7.46	8.02	7.97	7.75

Yan Chenyu (CHN) (2003)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)												CAA Hurdle Development (2021)					
date	25-Jun-21	time	2.72	3.85	4.97	6.11	7.27	8.38	9.58	10.77	11.96	13.17	14.74	2 / 6			
reaction time	0.182	interval		1.13	1.12	1.14	1.16	1.11	1.20	1.19	1.19	1.21	1.57		3.39	3.47	3.59
wind	-1.2 m/s	velocity	5.04	8.09	8.16	8.02	7.88	8.23	7.62	7.68	7.68	7.55	8.93	7.46	8.09	7.90	7.64

Wiberg, Nicklas (SWE) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 5 - 2009 IAAF World Championships (Berlin, GER)										Graubner (2009) - biomechanical analyses at the 12th IAAF world championships							
date	20-Aug-09	time	2.84	4.00	5.11	6.20	7.33	8.48	9.64	10.86	12.02	13.22	14.75	7 / 3			
reaction time	0.208	interval		1.16	1.11	1.09	1.13	1.15	1.16	1.22	1.16	1.20	1.53		3.36	3.44	3.58
wind	0.3 m/s	velocity	4.83	7.88	8.23	8.39	8.09	7.95	7.88	7.49	7.88	7.62	9.16	7.46	8.16	7.97	7.66

Lukáš, Marek (CZE) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)									Fehér (2013) - Final report from the men's & women's Czech Republic national championships								
date	15-Jun-13	time	2.78	3.91	5.03	6.17	7.32	8.46	9.62	10.79	12.00	13.16	14.75	3 / 3			
reaction time	0.176	interval		1.13	1.12	1.14	1.15	1.14	1.16	1.17	1.21	1.16	1.59		3.39	3.45	3.54
wind	-0.3 m/s	velocity	4.94	8.09	8.16	8.02	7.95	8.02	7.88	7.81	7.55	7.88	8.82	7.46	8.09	7.95	7.75

Rykl, Radoš (CZE) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)										Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships							
date	28-Jun-14	time	2.77	3.93	5.06	6.19	7.32	8.50	9.65	10.80	11.97	13.13	14.75	7 / 5			
reaction time	0.177	interval		1.16	1.13	1.13	1.13	1.18	1.15	1.15	1.17	1.16	1.62		3.42	3.46	3.48
wind	-2.2 m/s	velocity	4.95	7.88	8.09	8.09	8.09	7.75	7.95	7.95	7.81	7.88	8.65	7.46	8.02	7.92	7.88

Guo Qi (CHN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)												CAA Hurdle Development (2019)					
date	11-Jul-19	time	2.75	3.91	5.05	6.19	7.32	8.47	9.62	10.77	11.98	13.16	14.75	6 / 2			
reaction time	0.169	interval	7 steps	1.16	1.14	1.14	1.13	1.15	1.15	1.15	1.21	1.18	1.59		3.44	3.43	3.54
wind	-0.6 m/s	velocity	4.99	7.88	8.02	8.02	8.09	7.95	7.95	7.95	7.55	7.75	8.82	7.46	7.97	7.99	7.75

Sotono, Haru (JPN) (2004)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Shimane High School Championships (Izumo, JPN)									Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis								
date	28-May-22	time	2.73	3.87	5.02	6.15	7.28	8.42	9.62	10.85	12.03	13.23	14.75	4 / 1			
reaction time		interval		1.14	1.15	1.13	1.13	1.14	1.20	1.23	1.18	1.20	1.52		3.42	3.47	3.61
wind	0.6 m/s	velocity	5.03	8.02	7.95	8.09	8.09	8.02	7.62	7.43	7.75	7.62	9.22	7.46	8.02	7.90	7.60

Bastien, Steven (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2022 year end hurdle report					
date	24-Jul-22	time	2.76	3.92	5.05	6.15	7.28	8.40	9.62	10.76	11.96	13.16		14.75	2 / 7			
reaction time	0.132	interval	7 steps	1.16	1.13	1.10	1.13	1.12	1.22	1.14	1.20	1.20	1.59			3.39	3.47	3.54
wind	0.4 m/s	velocity	4.97	7.88	8.09	8.31	8.09	8.16	7.49	8.02	7.62	7.62	8.82	7.46		8.09	7.90	7.75

Neugebauer, Leo (GER) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													Henson (2024) - Athlete First: 2023 year end hurdle report				
date	26-Aug-23	time	2.76	3.92	5.12	6.24	7.40	8.56	9.65	10.82	12.02	13.22	14.75	5 / 6			
reaction time	0.169	interval	7 steps	1.16	1.20	1.12	1.16	1.16	1.09	1.17	1.20	1.20	1.53		3.48	3.41	3.57

wind	0.1 m/s	velocity	4.97	7.88	7.62	8.16	7.88	7.88	8.39	7.81	7.62	7.62	9.16	7.46		7.88	8.04	7.68
Polách, Josef (CZE) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)			Feher (2013) - Final report from the men's & women's Czech Republic national championships															
date	15-Jun-13	time	2.74	3.88	5.00	6.17	7.31	8.48	9.59	10.77	11.95	13.12		14.76	3 / 3			
reaction time	0.151	interval		1.14	1.12	1.17	1.14	1.17	1.11	1.18	1.18	1.17	1.64			3.43	3.42	3.53
wind	-0.6 m/s	velocity	5.01	8.02	8.16	7.81	8.02	7.81	8.23	7.75	7.75	7.81	8.55	7.45		7.99	8.02	7.77
Yue Xuesong (CHN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)			CAA Hurdle Development (2019)															
date	11-Jul-19	time	2.77	3.92	5.05	6.20	7.36	8.52	9.69	10.86	12.03	13.23		14.76	5 / 1			
reaction time	0.203	interval		1.15	1.13	1.15	1.16	1.16	1.17	1.17	1.17	1.20	1.53	PB		3.43	3.49	3.54
wind	0.0 m/s	velocity	4.95	7.95	8.09	7.95	7.88	7.88	7.81	7.81	7.81	7.62	9.16	7.45		7.99	7.86	7.75
Kurokawa, Kazuki (JPN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (99cm)			Kota (2019) - 72nd high school champs: JAF scientific committee - biomechanics data															
date	08-Aug-19	time	2.72	3.90	5.03	6.19	7.35	8.52	9.68	10.84	12.01	13.22		14.76	4 / 5			
reaction time		interval		1.18	1.13	1.16	1.16	1.17	1.16	1.16	1.17	1.21	1.54	PB		3.47	3.49	3.54
wind	-3.0 m/s	velocity	5.04	7.75	8.09	7.88	7.88	7.81	7.88	7.88	7.81	7.55	9.10	7.45		7.90	7.86	7.75
Gong Kewei (CHN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)			CAA Hurdle Development (2021)															
date	27-Jun-21	time	2.71	3.89	5.05	6.19	7.32	8.46	9.62	10.81	12.01	13.21		14.76	2 / 1			
reaction time	0.177	interval		1.18	1.16	1.14	1.13	1.14	1.16	1.19	1.20	1.20	1.55			3.48	3.43	3.59
wind	-0.2 m/s	velocity	5.06	7.75	7.88	8.02	8.09	8.02	7.88	7.68	7.62	7.62	9.05	7.45		7.88	7.99	7.64
Victor, Lindon (GRN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			Henson (2024) - Athlete First: 2022 year end hurdle report															
date	24-Jul-22	time	2.78	3.90	5.06	6.20	7.36	8.50	9.63	10.83	12.00	13.20		14.76	4 / 4			
reaction time	0.149	interval	7 steps	1.12	1.16	1.14	1.16	1.14	1.13	1.20	1.17	1.20	1.56			3.42	3.43	3.57
wind	1.5 m/s	velocity	4.94	8.16	7.88	8.02	7.88	8.02	8.09	7.62	7.81	7.62	8.99	7.45		8.02	7.99	7.68
Tay, Marvin (SWE) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 Swedish National Championships (Falun, SWE)			Blomkvist (2010) - www.sub13.se															
date	22-Aug-10	time	2.71	3.82	4.95	6.07	7.20	8.37	9.53	10.70	11.85	13.02		14.77	/ 5			
reaction time		interval		1.11	1.13	1.12	1.13	1.17	1.16	1.17	1.15	1.17	1.75			3.36	3.46	3.49
wind	-0.7 m/s	velocity	5.06	8.23	8.09	8.16	8.09	7.81	7.88	7.81	7.95	7.81	8.01	7.45		8.16	7.92	7.86
Zhao Jiefu (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)			CAA Hurdle Development (2021)															
date	25-Jun-21	time	2.79	3.94	5.05	6.18	7.31	8.43	9.58	10.71	11.91	13.11		14.77	9 / 7			
reaction time	0.214	interval		1.15	1.11	1.13	1.13	1.12	1.15	1.13	1.20	1.20	1.66			3.39	3.40	3.53
wind	-1.2 m/s	velocity	4.92	7.95	8.23	8.09	8.09	8.16	7.95	8.09	7.62	7.62	8.45	7.45		8.09	8.06	7.77
Asai, Seira (JPN) (2006)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)			Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season															
date	24-Oct-21	time	2.83	3.96	5.10	6.27	7.44	8.60	9.75	10.87	12.02	13.18		14.77	/ 3			
reaction time		interval		1.13	1.14	1.17	1.17	1.16	1.15	1.12	1.15	1.16	1.59			3.44	3.48	3.43
wind	1.0 m/s	velocity	4.85	8.09	8.02	7.81	7.81	7.88	7.95	8.16	7.95	7.88	8.82	7.45		7.97	7.88	7.99
Zhao Jiefu (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)			CAA Hurdle Development (2019)															
date	08-Jul-19	time	2.83	3.99	5.12	6.26	7.37	8.51	9.66	10.79	11.97	13.16		14.78	2 / 7			
reaction time	0.218	interval		1.16	1.13	1.14	1.11	1.14	1.15	1.13	1.18	1.19	1.62			3.43	3.40	3.50
wind	0.4 m/s	velocity	4.85	7.88	8.09	8.02	8.23	8.02	7.95	8.09	7.75	7.68	8.65	7.44		7.99	8.06	7.83
Yang Zihao (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)			CAA Hurdle Development (2019)															
date	11-Jul-19	time	2.75	3.90	5.05	6.19	7.32	8.49	9.69	10.84	12.04	13.21		14.78	5 / 2			
reaction time	0.171	interval		1.15	1.15	1.14	1.13	1.17	1.20	1.15	1.20	1.17	1.57	PB		3.44	3.50	3.52
wind	-0.1 m/s	velocity	4.99	7.95	7.95	8.02	8.09	7.81	7.62	7.95	7.62	7.81	8.93	7.44		7.97	7.83	7.79
Liu Bowen (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)			CAA Hurdle Development (2021)															
date	24-Apr-21	time	2.66	3.77	4.92	6.02	7.14	8.29	9.49	10.70	11.90	13.14		14.78	5 / 7			
reaction time	0.164	interval		1.11	1.15	1.10	1.12	1.15	1.20	1.21	1.20	1.24	1.64			3.36	3.47	3.65
wind	-1.1 m/s	velocity	5.16	8.23	7.95	8.31	8.16	7.95	7.62	7.55	7.62	7.37	8.55	7.44		8.16	7.90	7.51
Lai Junjie (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)			CAA Hurdle Development (2021)															
date	25-Jun-21	time	2.75	3.90	5.04	6.16	7.29	8.42	9.56	10.74	11.94	13.16		14.78	9 / 6			
reaction time	0.181	interval		1.15	1.14	1.12	1.13	1.13	1.14	1.18	1.20	1.22	1.62			3.41	3.40	3.60
wind	-0.2 m/s	velocity	4.99	7.95	8.02	8.16	8.09	8.09	8.02	7.75	7.62	7.49	8.65	7.44		8.04	8.06	7.62

															H1	H2	H3	H4
															H5	H6	H7	H8
															H9	H10	Run-In	Official Time
															Lane / Place	H1-H4	H4-H7	H7-H10
Taam, Rik (NED) (1997)																		
Decathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	03-Aug-24	time	2.56	3.72	4.85	5.98	7.13	8.31	9.50	10.66	11.86	13.06						
reaction time	0.181	interval		1.16	1.13	1.13	1.15	1.18	1.19	1.16	1.20	1.20	1.72				3.42	3.52
wind	0.2 m/s	velocity	5.36	7.88	8.09	8.09	7.95	7.75	7.68	7.88	7.62	7.62	8.15	7.44			8.02	7.79
Blaschke, Joakim (SWE) (1977)																		
FINAL - 2007 Windsprint (Sundsvall, SWE)															<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>			
date	24-Jul-07	time		3.87			7.23			10.68								
reaction time	0.153	interval					3.36			3.45			4.11					
wind	1.3 m/s	velocity		5.91			8.16			7.95			7.86	7.44				
Swift, Greggmar (BAR) (1991)																		
FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)															<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>			
date	08-May-16	time	2.67	3.82	4.95	6.11	7.24	8.41	9.56	10.75	11.94	13.14						
reaction time	0.153	interval		1.15	1.13	1.16	1.13	1.17	1.15	1.19	1.19	1.20	1.65				3.44	3.45
wind	-0.6 m/s	velocity	5.14	7.95	8.09	7.88	8.09	7.81	7.95	7.68	7.68	7.62	8.50	7.44			7.97	7.95
Shohei, Miyamoto (JPN)																		
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)															<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>			
date	06-Apr-17	time	2.75	3.91	5.08	6.24	7.39	8.53	9.70	10.89	12.05	13.23						
reaction time		interval		1.16	1.17	1.16	1.15	1.14	1.17	1.19	1.16	1.18	1.56				3.49	3.46
wind	-1.8 m/s	velocity	4.99	7.88	7.81	7.88	7.95	8.02	7.81	7.68	7.88	7.75	8.99	7.44			7.86	7.92
Yamada, Nash (JPN) (1999)																		
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)															<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics</i>			
date	02-Aug-17	time	2.71	3.86	5.11	6.31	7.46	8.58	9.72	10.87	12.03	13.22						
reaction time	0.153	interval		1.15	1.25	1.20	1.15	1.12	1.14	1.15	1.16	1.19	1.57				3.60	3.41
wind	-0.7 m/s	velocity	5.06	7.95	7.31	7.62	7.95	8.16	8.02	7.95	7.88	7.68	8.93	7.44			7.62	8.04
Li Xiaodong (CHN) (1995)																		
Decathlon - Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	11-Jul-19	time	2.74	3.90	5.05	6.19	7.34	8.50	9.66	10.87	12.06	13.26						
reaction time	0.153	interval		1.16	1.15	1.14	1.15	1.16	1.16	1.21	1.19	1.20	1.53				3.45	3.47
wind	0.0 m/s	velocity	5.01	7.88	7.95	8.02	7.95	7.88	7.88	7.55	7.68	7.62	9.16	7.44			7.95	7.90
Yang Jianxing (CHN) (1996)																		
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	23-Aug-19	time	2.70	3.85	4.97	6.10	7.22	8.37	9.53	10.69	11.89	13.15						
reaction time	0.174	interval		1.15	1.12	1.13	1.12	1.15	1.16	1.16	1.20	1.26	1.64				3.40	3.43
wind	-0.2 m/s	velocity	5.08	7.95	8.16	8.09	8.16	7.95	7.88	7.88	7.62	7.25	8.55	7.44			8.06	7.99
Yan Chenyu (CHN) (2003)																		
Heat 1 - 2021 National Grand Prix (Chengdu, CHN)															<i>CAA Hurdle Development (2021)</i>			
date	02-Apr-21	time	2.74	3.94	5.10	6.26	7.40	8.56	9.70	10.84	12.02	13.20						
reaction time	0.216	interval		1.20	1.16	1.16	1.14	1.16	1.14	1.14	1.18	1.18	1.59				3.52	3.44
wind	0.5 m/s	velocity	5.01	7.62	7.88	7.88	8.02	7.88	8.02	8.02	7.75	7.75	8.82	7.44			7.79	7.97
Chen Xinghua (CHN) (2002)																		
Decathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)															<i>CAA Hurdle Development (2021)</i>			
date	27-Jun-21	time	2.77	3.94	5.07	6.17	7.31	8.46	9.59	10.73	11.94	13.16						
reaction time		interval		1.17	1.13	1.10	1.14	1.15	1.13	1.14	1.21	1.22	1.63				3.40	3.42
wind	-0.2 m/s	velocity	4.95	7.81	8.09	8.31	8.02	7.95	8.09	8.02	7.55	7.49	8.60	7.44			8.06	8.02
Makoto, Ino (JPN)																		
FINAL - 2016 Miyazaki Prefecture High School Meeting (Miyazaki, JPN)															<i>(2016.06.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en</i>			
date	31-May-16	time	2.74	3.89	5.06	6.24	7.41	8.58	9.75	10.91	12.09	13.29						
reaction time		interval		1.15	1.17	1.18	1.17	1.17	1.17	1.16	1.18	1.20	1.51				3.50	3.51
wind	-1.0 m/s	velocity	5.01	7.95	7.81	7.75	7.81	7.81	7.81	7.88	7.75	7.62	9.28	7.43			7.83	7.81
Ma Lei (CHN) (1989)																		
FINAL - 2018 Chinese National Championships (Taiyuan, CHN)															<i>Henson (2018) - coaching observations</i>			
date	16-Sep-18	time	2.74	3.87	4.96	6.07	7.21	8.36	9.53	10.69	11.89	13.11						
reaction time		interval		1.13	1.09	1.11	1.14	1.15	1.17	1.16	1.20	1.22	1.69				3.33	3.46
wind	-0.3 m/s	velocity	5.01	8.09	8.39	8.23	8.02	7.95	7.81	7.88	7.62	7.49	8.30	7.43			8.23	7.92
Zhou Jun (CHN) (2002)																		
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)															<i>CAA Hurdle Development (2019)</i>			
date	14-Aug-19	time	2.83	3.99	5.11	6.25	7.36	8.51	9.66	10.79	11.98	13.16						
reaction time	0.173	interval		1.16	1.12	1.14	1.11	1.15	1.15	1.13	1.19	1.18	1.64				3.42	3.41
wind	-0.1 m/s	velocity	4.85	7.88	8.16	8.02	8.23	7.95	7.95	8.09	7.68	7.75	8.55	7.43			8.02	8.04

Lu Wei (CHN) (2000)																
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																
date	23-Aug-19	time	2.83	3.98	5.09	6.26	7.41	8.54	9.67	10.80	11.98	13.18		14.80	6 / 5	
reaction time	0.208	interval		1.15	1.11	1.17	1.15	1.13	1.13	1.13	1.18	1.20	1.62		3.43	3.41
wind	-0.2 m/s	velocity	4.85	7.95	8.23	7.81	7.95	8.09	8.09	8.09	7.75	7.62	8.65	7.43	7.99	8.04
Jiang Fan (CHN) (1990)																
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																
date	23-Aug-19	time	2.70	3.84	4.95	6.06	7.17	8.29	9.41	10.59	11.83	13.09		14.80	9 / 6	
reaction time	0.159	interval		1.14	1.11	1.11	1.11	1.12	1.12	1.18	1.24	1.26	1.71		3.36	3.35
wind	-0.2 m/s	velocity	5.08	8.02	8.23	8.23	8.23	8.16	8.16	7.75	7.37	7.25	8.20	7.43	8.16	8.19
Hu Yufei (CHN) (1993)																
Decathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)																
date	27-Jun-21	time	2.75	3.94	5.09	6.23	7.39	8.52	9.67	10.84	12.00	13.18		14.80	7 / 3	
reaction time	0.159	interval	7 steps	1.19	1.15	1.14	1.16	1.13	1.15	1.17	1.16	1.18	1.62		3.48	3.44
wind	-0.2 m/s	velocity	4.99	7.68	7.95	8.02	7.88	8.09	7.95	7.81	7.88	7.75	8.65	7.43	7.88	7.97
Taam, Rik (NED) (1997)																
Decathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																
date	26-Aug-23	time	2.80	3.92	5.06	6.23	7.40	8.58	9.70	10.88	12.07	13.27		14.80	3 / 4	
reaction time	0.158	interval	7 steps	1.12	1.14	1.17	1.17	1.18	1.12	1.18	1.19	1.20	1.53		3.43	3.47
wind	0.2 m/s	velocity	4.90	8.16	8.02	7.81	7.81	7.75	8.16	7.75	7.68	7.62	9.16	7.43	7.99	7.90
Stavang, Eivind (NOR) (1982)																
B FINAL - 2010 Folsam GP (Sollentuna, SWE)																
date	01-Jul-10	time	2.45	3.64	4.80	5.95	7.09	8.22	9.42	10.58	11.79	12.99		14.81	1 / 2	
reaction time	0.145	interval		1.19	1.16	1.15	1.14	1.13	1.20	1.16	1.21	1.20	1.82		3.50	3.47
wind	0.8 m/s	velocity	5.60	7.68	7.88	7.95	8.02	8.09	7.62	7.88	7.55	7.62	7.70	7.43	7.83	7.90
Nakamura, Shyuunta (JPN)																
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)																
date	24-Oct-21	time	2.70	3.84	5.00	6.16	7.32	8.51	9.68	10.84	12.01	13.23		14.81	1 / 4	
reaction time	0.145	interval		1.14	1.16	1.16	1.16	1.19	1.17	1.16	1.17	1.22	1.58		3.46	3.52
wind	1.0 m/s	velocity	5.08	8.02	7.88	7.88	7.88	7.68	7.81	7.88	7.81	7.49	8.87	7.43	7.92	7.79
Llopis, Enrique (ESP) (2000)																
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)																
date	17-Aug-22	time	2.56	3.64	4.84	6.00	7.20	8.36	9.52	10.68	11.84	13.06		14.81	6 / 7	
reaction time	0.145	interval	7 steps	1.08	1.20	1.16	1.20	1.16	1.16	1.16	1.16	1.22	1.75		3.44	3.52
wind	-0.2 m/s	velocity	5.36	8.46	7.62	7.88	7.62	7.88	7.88	7.88	7.88	7.49	8.01	7.43	7.97	7.79
Zhu Shenglong (CHN) (2000)																
Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)																
date	02-Aug-19	time	2.74	3.88	5.02	6.14	7.28	8.42	9.55	10.73	11.89	13.11		14.82	5 / 5	
reaction time	0.154	interval		1.14	1.14	1.12	1.14	1.14	1.13	1.18	1.16	1.22	1.71		3.40	3.41
wind	-0.3 m/s	velocity	5.01	8.02	8.02	8.16	8.02	8.02	8.09	7.75	7.88	7.49	8.20	7.42	8.06	8.04
Yue Xuesong (CHN) (1997)																
Decathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																
date	27-Jun-21	time	2.80	3.95	5.10	6.25	7.42	8.59	9.74	10.91	12.08	13.28		14.82	4 / 3	
reaction time	0.193	interval		1.15	1.15	1.15	1.17	1.17	1.15	1.17	1.17	1.20	1.54		3.45	3.49
wind	0.5 m/s	velocity	4.90	7.95	7.95	7.95	7.81	7.81	7.95	7.81	7.81	7.62	9.10	7.42	7.95	7.86
Kavka, Tomáš (CZE) (1989)																
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)																
date	02-Aug-14	time	2.84	4.00	5.15	6.25	7.40	8.55	9.70	10.85	12.05	13.28		14.83	6 / 3	
reaction time	0.150	interval		1.16	1.15	1.10	1.15	1.15	1.15	1.15	1.20	1.23	1.55		3.41	3.45
wind	0.8 m/s	velocity	4.83	7.88	7.95	8.31	7.95	7.95	7.95	7.95	7.62	7.43	9.05	7.42	8.04	7.95
Tsuchiya, Toru (JPN) (1995)																
Heat 3 - 2017 Mito Invitational (Mito, JPN)																
date	05-May-17	time	2.74	3.90	5.05	6.19	7.36	8.53	9.68	10.83	12.07	13.30		14.83	3 / 7	
reaction time		interval	7 steps	1.16	1.15	1.14	1.17	1.17	1.15	1.15	1.24	1.23	1.53		3.45	3.49
wind	-2.5 m/s	velocity	5.01	7.88	7.95	8.02	7.81	7.81	7.95	7.95	7.37	7.43	9.16	7.42	7.95	7.86
Wu Zhenhua (CHN) (1998)																
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)																
date	24-Aug-19	time	2.74	3.87	5.00	6.12	7.23	8.36	9.50	10.73	11.92	13.16		14.83	9 / 8	
reaction time	0.184	interval		1.13	1.13	1.12	1.11	1.13	1.14	1.23	1.19	1.24	1.67		3.38	3.38
wind	-0.1 m/s	velocity	5.01	8.09	8.09	8.16	8.23	8.09	8.02	7.43	7.68	7.37	8.40	7.42	8.11	8.11
Victor, Lindon (GRN) (1993)																

Decathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

date	05-Aug-21	time	2.77	3.90	5.01	6.15	7.30	8.48	9.67	10.82	12.01	13.26
reaction time	0.174	interval	7 steps	1.13	1.11	1.14	1.15	1.18	1.19	1.15	1.19	1.25
wind	0.1 m/s	velocity	4.95	8.09	8.23	8.02	7.95	7.75	7.68	7.95	7.68	7.31

Henson (2024) - Athlete First: 2021 year end hurdle report

14.83 5 / 4

3.38 3.52 3.59
8.11 7.79 7.64**Uibo, Maicel (EST) (1992)**

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Games (Tokyo, JPN) (TV Analysis)											Henson (2024) - Athlete First: 2021 year end hurdle report				
2.70	3.86	5.03	6.20	7.32	8.46	9.68	10.83	12.04	13.26		14.83	5 / 5			
7 steps	1.16	1.17	1.17	1.12	1.14	1.22	1.15	1.21	1.22	1.57			3.50	3.48	3.58
5.08	7.88	7.81	7.81	8.16	8.02	7.49	7.95	7.55	7.49	8.93	7.42		7.83	7.88	7.66

Henson (2024) - Athlete First: 2021 year end hurdle report

Yamauti, Masanari (JPN)

FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)											Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season						
date	24-Oct-21	time	2.74	3.90	5.06	6.21	7.37	8.50	9.69	10.85	12.03	13.22	14.83	/ 5			
reaction time		interval		1.16	1.16	1.15	1.16	1.13	1.19	1.16	1.18	1.19	1.61		3.47	3.48	3.53
wind	1.0 m/s	velocity	5.01	7.88	7.88	7.95	7.88	8.09	7.68	7.88	7.75	7.68	8.71	7.42	7.90	7.88	7.77

Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season

Crittenden, Freddie (USA) (1994)

FINAL - 2023 London Athletics Meet (London, GBR)													Omega Timing (2023) - diamond league race analysis				
date	23-Jul-23	time	2.39	3.44	4.47	5.50	6.53	7.61	8.78	10.04	11.35	12.67	14.83	2 / 7			
reaction time	0.132	interval		1.05	1.03	1.03	1.03	1.08	1.17	1.26	1.31	1.32	2.16		3.11	3.28	3.89
wind	1.3 m/s	velocity	5.74	8.70	8.87	8.87	8.87	8.46	7.81	7.25	6.98	6.92	6.49	7.42	8.82	8.36	7.05

Omega Timing (2023) - diamond league race analysis

Sjöberg, Christian (SWE) (1984)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 Windsprint (Sundsvall, SWE)															
date	24-Jul-07	time		3.90		7.29		10.72					14.84	/ 7	
reaction time		interval				3.39		3.43			4.12				
wind	1.3 m/s	velocity		5.86		8.09		7.99			7.84		7.41		

(2007) - www.ssg.se/en/Windsprint/Split-times/

Igarashi, Rai (JPN) (1997)

Heat 1 - 2017 Mito Invitational (Mito, JPN)																	
(2017) - tfddata-store.com/2017/05/06/post-423/																	
date	05-May-17	time	2.76	3.91	5.06	6.23	7.38	8.54	9.70	10.86	12.05	13.24	14.84	3 / 6			
reaction time		interval		1.15	1.15	1.17	1.15	1.16	1.16	1.16	1.19	1.19	1.60		3.47	3.47	3.54
wind	0.3 m/s	velocity	4.97	7.95	7.95	7.81	7.95	7.88	7.88	7.88	7.68	7.68	8.76	7.41	7.90	7.90	7.75

(2017) - tfdata-store.com/2017/05/06/post-423/

Nakao, Kengo (JPN)

FINAL - 2017 Nambu Memorial (Sapporo, JPN)																(2017) - tfdata-store.com/2017/07/12/post-1025/			
date	09-Jul-17	time	2.82	4.01	5.19	6.34	7.49	8.62	9.80	10.96	12.13	13.31	14.84	3 / 8					
reaction time		interval		1.19	1.18	1.15	1.15	1.13	1.18	1.16	1.17	1.18	1.53			3.52	3.46	3.51	
wind	2.7 m/s	velocity	4.87	7.68	7.75	7.95	7.95	8.09	7.75	7.88	7.81	7.75	9.16	7.41		7.79	7.92	7.81	

(2017) - tfdata-store.com/2017/07/12/post-1025/

Degughi, Masaya (JPN)

FINAL - 2017 Nambu Memorial (Sapporo, JPN)													(2017) - tfdata-store.com/2017/07/12/post-1025/				
date	09-Jul-17	time	2.76	3.87	5.04	6.18	7.37	8.53	9.71	10.90	12.09	13.33	14.85	1 / 9			
reaction time		interval		1.11	1.17	1.14	1.19	1.16	1.18	1.19	1.19	1.24	1.52		3.42	3.53	3.62
wind	2.7 m/s	velocity	4.97	8.23	7.81	8.02	7.68	7.88	7.75	7.68	7.68	7.37	9.22	7.41	8.02	7.77	7.57

(2017) - tfdata-store.com/2017/07/12/post-1025/

Li Xiaodong (CHN) (1995)

Decathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)														CAA Hurdle Development (2019)			
date	23-Aug-19	time	2.79	3.94	5.09	6.26	7.41	8.58	9.78	10.94	12.11	13.30	14.86	4 / 1			
reaction time	0.165	interval		1.15	1.15	1.17	1.15	1.17	1.20	1.16	1.17	1.19	1.56	3.47	3.52	3.52	
wind	?? m/s	velocity	4.92	7.95	7.95	7.81	7.95	7.81	7.62	7.88	7.81	7.68	8.99	7.40	7.90	7.79	7.79

CAA Hurdle Development (2019)

Zhu Shenglong (CHN) (2000)

Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)														CAA Hurdle Development (2019)			
date	23-Aug-19	time	2.80	3.92	4.99	6.09	7.19	8.30	9.46	10.59	11.85	13.11	14.85	6 / 7			
reaction time	0.184	interval		1.12	1.07	1.10	1.10	1.11	1.16	1.13	1.26	1.26	1.74	3.29	3.37	3.65	
wind	-0.2 m/s	velocity	4.90	8.16	8.54	8.31	8.31	8.23	7.88	8.09	7.25	7.25	8.06	7.41	8.33	8.14	7.51

CAA Hurdle Development (2019)

Neugebauer, Leo (GER) (2000)

Decathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2022 year end hurdle report				
date	24-Jul-22	time	2.83	4.02	5.22	6.36	7.50	8.66	9.83	11.00	12.16	13.35	14.86	8 / 5			
reaction time	0.170	interval	7 steps	1.19	1.20	1.14	1.14	1.16	1.17	1.17	1.16	1.19	1.51	3.53	3.47	3.52	
wind	1.5 m/s	velocity	4.85	7.68	7.62	8.02	8.02	7.88	7.81	7.81	7.88	7.68	9.28	7.40	7.77	7.90	7.79

Henson (2024) - Athlete First: 2022 year end hurdle report

Imanishi, Ryota (JPN) (2004)

FINAL - 2022 Japanese National High School Championships (Naruto, JPN)										Kishima (2022) - national high school championships biomechanics data collection								
date	07-Aug-22	time	2.74	3.91	5.08	6.21	7.39	8.57	9.77	10.98	12.17	13.36	14.86	9 / 3				
reaction time	0.144	interval		1.17	1.17	1.13	1.18	1.18	1.20	1.21	1.19	1.19	1.50			3.47	3.56	3.59
wind	-3.8 m/s	velocity	5.01	7.81	7.81	8.09	7.75	7.75	7.62	7.55	7.68	7.68	9.35	7.40		7.90	7.70	7.64

Kishima (2022) - national high school championships biomechanics data collection

Penáz, Petr (CZE) (1991)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)															

Feher (2014) - Final report from the Czech Republic national championships

date	02-Aug-14	time	2.77	3.90	5.02	6.10	7.20	8.38	9.55	10.70	11.87	13.05	14.87	5 / 4				
reaction time	0.172	interval		1.13	1.12	1.08	1.10	1.18	1.17	1.15	1.17	1.18	1.82		3.33	3.45	3.50	
wind	-1.2 m/s	velocity	4.95	8.09	8.16	8.46	8.31	7.75	7.81	7.95	7.81	7.75	7.70	7.40	8.23	7.95	7.83	
Issei, Osaka (JPN) (2002)																		
FINAL B - 2016 Japanese Junior Olympics (Yokohama, JPN) (91cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										(2016.10.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en								
date	30-Oct-16	time	2.76	3.91	5.06	6.21	7.33	8.49	9.63	10.82	12.00	13.21	14.87	4 / 1				
reaction time		interval		1.15	1.15	1.15	1.12	1.16	1.14	1.19	1.18	1.21	1.66			3.45	3.42	3.58
wind	-0.8 m/s	velocity	4.97	7.95	7.95	7.95	8.16	7.88	8.02	7.68	7.75	7.55	8.45	7.40		7.95	8.02	7.66
Maeda, Takanori (JPN) (1997)																		
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										(2017) - tddata-store.com/2017/04/07/post-249/								
date	06-Apr-17	time	2.74	3.88	5.05	6.21	7.36	8.52	9.71	10.91	12.10	13.30	14.87	5 / 4				
reaction time		interval		1.14	1.17	1.16	1.15	1.16	1.19	1.20	1.19	1.20	1.57			3.47	3.50	3.59
wind	-1.8 m/s	velocity	5.01	8.02	7.81	7.88	7.95	7.88	7.68	7.62	7.68	7.62	8.93	7.40		7.90	7.83	7.64
Ma Lei (CHN) (1989)																		
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										CAA Hurdle Development (2019)								
date	09-Apr-19	time	2.94	4.10	5.22	6.34	7.46	8.59	9.71	10.87	12.04	13.24	14.87	2 / 8				
reaction time	0.328	interval	7 steps	1.16	1.12	1.12	1.12	1.13	1.12	1.16	1.17	1.20	1.63			3.40	3.37	3.53
wind	0.2 m/s	velocity	4.67	7.88	8.16	8.16	8.16	8.09	8.16	7.88	7.81	7.62	8.60	7.40		8.06	8.14	7.77
Uchida, Kaisei (JPN) (2004)																		
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Kishima (2022) - national high school championships biomechanics data collection								
date	07-Aug-22	time	2.72	3.90	5.07	6.24	7.42	8.58	9.78	10.98	12.18	13.39	14.87	5 / 4				
reaction time	0.159	interval		1.18	1.17	1.17	1.18	1.16	1.20	1.20	1.20	1.21	1.48			3.52	3.54	3.61
wind	-3.8 m/s	velocity	5.04	7.75	7.81	7.81	7.75	7.88	7.62	7.62	7.62	7.55	9.47	7.40		7.79	7.75	7.60
Pokorny, Martin (CZE) (1988)																		
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Feher (2014) - Final report from the Czech Republic national championships								
date	02-Aug-14	time	2.75	3.90	5.05	6.17	7.31	8.47	9.64	10.80	11.99	13.22	14.89	8 / 5				
reaction time	0.135	interval		1.15	1.15	1.12	1.14	1.16	1.17	1.16	1.19	1.23	1.67			3.42	3.47	3.58
wind	-1.2 m/s	velocity	4.99	7.95	7.95	8.16	8.02	7.88	7.81	7.88	7.68	7.43	8.40	7.39		8.02	7.90	7.66
Shizuki, Kondo (JPN)																		
Heat 1 B - 2016 Japanese Junior Olympics (Yokohama, JPN) (91cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										(2016.10.27) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en								
date	30-Oct-16	time	2.74	3.89	5.02	6.17	7.31	8.46	9.60	10.79	12.00	13.24	14.89	8 / 1				
reaction time		interval		1.15	1.13	1.15	1.14	1.15	1.14	1.19	1.21	1.24	1.65			3.43	3.43	3.64
wind	-0.6 m/s	velocity	5.01	7.95	8.09	7.95	8.02	7.95	8.02	7.68	7.55	7.37	8.50	7.39		7.99	7.99	7.53
Shizuki, Kondo (JPN)																		
FINAL B - 2016 Japanese Junior Olympics (Yokohama, JPN) (91cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										(2016.10.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en								
date	30-Oct-16	time	2.72	3.88	4.99	6.12	7.24	8.38	9.54	10.73	11.97	13.20	14.89	5 / 2				
reaction time		interval		1.16	1.11	1.13	1.12	1.14	1.16	1.19	1.24	1.23	1.69			3.40	3.42	3.66
wind	-0.8 m/s	velocity	5.04	7.88	8.23	8.09	8.16	8.02	7.88	7.68	7.37	7.43	8.30	7.39		8.06	8.02	7.49
Susami, Youhei (JPN) (2006)																		
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season								
date	24-Oct-21	time	2.73	3.90	5.05	6.23	7.37	8.56	9.72	10.92	12.08	13.30	14.89	/ 6				
reaction time		interval		1.17	1.15	1.18	1.14	1.19	1.16	1.20	1.16	1.22	1.59			3.50	3.49	3.58
wind	1.0 m/s	velocity	5.03	7.81	7.95	7.75	8.02	7.68	7.88	7.62	7.88	7.49	8.82	7.39		7.83	7.86	7.66
Adachi, Eiji (JPN) (2006)																		
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season								
date	24-Oct-21	time	2.73	3.92	5.07	6.25	7.42	8.61	9.79	10.97	12.13	13.32	14.89	/ 7				
reaction time		interval		1.19	1.15	1.18	1.17	1.19	1.18	1.18	1.16	1.19	1.57			3.52	3.54	3.53
wind	1.0 m/s	velocity	5.03	7.68	7.95	7.75	7.81	7.68	7.75	7.75	7.88	7.68	8.93	7.39		7.79	7.75	7.77
Bárta, Dan (CZE) (1998)																		
Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships								
date	28-Jun-14	time	2.79	3.94	5.08	6.22	7.33	8.50	9.67	10.86	12.08	13.28	14.90	4 / 1				
reaction time	0.166	interval		1.15	1.14	1.14	1.11	1.17	1.17	1.19	1.22	1.20	1.62			3.43	3.45	3.61
wind	-1.6 m/s	velocity	4.92	7.95	8.02	8.02	8.23	7.81	7.81	7.68	7.49	7.62	8.65	7.38		7.99	7.95	7.60
Ushiro, Keisuke (JPN) (1986)																		
Decathlon - Heat 1 - 2014 Japanese Multi-Event National Championships (Nagano, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Takeo (2014) - decathletes sprint ability & relationship of individual event performance								
date	01-Jun-14	time	2.76	3.92	5.06	6.21	7.38	8.54	9.71	10.91	12.08	13.30	14.90	1 / 6				
reaction time		interval		1.16	1.14	1.15	1.17	1.16	1.17	1.20	1.17	1.22	1.60			3.45	3.50	3.59
wind	0.1 m/s	velocity	4.97	7.88	8.02	7.95	7.81	7.88	7.81	7.62	7.81	7.49	8.76	7.38		7.95	7.83	7.64
Matta, Kizuku (JPN) (1999)																		
FINAL - 2017 Shimane High School Championships (Izumo, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis								
date	28-May-17	time	2.73	3.87	5.00	6.10	7.27	8.37	9.67	10.93	12.17	13.40	14.91	4 / 1				

reaction time		interval	1.14	1.13	1.10	1.17	1.10	1.30	1.26	1.24	1.23	1.51			3.37	3.57	3.73
wind	0.3 m/s	velocity	5.03	8.02	8.09	8.31	7.81	8.31	7.03	7.25	7.37	7.43	9.28	7.38	8.14	7.68	7.35

Morimoto, Kimihito (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)													Matsubayashi (2018) - research on athlete performance and technique					
date	17-Jun-18	time	2.70	3.89	5.07	6.23	7.39	8.55	9.76	10.95	12.13	13.35		14.91	5 / 1			
reaction time		interval		1.19	1.18	1.16	1.16	1.16	1.21	1.19	1.18	1.22	1.56			3.53	3.53	3.59
wind	0.5 m/s	velocity	5.08	7.68	7.75	7.88	7.88	7.88	7.55	7.68	7.75	7.49	8.99	7.38		7.77	7.77	7.64

Bondoreo, Sho (JPN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (99cm)										Kota (2019) - 72nd high school champs: JAF scientific committee - biomechanics data							
date	08-Aug-19	time	2.78	3.95	5.12	6.27	7.41	8.60	9.78	10.95	12.14	13.33	14.91	2 / 6			
reaction time		interval		1.17	1.17	1.15	1.14	1.19	1.18	1.17	1.19	1.19	1.58		3.49	3.51	3.55
wind	-3.0 m/s	velocity	4.94	7.81	7.81	7.95	8.02	7.68	7.75	7.81	7.68	7.68	8.87	7.38	7.86	7.81	7.72

Nowak, Tim (GER) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2022 year end hurdle report				
date	24-Jul-22	time	2.85	4.00	5.16	6.30	7.43	8.58	9.73	10.86	12.10	13.25	14.91	5 / 6			
reaction time	0.169	interval		1.15	1.16	1.14	1.13	1.15	1.15	1.13	1.24	1.15	1.66		3.45	3.43	3.52
wind	1.5 m/s	velocity	4.81	7.95	7.88	8.02	8.09	7.95	7.95	8.09	7.37	7.95	8.45	7.38	7.95	7.99	7.79

Erm, Johannes (EST) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)												Henson (2024) - Athlete First: 2023 year end hurdle report					
date	26-Aug-23	time	2.82	3.99	5.10	6.28	7.46	8.63	9.80	10.93	12.18	13.40	14.90	4 / 5			
reaction time	0.179	interval		1.17	1.11	1.18	1.18	1.17	1.17	1.13	1.25	1.22	1.50		3.46	3.52	3.60
wind	0.2 m/s	velocity	4.87	7.81	8.23	7.75	7.75	7.81	7.81	8.09	7.31	7.49	9.35	7.38	7.92	7.79	7.62

Uher, Jakub (CZE) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)										Feher (2013) - Final report from the men's & women's Czech Republic national championships							
date	15-Jun-13	time	2.78	3.94	5.07	6.23	7.39	8.53	9.73	10.90	12.11	13.29	14.92	6 / 4			
reaction time	0.170	interval		1.16	1.13	1.16	1.16	1.14	1.20	1.17	1.21	1.18	1.63		3.45	3.50	3.56
wind	-0.3 m/s	velocity	4.94	7.88	8.09	7.88	7.88	8.02	7.62	7.81	7.55	7.75	8.60	7.37	7.95	7.83	7.70

Ushiro, Keisuke (JPN) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN)												Matsubayashi (2018) - research on athlete performance and technique					
date	22-Apr-18	time	2.73	3.90	5.05	6.24	7.39	8.58	9.76	10.94	12.12	13.31	14.92	6 / 3			
reaction time		interval		1.17	1.15	1.19	1.15	1.19	1.18	1.18	1.18	1.19	1.61		3.51	3.52	3.55
wind	1.8 m/s	velocity	5.03	7.81	7.95	7.68	7.95	7.68	7.75	7.75	7.75	7.68	8.71	7.37	7.81	7.79	7.72

Shimizu, Tsuyoshi (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN)													Matsubayashi (2018) - research on athlete performance and technique					
date	22-Apr-18	time	2.73	3.90	5.05	6.24	7.39	8.58	9.76	10.94	12.12	13.31		14.92	2 / 6			
reaction time		interval		1.17	1.15	1.19	1.15	1.19	1.18	1.18	1.18	1.19	1.61			3.51	3.52	3.55
wind	1.8 m/s	velocity	5.03	7.81	7.95	7.68	7.95	7.68	7.75	7.75	7.75	7.68	8.71	7.37		7.81	7.79	7.72

Miyata, Ryusei (JPN) (2004)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)										Kishima (2022) - national high school championships biomechanics data collection							
date	07-Aug-22	time	2.70	3.85	5.02	6.16	7.30	8.47	9.66	10.92	12.12	13.36	14.92	8 / 5			
reaction time	0.159	interval		1.15	1.17	1.14	1.14	1.17	1.19	1.26	1.20	1.24	1.56		3.46	3.50	3.70
wind	-3.8 m/s	velocity	5.08	7.95	7.81	8.02	8.02	7.81	7.68	7.25	7.62	7.37	8.99	7.37	7.92	7.83	7.41

Ushiro, Keisuke (JPN) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat ?? - 2011 Japanese Multi-Event National Championships (Kawasaki, JPN)										Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro								
date	05-Jun-11	time	2.75	3.92	5.08	6.25	7.41	8.58	9.75	10.92	12.14	13.33	14.93	???				
reaction time		interval		1.17	1.16	1.17	1.16	1.17	1.17	1.17	1.22	1.19	1.60	PB		3.50	3.50	3.58
wind	-0.1 m/s	velocity	4.99	7.81	7.88	7.81	7.88	7.81	7.81	7.81	7.49	7.68	8.76	7.37		7.83	7.83	7.66

Nardelli, Alexander (CZE) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships								
date	28-Jun-14	time	2.87	4.04	5.21	6.37	7.50	8.65	9.79	10.96	12.12	13.34		14.93	8 / 2			
reaction time	0.372	interval		1.17	1.17	1.16	1.13	1.15	1.14	1.17	1.16	1.22	1.59			3.50	3.42	3.55
wind	-0.3 m/s	velocity	4.78	7.81	7.81	7.88	8.09	7.95	8.02	7.81	7.88	7.49	8.82	7.37		7.83	8.02	7.72

Kisiala, Jan (CZE) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships								
date	28-Jun-14	time	2.88	4.04	5.18	6.32	7.45	8.57	9.77	10.96	12.17	13.39		14.93	2 / 3			
reaction time	0.177	interval		1.16	1.14	1.14	1.13	1.12	1.20	1.19	1.21	1.22	1.54			3.44	3.45	3.62
wind	-3.7 m/s	velocity	4.76	7.88	8.02	8.02	8.09	8.16	7.62	7.68	7.55	7.49	9.10	7.37		7.97	7.95	7.57

Yokochi, Taiga (JPN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)												Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season					
date	21-Aug-23	time	2.63	3.75	4.83	5.95	7.08	8.18	9.35	10.53	11.79	13.08	14.93	1 / 9			
reaction time	0.173	interval	7 steps	1.12	1.08	1.12	1.13	1.10	1.17	1.18	1.26	1.29	1.85		3.32	3.40	3.73

wind	-0.2 m/s	velocity	5.22	8.16	8.46	8.16	8.09	8.31	7.81	7.75	7.25	7.09	7.58	7.37		8.26	8.06	7.35
Ushiro, Keisuke (JPN) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2014 Nittai University Distance Meeting (Wakayama, JPN)			Takeo (2014) - decathletes sprint ability & relationship of individual event performance															
date	27-Apr-14	time	2.79	3.92	5.07	6.24	7.41	8.58	9.78	10.97	12.16	13.38		14.95	5 / 1			
reaction time	0.122	interval		1.13	1.15	1.17	1.17	1.17	1.20	1.19	1.19	1.22	1.57			3.45	3.54	3.60
wind	0.0 m/s	velocity	4.92	8.09	7.95	7.81	7.81	7.81	7.62	7.68	7.68	7.49	8.93	7.36		7.95	7.75	7.62
Kavka, Tomáš (CZE) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)			Feher (2014) - Final report from the Czech Republic national championships															
date	02-Aug-14	time	2.77	3.93	5.03	6.21	7.35	8.53	9.69	10.85	12.08	13.27		14.95	7 / 6			
reaction time	0.122	interval		1.16	1.10	1.18	1.14	1.18	1.16	1.16	1.23	1.19	1.68			3.44	3.48	3.58
wind	-1.2 m/s	velocity	4.95	7.88	8.31	7.75	8.02	7.75	7.88	7.88	7.43	7.68	8.35	7.36		7.97	7.88	7.66
Yamamoto, Shunsuke (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Shimane High School Championships (Izumo, JPN)			Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis															
date	30-May-21	time	2.75	3.95	5.12	6.30	7.45	8.60	9.80	10.97	12.17	13.37		14.95	6 / 1			
reaction time		interval		1.20	1.17	1.18	1.15	1.15	1.20	1.17	1.20	1.20	1.58			3.55	3.50	3.57
wind	1.7 m/s	velocity	4.99	7.62	7.81	7.75	7.95	7.95	7.62	7.81	7.62	7.62	8.87	7.36		7.72	7.83	7.68
Wiesiolek, Pawel (POL) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			Henson (2024) - Athlete First: 2021 year end hurdle report															
date	05-Aug-21	time	2.77	3.93	5.08	6.28	7.45	8.58	9.72	10.88	12.08	13.28		14.95	6 / 6			
reaction time	0.154	interval	7 steps	1.16	1.15	1.20	1.17	1.13	1.14	1.16	1.20	1.20	1.67			3.51	3.44	3.56
wind	0.0 m/s	velocity	4.95	7.88	7.95	7.62	7.81	8.09	8.02	7.88	7.62	7.62	8.40	7.36		7.81	7.97	7.70
Zhuk, Vitaliy (BLR) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			Henson (2024) - Athlete First: 2021 year end hurdle report															
date	05-Aug-21	time	2.72	3.85	5.02	6.20	7.32	8.52	9.70	10.89	12.08	13.31		14.95	3 / 7			
reaction time	0.146	interval	7 steps	1.13	1.17	1.18	1.12	1.20	1.18	1.19	1.19	1.23	1.64			3.48	3.50	3.61
wind	0.0 m/s	velocity	5.04	8.09	7.81	7.75	8.16	7.62	7.75	7.69	7.67	7.43	8.55	7.36		7.88	7.83	7.60
Okuda, Keisuke (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2022 Michitaka Kinami Memorial (Osaka, JPN)			Takefu (2023) - performance analysis of decathlon athletes in the 2022 season															
date	01-May-22	time	2.79	3.96	5.13	6.30	7.47	8.65	9.84	11.03	12.23	13.44		14.95	5 / 3			
reaction time	0.132	interval		1.17	1.17	1.17	1.17	1.18	1.19	1.19	1.20	1.21	1.51			3.51	3.54	3.60
wind	1.2 m/s	velocity	4.92	7.81	7.81	7.81	7.81	7.75	7.68	7.68	7.62	7.55	9.28	7.36		7.81	7.75	7.62
Sajdok, Stanislav (CZE) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)			Feher (2014) - Final report from the Czech Republic national championships															
date	02-Aug-14	time	2.70	3.87	4.98	6.14	7.28	8.45	9.63	10.81	12.03	13.29		14.96	3 / 4			
reaction time	0.159	interval		1.17	1.11	1.16	1.14	1.17	1.18	1.18	1.22	1.26	1.67			3.44	3.49	3.66
wind	0.8 m/s	velocity	5.08	7.81	8.23	7.88	8.02	7.81	7.75	7.75	7.49	7.25	8.40	7.35		7.97	7.86	7.49
Takeuchi, Tomoki (JPN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)			Kishima (2022) - national high school championships biomechanics data collection															
date	07-Aug-22	time	2.70	3.86	5.02	6.16	7.34	8.52	9.70	10.92	12.17	13.45		14.96	2 / 6			
reaction time	0.157	interval		1.16	1.16	1.14	1.18	1.18	1.18	1.22	1.25	1.28	1.51			3.46	3.54	3.75
wind	-3.8 m/s	velocity	5.08	7.88	7.88	8.02	7.75	7.75	7.75	7.49	7.31	7.14	9.28	7.35		7.92	7.75	7.31
Skotheim, Sander (NOR) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			Henson (2024) - Athlete First: 2023 year end hurdle report															
date	26-Aug-23	time	2.78	3.90	5.06	6.18	7.36	8.55	9.78	10.96	12.18	13.38		14.96	6 / 6			
reaction time	0.169	interval		1.12	1.16	1.12	1.18	1.19	1.23	1.18	1.22	1.20	1.58			3.40	3.60	3.60
wind	0.2 m/s	velocity	4.94	8.16	7.88	8.16	7.75	7.68	7.43	7.75	7.49	7.62	8.87	7.35		8.06	7.62	7.62
Lindén, Samuel (SWE) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 Windsprint (Sundsvall, SWE)			(2008) - www.ssg.se/en/Windsprint/Split-times/															
date	06-Jul-08	time		3.97			7.42			10.93				14.97	2 / 4			
reaction time		interval					3.45			3.51			4.04					
wind	0.5 m/s	velocity		5.76			7.95			7.81			8.00	7.35				
Sysoyev, Aleksey (RUS) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)			Graubner (2009) - biomechanical analyses at the 12th IAAF world championships															
date	20-Aug-09	time	2.87	3.95	5.10	6.29	7.49	8.65	9.83	11.02	12.23	13.42		14.97	6 / 5			
reaction time	0.150	interval		1.08	1.15	1.19	1.20	1.16	1.18	1.19	1.21	1.19	1.55			3.42	3.54	3.59
wind	0.0 m/s	velocity	4.78	8.46	7.95	7.68	7.62	7.88	7.75	7.68	7.55	7.68	9.05	7.35		8.02	7.75	7.64
Andersson, Andreas (SWE) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Windsprint (Sundsvall, SWE)			(2013) - www.ssg.se/windsprint/Splittider/															
date	28-Jul-13	time	2.78	3.96	5.08	6.20	7.35	8.56	9.75	10.94	12.14	13.35		14.97	8 / 8			
reaction time		interval		1.18	1.12	1.12	1.15	1.21	1.19	1.19	1.20	1.21	1.62	PB		3.42	3.55	3.60
wind	1.7 m/s	velocity	4.94	7.75	8.16	8.16	7.95	7.55	7.68	7.68	7.62	7.55	8.65	7.35		8.02	7.72	7.62

Takaya, Yasuda (JPN)																
FINAL	- 2017 Osaka University Athletics Championships (Osaka, JPN)															
date	06-Apr-17	time	2.73	3.90	5.07	6.23			10.98	12.19	13.42		14.97		9 / 5	
reaction time	0.193	interval		1.17	1.17	1.16			4.75	1.21	1.23	1.55			3.50	
wind	-1.8 m/s	velocity	5.03	7.81	7.81	7.88			7.70	7.55	7.43	9.05	7.35		7.83	
Yang Quanlei (CHN) (1999)																
Heat 2	- 2019 Chinese National Grand Prix Final (Daqing, CHN)															
date	23-Aug-19	time	2.74	3.89	5.03	6.19	7.35	8.52	9.72	10.93	12.16	13.38	14.97		8 / 7	
reaction time	0.145	interval		1.15	1.14	1.16	1.16	1.17	1.20	1.21	1.23	1.22	1.59		3.45	3.53
wind	-0.2 m/s	velocity	5.01	7.95	8.02	7.88	7.88	7.81	7.62	7.55	7.43	7.49	8.82	7.35	7.95	7.77
Asai, Seira (JPN) (2006)																
FINAL	- 2022 Japanese National High School Championships (Naruto, JPN)															
date	07-Aug-22	time	2.74	3.88	5.03	6.19	7.35	8.50	9.70	10.92	12.17	13.40	14.97		3 / 7	
reaction time	0.145	interval		1.14	1.15	1.16	1.16	1.15	1.20	1.22	1.25	1.23	1.57		3.45	3.51
wind	-3.8 m/s	velocity	5.01	8.02	7.95	7.88	7.88	7.95	7.62	7.49	7.31	7.43	8.93	7.35	7.95	7.81
Masahiro, Takahashi (JPN)																
FINAL	- 2017 Osaka University Athletics Championships (Osaka, JPN)															
date	06-Apr-17	time	2.76	3.92			8.58	9.79	10.98	12.18	13.41		14.98		2 / 6	
reaction time		interval		1.16			4.66	1.21	1.19	1.20	1.23	1.57				3.62
wind	-1.8 m/s	velocity	4.97	7.88			7.85	7.55	7.68	7.62	7.43	8.93	7.34			7.57
Cabral, Johnathan (CAN) (1992)																
Semi-Final 3	- 2017 IAAF World Championships (London, GBR)															
date	06-Aug-17	time	2.51	3.59	4.63	5.67	6.70	7.76	8.86	10.03	11.33	12.77	14.98		8 / 7	
reaction time	0.174	interval	7 steps	1.08	1.04	1.04	1.03	1.06	1.10	1.17	1.30	1.44	2.21		3.16	3.19
wind	0.3 m/s	velocity	5.47	8.46	8.79	8.79	8.87	8.62	8.31	7.81	7.03	6.35	6.34	7.34	8.68	8.60
Acson, Dennis (SWE) (1981)																
FINAL	- 2011 Windsprint (Sundsvall, SWE)															
date	31-Jul-11	time	2.74	3.85	4.97	6.09	7.24						14.99		/ 5	
reaction time		interval		1.11	1.12	1.12	1.15								3.35	
wind	2.8 m/s	velocity	5.01	8.23	8.16	8.16	7.95						7.34		8.19	
Kisiala, Jan (CZE) (1998)																
Heat 3	- 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)															
date	28-Jun-14	time	2.88	4.05	5.20	6.35	7.50	8.65	9.81	10.98	12.18	13.39	14.99		5 / 2	
reaction time	0.168	interval		1.17	1.15	1.15	1.15	1.15	1.16	1.17	1.20	1.21	1.60		3.47	3.46
wind	-1.6 m/s	velocity	4.76	7.81	7.95	7.95	7.95	7.95	7.88	7.81	7.62	7.55	8.76	7.34	7.90	7.92
Adachi, Hayato (JPN)																
FINAL	- 2019 Shimane High School Championships (Izumo, JPN)															
date	26-May-19	time	2.82	3.99	5.14	6.29	7.47	8.62	9.79	11.01	12.24	13.42	14.99		4 / 1	
reaction time		interval		1.17	1.15	1.15	1.18	1.15	1.17	1.22	1.23	1.18	1.57		3.47	3.50
wind	2.3 m/s	velocity	4.87	7.81	7.95	7.95	7.75	7.95	7.81	7.49	7.43	7.75	8.93	7.34	7.90	7.83
Hamadi, Fadane (COM) (1992)																
Heat 3	- 2020 Olympic Games (Tokyo, JPN) (TV Analysis)															
date	03-Aug-21	time	2.80	3.96	5.08	6.22							14.99		8 / 8	
reaction time	0.189	interval		1.16	1.12	1.14									3.42	
wind	-0.1 m/s	velocity	4.90	7.88	8.16	8.02							7.34		8.02	
Tuček, Martin (CZE) (1995)																
Heat 2	- 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)															
date	28-Jun-14	time	2.73	3.86	4.99	6.13	7.29	8.43	9.60	10.77	11.99	13.20	15.00		4 / 2	
reaction time	0.154	interval		1.13	1.13	1.14	1.16	1.14	1.17	1.17	1.22	1.21	1.80		3.40	3.47
wind	-2.9 m/s	velocity	5.03	8.09	8.09	8.02	7.88	8.02	7.81	7.81	7.49	7.55	7.79	7.33	8.06	7.90
Schmöger, Martin (CZE) (1995)																
FINAL	- 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)															
date	28-Jun-14	time	2.83	4.00	5.15	6.29	7.46	8.59	9.78	10.97	12.16	13.35	15.00		2 / 6	
reaction time	0.174	interval		1.17	1.15	1.14	1.17	1.13	1.19	1.19	1.19	1.19	1.65		3.46	3.49
wind	-2.2 m/s	velocity	4.85	7.81	7.95	8.02	7.81	8.09	7.68	7.68	7.68	7.68	8.50	7.33	7.92	7.86
Yoneyama, Aiki (JPN) (2004)																
FINAL	- 2022 Japanese National High School Championships (Naruto, JPN)															
date	07-Aug-22	time	2.69	3.84	4.99	6.12	7.26	8.38	9.65	10.92	12.22	13.47	15.00		7 / 8	
reaction time	0.124	interval		1.15	1.15	1.13	1.14	1.12	1.27	1.27	1.30	1.25	1.53		3.43	3.53
wind	-3.8 m/s	velocity	5.10	7.95	7.95	8.09	8.02	8.16	7.20	7.20	7.03	7.31	9.16	7.33	7.99	7.77

Ushiroy, Keisuke (JPN) (1986)																
Decathlon - Heat 2 - 2012 Japanese Multi-Event National Championships (Nagano, JPN)																
date	03-Jun-12	time	2.76	3.93	5.10	6.25	7.41	8.58	9.78	10.98	12.19	13.42		15.01	5 / 2	
reaction time		interval		1.17	1.17	1.15	1.16	1.17	1.20	1.20	1.21	1.23	1.59		3.49	3.53
wind	-1.7 m/s	velocity	4.97	7.81	7.81	7.95	7.88	7.81	7.62	7.62	7.55	7.43	8.82	7.33	7.86	7.77
Forsberg, Anton (SWE) (1991)																
FINAL - 2010 Swedish National Championships (Falun, SWE)																
date	22-Aug-10	time	2.82	4.00	5.15	6.30	7.43	8.59	9.78	10.97	12.16	13.39		15.02	/ 6	
reaction time		interval		1.18	1.15	1.15	1.13	1.16	1.19	1.19	1.19	1.23	1.63		3.48	3.48
wind	-0.7 m/s	velocity	4.87	7.75	7.95	7.95	8.09	7.88	7.68	7.68	7.68	7.43	8.60	7.32	7.88	7.88
Schmöger, Martin (CZE) (1995)																
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)																
date	28-Jun-14	time	2.81	3.94	5.13	6.27	7.43	8.58	9.68	10.94	12.16	13.38		15.02	5 / 2	
reaction time	0.215	interval		1.13	1.19	1.14	1.16	1.15	1.10	1.26	1.22	1.22	1.64		3.46	3.41
wind	-1.6 m/s	velocity	4.88	8.09	7.68	8.02	7.88	7.95	8.31	7.25	7.49	7.49	8.55	7.32	7.92	8.04
Pokorny, Martin (CZE) (1988)																
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)																
date	02-Aug-14	time	2.75	3.93	5.11	6.26	7.41	8.56	9.75	10.91	12.12	13.34		15.02	6 / 3	
reaction time	0.156	interval		1.18	1.18	1.15	1.15	1.15	1.19	1.16	1.21	1.22	1.68		3.51	3.49
wind	-1.6 m/s	velocity	4.99	7.75	7.75	7.95	7.95	7.95	7.68	7.88	7.55	7.49	8.35	7.32	7.81	7.86
Tian Yang (CHN) (1997)																
Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)																
date	11-Jul-19	time	2.85	4.00	5.15	6.29	7.44	8.61	9.77	10.96	12.14	13.40		15.02	2 / 3	
reaction time	0.223	interval		1.15	1.15	1.14	1.15	1.17	1.16	1.19	1.18	1.26	1.62	PB	3.44	3.48
wind	-0.1 m/s	velocity	4.81	7.95	7.95	8.02	7.95	7.81	7.88	7.68	7.75	7.25	8.65	7.32	7.97	7.88
Rykl, Radoš (CZE) (1995)																
Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)																
date	28-Jun-14	time	2.85	4.00	5.17	6.34	7.48	8.68	9.83	11.00	12.22	13.39		15.04	6 / 2	
reaction time	0.253	interval		1.15	1.17	1.17	1.14	1.20	1.15	1.17	1.22	1.17	1.65		3.49	3.49
wind	-2.5 m/s	velocity	4.81	7.95	7.81	7.81	8.02	7.62	7.95	7.81	7.49	7.81	8.50	7.31	7.86	7.86
Ushiroy, Keisuke (JPN) (1986)																
Decathlon - Heat 1 - 2013 Wakayama Athletics Meeting (Wakayama, JPN)																
date	28-Apr-13	time	2.80	3.97	5.12	6.29	7.46	8.64	9.82	11.03	12.21	13.43		15.05	3 / 1	
reaction time		interval		1.17	1.15	1.17	1.17	1.18	1.18	1.21	1.18	1.22	1.62		3.49	3.53
wind	0.8 m/s	velocity	4.90	7.81	7.95	7.81	7.81	7.75	7.75	7.55	7.75	7.49	8.65	7.31	7.86	7.77
Nemec, Jan (CZE) (1997)																
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)																
date	28-Jun-14	time	2.89	4.09	5.30	6.44	7.60	8.76	9.94	11.11	12.28	13.47		15.05	4 / 3	
reaction time	0.236	interval		1.20	1.21	1.14	1.16	1.16	1.18	1.17	1.17	1.19	1.58		3.55	3.50
wind	-0.3 m/s	velocity	4.75	7.62	7.55	8.02	7.88	7.88	7.75	7.81	7.81	7.68	8.87	7.31	7.72	7.83
Ushiroy, Keisuke (JPN) (1986)																
Decathlon - Heat 2 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)																
date	17-Jun-18	time	2.71	3.87	5.03	6.21	7.37	8.55	9.74	10.94	12.17	13.42		15.05	4 / 5	
reaction time		interval		1.16	1.16	1.18	1.16	1.18	1.19	1.20	1.23	1.25	1.63		3.50	3.53
wind	0.5 m/s	velocity	5.06	7.88	7.88	7.75	7.88	7.75	7.68	7.62	7.43	7.31	8.60	7.31	7.83	7.77
Skotheim, Sander (NOR) (2002)																
Decathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																
date	24-Jul-22	time	2.83	4.03	5.24	6.40	7.60	8.76	9.95	11.10	12.28	13.48		15.05	7 / 7	
reaction time	0.138	interval		1.20	1.21	1.16	1.20	1.16	1.19	1.15	1.18	1.20	1.57		3.57	3.55
wind	1.5 m/s	velocity	4.85	7.62	7.55	7.88	7.62	7.88	7.68	7.95	7.75	7.62	8.93	7.31	7.68	7.72
Kubeš, Jiri (CZE) (1995)																
Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)																
date	28-Jun-14	time	2.80	3.95	5.11	6.25	7.43	8.62	9.80	11.00	12.20	13.43		15.06	5 / 3	
reaction time	0.203	interval		1.15	1.16	1.14	1.18	1.19	1.18	1.20	1.20	1.23	1.63		3.45	3.55
wind	-2.5 m/s	velocity	4.90	7.95	7.88	8.02	7.75	7.68	7.75	7.62	7.62	7.43	8.60	7.30	7.95	7.72
Nilsson, Marcus (SWE) (1991)																
Decathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																
date	26-Aug-23	time	2.86	4.07	5.23	6.40	7.53	8.70	9.88	11.06	12.25	13.45		15.06	5 / 6	
reaction time	0.183	interval		1.21	1.16	1.17	1.13	1.17	1.18	1.18	1.19	1.20	1.61		3.54	3.48
wind	0.2 m/s	velocity	4.80	7.55	7.88	7.81	8.09	7.81	7.75	7.75	7.68	7.62	8.71	7.30	7.75	7.88
Nardelli, Alexander (CZE) (1997)																

FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)

date	28-Jun-14	time	2.86	4.02	5.18	6.35	7.52	8.71	9.90	11.08	12.27	13.45	15.07	6 / 4			
reaction time	0.229	interval		1.16	1.16	1.17	1.17	1.19	1.19	1.18	1.19	1.18	1.62		3.49	3.55	3.55
wind	-3.7 m/s	velocity	4.80	7.88	7.88	7.81	7.81	7.68	7.68	7.75	7.68	7.75	8.65	7.30	7.86	7.72	7.72

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

Wen Qingming (CHN) (2002)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Decathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN) CAA Hurdle Development (2021)

date	27-Jun-21	time	2.85	4.07	5.24	6.42	7.57	8.74	9.91	11.11	12.29	13.53	15.07	7 / 2			
reaction time	0.172	interval		1.22	1.17	1.18	1.15	1.17	1.17	1.20	1.18	1.24	1.54		3.57	3.49	3.62
wind	-0.2 m/s	velocity	4.81	7.49	7.81	7.75	7.95	7.81	7.81	7.62	7.75	7.37	9.10	7.30	7.68	7.86	7.57

Špičák, Daniel (CZE) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm) Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

date	28-Jun-14	time	2.96	4.11	5.29	6.48	7.65	8.80	9.95	11.15	12.34	13.55	15.09	8 / 5			
reaction time	0.288	interval		1.15	1.18	1.19	1.17	1.15	1.15	1.20	1.19	1.21	1.54		3.52	3.47	3.60
wind	-3.7 m/s	velocity	4.64	7.95	7.75	7.68	7.81	7.95	7.95	7.62	7.68	7.55	9.10	7.29	7.79	7.90	7.62

Zhang Shuaiyin (CHN) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Decathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN) CAA Hurdle Development (2021)

date	27-Jun-21	time	2.80	3.97	5.14	6.31	7.47	8.64	9.81	10.99	12.19	13.45	15.09	6 / 3			
reaction time	0.163	interval		1.17	1.17	1.17	1.16	1.17	1.17	1.18	1.20	1.26	1.64		3.51	3.50	3.64
wind	-0.2 m/s	velocity	4.90	7.81	7.81	7.81	7.88	7.81	7.81	7.75	7.62	7.25	8.55	7.29	7.81	7.83	7.53

Fei Xiang (CHN) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Decathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN) CAA Hurdle Development (2019)

date	11-Jul-19	time	2.82	4.00	5.17	6.34	7.52	8.71	9.89	11.11	12.31	13.54	15.10	3 / 3			
reaction time	0.165	interval		1.18	1.17	1.17	1.18	1.19	1.18	1.22	1.20	1.23	1.56	PB	3.52	3.55	3.65
wind	-0.6 m/s	velocity	4.87	7.75	7.81	7.81	7.75	7.68	7.75	7.49	7.62	7.43	8.99	7.28	7.79	7.72	7.51

Zhang Zhen (CHN) (1996)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN) CAA Hurdle Development (2019)

date	11-Jul-19	time	2.83	4.00	5.13	6.29	7.43	8.59	9.77	10.96	12.18	13.42	15.10	3 / 4			
reaction time	0.169	interval		1.17	1.13	1.16	1.14	1.16	1.18	1.19	1.22	1.24	1.68		3.46	3.48	3.65
wind	-0.1 m/s	velocity	4.85	7.81	8.09	7.88	8.02	7.88	7.75	7.68	7.49	7.37	8.35	7.28	7.92	7.88	7.51

Dubler, Cedric (AUS) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Decathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis) Henson (2024) - Athlete First: 2021 year end hurdle report

date	05-Aug-21	time	2.70	3.88	5.05	6.23	7.38	8.61	9.82	10.97	12.18		15.10	4 / 8			
reaction time	0.129	interval		1.18	1.17	1.18	1.15	1.23	1.21	1.15	1.21				3.53	3.59	
wind	-1.0 m/s	velocity	5.08	7.75	7.81	7.75	7.95	7.43	7.55	7.95	7.55			7.28	7.77	7.64	

Kumagai, Gen (JPN)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN) (2017) - tfdata-store.com/2017/04/07/post-249/

date	06-Apr-17	time	2.71	3.89	5.06	6.27	7.46	8.69	9.91	11.08	12.33	13.58	15.11	3 / 7			
reaction time		interval		1.18	1.17	1.21	1.19	1.23	1.22	1.17	1.25	1.25	1.53		3.56	3.64	3.67
wind	-1.8 m/s	velocity	5.06	7.75	7.81	7.55	7.68	7.43	7.49	7.81	7.31	7.31	9.16	7.28	7.70	7.53	7.47

Long Wei (CHN) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN) CAA Hurdle Development (2019)

date	23-Aug-19	time	2.77	3.94	5.11	6.27	7.46	8.67	9.86	11.08	12.29	13.51	15.11	2 / 8			
reaction time	0.199	interval		1.17	1.17	1.16	1.19	1.21	1.19	1.22	1.21	1.22	1.60		3.50	3.59	3.65
wind	-0.2 m/s	velocity	4.95	7.81	7.81	7.88	7.68	7.55	7.68	7.49	7.55	7.49	8.76	7.28	7.83	7.64	7.51

Ziemek, Zachery (USA) (1993)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Decathlon - Heat 1 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympic Games - Results Book (2024)

date	03-Aug-24	time	2.56	3.79	4.96	6.13	7.32	8.51	9.72	10.90	12.13	13.35	15.11	7 / 6			
reaction time	0.145	interval	7 steps	1.23	1.23	1.17	1.17	1.19	1.21	1.18	1.23	1.22	1.76		3.57	3.59	3.63
wind	0.2 m/s	velocity	5.36	7.43	7.81	7.81	7.68	7.68	7.55	7.75	7.43	7.49	7.97	7.28	7.68	7.64	7.55

Zhang Tao (CHN) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN) CAA Hurdle Development (2021)

date	24-Apr-21	time	2.72	3.91	5.04	6.21	7.38	8.54	9.73	10.93	12.16	13.37	15.13	7 / 7			
reaction time	0.186	interval		1.19	1.13	1.17	1.17	1.16	1.19	1.20	1.23	1.21	1.76		3.49	3.52	3.64
wind	-1.2 m/s	velocity	5.04	7.68	8.09	7.81	7.81	7.88	7.68	7.62	7.43	7.55	7.97	7.27	7.86	7.79	7.53

Almgren, Daniel (SWE) (1979)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Decathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - biomechanical analyses at the 12th IAAF world championships

date	20-Aug-09	time	2.89	4.08	5.25	6.39	7.53	8.75	9.93	11.11	12.31	13.52	15.14	3 / 6			
reaction time	0.193	interval		1.19	1.17	1.14	1.14	1.22	1.18	1.18	1.20	1.21	1.62		3.50	3.54	3.59
wind	0.0 m/s	velocity	4.75	7.68	7.81	8.02	8.02	7.49	7.75	7.75	7.62	7.55	8.65	7.27	7.83	7.75	7.64

Shizuki, Kondo (JPN)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Semi-Final 3 B - 2016 Japanese Junior Olympics (Yokohama, JPN) (91cm) (2016.10.27) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en

date	30-Oct-16	time	2.75	3.91	5.03	6.16	7.33	8.49	9.66	10.87	12.10	13.38		15.14		7 / 1			
reaction time		interval		1.16	1.12	1.13	1.17	1.16	1.17	1.21	1.23	1.28	1.76				3.41	3.50	3.72
wind	-0.8 m/s	velocity	4.99	7.88	8.16	8.09	7.81	7.88	7.81	7.55	7.43	7.14	7.97	7.27			8.04	7.83	7.37
Ushiuro, Keisuke (JPN) (1986)																			
Decathlon - Heat 2 - 2020 Japanese Multi-Event National Championships (Nagano, JPN)										<i>Matsubayashi (2020) - research athlete performance technique- 2020 databook</i>									
date	27-Sep-20	time	2.80	3.97	5.12	6.30	7.47	8.63	9.81	11.03	12.25	13.47		15.14		4 / 7			
reaction time		interval		1.17	1.15	1.18	1.17	1.16	1.18	1.22	1.22	1.22	1.67				3.50	3.51	3.66
wind	1.1 m/s	velocity	4.90	7.81	7.95	7.75	7.81	7.88	7.75	7.49	7.49	7.49	8.40	7.27			7.83	7.81	7.49
Tan Junyu (CHN) (2004)																			
Heat 2 - 2021 National Grand Prix (Chengdu, CHN)										<i>CAA Hurdle Development (2021)</i>									
date	02-Apr-21	time	2.80	3.96	5.16	6.32	7.52	8.72	9.92	11.10	12.32	13.54		15.14		4 / 4			
reaction time	0.218	interval		1.16	1.20	1.16	1.20	1.20	1.20	1.18	1.22	1.22	1.60				3.52	3.60	3.62
wind	0.3 m/s	velocity	4.90	7.88	7.62	7.88	7.62	7.62	7.62	7.75	7.49	7.49	8.76	7.76			7.79	7.62	7.57
Mališka, Rostislav (CZE) (1998)																			
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)										<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>									
date	28-Jun-14	time	2.86	4.05	5.19	6.38	7.53	8.70	9.87	11.03	12.25	13.50		15.15		4 / 2			
reaction time	0.228	interval		1.19	1.14	1.19	1.15	1.17	1.17	1.16	1.22	1.25	1.65				3.52	3.49	3.63
wind	-4.1 m/s	velocity	4.80	7.68	8.02	7.68	7.95	7.81	7.81	7.88	7.49	7.31	8.50	7.26			7.79	7.86	7.55
Yan Yuwei (CHN) (2002)																			
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)										<i>CAA Hurdle Development (2019)</i>									
date	14-Aug-19	time	2.75	3.93	5.12	6.29	7.47	8.64	9.84	11.03	12.24	13.46		15.15		3 / 7			
reaction time	0.172	interval		1.18	1.19	1.17	1.18	1.17	1.20	1.19	1.21	1.22	1.69				3.54	3.55	3.62
wind	-0.1 m/s	velocity	4.99	7.75	7.68	7.81	7.75	7.81	7.62	7.68	7.55	7.49	8.30	7.26			7.75	7.72	7.57
Tian Yang (CHN) (1997)																			
Decathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)										<i>CAA Hurdle Development (2021)</i>									
date	27-Jun-21	time	2.85	4.02	5.19	6.35	7.52	8.69	9.88	11.04	12.24	13.50		15.15		8 / 4			
reaction time	0.273	interval		1.17	1.17	1.16	1.17	1.17	1.19	1.16	1.20	1.26	1.65				3.50	3.53	3.62
wind	-0.2 m/s	velocity	4.81	7.81	7.81	7.88	7.81	7.81	7.68	7.88	7.62	7.25	8.50	7.26			7.83	7.77	7.57
Golubovic, Daniel (AUS) (1993)																			
Decathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)										<i>Paris 2024 Olympic Games - Results Book (2024)</i>									
date	03-Aug-24	time	2.60	3.80	4.98	6.15	7.30	8.46	9.64	10.84	12.04	13.25		15.15		4 / 7			
reaction time	0.166	interval		1.20	1.18	1.17	1.15	1.16	1.18	1.20	1.20	1.21	1.90				3.55	3.49	3.61
wind	0.2 m/s	velocity	5.28	7.62	7.75	7.81	7.95	7.88	7.75	7.62	7.62	7.55	7.38	7.26			7.72	7.86	7.60
Forsberg, Anton (SWE) (1991)																			
B FINAL - 2010 Folsam GP (Sollentuna, SWE)										<i>Blomkvist (2010) - www.sub13.se</i>									
date	01-Jul-10	time	2.60	3.77	4.90	6.05	7.24	8.33	9.55	10.72	11.97	13.28		15.16		1 / 3			
reaction time		interval		1.17	1.13	1.15	1.19	1.09	1.22	1.17	1.25	1.31	1.88	PB			3.45	3.50	3.73
wind	0.8 m/s	velocity	5.28	7.81	8.09	7.95	7.68	8.39	7.49	7.81	7.31	6.98	7.46	7.26			7.95	7.83	7.35
Ushiuro, Keisuke (JPN) (1986)																			
Decathlon - Heat 1 - 2014 Asian Games (Incheon, KOR)										<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>									
date	01-Oct-14	time	2.78	3.97	5.15	6.31	7.47	8.65	9.85	11.07	12.30	13.54		15.16		1 / 4			
reaction time	0.196	interval		1.19	1.18	1.16	1.16	1.18	1.20	1.22	1.23	1.24	1.62				3.53	3.54	3.69
wind	1.7 m/s	velocity	4.94	7.68	7.75	7.88	7.88	7.75	7.62	7.49	7.43	7.37	8.65	7.26			7.77	7.75	7.43
Gustafsson, Josua (SWE) (1988)																			
FINAL - 2010 Swedish National Championships (Falun, SWE)										<i>Blomkvist (2010) - www.sub13.se</i>									
date	22-Aug-10	time	2.80	3.97	5.17	6.33	7.49	8.69	9.89	11.10	12.31	13.54		15.17		1 / 7			
reaction time		interval		1.17	1.20	1.16	1.16	1.20	1.20	1.21	1.21	1.23	1.63				3.53	3.56	3.65
wind	-0.7 m/s	velocity	4.90	7.81	7.62	7.88	7.88	7.62	7.62	7.55	7.55	7.43	8.60	7.25			7.77	7.70	7.51
Špičák, Daniel (CZE) (1997)																			
Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)										<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>									
date	28-Jun-14	time	2.83	4.04	5.21	6.39	7.56	8.74	9.92	11.16	12.37	13.61		15.18		1 / 3			
reaction time	0.170	interval		1.21	1.17	1.18	1.17	1.18	1.18	1.24	1.21	1.24	1.57				3.56	3.53	3.69
wind	-1.6 m/s	velocity	4.85	7.55	7.81	7.75	7.81	7.75	7.75	7.37	7.55	7.37	8.93	7.25			7.70	7.77	7.43
Guo Qi (CHN) (1990)																			
Decathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)										<i>CAA Hurdle Development (2021)</i>									
date	27-Jun-21	time	2.78	3.99	5.17	6.35	7.52	8.71	9.89	11.08	12.28	13.53		15.18		5 / 4			
reaction time	0.188	interval	7 steps	1.21	1.18	1.18	1.17	1.19	1.18	1.19	1.20	1.25	1.65				3.57	3.54	3.64
wind	-0.2 m/s	velocity	4.94	7.55	7.75	7.75	7.81	7.68	7.75	7.68	7.62	7.31	8.50	7.25			7.68	7.75	7.53
Li Shuo (CHN) (1994)																			
Decathlon - Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)										<i>CAA Hurdle Development (2019)</i>									
date	11-Jul-19	time	2.87	4.07	5.25	6.42	7.59	8.76	9.94	11.13	12.34	13.56		15.19		3 / 3			

reaction time	0.179	interval	1.20	1.18	1.17	1.17	1.17	1.18	1.19	1.21	1.22	1.63			3.55	3.52	3.62
wind	0.0 m/s	velocity	4.78	7.62	7.75	7.81	7.81	7.81	7.75	7.68	7.55	7.49	8.60	7.24	7.72	7.79	7.57

Desensky, Lukáš (CZE) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)																		
date	28-Jun-14	time	2.77	3.95	5.12	6.32	7.49	8.70	9.88	11.08	12.28	13.53		15.20		2 / 4		
<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																		
reaction time	0.201	interval	1.18	1.17	1.20	1.17	1.21	1.18	1.20	1.20	1.25	1.67				3.55	3.56	3.65
wind	-1.6 m/s	velocity	4.95	7.75	7.81	7.62	7.81	7.55	7.75	7.62	7.62	7.31	8.40	7.24		7.72	7.70	7.51

Ushiro, Keisuke (JPN) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2011 IAAF World Championships (Daegu, KOR)																		
date	28-Aug-11	time	2.77	3.92	5.09	6.28	7.45	8.66	9.88	11.10	12.34	13.57		15.20		5 / 6		
<i>Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro</i>																		
reaction time	0.167	interval	1.15	1.17	1.19	1.17	1.21	1.22	1.22	1.24	1.23	1.63				3.51	3.60	3.69
wind	-0.1 m/s	velocity	4.95	7.95	7.81	7.68	7.81	7.55	7.49	7.49	7.37	7.43	8.60	7.24		7.81	7.62	7.43

Kyogoku, Fumiya (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Shimane High School Championships (Izumo, JPN)																		
date	28-May-17	time	2.87	4.07	5.23	6.40	7.57	8.73	9.90	11.13	12.37	13.60		15.20		8 / 2		
<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>																		
reaction time		interval	1.20	1.16	1.17	1.17	1.16	1.17	1.23	1.24	1.23	1.60				3.53	3.50	3.70
wind	0.3 m/s	velocity	4.78	7.62	7.88	7.81	7.81	7.88	7.81	7.43	7.37	7.43	8.76	7.24		7.77	7.83	7.41

Moriki, Hiroto (JPN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Shimane High School Championships (Izumo, JPN)																		
date	28-May-22	time	2.78	3.98	5.23	6.42	7.60	8.80	10.00	11.20	12.42	13.63		15.20		5 / 2		
<i>Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis</i>																		
reaction time		interval	1.20	1.25	1.19	1.18	1.20	1.20	1.20	1.22	1.21	1.57				3.64	3.58	3.63
wind	0.6 m/s	velocity	4.94	7.62	7.31	7.68	7.75	7.62	7.62	7.62	7.49	7.55	8.93	7.24		7.53	7.66	7.55

Pokorny, Martin (CZE) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)																		
date	15-Jun-13	time	2.77	3.94	5.10	6.26	7.43	8.58	9.75	10.98	12.20	13.46		15.21		6 / 4		
<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>																		
reaction time	0.155	interval	1.17	1.16	1.16	1.17	1.15	1.17	1.23	1.22	1.26	1.75				3.49	3.49	3.71
wind	-0.6 m/s	velocity	4.95	7.81	7.88	7.88	7.81	7.95	7.81	7.43	7.49	7.25	8.01	7.23		7.86	7.86	7.39

Yazawa, Wataru (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 2 - 2020 World Athletics Trials (Fuji, JPN)																		
date	06-Sep-20	time	2.83	4.00	5.18	6.38	7.56	8.74	9.93	11.12	12.36	13.61		15.21		2 / 6		
<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>																		
reaction time		interval	7 steps	1.17	1.18	1.20	1.18	1.18	1.19	1.19	1.24	1.25	1.60			3.55	3.55	3.68
wind	1.3 m/s	velocity	4.85	7.81	7.75	7.62	7.75	7.75	7.68	7.68	7.37	7.31	8.76	7.23		7.72	7.72	7.45

Sekiguchi, Sekigori (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Gunma Prefecture High School Championships (Gunma, JPN)																		
date	24-Sep-16	time	2.79	4.04	5.22	6.41	7.61	8.80	10.00	11.19	12.39	13.62		15.22		4 / 1		
<i>(2016.10.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																		
reaction time		interval	1.25	1.18	1.19	1.20	1.19	1.20	1.19	1.20	1.23	1.60				3.62	3.59	3.62
wind	0.3 m/s	velocity	4.92	7.31	7.75	7.68	7.62	7.68	7.62	7.68	7.62	7.43	8.76	7.23		7.57	7.64	7.57

Takahashi, Hayato (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)																		
date	24-Oct-21	time	2.78	3.96	5.13	6.32	7.52	8.73	9.93	11.13	12.32	13.57		15.22		/ 8		
<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>																		
reaction time		interval	1.18	1.17	1.19	1.20	1.21	1.20	1.20	1.19	1.25	1.65				3.54	3.61	3.64
wind	1.0 m/s	velocity	4.94	7.75	7.81	7.68	7.62	7.55	7.62	7.62	7.68	7.31	8.50	7.23		7.75	7.60	7.53

Ueda, Koki (JPN) (2007)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Shimane High School Championships (Izumo, JPN)																		
date	26-May-24	time	2.75	3.93	5.13	6.30	7.53	8.78	10.02	11.25	12.47	13.70		15.22		6 / 1		
<i>Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis</i>																		
reaction time		interval	1.18	1.20	1.17	1.23	1.25	1.24	1.23	1.22	1.23	1.52				3.55	3.72	3.68
wind	0.3 m/s	velocity	4.99	7.75	7.62	7.81	7.43	7.31	7.37	7.43	7.49	7.43	9.22	7.23		7.72	7.37	7.45

Tanaka, Hiromasa (JPN) (1981)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2009 Japanese National Championships (Hiroshima, JPN)																		
date	26-Jun-09	time	2.53	3.71	4.89	6.08	7.27	8.48	9.70	10.92	12.17	13.44		15.23		1 / 4		
<i>Hisashi (2010) - the run performance analysis in the decathlon sprint events</i>																		
reaction time		interval	1.18	1.18	1.19	1.19	1.21	1.22	1.22	1.25	1.27	1.79				3.55	3.62	3.74
wind	1.6 m/s	velocity	5.42	7.75	7.75	7.68	7.68	7.55	7.49	7.49	7.31	7.20	7.83	7.22		7.72	7.57	7.33

Mališka, Rostislav (CZE) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)																		
date	28-Jun-14	time	2.91	4.07	5.25	6.43	7.59	8.78	9.95	11.15	12.36	13.58		15.24		1 / 6		
<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																		
reaction time	0.193	interval	1.16	1.18	1.18	1.16	1.19	1.17	1.20	1.21	1.22	1.66				3.52	3.52	3.63
wind	-3.7 m/s	velocity	4.71	7.88	7.75	7.75	7.88	7.68	7.81	7.62	7.55	7.49	8.45	7.22		7.79	7.79	7.55

Sajdok, Stanislav (CZE) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)										Feher (2014) - Final report from the Czech Republic national championships							
date	02-Aug-14	time	2.68	3.85	4.99	6.15	7.34	8.50	9.70	10.93	12.15	13.43	15.24	2 / 7			
reaction time	0.124	interval		1.17	1.14	1.16	1.19	1.16	1.20	1.23	1.22	1.28	1.81		3.47	3.55	3.73

wind	-1.2 m/s	velocity	5.12	7.81	8.02	7.88	7.68	7.88	7.62	7.43	7.49	7.14	7.75	7.22		7.90	7.72	7.35
Ushiro, Keisuke (JPN) (1986)																		
Decathlon - Heat ?? - 2012 Tokyo Athletics Championships (Chofu, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Takeo (2014) - decathletes sprint ability & relationship of individual event performance								
date	22-Apr-12	time	2.79	3.95	5.15	6.31	7.50	8.73	9.95	11.17	12.41	13.64		15.25	???			
reaction time		interval		1.16	1.20	1.16	1.19	1.23	1.22	1.22	1.24	1.23	1.61			3.52	3.64	3.69
wind	-0.1 m/s	velocity	4.92	7.88	7.62	7.88	7.68	7.43	7.49	7.49	7.37	7.43	8.71	7.21		7.79	7.53	7.43
Yuuto, Yuiguchi (JPN)																		
FINAL - 2016 Miyazaki Prefecture High School Championships (Miyazaki, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										(2016.10.26) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en								
date	16-Sep-16	time	2.81	3.97	5.16	6.35	7.54	8.72	10.00	11.23	12.46	13.70		15.25	4 / 1			
reaction time		interval		1.16	1.19	1.19	1.19	1.18	1.28	1.23	1.23	1.24	1.55			3.54	3.65	3.70
wind	0.4 m/s	velocity	4.88	7.88	7.68	7.68	7.68	7.75	7.14	7.43	7.43	7.37	9.05	7.21		7.75	7.51	7.41
Yang Zihao (CHN) (1998)																		
Decathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										CAA Hurdle Development (2019)								
date	23-Aug-19	time	2.82	4.00	5.16	6.32	7.49	8.69	9.89	11.13	12.33	13.61		15.25	7 / 2			
reaction time	0.187	interval		1.18	1.16	1.16	1.17	1.20	1.20	1.24	1.20	1.28	1.64			3.50	3.57	3.72
wind	?? m/s	velocity	4.87	7.75	7.88	7.88	7.81	7.62	7.62	7.37	7.62	7.14	8.55	7.21		7.83	7.68	7.37
Xu Xin (MAC) (2000)																		
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										CAA Hurdle Development (2019)								
date	14-Aug-19	time	2.69	3.87	5.02	6.22	7.44	8.61	9.83	11.06	12.31	13.56		15.26	3 / 7			
reaction time	0.138	interval		1.18	1.15	1.20	1.22	1.17	1.22	1.23	1.25	1.25	1.70			3.53	3.61	3.73
wind	0.6 m/s	velocity	5.10	7.75	7.95	7.62	7.49	7.81	7.49	7.43	7.31	7.31	8.25	7.21		7.77	7.60	7.35
Krejčí, Michal (CZE) (1981)																		
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Feher (2014) - Final report from the Czech Republic national championships								
date	02-Aug-14	time	2.75	3.97	5.16	6.35	7.54	8.72	9.90	11.14	12.38	13.64		15.27	2 / 4			
reaction time	0.106	interval		1.22	1.19	1.19	1.19	1.18	1.18	1.24	1.24	1.26	1.63			3.60	3.55	3.74
wind	-1.6 m/s	velocity	4.99	7.49	7.68	7.68	7.68	7.75	7.75	7.37	7.37	7.25	8.60	7.20		7.62	7.72	7.33
Kobayashi, Fumihito (JPN) (1994)																		
Heat 3 - 2017 Japanese National Championships (Osaka, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										(2017) - tfdata-store.com/2017/07/13/post-1040/								
date	24-Jun-17	time	2.76	3.88	5.05	6.26	7.45	8.65	9.90	11.14	12.38	13.63		15.27	9 / 8			
reaction time	0.146	interval		1.12	1.17	1.21	1.19	1.20	1.25	1.24	1.24	1.25	1.64			3.50	3.64	3.73
wind	0.5 m/s	velocity	4.97	8.16	7.81	7.55	7.68	7.62	7.31	7.37	7.37	7.31	8.55	7.20		7.83	7.53	7.35
Taue, Shun (JPN) (1997)																		
Decathlon - Heat 2 - 2023 Japanese Multi-Event National Championships (Akita, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season								
date	11-Jun-23	time	2.85	4.00	5.21	6.39	7.55	8.74	9.93	11.13	12.34	13.62		15.27	6 / 6			
reaction time		interval		1.15	1.21	1.18	1.16	1.19	1.19	1.20	1.21	1.28	1.65			3.54	3.54	3.69
wind	-0.1 m/s	velocity	4.81	7.95	7.55	7.75	7.88	7.68	7.68	7.62	7.55	7.14	8.50	7.20		7.75	7.75	7.43
Ushiro, Keisuke (JPN) (1986)																		
Decathlon - Heat 1 - 2011 Wakayama Athletics Meeting (Wakayama, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro								
date	24-Apr-11	time	2.82	3.98	5.17	6.35	7.56	8.77	10.00	11.21	12.43	13.64		15.28	8 / 2			
reaction time		interval		1.16	1.19	1.18	1.21	1.21	1.23	1.21	1.22	1.21	1.64			3.53	3.65	3.64
wind	-0.1 m/s	velocity	4.87	7.88	7.68	7.75	7.55	7.55	7.43	7.55	7.49	7.55	8.55	7.20		7.77	7.51	7.53
Kyogoku, Fumiya (JPN)																		
FINAL - 2018 Shimane High School Championships (Izumo, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis								
date	27-May-18	time	2.82	3.98	5.15	6.32	7.50	8.67	9.92	11.17	12.40	13.63		15.28	5 / 1			
reaction time		interval		1.16	1.17	1.17	1.18	1.17	1.25	1.25	1.23	1.23	1.65			3.50	3.60	3.71
wind	1.2 m/s	velocity	4.87	7.88	7.81	7.81	7.75	7.81	7.31	7.31	7.43	7.43	8.50	7.20		7.83	7.62	7.39
Fei Xiang (CHN) (1998)																		
Decathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										CAA Hurdle Development (2021)								
date	27-Jun-21	time	2.82	4.02	5.20	6.39	7.57	8.79	9.99	11.19	12.43	13.66		15.28	4 / 5			
reaction time	0.186	interval		1.20	1.18	1.19	1.18	1.22	1.20	1.20	1.24	1.23	1.62			3.57	3.60	3.67
wind	-0.2 m/s	velocity	4.87	7.62	7.75	7.68	7.75	7.49	7.62	7.62	7.37	7.43	8.65	7.20		7.68	7.62	7.47
Kubeš, Jiri (CZE) (1995)																		
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships								
date	28-Jun-14	time	2.79	3.93	5.10	6.25	7.40	8.56	9.75	10.93	12.14	13.40		15.29	1 / 7			
reaction time	0.186	interval		1.14	1.17	1.15	1.15	1.16	1.19	1.18	1.21	1.26	1.89			3.46	3.50	3.65
wind	-2.2 m/s	velocity	4.92	8.02	7.81	7.95	7.95	7.88	7.68	7.75	7.55	7.25	7.42	7.19		7.92	7.83	7.51
Agawa, Kimiki (JPN)																		
FINAL - 2017 Shimane High School Championships (Izumo, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis								
date	28-May-17	time	2.80	4.00	5.20	6.37	7.57	8.77	9.97	11.20	12.47	13.70		15.29	7 / 3			
reaction time		interval		1.20	1.20	1.17	1.20	1.20	1.20	1.23	1.27	1.23	1.59			3.57	3.60	3.73
wind	0.3 m/s	velocity	4.90	7.62	7.62	7.81	7.62	7.62	7.62	7.43	7.20	7.43	8.82	7.19		7.68	7.62	7.35

Sjödén, Ludwig (SWE) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL 2 - 2017 Windsprint (Sundsvall, SWE)															(2017) - www.windsprint/Splittider/			
date	30-Jul-17	time	2.68	3.86	5.00	6.18	7.40	8.62	9.83	11.12	12.34	13.62	15.29	4		3.50	3.65	3.79
reaction time		interval		1.18	1.14	1.18	1.22	1.22	1.21	1.29	1.22	1.28	1.67			7.83	7.51	7.23
wind	1.0 m/s	velocity	5.12	7.75	8.02	7.75	7.49	7.49	7.55	7.09	7.49	7.14	8.40	7.19				
Sotono, Haru (JPN) (2004)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Shimane High School Championships (Izumo, JPN)															Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis			
date	30-May-21	time	2.78	3.95	5.17	6.35	7.55	8.75	9.93	11.20	12.43	13.70	15.32	4 / 2		3.57	3.58	3.77
reaction time		interval		1.17	1.22	1.18	1.20	1.20	1.18	1.27	1.23	1.27	1.62			7.68	7.66	7.27
wind	1.7 m/s	velocity	4.94	7.81	7.49	7.75	7.62	7.62	7.75	7.20	7.43	7.20	8.65	7.18				
Olsson, Carl-Johan (SWE) (1980)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 Windsprint (Sundsvall, SWE)															(2007) - www.ssg.se/en/Windsprint/Split-times/			
date	24-Jul-07	time		3.95			7.48			11.07			15.33	8				
reaction time		interval					3.53			3.59			4.26					
wind	1.3 m/s	velocity		5.79			7.77			7.64			7.58	7.18				
Ushiro, Keisuke (JPN) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 2 - 2009 Japanese National Championships (Hiroshima, JPN)															Hisashi (2010) - the run performance analysis in the decathlon sprint events			
date	26-Jun-09	time	2.59	3.78	4.97	6.16	7.36	8.57	9.79	11.06	12.33	13.52	15.34	5 / 7		3.57	3.63	3.73
reaction time		interval		1.19	1.19	1.19	1.20	1.21	1.22	1.27	1.27	1.19	1.82	PB		7.68	7.55	7.35
wind	1.6 m/s	velocity	5.30	7.68	7.68	7.68	7.62	7.55	7.49	7.20	7.20	7.68	7.70	7.17				
Decker, Jan (CZE) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)															Feher (2014) - Final report from the U18 & U20 Czech Republic national championships			
date	28-Jun-14	time	2.78	3.95	5.12	6.30	7.48	8.69	9.90	11.10	12.34	13.60	15.34	6 / 3		3.52	3.60	3.70
reaction time	0.206	interval		1.17	1.17	1.18	1.18	1.21	1.21	1.20	1.24	1.26	1.74			7.79	7.62	7.41
wind	-1.6 m/s	velocity	4.94	7.81	7.81	7.75	7.75	7.55	7.55	7.62	7.37	7.25	8.06	7.17				
Kijanica, Michael (CZE) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)															Feher (2014) - Final report from the U18 & U20 Czech Republic national championships			
date	28-Jun-14	time	2.87	4.03	5.20	6.38	7.55	8.74	9.93	11.15	12.35	13.62	15.36	7 / 3		3.51	3.55	3.69
reaction time	0.249	interval		1.16	1.17	1.18	1.17	1.19	1.19	1.22	1.20	1.27	1.74			7.81	7.72	7.43
wind	-4.1 m/s	velocity	4.78	7.88	7.81	7.75	7.81	7.68	7.68	7.49	7.62	7.20	8.06	7.16				
Frolík, Petr (CZE) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)															Feher (2014) - Final report from the Czech Republic national championships			
date	02-Aug-14	time	2.88	4.07	5.26	6.46	7.63	8.85	10.07	11.29	12.48	13.74	15.36	7 / 5		3.58	3.61	3.67
reaction time	0.186	interval		1.19	1.19	1.20	1.17	1.22	1.22	1.22	1.19	1.26	1.62			7.66	7.60	7.47
wind	-1.6 m/s	velocity	4.76	7.68	7.68	7.62	7.81	7.49	7.49	7.49	7.68	7.25	8.65	7.16				
Ushiro, Keisuke (JPN) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 1 - 2019 Japanese National Multi-Event Championships (Nagano, JPN)															Matsubayashi (2019) - research on athlete performance and technique- 2019 data book			
date	09-Jun-19	time	2.74	3.92	5.11	6.39	7.63	8.83	10.07	11.27	12.47	13.69	15.36	6 / 4		3.65	3.68	3.62
reaction time		interval		1.18	1.19	1.28	1.24	1.20	1.24	1.20	1.20	1.22	1.67			7.51	7.45	7.57
wind	1.8 m/s	velocity	5.01	7.75	7.68	7.14	7.37	7.62	7.37	7.62	7.62	7.49	8.40	7.16				
Decker, Jan (CZE) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)															Feher (2014) - Final report from the U18 & U20 Czech Republic national championships			
date	28-Jun-14	time	2.86	4.07	5.28	6.46	7.66	8.87	10.07	11.26	12.50	13.73	15.40	8 / 8		3.60	3.61	3.66
reaction time	0.235	interval		1.21	1.21	1.18	1.20	1.21	1.20	1.19	1.24	1.23	1.67			7.62	7.60	7.49
wind	-2.2 m/s	velocity	4.80	7.55	7.55	7.75	7.62	7.55	7.62	7.68	7.37	7.43	8.40	7.14				
Qin Guoyuan (CHN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)															CAA Hurdle Development (2019)			
date	23-Aug-19	time	2.84	4.00	5.17	6.38	7.56	8.77	9.99	11.23	12.46	13.78	15.40	5 / 3		3.54	3.61	3.79
reaction time	0.183	interval		1.16	1.17	1.21	1.18	1.21	1.22	1.24	1.23	1.32	1.62			7.75	7.60	7.23
wind	?? m/s	velocity	4.83	7.88	7.81	7.55	7.75	7.55	7.49	7.37	7.43	6.92	8.65	7.14				
Wang Zhipeng (CHN) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)															CAA Hurdle Development (2021)			
date	27-Jun-21	time	2.77	3.94	5.12	6.30	7.50	8.71	9.94	11.19	12.46	13.75	15.41	3 / 6		3.53	3.64	3.81
reaction time	0.188	interval	7 steps	1.17	1.18	1.18	1.20	1.21	1.23	1.25	1.27	1.29	1.66			7.77	7.53	7.20
wind	-0.2 m/s	velocity	4.95	7.81	7.75	7.75	7.62	7.55	7.43	7.31	7.20	7.09	8.45	7.14				
Nilsson, Nicklas (SWE) (1987)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
B FINAL - 2010 Folskam GP (Sollentuna, SWE)															Blomkvist (2010) - www.sub13.se			
date	01-Jul-10	time	2.66	3.86	5.04	6.23	7.43	8.66		11.07			15.42	4		3.57		
reaction time		interval		1.20	1.18	1.19	1.20	1.23		2.41			PB					
wind	0.8 m/s	velocity	5.16	7.62	7.75	7.68	7.62	7.43		7.59			7.13			7.68		

Nemec, Jan (CZE) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships								
date	28-Jun-14	time	2.91	4.09	5.26	6.46	7.70	8.91	10.11	11.33	12.52	13.75		15.43	7 / 7			
reaction time	0.231	interval		1.18	1.17	1.20	1.24	1.21	1.20	1.22	1.19	1.23	1.68			3.55	3.65	3.64
wind	-3.7 m/s	velocity	4.71	7.75	7.81	7.62	7.37	7.55	7.62	7.49	7.68	7.43	8.35	7.13		7.72	7.51	7.53
Wang Jiawei (CHN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 National Grand Prix (Chengdu, CHN)										CAA Hurdle Development (2021)								
date	02-Apr-21	time	2.90	4.12	5.34	6.52	7.72	8.90	10.10	11.32	12.52	13.78		15.43	2 / 6			
reaction time	0.210	interval		1.22	1.22	1.18	1.20	1.18	1.20	1.22	1.20	1.26	1.65			3.62	3.58	3.68
wind	-0.1 m/s	velocity	4.73	7.49	7.49	7.75	7.62	7.75	7.62	7.49	7.62	7.25	8.50	7.13		7.57	7.66	7.45
Almgren, Daniel (SWE) (1979)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2010 Folsam GP (Sollentuna, SWE)										Blomkvist (2010) - www.sub13.se								
date	01-Jul-10	time	2.66	3.87	5.04	6.25	7.43	8.66		11.09				15.44	1 / 5			
reaction time	0.147	interval		1.21	1.17	1.21	1.18	1.23		2.43						3.59		
wind	0.8 m/s	velocity	5.16	7.55	7.81	7.55	7.75	7.43		7.52				7.12		7.64		
Slaviček, Lukáš (CZE) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships								
date	28-Jun-14	time	2.82	3.99	5.20	6.36	7.57	8.80	10.01	11.20	12.42	13.60		15.44	8 / 5			
reaction time	0.180	interval		1.17	1.21	1.16	1.21	1.23	1.21	1.19	1.22	1.18	1.84			3.54	3.65	3.59
wind	-1.6 m/s	velocity	4.87	7.81	7.55	7.88	7.55	7.43	7.55	7.68	7.49	7.75	7.62	7.12		7.75	7.51	7.64
Krejčí, Michal (CZE) (1981)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)										Feher (2014) - Final report from the Czech Republic national championships								
date	02-Aug-14	time	2.74	3.93	5.11	6.29	7.48	8.72	9.94	11.17	12.42	13.72		15.45	1 / 8			
reaction time	0.147	interval		1.19	1.18	1.18	1.19	1.24	1.22	1.23	1.25	1.30	1.73			3.55	3.65	3.78
wind	-1.2 m/s	velocity	5.01	7.68	7.75	7.75	7.68	7.37	7.49	7.43	7.31	7.03	8.10	7.12		7.72	7.51	7.25
Sonoyama, Tenshi (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Shimane High School Championships (Izumo, JPN)										Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis								
date	30-May-21	time	2.82	4.02	5.22	6.40	7.60	8.80	10.02	11.27	12.50	13.82		15.45	3 / 3			
reaction time	0.164	interval		1.20	1.20	1.18	1.20	1.20	1.22	1.25	1.23	1.32	1.63			3.58	3.62	3.80
wind	1.7 m/s	velocity	4.87	7.62	7.62	7.75	7.62	7.62	7.49	7.31	7.43	6.92	8.60	7.12		7.66	7.57	7.22
Hua Zihui (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)										CAA Hurdle Development (2021)								
date	27-Jun-21	time	2.78	3.97	5.17	6.37	7.59	8.82	10.04	11.29	12.53	13.82		15.45	8 / 4			
reaction time	0.164	interval		1.19	1.20	1.20	1.22	1.23	1.22	1.25	1.24	1.29	1.63			3.59	3.67	3.78
wind	-0.2 m/s	velocity	4.94	7.68	7.62	7.62	7.49	7.43	7.49	7.31	7.37	7.09	8.60	7.12		7.64	7.47	7.25
Fei Xiang (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)										CAA Hurdle Development (2019)								
date	23-Aug-19	time	2.87	4.10	5.30	6.54	7.74	8.96	10.19	11.41	12.64	13.88		15.46	5 / 2			
reaction time	0.197	interval		1.23	1.20	1.24	1.20	1.22	1.23	1.22	1.23	1.24	1.58			3.67	3.65	3.69
wind	?? m/s	velocity	4.78	7.43	7.62	7.37	7.62	7.49	7.43	7.49	7.43	7.37	8.87	7.12		7.47	7.51	7.43
Ushiro, Keisuke (JPN) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2012 Olympic Games (London, GBR)										Takeo (2014) - decathletes sprint ability & relationship of individual event performance								
date	09-Aug-12	time	2.80	3.99	5.20	6.42	7.62	8.85	10.06	11.30	12.56	13.84		15.47	6 / 5			
reaction time	0.186	interval		1.19	1.21	1.22	1.20	1.23	1.21	1.24	1.26	1.28	1.63			3.62	3.64	3.78
wind	-0.9 m/s	velocity	4.90	7.68	7.55	7.49	7.62	7.43	7.55	7.37	7.25	7.14	8.60	7.11		7.57	7.53	7.25
Hori, Shion (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Shimane High School Championships (Izumo, JPN)										Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis								
date	11-Jul-20	time	2.73	3.92	5.10	6.27	7.47	8.68	9.92	11.18	12.50	13.80		15.47	4 / 1			
reaction time		interval		1.19	1.18	1.17	1.20	1.21	1.24	1.26	1.32	1.30	1.67			3.54	3.65	3.88
wind	-0.1 m/s	velocity	5.03	7.68	7.75	7.81	7.62	7.55	7.37	7.25	6.92	7.03	8.40	7.11		7.75	7.51	7.07
Roe, Martin (NOR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)										Henson (2024) - Athlete First: 2021 year end hurdle report								
date	05-Aug-21	time	2.80	3.97	5.18	6.40	7.60	8.85	10.05	11.28	12.56	13.80		15.47	8 / 5			
reaction time	0.144	interval	7 steps	1.17	1.21	1.22	1.20	1.25	1.20	1.23	1.28	1.24	1.67			3.60	3.65	3.75
wind	0.1 m/s	velocity	4.90	7.81	7.55	7.49	7.62	7.31	7.62	7.43	7.14	7.37	8.40	7.11		7.62	7.51	7.31
Sirota, Martin (CZE) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships								
date	28-Jun-14	time	2.88	4.07	5.27	6.44	7.66	8.86	10.07	11.31	12.53	13.81		15.48	8 / 3			
reaction time	0.249	interval		1.19	1.20	1.17	1.22	1.20	1.21	1.24	1.22	1.28	1.67			3.56	3.63	3.74
wind	-2.9 m/s	velocity	4.76	7.68	7.62	7.81	7.49	7.62	7.55	7.37	7.49	7.14	8.40	7.11		7.70	7.55	7.33
Tochioka, Takei (JPN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (99cm)

date	08-Aug-19	time	2.76	3.96	5.13	6.29	7.47	8.67	9.93	11.18	12.45	13.78	15.49	1 / 7			
reaction time		interval		1.20	1.17	1.16	1.18	1.20	1.26	1.25	1.27	1.33	1.71		3.53	3.64	3.85
wind	-3.0 m/s	velocity	4.97	7.62	7.81	7.88	7.75	7.62	7.25	7.31	7.20	6.87	8.20	7.10	7.77	7.53	7.12

Kota (2019) - 72nd high school champs: JAF scientific committee - biomechanics data

Ushiuro, Keisuke (JPN) (1986)

Decathlon - Heat 1 - 2022 Michitaka Kinami Memorial (Osaka, JPN)																	Takefu (2023) - performance analysis of decathlon athletes in the 2022 season				
date		01-May-22	time	2.77	3.96	5.15	6.35	7.57	8.81	10.03	11.28	12.54	13.81	15.50	3 / 4						
reaction time		0.146	interval		1.19	1.19	1.20	1.22	1.24	1.22	1.25	1.26	1.27	1.69		3.58	3.68	3.78			
wind		0.0 m/s	velocity	4.95	7.68	7.68	7.62	7.49	7.37	7.49	7.31	7.25	7.20	8.30	7.10	7.66	7.45	7.25			

Chen Xinghua (CHN) (2002)

Decathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)													CAA Hurdle Development (2019)				
date	23-Aug-19	time	2.85	4.09	5.29	6.49	7.71	8.91	10.14	11.33	12.58	13.83	15.51	9 / 3			
reaction time	0.196	interval		1.24	1.20	1.20	1.22	1.20	1.23	1.19	1.25	1.25	1.68		3.64	3.65	3.69
wind	?? m/s	velocity	4.81	7.37	7.62	7.62	7.49	7.62	7.43	7.68	7.31	7.31	8.35	7.09	7.53	7.51	7.43

Kraus, Patrik (CZE) (1998)

Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships							
date	28-Jun-14	time	2.84	4.08	5.30	6.53	7.70	8.90	10.08	11.31	12.57	13.81	15.52	2 / 4			
reaction time	0.179	interval		1.24	1.22	1.23	1.17	1.20	1.18	1.23	1.26	1.24	1.71		3.69	3.55	3.73
wind	-0.3 m/s	velocity	4.83	7.37	7.49	7.43	7.81	7.62	7.75	7.43	7.25	7.37	8.20	7.09	7.43	7.72	7.35

Pilar, Lukáš (CZE) (1995)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)										<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>							
date	28-Jun-14	time	2.88	4.05	5.23	6.44	7.64	8.86	10.05	11.29	12.53	13.78	15.52	7 / 4			
reaction time	0.212	interval		1.17	1.18	1.21	1.20	1.22	1.19	1.24	1.24	1.25	1.74		3.56	3.61	3.73
wind	-2.9 m/s	velocity	4.76	7.81	7.75	7.55	7.62	7.49	7.68	7.37	7.37	7.31	8.06	7.09	7.70	7.60	7.35

Haruka, Eda (JPN)

FINAL - 2019 Shimane High School Championships (Izumo, JPN)										Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis							
date	26-May-19	time	2.85	4.09	5.29	6.54	7.77	9.00	10.22	11.46	12.71	13.99	15.53	6 / 2			
reaction time		interval		1.24	1.20	1.25	1.23	1.23	1.22	1.24	1.25	1.28	1.54		3.69	3.68	3.77
wind	2.3 m/s	velocity	4.81	7.37	7.62	7.31	7.43	7.43	7.49	7.37	7.31	7.14	9.10	7.08	7.43	7.45	7.27

Harada, Mahiro (JPN)

FINAL - 2019 Shimane High School Championships (Izumo, JPN)																	Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis						
date	26-May-19	time	2.75	3.95	5.19	6.40	7.64	8.85	10.09	11.37	12.62	13.89	15.53	5 / 3									
reaction time		interval		1.20	1.24	1.21	1.24	1.21	1.24	1.28	1.25	1.27	1.64		3.65	3.69	3.80						
wind	2.3 m/s	velocity	4.99	7.62	7.37	7.55	7.37	7.55	7.37	7.14	7.31	7.20	8.55	7.08	7.51	7.43	7.22						

Pirochta, Tomáš (CZE) (1997)

Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships							
date	28-Jun-14	time	2.85	4.05	5.24	6.46	7.67	8.87	10.10	11.28	12.53	13.79	15.54	6 / 4			
reaction time	0.190	interval		1.20	1.19	1.22	1.21	1.20	1.23	1.18	1.25	1.26	1.75		3.61	3.64	3.69
wind	-4.1 m/s	velocity	4.81	7.62	7.68	7.49	7.55	7.62	7.43	7.75	7.31	7.25	8.01	7.08	7.60	7.53	7.43

Guzik, Vojtech (CZE) (1997)

Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships							
date	28-Jun-14	time	2.83	4.04	5.23	6.41	7.60	8.80	10.01	11.21	12.50	13.79	15.54	6 / 6			
reaction time	0.170	interval		1.21	1.19	1.18	1.19	1.20	1.21	1.20	1.29	1.29	1.75		3.58	3.60	3.78
wind	-1.6 m/s	velocity	4.85	7.55	7.68	7.75	7.68	7.62	7.55	7.62	7.09	7.09	8.01	7.08	7.66	7.62	7.25

Eaton, Jarret (USA) (1989)

FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)													Henson (2020) - Athlete First: 2019 year end hurdle report				
date	10-Sep-19	time	2.73	3.93	5.13	6.33	7.60	8.76	10.00	11.22	12.43	13.73	15.54	8 / 8			
reaction time	0.180	interval	7 steps	1.20	1.20	1.20	1.27	1.16	1.24	1.22	1.21	1.30	1.81		3.60	3.67	3.73
wind	0.1 m/s	velocity	5.03	7.62	7.62	7.62	7.20	7.88	7.37	7.49	7.55	7.03	7.75	7.08	7.62	7.47	7.35

Tosho, Yuho (JPN)

FINAL - 2017 Shimane High School Championships (Izumo, JPN)										Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis							
date	28-May-17	time	2.90	4.10	5.30	6.50	7.70	8.93	10.17	11.43	12.67	13.97	15.55	5 / 4			
reaction time		interval		1.20	1.20	1.20	1.20	1.23	1.24	1.26	1.24	1.30	1.58		3.60	3.67	3.80
wind	0.3 m/s	velocity	4.73	7.62	7.62	7.62	7.62	7.43	7.37	7.25	7.37	7.03	8.87	7.07	7.62	7.47	7.22

Wang Chi (CHN) (1997)

Decathlon - Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)													CAA Hurdle Development (2019)				
date	11-Jul-19	time	2.82	4.04	5.24	6.44	7.67	8.89	10.12	11.39	12.64	13.91	15.55	6 / 4			
reaction time	0.177	interval		1.22	1.20	1.20	1.23	1.22	1.23	1.27	1.25	1.27	1.64	PB	3.62	3.68	3.79
wind	0.0 m/s	velocity	4.87	7.49	7.62	7.62	7.43	7.49	7.43	7.20	7.31	7.20	8.55	7.07	7.57	7.45	7.23

Shinagawa, Yuto (JPN) (2005)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Shimane High School Championships (Izumo, JPN)										<i>Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis</i>					

date	28-May-23	time	2.85	4.05	5.27	6.45	7.68	8.92	10.15	11.40	12.63	13.90	15.55	3 / 1				
reaction time		interval		1.20	1.22	1.18	1.23	1.24	1.23	1.25	1.23	1.27	1.65		3.60	3.70	3.75	
wind	-0.1 m/s	velocity	4.81	7.62	7.49	7.75	7.43	7.37	7.43	7.31	7.43	7.20	8.50	7.07	7.62	7.41	7.31	
Novotny, Šimon (CZE) (1992)																		
Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Feher (2013) - Final report from the men's & women's Czech Republic national championships								
date	15-Jun-13	time	2.86	4.06	5.27	6.47	7.67	8.88	10.11	11.35	12.62		15.58	6 / 4				
reaction time	0.170	interval		1.20	1.21	1.20	1.20	1.21	1.23	1.24	1.27				3.61	3.64		
wind	-0.6 m/s	velocity	4.80	7.62	7.55	7.62	7.62	7.55	7.43	7.37	7.20		7.06		7.60	7.53		
Qian Wenze (CHN) (2001)																		
Decathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										CAA Hurdle Development (2019)								
date	11-Jul-19	time	2.87	4.10	5.29	6.50	7.72	8.96	10.17	11.43	12.71	13.96		15.59	4 / 4			
reaction time	0.211	interval		1.23	1.19	1.21	1.22	1.24	1.21	1.26	1.28	1.25	1.63	PB		3.63	3.67	3.79
wind	-0.6 m/s	velocity	4.78	7.43	7.68	7.55	7.49	7.37	7.55	7.25	7.14	7.31	8.60	7.06		7.55	7.47	7.23
Dinga, Libor (CZE) (1984)																		
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Feher (2013) - Final report from the men's & women's Czech Republic national championships								
date	15-Jun-13	time	2.95	4.18	5.37	6.48	7.80	9.00	10.25	11.46	12.73	14.02		15.61	2 / 5			
reaction time	0.166	interval		1.23	1.19	1.11	1.32	1.20	1.25	1.21	1.27	1.29	1.59			3.53	3.77	3.77
wind	-0.6 m/s	velocity	4.65	7.43	7.68	8.23	6.92	7.62	7.31	7.55	7.20	7.09	8.82	7.05		7.77	7.27	7.27
Šilhavy, Václav (CZE) (1995)																		
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships								
date	28-Jun-14	time	2.96	4.14	5.38	6.59	7.78	9.00	10.22	11.42	12.69	13.95		15.61	2 / 5			
reaction time	0.217	interval		1.18	1.24	1.21	1.19	1.22	1.22	1.20	1.27	1.26	1.66			3.63	3.63	3.73
wind	-2.9 m/s	velocity	4.64	7.75	7.37	7.55	7.68	7.49	7.49	7.62	7.20	7.25	8.45	7.05		7.55	7.55	7.35
Capouch, Tomáš (CZE) (1997)																		
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships								
date	28-Jun-14	time	2.86	4.06	5.27	6.49	7.75	8.98	10.21	11.46	12.67	13.91		15.62	2 / 5			
reaction time	0.193	interval		1.20	1.21	1.22	1.26	1.23	1.23	1.25	1.21	1.24	1.71			3.63	3.72	3.70
wind	-4.1 m/s	velocity	4.80	7.62	7.55	7.49	7.25	7.43	7.43	7.31	7.55	7.37	8.20	7.04		7.55	7.37	7.41
Zhao Guorui (CHN) (1996)																		
Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										CAA Hurdle Development (2019)								
date	11-Jul-19	time	2.78	4.02	5.24	6.44	7.64	8.86	10.09	11.33	12.59	13.86		15.63	6 / 5			
reaction time	0.198	interval		1.24	1.22	1.20	1.20	1.22	1.23	1.24	1.26	1.27	1.77	PB		3.66	3.65	3.77
wind	-0.1 m/s	velocity	4.94	7.37	7.49	7.62	7.62	7.49	7.43	7.37	7.25	7.20	7.92	7.04		7.49	7.51	7.27
Vašítko, Stanislav (CZE) (1992)																		
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Feher (2014) - Final report from the Czech Republic national championships								
date	02-Aug-14	time	2.87	4.08	5.27	6.48	7.70	8.94	10.18	11.44	12.70	13.98		15.64	1 / 5			
reaction time	0.169	interval		1.21	1.19	1.21	1.22	1.24	1.24	1.26	1.26	1.28	1.66			3.61	3.70	3.80
wind	0.8 m/s	velocity	4.78	7.55	7.68	7.55	7.49	7.37	7.37	7.25	7.25	7.14	8.45	7.03		7.60	7.41	7.22
Darien, Garfield (FRA) (1987)																		
FINAL - 2017 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Henson (2020) - Athlete First: 2017 year end hurdle report								
date	08-Jun-17	time	2.52	3.56	4.58	5.60	6.72							15.64	8 / 9			
reaction time	0.148	interval	7 steps	1.04	1.02	1.02	1.12									3.08		
wind	-0.3 m/s	velocity	5.44	8.79	8.96	8.96	8.16							7.03		8.90		
Tan Junyu (CHN) (2004)																		
FINAL - 2021 National Grand Prix (Chengdu, CHN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										CAA Hurdle Development (2021)								
date	02-Apr-21	time	2.76	3.92	5.14	6.36	7.56	8.74	10.06	11.36	12.68	13.98		15.64	7 / 7			
reaction time	0.194	interval		1.16	1.22	1.22	1.20	1.18	1.32	1.30	1.32	1.30	1.66			3.60	3.70	3.92
wind	-0.1 m/s	velocity	4.97	7.88	7.49	7.49	7.62	7.75	6.92	7.03	6.92	7.03	8.45	7.03		7.62	7.41	6.99
Adachi, Hayato (JPN)																		
FINAL - 2018 Shimane High School Championships (Izumo, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis								
date	27-May-18	time	2.85	4.03	5.23	6.43	7.65	8.90	10.17	11.45	12.73	14.03		15.65	4 / 2			
reaction time		interval		1.18	1.20	1.20	1.22	1.25	1.27	1.28	1.28	1.30	1.62			3.58	3.74	3.86
wind	1.2 m/s	velocity	4.81	7.75	7.62	7.62	7.49	7.31	7.20	7.14	7.14	7.03	8.65	7.03		7.66	7.33	7.10
Ushiro, Keisuke (JPN) (1986)																		
Decathlon - Heat 3 - 2013 Japanese Multi-Event National Championships (Nagano, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Takeo (2014) - decathletes sprint ability & relationship of individual event performance								
date	02-Jun-13	time	2.80	4.00	5.20	6.39	7.61	8.83	10.10	11.38	12.69	13.99		15.66	5 / 3			
reaction time		interval		1.20	1.20	1.19	1.22	1.22	1.27	1.28	1.31	1.30	1.67			3.59	3.71	3.89
wind	0.0 m/s	velocity	4.90	7.62	7.62	7.68	7.49	7.49	7.20	7.14	6.98	7.03	8.40	7.02		7.64	7.39	7.05
Dinga, Libor (CZE) (1984)																		
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
										Feher (2014) - Final report from the Czech Republic national championships								
date	02-Aug-14	time	2.83	4.08	5.30	6.51	7.72	8.95	10.19	11.47	12.73	13.99		15.66	1 / 6			

reaction time	0.152	interval	1.25	1.22	1.21	1.21	1.23	1.24	1.28	1.26	1.26	1.67			3.68	3.68	3.80
wind	-1.6 m/s	velocity	4.85	7.31	7.49	7.55	7.55	7.43	7.37	7.14	7.25	7.25	8.40	7.02	7.45	7.45	7.22

Yamamoto, Shunsuke (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis</i>															
date	11-Jul-20	time	2.83	4.03	5.23	6.45	7.70	8.93	10.18	11.47	12.75	14.02		15.66	1 / 2			
reaction time		interval	1.20	1.20	1.22	1.25	1.23	1.25	1.29	1.28	1.27	1.64				3.62	3.73	3.84
wind	-0.1 m/s	velocity	4.85	7.62	7.62	7.49	7.31	7.43	7.31	7.09	7.14	7.20	8.55	7.02		7.57	7.35	7.14

Shinagawa, Yuto (JPN) (2005)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis</i>															
date	28-May-22	time	2.92	4.12	5.37	6.57	7.77	8.98	10.23	11.50	12.77	14.08		15.67	6 / 3			
reaction time		interval	1.20	1.25	1.20	1.20	1.21	1.25	1.27	1.27	1.31	1.59				3.65	3.66	3.85
wind	0.6 m/s	velocity	4.70	7.62	7.31	7.62	7.62	7.55	7.31	7.20	7.20	6.98	8.82	7.02		7.51	7.49	7.12

Ushiuro, Keisuke (JPN) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - FINAL - 2022 Japanese Multi-Event National Championships (Akita, JPN)			<i>Takefu (2023) - performance analysis of decathlon athletes in the 2022 season</i>															
date	05-Jun-22	time	2.79	3.98	5.19	6.41	7.62	8.86	10.12	11.41	12.67	13.95		15.67	8 / 8			
reaction time		interval	1.19	1.21	1.22	1.21	1.24	1.26	1.29	1.26	1.28	1.72				3.62	3.71	3.83
wind	-2.3 m/s	velocity	4.92	7.68	7.55	7.49	7.55	7.37	7.25	7.09	7.25	7.14	8.15	7.02		7.57	7.39	7.16

Sjödén, Ludwig (SWE) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Windsprint (Sundsvall, SWE)			<i>(2017) - www.windsprint/Splittider/</i>															
date	30-Jul-17	time	2.76	3.96	5.11	6.32	7.56	8.78						15.68	1 / 5			
reaction time		interval	1.20	1.15	1.21	1.24	1.22						6.90			3.56		
wind	1.0 m/s	velocity	4.97	7.62	7.95	7.55	7.37	7.49					7.33	7.02		7.70		

Wang Yanbo (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	24-Apr-21	time	2.77	3.97	5.13	6.33	7.57	8.84	10.08	11.38	12.66	13.94		15.70	8 / 8			
reaction time	0.164	interval	1.20	1.16	1.20	1.24	1.27	1.24	1.30	1.28	1.28	1.76				3.56	3.75	3.86
wind	-1.2 m/s	velocity	4.95	7.62	7.88	7.62	7.37	7.20	7.37	7.03	7.14	7.14	7.97	7.01		7.70	7.31	7.10

Sykora, Miroslav (CZE) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)			<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>															
date	28-Jun-14	time	2.95	4.08	5.23	6.38	7.55	8.72	9.94	11.25	12.53	13.87		15.72	5 / 6			
reaction time	0.213	interval	1.13	1.15	1.15	1.17	1.17	1.22	1.31	1.28	1.34	1.85				3.43	3.56	3.93
wind	-4.1 m/s	velocity	4.65	8.09	7.95	7.95	7.81	7.81	7.49	6.98	7.14	6.82	7.58	7.00		7.99	7.70	6.98

Sun Qihao (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	27-Jun-21	time	2.83	4.04	5.19	6.42	7.66	8.89	10.14	11.40	12.68	14.01		15.72	5 / 7			
reaction time	0.179	interval	1.21	1.15	1.23	1.24	1.23	1.25	1.26	1.28	1.33	1.71				3.59	3.72	3.87
wind	-0.2 m/s	velocity	4.85	7.55	7.95	7.43	7.37	7.43	7.31	7.25	7.14	6.87	8.20	7.00		7.64	7.37	7.09

Britt, Jamal (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2024 Meeting de Paris (Paris, FRA)			<i>Omega Timing (2024) - diamond league race analysis</i>															
date	07-Jul-24	time	2.42	3.50	4.53	5.56	6.57	7.60	8.64	9.72	10.88	12.30		15.73	5 / 8			
reaction time	0.153	interval	7 steps	1.08	1.03	1.03	1.01	1.03	1.04	1.08	1.16	1.42	3.43			3.14	3.08	3.66
wind	0.4 m/s	velocity	5.67	8.46	8.87	8.87	9.05	8.87	8.79	8.46	7.88	6.44	4.09	6.99		8.73	8.90	7.49

Babiš, Ivo (CZE) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)			<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>															
date	28-Jun-14	time	2.99	4.16	5.33	6.49	7.72	8.95	10.15	11.38	12.60	13.96		15.74	6 / 5			
reaction time	0.258	interval	1.17	1.17	1.16	1.23	1.23	1.20	1.23	1.22	1.36	1.78				3.50	3.66	3.81
wind	-0.3 m/s	velocity	4.59	7.81	7.81	7.88	7.43	7.43	7.62	7.43	7.49	6.72	7.88	6.99		7.83	7.49	7.20

Hata, Nobuyuki (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis</i>															
date	26-May-19	time	2.87	4.12	5.32	6.60	7.82	9.04	10.31	11.56	12.82	14.11		15.74	7 / 4			
reaction time		interval	1.25	1.20	1.28	1.22	1.22	1.27	1.25	1.26	1.29	1.63				3.73	3.71	3.80
wind	2.3 m/s	velocity	4.78	7.31	7.62	7.14	7.49	7.49	7.20	7.31	7.25	7.09	8.60	6.99		7.35	7.39	7.22

Wang Jiawei (CHN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 National Grand Prix (Chengdu, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	02-Apr-21	time	2.88	4.12	5.34	6.56	7.78	9.02	10.30	11.56	12.80	14.06		15.75	3 / 3			
reaction time	0.195	interval	1.24	1.22	1.22	1.22	1.24	1.28	1.26	1.24	1.26	1.69				3.68	3.74	3.76
wind	0.5 m/s	velocity	4.76	7.37	7.49	7.49	7.49	7.37	7.14	7.25	7.37	7.25	8.30	6.98		7.45	7.33	7.29

Ushiuro, Keisuke (JPN) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2023 Michitaka Kinami Memorial (Osaka, JPN)			<i>Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season</i>															
date	08-May-23	time	2.79	4.00	5.19	6.41	7.65	8.87	10.11	11.37	12.66	13.97		15.75	8 / 5			
reaction time	0.180	interval	1.21	1.19	1.22	1.24	1.22	1.24	1.26	1.29	1.31	1.78				3.62	3.70	3.86

wind	0.1 m/s	velocity	4.92	7.55	7.68	7.49	7.37	7.49	7.37	7.25	7.09	6.98	7.88	6.98		7.57	7.41	7.10	
Qian Wenze (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)			CAA Hurdle Development (2019)																
date	23-Aug-19	time	2.87	4.02	5.30	6.54	7.76	9.01	10.24	11.51	12.80	14.11		15.76	6 / 4				
reaction time	0.194	interval		1.15	1.28	1.24	1.22	1.25	1.23	1.27	1.29	1.31	1.65				3.67	3.70	3.87
wind	?? m/s	velocity	4.78	7.95	7.14	7.37	7.49	7.31	7.43	7.20	7.09	6.98	8.50	6.98		7.47	7.41	7.09	
Frolík, Petr (CZE) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)			Feher (2013) - Final report from the men's & women's Czech Republic national championships																
date	15-Jun-13	time	2.92	4.13	5.31	6.51	7.75	8.98	10.26	11.51	12.81	14.09		15.78	2 / 5				
reaction time	0.204	interval		1.21	1.18	1.20	1.24	1.23	1.28	1.25	1.30	1.28	1.69				3.59	3.75	3.83
wind	-0.3 m/s	velocity	4.70	7.55	7.75	7.62	7.37	7.43	7.14	7.31	7.03	7.14	8.30	6.97		7.64	7.31	7.16	
Lindhart, David (CZE) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)			Feher (2013) - Final report from the men's & women's Czech Republic national championships																
date	15-Jun-13	time	2.97	4.20	5.42	6.65	7.84	9.07	10.30	11.55	12.81			15.79	7 / 6				
reaction time	0.262	interval		1.23	1.22	1.23	1.19	1.23	1.23	1.25	1.26						3.68	3.65	
wind	-0.6 m/s	velocity	4.62	7.43	7.49	7.43	7.68	7.43	7.43	7.31	7.25			6.97		7.45	7.51		
Sakamoto, Kazuki (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Shimane High School Championships (Izumo, JPN)			Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis																
date	26-May-24	time	2.90	4.13	5.40	6.63	7.87	9.12	10.35	11.62	12.87	14.15		15.79	8 / 2				
reaction time		interval		1.23	1.27	1.23	1.24	1.25	1.23	1.27	1.25	1.28	1.64				3.73	3.72	3.80
wind	0.3 m/s	velocity	4.73	7.43	7.20	7.43	7.37	7.31	7.43	7.20	7.31	7.14	8.55	6.97		7.35	7.37	7.22	
Perutka, Martin (CZE) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)			Feher (2014) - Final report from the U18 & U20 Czech Republic national championships																
date	28-Jun-14	time	2.77	3.96	5.17	6.38	7.60	8.84	10.10	11.36	12.66	14.15		15.80	2 / 4				
reaction time	0.139	interval		1.19	1.21	1.21	1.22	1.24	1.26	1.26	1.30	1.49	1.65				3.61	3.72	4.05
wind	-2.5 m/s	velocity	4.95	7.68	7.55	7.55	7.49	7.37	7.25	7.25	7.03	6.13	8.50	6.96		7.60	7.37	6.77	
Aihaiti Yisikandaer (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)			CAA Hurdle Development (2019)																
date	11-Jul-19	time	2.88	4.10	5.34	6.59	7.81	9.07	10.34	11.58	12.84	14.14		15.80	8 / 5				
reaction time	0.193	interval		1.22	1.24	1.25	1.22	1.26	1.27	1.24	1.26	1.30	1.66				3.71	3.75	3.80
wind	-0.6 m/s	velocity	4.76	7.49	7.37	7.31	7.49	7.25	7.20	7.37	7.25	7.03	8.45	6.96		7.39	7.31	7.22	
Moriki, Hiroto (JPN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Shimane High School Championships (Izumo, JPN)			Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis																
date	30-May-21	time	2.78	4.02	5.28	6.50	7.72	9.00	10.25	11.52	12.82	14.12		15.80	5 / 4				
reaction time		interval		1.24	1.26	1.22	1.22	1.28	1.25	1.27	1.30	1.30	1.68				3.72	3.75	3.87
wind	1.7 m/s	velocity	4.94	7.37	7.25	7.49	7.49	7.14	7.31	7.20	7.03	7.03	8.35	6.96		7.37	7.31	7.09	
Odvárka, Jirí (CZE) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)			Feher (2014) - Final report from the U18 & U20 Czech Republic national championships																
date	28-Jun-14	time	2.80	4.03	5.23	6.43	7.64	8.88	10.11	11.38	12.68	14.02		15.83	7 / 4				
reaction time	0.162	interval		1.23	1.20	1.20	1.21	1.24	1.23	1.27	1.30	1.34	1.81				3.63	3.68	3.91
wind	-1.6 m/s	velocity	4.90	7.43	7.62	7.62	7.55	7.37	7.43	7.20	7.03	6.82	7.75	6.95		7.55	7.45	7.01	
Záhora, Vojtech (CZE) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)			Feher (2014) - Final report from the U18 & U20 Czech Republic national championships																
date	28-Jun-14	time	2.92	4.15	5.36	6.62	7.82	9.04	10.30	11.53	12.79	14.10		15.84	5 / 6				
reaction time	0.180	interval		1.23	1.21	1.26	1.20	1.22	1.26	1.23	1.26	1.31	1.74				3.70	3.68	3.80
wind	-0.3 m/s	velocity	4.70	7.43	7.55	7.25	7.62	7.49	7.25	7.43	7.25	6.98	8.06	6.94		7.41	7.45	7.22	
Li Ning (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)			CAA Hurdle Development (2021)																
date	27-Jun-21	time	2.83	4.04	5.25	6.45	7.67	8.92	10.19	11.46	12.78	14.10		15.84	2 / 5				
reaction time	0.133	interval	7 steps	1.21	1.21	1.20	1.22	1.25	1.27	1.27	1.32	1.32	1.74				3.62	3.74	3.91
wind	0.5 m/s	velocity	4.85	7.55	7.55	7.62	7.49	7.31	7.20	7.20	6.92	6.92	8.06	6.94		7.57	7.33	7.01	
Dostrašil, Tomáš (CZE) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)			Feher (2014) - Final report from the U18 & U20 Czech Republic national championships																
date	28-Jun-14	time	2.85	4.09	5.30	6.52	7.75	9.00	10.22	11.52	12.78	14.11		15.87	6 / 6				
reaction time	0.184	interval		1.24	1.21	1.22	1.23	1.25	1.22	1.30	1.26	1.33	1.76				3.67	3.70	3.89
wind	-2.9 m/s	velocity	4.81	7.37	7.55	7.49	7.43	7.31	7.49	7.03	7.25	6.87	7.97	6.93		7.47	7.41	7.05	
Holek, Jakub (CZE) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)			Feher (2014) - Final report from the U18 & U20 Czech Republic national championships																
date	28-Jun-14	time	2.99	4.26	5.52	6.77	7.98	9.20	10.44	11.66	12.91	14.18		15.89	3 / 5				
reaction time	0.287	interval		1.27	1.26	1.25	1.21	1.22	1.24	1.22	1.25	1.27	1.71				3.78	3.67	3.74
wind	-1.6 m/s	velocity	4.59	7.20	7.25	7.31	7.55	7.49	7.37	7.49	7.31	7.20	8.20	6.92		7.25	7.47	7.33	

Gu Yihe (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)															CAA Hurdle Development (2021)			
date	27-Jun-21	time	2.87	4.07	5.34	6.57	7.82	9.07	10.33	11.58	12.86	14.16		15.89	2 / 5			
reaction time	0.208	interval		1.20	1.27	1.23	1.25	1.25	1.26	1.25	1.28	1.30	1.73			3.70	3.76	3.83
wind	-0.2 m/s	velocity	4.78	7.62	7.20	7.43	7.31	7.31	7.25	7.31	7.14	7.03	8.10	6.92		7.41	7.29	7.16
Ueda, Wataru (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Shimane High School Championships (Izumo, JPN)															Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis			
date	26-May-24	time	2.83	4.02	5.23	6.48	7.70	8.95	10.18	11.45	12.87	14.23		15.89	3 / 3			
reaction time		interval		1.19	1.21	1.25	1.22	1.25	1.23	1.27	1.42	1.36	1.66			3.65	3.70	4.05
wind	0.3 m/s	velocity	4.85	7.68	7.55	7.31	7.49	7.31	7.43	7.20	6.44	6.72	8.45	6.92		7.51	7.41	6.77
Hori, Shion (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Shimane High School Championships (Izumo, JPN)															Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis			
date	26-May-19	time	2.80	3.99	5.25	6.50	7.72	8.97	10.27	11.56	12.89	14.24		15.90	2 / 5			
reaction time		interval		1.19	1.26	1.25	1.22	1.25	1.30	1.29	1.33	1.35	1.66			3.70	3.77	3.97
wind	2.3 m/s	velocity	4.90	7.68	7.25	7.31	7.49	7.31	7.03	7.09	6.87	6.77	8.45	6.92		7.41	7.27	6.91
Lu Yang (CHN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)															CAA Hurdle Development (2019)			
date	02-Aug-19	time	2.85	4.01	5.15	6.30	7.44	8.61	9.80	11.05	12.34	13.72		15.90	6 / 5			
reaction time	0.196	interval		1.16	1.14	1.15	1.14	1.17	1.19	1.25	1.29	1.38	2.18			3.45	3.50	3.92
wind	-0.2 m/s	velocity	4.81	7.88	8.02	7.95	8.02	7.81	7.68	7.31	7.09	6.62	6.43	6.92		7.95	7.83	6.99
Ushiro, Keisuke (JPN) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2023 Japanese Multi-Event National Championships (Akita, JPN)															Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season			
date	11-Jun-23	time	2.83	4.05	5.25	6.48	7.70	8.94	10.20	11.50	12.80	14.13		15.90	9 / 5			
reaction time		interval		1.22	1.20	1.23	1.22	1.24	1.26	1.30	1.30	1.33	1.77			3.65	3.72	3.93
wind	-1.6 m/s	velocity	4.85	7.49	7.62	7.43	7.49	7.37	7.25	7.03	7.03	6.87	7.92	6.92		7.51	7.37	6.98
Chiguer, Adam (SWE) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 Swedish National Championships (Falun, SWE)															Blomkvist (2010) - www.sub13.se			
date	22-Aug-10	time	2.83	4.04	5.27	6.53	7.77	9.05	10.31	11.60	12.89	14.20		15.94	/ 8			
reaction time		interval		1.21	1.23	1.26	1.24	1.28	1.26	1.29	1.29	1.31	1.74			3.70	3.78	3.89
wind	-0.7 m/s	velocity	4.85	7.55	7.43	7.25	7.37	7.14	7.25	7.09	7.09	6.98	8.06	6.90		7.41	7.25	7.05
Hua Zihui (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)															CAA Hurdle Development (2019)			
date	23-Aug-19	time	2.84	4.05	5.29	6.56	7.79	9.02	10.29	11.59	12.86	14.25		15.94	8 / 4			
reaction time	0.190	interval		1.21	1.24	1.27	1.23	1.23	1.27	1.30	1.27	1.39	1.69			3.72	3.73	3.96
wind	?? m/s	velocity	4.83	7.55	7.37	7.20	7.43	7.43	7.20	7.03	7.20	6.58	8.30	6.90		7.37	7.35	6.92
Yoshimoto, Hinata (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Shimane High School Championships (Izumo, JPN)															Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis			
date	26-May-24	time	2.83	4.07	5.28	6.53	7.77	9.03	10.27	11.62	12.95	14.30		15.94	5 / 4			
reaction time		interval		1.24	1.21	1.25	1.24	1.26	1.24	1.35	1.33	1.35	1.64			3.70	3.74	4.03
wind	0.3 m/s	velocity	4.85	7.37	7.55	7.31	7.37	7.25	7.37	6.77	6.87	6.77	8.55	6.90		7.41	7.33	6.80
Pavelka, Lukáš (CZE) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)															Feher (2013) - Final report from the men's & women's Czech Republic national championships			
date	15-Jun-13	time	2.92	4.12	5.33	6.55	7.78	9.05	10.31	11.55	12.89	14.20		15.95	7 / 6			
reaction time	0.207	interval		1.20	1.21	1.22	1.23	1.27	1.26	1.24	1.34	1.31	1.75			3.63	3.76	3.89
wind	-0.3 m/s	velocity	4.70	7.62	7.55	7.49	7.43	7.20	7.25	7.37	6.82	6.98	8.01	6.90		7.55	7.29	7.05
Konečný, Michael (CZE) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)															Feher (2014) - Final report from the U18 & U20 Czech Republic national championships			
date	28-Jun-14	time	2.82	4.02	5.20	6.43	7.64	8.88	10.23	11.59	12.90	14.22		15.97	8 / 5			
reaction time	0.144	interval		1.20	1.18	1.23	1.21	1.24	1.35	1.36	1.31	1.32	1.75			3.61	3.80	3.99
wind	-2.5 m/s	velocity	4.87	7.62	7.75	7.43	7.55	7.37	6.77	6.72	6.98	6.92	8.01	6.89		7.60	7.22	6.87
Xiang Qingqiang (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)															CAA Hurdle Development (2021)			
date	27-Jun-21	time	2.87	4.15	5.40	6.66	7.89	9.14	10.38	11.66	12.96	14.26		15.98	6 / 6			
reaction time	0.170	interval		1.28	1.25	1.26	1.23	1.25	1.24	1.28	1.30	1.30	1.72			3.79	3.72	3.88
wind	0.5 m/s	velocity	4.78	7.14	7.31	7.25	7.43	7.31	7.37	7.14	7.03	7.03	8.15	6.88		7.23	7.37	7.07
Ružička, Martin (CZE) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)															Feher (2014) - Final report from the U18 & U20 Czech Republic national championships			
date	28-Jun-14	time	2.95	4.18	5.41	6.62	7.85	9.15	10.39	11.70	12.97	14.26		15.99	2 / 6			
reaction time	0.244	interval		1.23	1.23	1.21	1.23	1.30	1.24	1.31	1.27	1.29	1.73			3.67	3.77	3.87
wind	-1.6 m/s	velocity	4.65	7.43	7.43	7.55	7.43	7.03	7.37	6.98	7.20	7.09	8.10	6.88		7.47	7.27	7.09

Sekyra, Daniel (CZE) (1996)																
Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)																
date	28-Jun-14	time	2.95	4.16	5.40	6.62	7.87	9.10	10.37	11.62	12.91	14.24		16.00	4 / 6	
reaction time	0.247	interval		1.21	1.24	1.22	1.25	1.23	1.27	1.25	1.29	1.33	1.76		3.67	3.75
wind	-2.5 m/s	velocity	4.65	7.55	7.37	7.49	7.31	7.43	7.20	7.31	7.09	6.87	7.97	6.88	7.47	7.31
Zhao Guorui (CHN) (1996)																
Decathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																
date	23-Aug-19	time	2.84	4.07	5.29	6.52	7.81	9.06	10.31	11.63	12.90	14.25		16.02	8 / 5	
reaction time	0.207	interval		1.23	1.22	1.23	1.29	1.25	1.25	1.32	1.27	1.35	1.77		3.68	3.79
wind	?? m/s	velocity	4.83	7.43	7.49	7.43	7.09	7.31	7.31	6.92	7.20	6.77	7.92	6.87	7.45	7.23
Qin Guoyuan (CHN) (1996)																
Decathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)																
date	27-Jun-21	time	2.95	4.19	5.47	6.71	8.01	9.27	10.54	11.81	13.11	14.40		16.03	6 / 6	
reaction time	0.235	interval		1.24	1.28	1.24	1.30	1.26	1.27	1.27	1.30	1.29	1.63		3.76	3.83
wind	-0.2 m/s	velocity	4.65	7.37	7.14	7.37	7.03	7.25	7.20	7.20	7.03	7.09	8.60	6.86	7.29	7.16
Chen Junyi (CHN) (1999)																
Decathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																
date	27-Jun-21	time	2.87	4.19	5.45	6.72	8.00	9.29	10.56	11.81	13.11	14.43		16.05	3 / 7	
reaction time	0.187	interval	7 steps	1.32	1.26	1.27	1.28	1.29	1.27	1.25	1.30	1.32	1.62		3.85	3.84
wind	0.5 m/s	velocity	4.78	6.92	7.25	7.20	7.14	7.09	7.20	7.31	7.03	6.92	8.65	6.85	7.12	7.14
Harada, Mahiro (JPN)																
FINAL - 2018 Shimane High School Championships (Izumo, JPN)																
date	27-May-18	time	2.83	4.03	5.30	6.53	7.78	9.07	10.38	11.68	13.02	14.35		16.06	6 / 3	
reaction time		interval		1.20	1.27	1.23	1.25	1.29	1.31	1.30	1.34	1.33	1.71		3.70	3.85
wind	1.2 m/s	velocity	4.85	7.62	7.20	7.43	7.31	7.09	6.98	7.03	6.82	6.87	8.20	6.85	7.41	7.12
Fujioka, Tetsuya (JPN) (2000)																
FINAL - 2018 Shimane High School Championships (Izumo, JPN)																
date	27-May-18	time	2.92	4.15	5.42	6.68	7.98	9.27	10.55	11.83	13.13	14.48		16.10	3 / 4	
reaction time		interval		1.23	1.27	1.26	1.30	1.29	1.28	1.28	1.30	1.35	1.62		3.76	3.87
wind	1.2 m/s	velocity	4.70	7.43	7.20	7.25	7.03	7.09	7.14	7.14	7.03	6.77	8.65	6.83	7.29	7.09
Tilga, Karel (EST) (1998)																
Decathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date	05-Aug-21	time	2.91	4.18	5.40	6.72	8.00	9.22	10.47	11.72	13.00	14.35		16.10	7 / 6	
reaction time	0.187	interval	7 steps	1.27	1.22	1.32	1.28	1.22	1.25	1.25	1.28	1.35	1.75		3.81	3.75
wind	0.1 m/s	velocity	4.71	7.20	7.49	6.92	7.14	7.49	7.31	7.31	7.14	6.77	8.01	6.83	7.20	7.31
Sotono, Haru (JPN) (2004)																
FINAL - 2020 Shimane High School Championships (Izumo, JPN)																
date	11-Jul-20	time	2.85	4.12	5.38	6.62	7.88	9.17	10.45	11.75	13.05	14.37		16.11	9 / 3	
reaction time		interval		1.27	1.26	1.24	1.26	1.29	1.28	1.30	1.30	1.32	1.74		3.77	3.83
wind	-0.1 m/s	velocity	4.81	7.20	7.25	7.37	7.25	7.09	7.14	7.03	7.03	6.92	8.06	6.83	7.27	7.16
Hata, Nobuyuki (JPN)																
FINAL - 2020 Shimane High School Championships (Izumo, JPN)																
date	11-Jul-20	time	2.88	4.13	5.38	6.62	7.88	9.17	10.45	11.75	13.05	14.37		16.22	7 / 4	
reaction time		interval		1.25	1.25	1.24	1.26	1.29	1.28	1.30	1.30	1.32	1.85		3.74	3.83
wind	-0.1 m/s	velocity	4.76	7.31	7.31	7.37	7.25	7.09	7.14	7.03	7.03	6.92	7.58	6.78	7.33	7.16
Večera, Vincent (CZE) (1998)																
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)																
date	28-Jun-14	time	2.88	4.15	5.37	6.69	8.00	9.28	10.57	11.87	13.16	14.48		16.25	7 / 7	
reaction time	0.219	interval		1.27	1.22	1.32	1.31	1.28	1.29	1.30	1.29	1.32	1.77		3.81	3.88
wind	-0.3 m/s	velocity	4.76	7.20	7.49	6.92	6.98	7.14	7.09	7.03	7.09	6.92	7.92	6.77	7.20	7.07
Takahashi, Yoshihito (JPN)																
FINAL - 2023 Shimane High School Championships (Izumo, JPN)																
date	28-May-23	time	2.83	4.17	5.47	6.78	8.07	9.42	10.72	12.00	13.30	14.58		16.26	8 / 2	
reaction time		interval		1.34	1.30	1.31	1.29	1.35	1.30	1.28	1.30	1.28	1.68		3.95	3.94
wind	-0.1 m/s	velocity	4.85	6.82	7.03	6.98	7.09	6.77	7.03	7.14	7.03	7.14	8.35	6.77	6.94	6.96
Matoba, Manakato (JPN)																
FINAL - 2018 Shimane High School Championships (Izumo, JPN)																
date	27-May-18	time	2.92	4.20	5.50	6.75	8.05	9.35	10.65	11.97	13.32	14.63		16.28	8 / 5	
reaction time		interval		1.28	1.30	1.25	1.30	1.30	1.30	1.32	1.35	1.31	1.65		3.83	3.90
wind	1.2 m/s	velocity	4.70	7.14	7.03	7.31	7.03	7.03	7.03	6.92	6.77	6.98	8.50	6.76	7.16	7.03
Sato, Ushio (JPN)																

FINAL - 2024 Shimane High School Championships (Izumo, JPN)

date	26-May-24	time	2.88	4.12	5.37	6.65	7.95	9.22	10.53	11.87	13.20	14.58	16.29	7 / 5			
reaction time		interval		1.24	1.25	1.28	1.30	1.27	1.31	1.34	1.33	1.38	1.71		3.77	3.88	4.05
wind	0.3 m/s	velocity	4.76	7.37	7.31	7.14	7.03	7.20	6.98	6.82	6.87	6.62	8.20	6.75	7.27	7.07	6.77

Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis

Hromek, Vít (CZE) (1997)

Tomek, Vít (CZE) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships							
date	28-Jun-14	time	3.01	4.25	5.55	6.84	8.09	9.37	10.65	11.90	13.15	14.48	16.31	3 / 7			
reaction time	0.356	interval		1.24	1.30	1.29	1.25	1.28	1.28	1.25	1.25	1.33	1.83		3.83	3.81	3.83
wind	-1.6 m/s	velocity	4.56	7.37	7.03	7.09	7.31	7.14	7.14	7.31	7.31	6.87	7.66	6.74	7.16	7.20	7.16

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

Haruka, Eda (JPN)

aruka, Eda (JPN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Shimane High School Championships (Izumo, JPN)																	
Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis																	
date	27-May-18	time	2.87	4.13	5.43	6.73	8.05	9.35	10.65	11.97	13.30	14.65	16.32	7 / 6			
reaction time		interval		1.26	1.30	1.30	1.32	1.30	1.30	1.32	1.33	1.35	1.67		3.86	3.92	4.00
wind	1.2 m/s	velocity	4.78	7.25	7.03	7.03	6.92	7.03	7.03	6.92	6.87	6.77	8.40	6.74	7.10	6.99	6.86

Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis

Král, Aleš (CZE) (1996)

rá, Aleš (CZE) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships							
date	28-Jun-14	time	2.81	4.10	5.40	6.66	7.95	9.27	10.58	11.95	13.23	14.60	16.34	8 / 7			
reaction time	0.165	interval		1.29	1.30	1.26	1.29	1.32	1.31	1.37	1.28	1.37	1.74		3.85	3.92	4.02
wind	-1.6 m/s	velocity	4.88	7.09	7.03	7.25	7.09	6.92	6.98	6.67	7.14	6.67	8.06	6.73	7.12	6.99	6.82

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

Zhang Tao (CHN) (1997)

Yang Tao (CHN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Chinese National Championships (Taiyuan, CHN)															Henson (2018) - coaching observations		
date	16-Sep-18	time	2.80	3.89	4.96	6.02	7.12	8.19	9.29	10.39	11.50	12.53	16.34	3 / 8			
reaction time		interval		1.09	1.07	1.06	1.10	1.07	1.10	1.10	1.11	1.03	3.81		3.22	3.27	3.24
wind	-0.3 m/s	velocity	4.90	8.39	8.54	8.62	8.31	8.54	8.31	8.31	8.23	8.87	3.68	6.73	8.52	8.39	8.46

Henson (2018) - coaching observations

Sonoyama, Tenshi (JPN)

Onoyama, Tenshi (JPN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Shimane High School Championships (Izumo, JPN)									Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis								
date	11-Jul-20	time	2.83	4.08	5.32	6.53	7.82	9.15	10.52	11.83	13.18	14.58	16.36	5 / 5			
reaction time		interval		1.25	1.24	1.21	1.29	1.33	1.37	1.31	1.35	1.40	1.78		3.70	3.99	4.06
wind	-0.1 m/s	velocity	4.85	7.31	7.37	7.55	7.09	6.87	6.67	6.98	6.77	6.53	7.88	6.72	7.41	6.87	6.75

Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis

Sato, Ushio (JPN)

to, Ushio (JPN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Shimane High School Championships (Izumo, JPN)																		
date		28-May-23	time	2.82	4.12	5.40	6.70	7.98	9.30	10.60	11.93	13.28	14.65	16.36	5 / 3			
reaction time			interval		1.30	1.28	1.30	1.28	1.32	1.30	1.33	1.35	1.37	1.71		3.88	3.90	4.05
wind		-0.1 m/s	velocity	4.87	7.03	7.14	7.03	7.14	6.92	7.03	6.87	6.77	6.67	8.20	6.72	7.07	7.03	6.77

Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis

Xiang Qingqiang (CHN) (1999)

Ang Qingqiang (CHN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)															CAA Hurdle Development (2019)		
date	23-Aug-19	time	2.90	4.12	5.37	6.65	7.96	9.28	10.59	11.89	13.28	14.65	16.43	3 / 6			
reaction time	0.183	interval		1.22	1.25	1.28	1.31	1.32	1.31	1.30	1.39	1.37	1.78		3.75	3.94	4.06
wind	?? m/s	velocity	4.73	7.49	7.31	7.14	6.98	6.92	6.98	7.03	6.58	6.67	7.88	6.70	7.31	6.96	6.75

CAA Hurdle Development (2019)

Zhoya, Sasha (FRA) (2002)

Noya, Sasha (FRA) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	17-Aug-22	time	2.52	3.58	4.62	5.64	6.66	7.68	8.72	9.78	10.86	11.92	16.51	7 / 8			
reaction time	0.153	interval	7 steps	1.06	1.04	1.02	1.02	1.04	1.06	1.08	1.06	4.59			3.12	3.08	3.20
wind	-0.2 m/s	velocity	5.44	8.62	8.79	8.96	8.96	8.96	8.79	8.62	8.46	8.62	3.05	6.66	8.79	8.90	8.57

Henson (2022) - Athlete First: 2022 year end hurdle report

Ueda, Koki (JPN) (2007)

ada, Koki (JPN) (2007)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Shimane High School Championships (Izumo, JPN)																	
Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis																	
date	28-May-23	time	2.83	4.12	5.38	6.68	7.98	9.32	10.65	12.03	13.42	14.65	16.53	7 / 4			
reaction time		interval		1.29	1.26	1.30	1.30	1.34	1.33	1.38	1.39	1.23	1.88		3.85	3.97	4.00
wind	-0.1 m/s	velocity	4.85	7.09	7.25	7.03	7.03	6.82	6.87	6.62	6.58	7.43	7.46	6.65	7.12	6.91	6.86

Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis

Štastný, Michal (CZE) (1992)

astrny, Michal (CZE) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)																	
								<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>									
date	15-Jun-13	time	2.88	4.15	5.43	6.75	8.07	10.73	12.09				16.54	7 / 5			
reaction time	0.193	interval		1.27	1.28	1.32	1.32	2.66	1.36							3.87	3.98
wind	-0.6 m/s	velocity	4.76	7.20	7.14	6.92	6.92	6.87	6.72				6.65			7.09	6.89

Feher (2013) - Final report from the men's & women's Czech Republic national championships

Hoffmann, Marek (CZE) (1998)

offmann, Marek (CZE) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)										Feher (2014) - Final report from the U18 & U20 Czech Republic national championships							
date	28-Jun-14	time	2.93	4.11	5.29	6.49	7.70	8.95	10.21	11.58	12.93	14.45	16.54	8 / 7			
reaction time	0.215	interval		1.18	1.18	1.20	1.21	1.25	1.26	1.37	1.35	1.52	2.09		3.56	3.72	4.24
wind	-4.1 m/s	velocity	4.68	7.75	7.75	7.62	7.55	7.31	7.25	6.67	6.77	6.01	6.71	6.65	7.70	7.37	6.47

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

Takahashi, Yoshihito (JPN)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Shimane High School Championships (Izumo, JPN)																

Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis

date	28-May-22	time	2.98	4.28	5.58	6.90	8.18	9.48	10.82	12.18	13.55	14.88	16.54	9 / 4				
reaction time		interval		1.30	1.30	1.32	1.28	1.30	1.34	1.36	1.37	1.33	1.66		3.92	3.92	4.06	
wind	0.6 m/s	velocity	4.60	7.03	7.03	6.92	7.14	7.03	6.82	6.72	6.67	6.87	8.45	6.65	6.99	6.99	6.75	
Matsubara, Haruta (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Shimane High School Championships (Izumo, JPN)			Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis															
date	26-May-24	time	2.88	4.17	5.47	6.77	8.08	9.38	10.73	12.10	13.45	14.80	16.55	2 / 6				
reaction time		interval		1.29	1.30	1.30	1.31	1.30	1.35	1.37	1.35	1.35	1.75		3.89	3.96	4.07	
wind	0.3 m/s	velocity	4.76	7.09	7.03	7.03	6.98	7.03	6.77	6.67	6.77	6.77	8.01	6.65	7.05	6.92	6.74	
Hashimoto, Takumi (JPN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Shimane High School Championships (Izumo, JPN)			Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis															
date	30-May-21	time	2.83	4.08	5.40	6.68	8.03	9.37	10.75	12.07	13.48	14.85	16.57	2 / 5				
reaction time		interval		1.25	1.32	1.28	1.35	1.34	1.38	1.32	1.41	1.37	1.72		3.85	4.07	4.10	
wind	1.7 m/s	velocity	4.85	7.31	6.92	7.14	6.77	6.82	6.62	6.92	6.48	6.67	8.15	6.64	7.12	6.74	6.69	
Makita, Akira (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Shimane High School Championships (Izumo, JPN)			Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis															
date	28-May-22	time	2.93	4.20	5.50	6.80	8.12	9.43	10.78	12.12	13.48	14.85	16.57	8 / 5				
reaction time		interval		1.27	1.30	1.30	1.32	1.31	1.35	1.34	1.36	1.37	1.72		3.87	3.98	4.07	
wind	0.6 m/s	velocity	4.68	7.20	7.03	7.03	6.92	6.98	6.77	6.82	6.72	6.67	8.15	6.64	7.09	6.89	6.74	
Nagasawa, Rui (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Shimane High School Championships (Izumo, JPN)			Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis															
date	26-May-24	time	3.00	4.37	5.70	7.05	8.35	9.65	10.98	12.28	13.57	14.92	16.57	9 / 7				
reaction time		interval		1.37	1.33	1.35	1.30	1.30	1.33	1.30	1.29	1.35	1.65		4.05	3.93	3.94	
wind	0.3 m/s	velocity	4.57	6.67	6.87	6.77	7.03	7.03	6.87	7.03	7.09	6.77	8.50	6.64	6.77	6.98	6.96	
Matoba, Manakato (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Shimane High School Championships (Izumo, JPN)			Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis															
date	26-May-19	time	3.02	4.34	5.64	6.90	8.20	9.47	10.72	12.06	13.41	14.81	16.60	9 / 6				
reaction time		interval		1.32	1.30	1.26	1.30	1.27	1.25	1.34	1.35	1.40	1.79		3.88	3.82	4.09	
wind	2.3 m/s	velocity	4.54	6.92	7.03	7.25	7.03	7.20	7.31	6.82	6.77	6.53	7.83	6.63	7.07	7.18	6.70	
Chen Junyi (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)			CAA Hurdle Development (2019)															
date	11-Jul-19	time	2.95	4.30	5.64	6.94	8.27	9.61	10.96	12.28	13.61	14.95	16.62	2 / 6				
reaction time	0.190	interval	7 steps	1.35	1.34	1.30	1.33	1.34	1.35	1.32	1.33	1.34	1.67		3.99	4.02	3.99	
wind	-0.6 m/s	velocity	4.65	6.77	6.82	7.03	6.87	6.82	6.77	6.92	6.87	6.82	8.40	6.62	6.87	6.82	6.87	
Moore, Anwar (USA) (1979)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 USA Olympic Trials (Eugene, OR)			USATF Hurdle Development (2008)															
date	06-Jul-08	time	2.52	3.58	4.59	5.59	6.57	7.57	8.57	9.59	10.60	11.73	16.64	2 / 8				
reaction time	0.171	interval		1.06	1.01	1.00	0.98	1.00	1.00	1.02	1.01	1.13	4.91		3.07	2.98	3.16	
wind	3.5 m/s	velocity	5.44	8.62	9.05	9.14	9.33	9.14	9.14	8.96	9.05	8.09	2.86	6.61	8.93	9.20	8.68	
Yano, Hisho (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Shimane High School Championships (Izumo, JPN)			Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis															
date	28-May-23	time	2.93	4.27	5.58	6.88	8.22	9.57	10.90	12.23	13.58	14.93	16.65	6 / 5				
reaction time		interval		1.34	1.31	1.30	1.34	1.35	1.33	1.33	1.35	1.35	1.72		3.95	4.02	4.03	
wind	-0.1 m/s	velocity	4.68	6.82	6.98	7.03	6.82	6.77	6.87	6.87	6.77	6.77	8.15	6.61	6.94	6.82	6.80	
Teramoto, Soya (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Shimane High School Championships (Izumo, JPN)			Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis															
date	28-May-23	time	2.85	4.13	5.42	6.72	8.02	9.33	10.65	12.00	13.42	14.82	16.72	4 / 6				
reaction time		interval		1.28	1.29	1.30	1.30	1.31	1.32	1.35	1.42	1.40	1.90		3.87	3.93	4.17	
wind	-0.1 m/s	velocity	4.81	7.14	7.09	7.03	7.03	6.98	6.92	6.77	6.44	6.53	7.38	6.58	7.09	6.98	6.58	
Shinagawa, Yuto (JPN) (2005)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Shimane High School Championships (Izumo, JPN)			Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis															
date	30-May-21	time	3.02	4.35	5.70	7.05	8.37	9.72	11.07	12.42	13.80	15.22	17.07	1 / 6				
reaction time		interval		1.33	1.35	1.35	1.32	1.35	1.35	1.35	1.38	1.42	1.85		4.03	4.02	4.15	
wind	1.7 m/s	velocity	4.54	6.87	6.77	6.77	6.92	6.77	6.77	6.77	6.62	6.44	7.58	6.44	6.80	6.82	6.61	
Teramoto, Soya (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Shimane High School Championships (Izumo, JPN)			Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis															
date	28-May-22	time	2.88	4.12	5.47	6.82	8.10	9.40	10.87	12.30	13.85	15.37	17.23	7 / 6				
reaction time		interval		1.24	1.35	1.35	1.28	1.30	1.47	1.43	1.55	1.52	1.86		3.94	4.05	4.50	
wind	0.6 m/s	velocity	4.76	7.37	6.77	6.77	7.14	7.03	6.22	6.39	5.90	6.01	7.54	6.38	6.96	6.77	6.09	
Jiang Yuhong (CHN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)			CAA Hurdle Development (2019)															
date	11-Jul-19	time	2.98	4.25	5.51	6.79	8.10	9.56	11.04	12.50	13.98	15.48	17.39	4 / 6				

reaction time	0.247	interval	1.27	1.26	1.28	1.31	1.46	1.48	1.46	1.48	1.50	1.91			3.81	4.25	4.44
wind	-0.1 m/s	velocity	4.60	7.20	7.25	7.14	6.98	6.26	6.18	6.26	6.18	6.09	7.34	6.33	7.20	6.45	6.18

Inoue, Tetsuya (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis</i>															
date	28-May-23	time	3.15	4.62	6.03	7.40	8.82	10.23	11.62	13.07	14.45	15.92		17.74	1 / 7			
reaction time		interval		1.47	1.41	1.37	1.42	1.41	1.39	1.45	1.38	1.47	1.82			4.25	4.22	4.30
wind	-0.1 m/s	velocity	4.36	6.22	6.48	6.67	6.44	6.48	6.58	6.30	6.62	6.22	7.70	6.20		6.45	6.50	6.38

Rezníček, Tomáš (CZE) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)			<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>															
date	28-Jun-14	time	2.98	4.38	5.75	7.19	8.60	10.11	11.63	13.15	14.62	16.10		18.00	7 / 7			
reaction time	0.163	interval		1.40	1.37	1.44	1.41	1.51	1.52	1.52	1.47	1.48	1.90			4.21	4.44	4.47
wind	-2.5 m/s	velocity	4.60	6.53	6.67	6.35	6.48	6.05	6.01	6.01	6.22	6.18	7.38	6.11		6.51	6.18	6.13

Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2024 Olympic Games (Paris, FRA)			<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	04-Aug-24	time	2.69	3.98	5.31	6.84	8.39	9.92	11.41	12.93	14.42	15.94		18.27	3 / 8			
reaction time	0.157	interval		1.29	1.33	1.53	1.55	1.53	1.49	1.52	1.49	1.52	2.33			4.15	4.57	4.53
wind	1.2 m/s	velocity	5.10	7.09	6.87	5.97	5.90	5.97	6.13	6.01	6.13	6.01	6.02	6.02		6.61	6.00	6.05

Wei Peng (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	11-Jul-19	time	2.95	4.27	5.60	6.97	8.32	9.71	11.09	12.48	13.88	15.66		18.65	4 / 5			
reaction time	0.189	interval		1.32	1.33	1.37	1.35	1.39	1.38	1.39	1.40	1.78	2.99	PB		4.02	4.12	4.57
wind	0.0 m/s	velocity	4.65	6.92	6.87	6.67	6.77	6.58	6.62	6.58	6.53	5.13	4.69	5.90		6.82	6.66	6.00

Ariga, Takashi (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>															
date	06-Apr-17	time	2.71	3.87	5.07	6.32	7.68							19.33	7 / 8			
reaction time		interval		1.16	1.20	1.25	1.36									3.61		
wind	-1.8 m/s	velocity	5.06	7.88	7.62	7.31	6.72							5.69		7.60		

Dunning, Robert (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>															
date	21-May-23	time	2.56	3.62	4.63	5.63	6.66	7.66	8.68	9.76	10.83	12.00		22.28	5 / 8			
reaction time	0.152	interval	7 steps	1.06	1.01	1.00	1.03	1.00	1.02	1.08	1.07	1.17	10.28			3.07	3.05	3.32
wind	4.0 m/s	velocity	5.36	8.62	9.05	9.14	8.87	9.14	8.96	8.46	8.54	7.81	1.36	4.94		8.93	8.99	8.26

Nomoto, Syuusei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)			<i>(2017) - tfdata-store.com/2017/05/01/458/</i>															
date	29-Apr-17	time	2.61	3.67	4.75	5.80	6.85	7.93	8.99	10.07	11.13	12.20		22.95	1 / 8			
reaction time		interval	7 steps	1.06	1.08	1.05	1.05	1.08	1.06	1.08	1.06	1.07	10.75			3.19	3.19	3.21
wind	1.5 m/s	velocity	5.26	8.62	8.46	8.70	8.70	8.46	8.62	8.46	8.62	8.54	1.30	4.79		8.60	8.60	8.54

Kanai, Taio (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>															
date	04-Aug-21	time	2.52	3.59	4.65	5.69	6.71	7.76	8.84	9.92				26.11	7 / 8			
reaction time	0.127	interval	7 steps	1.07	1.06	1.04	1.02	1.05	1.08	1.08						3.17	3.15	
wind	0.1 m/s	velocity	5.44	8.54	8.62	8.79	8.96	8.70	8.46	8.46				4.21		8.65	8.70	

Robles, Dayron (CUB) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>															
date	08-Aug-12	time	2.46	3.48	4.50	5.50	6.50	7.72						42.86	5 / --			
reaction time	0.159	interval	7 steps	1.02	1.02	1.00	1.00	1.22						DQ		3.04		
wind	-0.3 m/s	velocity	5.58	8.96	8.96	9.14	9.14	7.49						2.57		9.02		

Moshiashvili, Anatoliy (URS) (1950)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1975 International "Pravda" Sportfest (Sotschi, URS)			<i>Artyschenko (1977) - zwischen den hürden geht es um die sekunde, teil 1</i>															
date	30-May-75	time	2.2	3.2	4.4	5.5	6.7	7.8	8.9	10.1	11.2			dnf	/ --			
reaction time		interval		1.07	1.13	1.17	1.13	1.13	1.13	1.15	1.15					3.37	3.39	
wind	-0.2 m/s	velocity	6.35	8.54	8.09	7.81	8.09	8.09	8.09	7.95	7.95					8.14	8.09	

Harrington, Larry (USA) (1970)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1996 USA Olympic Trials (Atlanta, GA)			<i>McNichols (2000) - Hurdle technique study through video analysis</i>															
date	23-Jun-96	time	2.42											dnf	3 / --			
reaction time		interval																
wind	0.9 m/s	velocity	5.67															

Pierce, Jack (USA) (1962)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1996 USA Olympic Trials (Atlanta, GA)			<i>McNichols (2000) - Hurdle technique study through video analysis</i>															
date	23-Jun-96	time	2.38											dnf	5 / --			
reaction time		interval																

wind 0.9 m/s velocity 5.76

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Wilson, Ryan (USA) (1980)			USATF Men's Hurdle Development (2007)																
FINAL - 2007 USATF National Championships (Indianapolis, IN)																			
date	24-Jun-07	time	2.62	3.79	4.80	5.91	7.02	8.41						dnf	1 / --				
reaction time		interval		1.17	1.01	1.11	1.11	1.39									3.29		
wind	0.5 m/s	velocity	5.24	7.81	9.05	8.23	8.23	6.58									8.33		
Wilson, Ryan (USA) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)			Graubner (2007) - http://www.fgs.uni-halle.de																
date	23-Sep-07	time	2.67	3.71	4.73	5.74	6.75	7.75	8.75	9.77				dnf	6 / --				
reaction time	0.142	interval		1.04	1.02	1.01	1.01	1.00	1.00	1.02							3.07	3.01	
wind	0.0 m/s	velocity	5.14	8.79	8.96	9.05	9.05	9.14	9.14	8.96							8.93	9.11	
Thomas, Dwight (JAM) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)			Henson (2021) - Athlete First: major championships report																
date	29-Aug-11	time	2.57	3.68										dnf	2 / --				
reaction time	0.153	interval	7 steps	1.11															
wind	-1.1 m/s	velocity	5.34	8.23															
Brorsson, Alexander (SWE) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Windsprint (Sundsvall, SWE)			Blomkvist (2012) - www.sub13.se																
date	17-Jun-12	time	2.67	3.76	4.81	5.89	7.03	8.16	9.26					dnf	7 / --				
reaction time		interval		1.09	1.05	1.08	1.14	1.13	1.10								3.22	3.37	
wind	1.1 m/s	velocity	5.14	8.39	8.70	8.46	8.02	8.09	8.31								8.52	8.14	
Akins, Ty (USA) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 USA Olympic Trials (Eugene, OR)			Henson (2020) - Athlete First: 2012 Aries Merritt world record season																
date	30-Jun-12	time	2.40	3.47	4.50	5.54	6.59	7.61	8.61					dnf	1 / --				
reaction time	0.179	interval		1.07	1.03	1.04	1.05	1.02	1.00								3.14	3.07	
wind	1.2 m/s	velocity	5.72	8.54	8.87	8.79	8.70	8.96	9.14								8.73	8.93	
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)			Henson (2020) - Athlete First: 2012 Aries Merritt world record season																
date	13-Jul-12	time	2.52	3.56										dnf	2 / --				
reaction time	0.160	interval		1.04															
wind	0.6 m/s	velocity	5.44	8.79															
Sedláč, Václav (CZE) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)			Feher (2014) - Final report from the Czech Republic national championships																
date	02-Aug-14	time	2.73	3.88	5.00	6.13	7.24	8.35											
reaction time	0.151	interval		1.15	1.12	1.13	1.11	1.11						DQ			3.40		
wind	-1.6 m/s	velocity	5.03	7.95	8.16	8.09	8.23	8.23									8.06		
Bárta, Dan (CZE) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)			Feher (2014) - Final report from the U18 & U20 Czech Republic national championships																
date	28-Jun-14	time	2.80	3.97	5.13	6.28	7.44	8.59	9.83					dnf	3 / --				
reaction time	0.169	interval		1.17	1.16	1.15	1.16	1.15	1.24								3.48	3.55	
wind	-3.7 m/s	velocity	4.90	7.81	7.88	7.95	7.88	7.95	7.37								7.88	7.72	
Contreras, Yidiel (ESP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Meeting International Mohammed VI D'Athlétisme (Rabat, MAR) (TV Analysis)			Henson (2020) - Athlete First: 2016 year end hurdle report																
date	22-May-16	time	2.54	3.66	4.76	5.80								dnf	8 / --				
reaction time	0.147	interval	7 steps	1.12	1.10	1.04											3.26		
wind	1.4 m/s	velocity	5.40	8.16	8.31	8.79											8.41		
O'Farrill, Yordan (CUB) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)			Henson (2020) - Athlete First: 2016 year end hurdle report																
date	02-Jun-16	time	2.54	3.58	4.64	5.66	6.70	7.74	8.76					dnf	6 / --				
reaction time	0.135	interval	7 steps	1.04	1.06	1.02	1.04	1.04	1.02								3.12	3.10	
wind	0.6 m/s	velocity	5.40	8.79	8.62	8.96	8.79	8.79	8.96								8.79	8.85	
Bascou, Dimitri (FRA) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)			Henson (2020) - Athlete First: 2016 year end hurdle report																
date	02-Jun-16	time	2.48	3.58	4.66	5.70	6.72	7.74	8.80					dnf	4 / --				
reaction time	0.149	interval	7 steps	1.10	1.08	1.04	1.02	1.02	1.06								3.22	3.10	
wind	0.6 m/s	velocity	5.53	8.31	8.46	8.79	8.96	8.96	8.62								8.52	8.85	
Ash, Ronnie (USA) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)			Henson (2020) - Athlete First: 2016 year end hurdle report																
date	16-Aug-16	time	2.52	3.58	4.60	5.60	6.60	7.60	8.62	9.64	10.70	11.72							
reaction time	0.160	interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.02	1.02	1.06	1.02		DQ			3.08	3.02	3.10
wind	0.2 m/s	velocity	5.44	8.62	8.96	9.14	9.14	9.14	8.96	8.96	8.62	8.96					8.90	9.08	8.85

WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified DV=Drug Violation

Tay, Marvin (SWE) (1990)																	
FINAL 2 - 2017 Windsprint (Sundsvall, SWE)																	
date	30-Jul-17	time	2.69	3.82	4.92								dnf		(2017) - www.windsprint/Splittider/		
reaction time		interval		1.13	1.10										/ --		
wind	1.0 m/s	velocity	5.10	8.09	8.31												
Al-Yoha, Yaqoub (KUW) (1993)																	
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)																	
date	06-Aug-17	time	2.43	3.47	4.52								dnf	3 / --	Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles		
reaction time	0.152	interval		1.04	1.05												
wind	0.2 m/s	velocity	5.65	8.79	8.70												
O'Farrill, Yordan (CUB) (1993)																	
Semi-Final 3 - 2017 IAAF World Championships (London, GBR)																	
date	06-Aug-17	time	2.51	3.58	4.62	5.65	6.68						dnf	2 / --	Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles		
reaction time	0.147	interval	7 steps	1.07	1.04	1.03	1.03								3.14		
wind	0.3 m/s	velocity	5.47	8.54	8.79	8.87	8.87								8.73		
Jiang Fan (CHN) (1990)																	
Heat 4 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																	
date	13-Apr-19	time	2.69	3.84	4.96	6.08	7.22	8.40					dnf	8 / --	CAA Hurdle Development (2019)		
reaction time	0.153	interval		1.15	1.12	1.12	1.14	1.18							3.39		
wind	-0.8 m/s	velocity	5.10	7.95	8.16	8.16	8.02	7.75							8.09		
Sun Zhenjiang (CHN) (1999)																	
Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)																	
date	02-Aug-19	time	2.72										dnf	5 / --	CAA Hurdle Development (2019)		
reaction time	0.166	interval	7 steps														
wind	-0.2 m/s	velocity	5.04														
Liu Junxi (CHN) (2003)																	
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)																	
date	14-Aug-19	time	2.61	3.78									dnf	4 / --	CAA Hurdle Development (2019)		
reaction time		interval		1.17													
wind	-0.1 m/s	velocity	5.26	7.81													
Lu Yang (CHN) (1996)																	
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																	
date	23-Aug-19	time	2.84	4.00	5.15								dnf	2 / --	CAA Hurdle Development (2019)		
reaction time	0.179	interval		1.16	1.15												
wind	-0.2 m/s	velocity	4.83	7.88	7.95												
Obasuyi, Michael (BEL) (1999)																	
FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)																	
date	06-Sep-19	time	2.52	3.64	4.68	5.72	6.78	7.82	8.88	9.92	11.00	12.08		1 / ~~2~~	Henson (2020) - Athlete First: 2019 year end hurdle report		
reaction time	0.149	interval	7 steps	1.12	1.04	1.04	1.06	1.04	1.06	1.04	1.08	1.08			3.20 3.16 3.20		
wind	0.0 m/s	velocity	5.44	8.16	8.79	8.79	8.62	8.79	8.62	8.79	8.46	8.46			8.57 8.68 8.57		
Kraus, Simon (FRA) (1992)																	
FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)																	
date	11-Aug-20	time	2.64	3.70	4.84	5.91	7.00	8.08	9.21				dnf	2 / --	Henson (2020) - Athlete First: 2020 year end hurdle report		
reaction time	0.154	interval	7 steps	1.06	1.14	1.07	1.09	1.08	1.13						3.27 3.30		
wind	1.1 m/s	velocity	5.20	8.62	8.02	8.54	8.39	8.46	8.09						8.39 8.31		
Mohamed, Raphael (FRA) (1998)																	
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)																	
date	13-Sep-20	time	2.70	3.75	4.79	5.84	6.89	8.00	9.05	10.13	11.14		dnf	7 / --	Henson (2020) - Athlete First: 2020 year end hurdle report		
reaction time	0.270	interval	7 steps	1.05	1.04	1.05	1.05	1.11	1.05	1.08	1.01				3.14 3.21		
wind	0.0 m/s	velocity	5.08	8.70	8.79	8.70	8.70	8.23	8.70	8.46	9.05				8.73 8.54		
Sun Haoru (CHN) (1998)																	
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)																	
date	19-May-21	time	2.74	3.85	4.97	6.19							dnf	7 / --	CAA Hurdle Development (2021)		
reaction time	0.156	interval		1.11	1.12	1.22									3.45		
wind	1.9 m/s	velocity	5.01	8.23	8.16	7.49									7.95		
Guo Zhongjie (CHN) (2001)																	
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)																	
date	12-Jun-21	time	2.71	3.77	4.85	5.95	7.10						dnf	8 / --	CAA Hurdle Development (2021)		
reaction time		interval		1.06	1.08	1.10	1.15								3.24		
wind	0.9 m/s	velocity	5.06	8.62	8.46	8.31	7.95								8.46		

Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report									
date	28-Aug-21	time	2.46	3.48	4.50	5.52	6.54	7.58	8.66											3 / --		
reaction time	0.150	interval	7 steps	1.02	1.02	1.02	1.02	1.04	1.08											DQ	3.06	3.14
wind	0.7 m/s	velocity	5.58	8.96	8.96	8.96	8.96	8.79	8.46												8.96	8.73
Belocian, Wilhem (FRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report									
date	16-Jun-22	time	2.48	3.52	4.58	5.64											dnf	1 / --				
reaction time	0.111	interval	7 steps	1.04	1.06	1.06													3.16			
wind	-1.2 m/s	velocity	5.53	8.79	8.62	8.62													8.68			
Mallett, Aaron (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report									
date	18-Jun-22	time	2.50	3.56	4.58	5.62	6.62	7.62	8.66	9.68								3 / --				
reaction time	0.150	interval	7 steps	1.06	1.02	1.04	1.00	1.00	1.04	1.02								DQ	3.12	3.04		
wind	-0.2 m/s	velocity	5.49	8.62	8.96	8.79	9.14	9.14	8.79	8.96									8.79	9.02		
Brathwaite, Shane (BAR) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report									
date	17-Jul-22	time	2.48	3.56	4.60	5.60	6.63	7.65											dnf	1 / --		
reaction time	0.108	interval	7 steps	1.08	1.04	1.00	1.03	1.02											DQ		3.12	
wind	1.2 m/s	velocity	5.53	8.46	8.79	9.14	8.87	8.96													8.79	
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report									
date	16-Jul-22	time	2.50	3.50	4.50	5.50	6.53	7.56	8.60								dnf	4 / --				
reaction time	0.179	interval		1.00	1.00	1.00	1.03	1.03	1.04								DQ		3.00	3.10		
wind	-0.3 m/s	velocity	5.49	9.14	9.14	9.14	8.87	8.87	8.79										9.14	8.85		
Allen, Devon (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
Heat 1 - 2023 Meeting de Paris (Paris, FRA)													Omega Timing (2023) - diamond league race analysis									
date	09-Jun-23	time	2.44	4.48											dnf	5 / --						
reaction time	0.140	interval	7 steps	2.04																		
wind	-2.0 m/s	velocity	5.62	4.48																		
Murray, Cameron (USA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report									
date	09-Jun-23	time	2.67											dnf	4 / --							
reaction time		interval	7 steps																			
wind	1.8 m/s	velocity	5.14																			
Trajkovic, Milan (CYP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)													Omega Timing (2023) - diamond league race analysis									
date	16-Jul-23	time	2.40	3.48	4.53	5.58	6.62	7.67	8.74	10.06	12.38	20.77							8 / --			
reaction time	0.159	interval	7 steps	1.08	1.05	1.05	1.04	1.05	1.07	1.32	2.32	8.39							DQ	3.18	3.16	12.03
wind	0.3 m/s	velocity	5.72	8.46	8.70	8.70	8.79	8.70	8.54	6.92	3.94	1.09								8.62	8.68	2.28
Czykier, Damian (POL) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report									
date	08-Jun-24	time	2.56	3.60	4.60	5.60	6.67	7.70											dnf	9 / --		
reaction time	0.151	interval	7 steps	1.04	1.00	1.00	1.07	1.03													3.04	
wind	0.6 m/s	velocity	5.36	8.79	9.14	9.14	8.54	8.87													9.02	
Izumiya, Shunsuke (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)													Omega Timing (2024) - diamond league race analysis									
date	12-Jul-24	time	2.41	3.48	4.52	5.53	6.57	7.59	8.60	9.62								dnf	8 / --			
reaction time	0.156	interval	7 steps	1.07	1.04	1.01	1.04	1.02	1.01	1.02										3.12	3.07	
wind	-0.7 m/s	velocity	5.69	8.54	8.79	9.05	8.79	8.96	9.05	8.96										8.79	8.93	
Al-Yoha, Yaqoub (KUW) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
Heat 5 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)									
date	04-Aug-24	time	2.50	3.65	4.86	6.45	8.73											dnf	7 / --			
reaction time	0.151	interval	7 steps	1.15	1.21	1.59	2.28													3.95		
wind	0.7 m/s	velocity	5.49	7.95	7.55	5.75	4.01													6.94		
Hairston, Max (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report									
date	24-Jun-24	time	2.62	3.69	4.75	5.83	6.86	7.95	9.00									6 / --				
reaction time		interval	7 steps	1.07	1.06	1.08	1.03	1.09	1.05								DQ		3.21	3.17		
wind	1.2 m/s	velocity	5.24	8.54	8.62	8.46	8.87	8.39	8.70										8.54	8.65		
Wearing, Giovanni (USA) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				

WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DO=Disqualified DV=Drug Violation

Holloway, Grant (USA) (1997)

Holloway, Grant (USA) (1997)Holloway, Grant (USA) (1997)

Holloway, Grant (USA) (1997)

Jackson, Colin (GBR) (1967)

Holloway, Grant (USA) (1997)

Holloway, Grant (USA) (1997)

Holloway, Grant (USA) (1997)

Robles, Dayron (CUB) (1986)

Holloway, Grant (USA) (1997)

WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified DV=Drug Violation

date	9-Mar-19	time	2.51	3.52	4.53	5.51	6.48
reaction time	0.170	interval	7 steps	1.01	1.01	0.98	0.97
		velocity	5.47	9.05	9.05	9.33	9.42

	7.35	4 / 1	
0.87	AR PB		3.00
11.17	8.16		9.14

Holloway, Grant (USA) (1997)

FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis)							
date	24-Jan-21	time	2.42	3.43	4.43	5.42	6.39
reaction time	0.174	interval	7 steps	1.01	1.00	0.99	0.97
		velocity	5.67	9.05	9.14	9.23	9.42

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
	7.35	4 / 1			
	0.96	=AR =PB			3.00
	10.13	8.16			9.14

Holloway, Grant (USA) (1997)

FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)							
date	17-Feb-22	time	2.39	3.40	4.38	5.36	6.36
reaction time	0.167	interval	7 steps	1.01	0.98	0.98	1.00
		velocity	5.74	9.05	9.33	9.33	9.14

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
	7.35	4 / 1			
	0.99				2.97
	9.82	8.16			9.23

Holloway, Grant (USA) (1997)

FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)							
date	04-Feb-24	time	2.50	3.50	4.48	5.43	6.43
reaction time	0.166	interval	7 steps	1.00	0.98	0.95	1.00
		velocity	5.49	9.14	9.33	9.62	9.14

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
	7.35	4 / 1			
	0.92				2.93
	10.57	8.16			9.36

Trammell, Terrence (USA) (1978)

FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)							
date	14-Mar-10	time	2.48	3.50	4.50	5.49	6.48
reaction time	0.149	interval		1.02	1.00	0.99	0.99
		velocity	5.53	8.96	9.14	9.23	9.23

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<i>Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships</i>					
	7.36	4 / 2			
	0.88	AR			3.01
	11.05	8.15			9.11

Holloway, Grant (USA) (1997)

FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)							
date	06-Feb-22	time	2.45	3.44	4.45	5.44	6.42
reaction time	0.181	interval	7 steps	0.99	1.01	0.99	0.98
		velocity	5.60	9.23	9.05	9.23	9.33

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
	7.37	3 / 1			
	0.95				2.99
	10.23	8.14			9.17

Holloway, Grant (USA) (1997)

Heat 2 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)							
date	09-Feb-21	time	2.38	3.38	4.38	5.36	6.34
reaction time	0.194	interval	7 steps	1.00	1.00	0.98	0.98
		velocity	5.76	9.14	9.14	9.33	9.33

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
	7.38	4 / 1			
	1.04				2.98
	9.35	8.13			9.20

Holloway, Grant (USA) (1997)

FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis)							
date	17-Feb-21	time	2.44	3.45	4.43	5.42	6.45
reaction time	0.122	interval	7 steps	1.01	0.98	0.99	1.03
		velocity	5.62	9.05	9.33	9.23	8.87

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
	7.38	4 / 1			
	0.93				2.98
	10.45	8.13			9.20

Holloway, Grant (USA) (1997)

FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)							
date	20-Mar-22	time	2.36	3.40	4.38	5.38	6.38
reaction time	0.151	interval	7 steps	1.04	0.98	1.00	1.00
		velocity	5.81	8.79	9.33	9.14	9.14

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
	7.39	4 / 1			
	1.01				3.02
	9.62	8.12			9.08

Holloway, Grant (USA) (1997)

Heat 2 - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)							
date	10-Feb-24	time	2.46	3.48	4.48	5.44	6.44
reaction time	0.168	interval	7 steps	1.02	1.00	0.96	1.00
		velocity	5.58	8.96	9.14	9.52	9.14

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
	7.39	5 / 1			
	0.95				2.98
	10.23	8.12			9.20

Cunningham, Trey (USA) (1998)

FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)							
date	16-Feb-24	time	2.54	3.57	4.56	5.54	6.54
reaction time	0.152	interval	7 steps	1.03	0.99	0.98	1.00
		velocity	5.40	8.87	9.23	9.33	9.14

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
	7.39	5 / 1			
	0.85				3.00
	11.44	8.12			9.14

Holloway, Grant (USA) (1997)

Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)							
date	17-Feb-22	time	2.35	3.38	4.37	5.37	6.38
reaction time	0.153	interval	7 steps	1.03	0.99	1.00	1.01
		velocity	5.84	8.87	9.23	9.14	9.05

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
	7.40	4 / 1			
	1.02				3.02
	9.53	8.11			9.08

Holloway, Grant (USA) (1997)

Heat 5 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)							
date	20-Mar-22	time	2.50	3.50	4.48	5.46	6.48

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
	7.40	3 / 1			

reaction time 0.140 interval 7 steps 1.00 0.98 0.98 1.02
velocity 5.49 9.14 9.33 9.33 8.96

0.92 2.96
10.57 8.11 9.26

Liu Xiang (CHN) (1983)

H1 H2 H3 H4 H5

FINAL - 2012 Aviva Grand Prix (Birmingham, GBR)

date 18-Feb-12 time 2.54 3.54 4.54 5.54 6.51
reaction time 0.154 interval 1.00 1.00 1.00 0.97
velocity 5.40 9.14 9.14 9.14 9.42

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Wang (2012) - analysis of the time characteristics of Liu Xiang in his first 110m hurdles competition of 2012

7.41 / 1
0.90 AR PB 3.00
10.80 8.10 9.14

Roberts, Daniel (USA) (1998)

H1 H2 H3 H4 H5

FINAL - 2019 NCAA National Indoor Championships (Birmingham, AL) (TV Analysis)

date 9-Mar-19 time 2.53 3.54 4.54 5.54 6.57
reaction time 0.181 interval 1.01 1.00 1.00 1.03
velocity 5.42 9.05 9.14 9.14 8.87

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2020) - Athlete First: 2019 year end hurdle report

7.41 3 / 2
0.84 PB 3.01
11.57 8.10 9.11

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5

FINAL - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)

date 14-Feb-21 time 2.40 3.40 4.40 5.42 6.42
reaction time 0.161 interval 7 steps 1.00 1.00 1.02 1.00
velocity 5.72 9.14 9.14 8.96 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

7.41 5 / 1
0.99 3.02
9.82 8.10 9.08

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5

FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)

date 19-Feb-22 time 2.37 3.38 4.39 5.39 6.39
reaction time 0.149 interval 7 steps 1.01 1.01 1.00 1.00
velocity 5.79 9.05 9.05 9.14 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

7.41 3 / 1
1.02 3.02
9.53 8.10 9.08

Belocian, Wilhem (FRA) (1995)

H1 H2 H3 H4 H5

FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)

date 07-Mar-21 time 2.40 3.46 4.44 5.44 6.42
reaction time 0.129 interval 1.06 0.98 1.00 0.98
velocity 5.72 8.62 9.33 9.14 9.33

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - Athlete First: 2021 year end hurdle report

7.42 5 / 1
1.00 PB 3.04
9.72 8.09 9.02

Merritt, Aries (USA) (1985)

H1 H2 H3 H4 H5

FINAL - 2012 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)

date 26-Feb-12 time 2.50 3.52 4.56 5.54 6.54
reaction time 0.138 interval 7 steps 1.02 1.04 0.98 1.00
velocity 5.49 8.96 8.79 9.33 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2020) - Athlete First: 2012 Aries Merritt world record season

7.43 6 / 1
0.89 PB 3.04
10.92 8.08 9.02

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5

FINAL - 2019 Tyson Indoor Invitational (Fayetteville, AR) (TV Analysis)

date 8-Feb-19 time 2.43 3.44 4.43 5.42 6.44
reaction time interval 7 steps 1.01 0.99 0.99 1.02
velocity 5.65 9.05 9.23 9.23 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2020) - Athlete First: 2019 year end hurdle report

7.43 4 / 1
0.99 2.99
9.82 8.08 9.17

Pozzi, Andy (GBR) (1992)

H1 H2 H3 H4 H5

FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)

date 07-Mar-21 time 2.42 3.44 4.44 5.42 6.44
reaction time 0.151 interval 7 steps 1.02 1.00 0.98 1.02
velocity 5.67 8.96 9.14 9.33 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - Athlete First: 2021 year end hurdle report

7.43 6 / 2
0.99 =PB 3.00
9.82 8.08 9.14

Kwaou-Mathey, Just (FRA) (1999)

H1 H2 H3 H4 H5

FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)

date 10-Feb-24 time 2.44 3.48 4.47 5.46 6.46
reaction time 0.181 interval 7 steps 1.04 0.99 0.99 1.00
velocity 5.62 8.79 9.23 9.23 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record

7.43 4 / 2
0.97 PB 3.02
10.02 8.08 9.08

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5

Heat 1 - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)

date 02-Mar-24 time 2.48 3.50 4.45 5.45 6.47
reaction time 0.155 interval 7 steps 1.02 0.95 1.00 1.02
velocity 5.53 8.96 9.62 9.14 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record

7.43 3 / 1
0.96 2.97
10.13 8.08 9.23

Simonelli, Lorenzo Ndele (ITA) (2002)

H1 H2 H3 H4 H5

FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)

date 02-Mar-24 time 2.51 3.55 4.57 5.57 6.54
reaction time 0.152 interval 7 steps 1.04 1.02 1.00 0.97
velocity 5.47 8.79 8.96 9.14 9.42

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record

7.43 1 / 2
0.89 NR 3.06
10.92 8.08 8.96

Szymański, Jakub (POL) (2002)

H1 H2 H3 H4 H5

FINAL - 2025 European Athletics Indoor Championships (Apeldoorn, NED)

date 07-Mar-25 time 2.42 3.45 4.44 5.43 6.41
reaction time 0.155 interval 7 steps 1.03 0.99 0.99 0.98

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

European Athletics (2025) - european athletics indoor championships results book

7.43 6 / 1
1.02 3.01

velocity 5.67 8.87 9.23 9.23 9.33

9.53 8.08 9.11

Oliver, David (USA) (1982)

H1 H2 H3 H4 H5

FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)

date 14-Mar-10 time 2.53 3.56 4.56 5.56 6.56
 reaction time 0.149 interval 7 steps 1.03 1.00 1.00 1.00
 velocity 5.42 8.87 9.14 9.14 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships

8 / 3
 0.88 7.44 PB 3.03
 11.05 8.06 9.05

Merritt, Aries (USA) (1985)

H1 H2 H3 H4 H5

FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis)

date 11-Mar-12 time 2.48 3.48 4.50 5.50 6.50
 reaction time 0.135 interval 7 steps 1.00 1.02 1.00 1.00
 velocity 5.53 9.14 8.96 9.14 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2020) - Athlete First: 2012 Aries Merritt world record season

4 / 1
 0.94 7.44 3.02
 10.34 8.06 9.08

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5

FINAL - 2019 South Eastern Conference Indoor Championships (Fayetteville, AR) (TV Analysis)

date 23-Feb-19 time 2.55 3.57 4.57 5.56 6.54
 reaction time interval 7 steps 1.02 1.00 0.99 0.98
 velocity 5.38 8.96 9.14 9.23 9.33

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2020) - Athlete First: 2019 year end hurdle report

4 / 1
 0.90 7.44 3.01
 10.80 8.06 9.11

Belocian, Wilhem (FRA) (1995)

H1 H2 H3 H4 H5

Semi-Final 1 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)

date 07-Mar-25 time 2.39 3.43 4.44 5.43 6.41
 reaction time 0.126 interval 7 steps 1.04 1.01 0.99 0.98
 velocity 5.74 8.79 9.05 9.23 9.33

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

European Athletics (2025) - european athletics indoor championships results book

4 / 1
 1.03 7.44 3.04
 9.44 8.06 9.02

Belocian, Wilhem (FRA) (1995)

H1 H2 H3 H4 H5

Heat 1 - 2021 Meeting Elite en Salle de Metz (Metz, FRA)

date 06-Feb-21 time 2.54 3.57 4.56 5.56 6.56
 reaction time 0.148 interval 1.03 0.99 1.00 1.00
 velocity 5.40 8.87 9.23 9.14 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Vazel (2021) - <https://twitter.com/pjvazel/status/1358428540241399810>

/ 1
 0.89 7.45 PB 3.02
 10.92 14.77 9.08

Murray, Cameron (USA) (1999)

H1 H2 H3 H4 H5

FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)

date 16-Feb-24 time 2.52 3.56 4.57 5.57 6.58
 reaction time 0.146 interval 7 steps 1.04 1.01 1.00 1.01
 velocity 5.44 8.79 9.05 9.14 9.05

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record

4 / 2
 0.87 7.45 PB 3.05
 11.17 8.05 8.99

Belocian, Wilhem (FRA) (1995)

H1 H2 H3 H4 H5

FINAL - 2025 European Athletics Indoor Championships (Apeldoorn, NED)

date 07-Mar-25 time 2.40 3.44 4.44 5.44 6.44
 reaction time 0.140 interval 7 steps 1.04 1.00 1.00 1.00
 velocity 5.72 8.79 9.14 9.14 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

European Athletics (2025) - european athletics indoor championships results book

5 / 2
 1.01 7.45 3.04
 9.62 8.05 9.02

Merritt, Aries (USA) (1985)

H1 H2 H3 H4 H5

FINAL - 2012 Leonard Hilton Memorial Invitational (Houston, TX)

date 13-Jan-12 time 2.53 3.53 4.53 5.52 6.52
 reaction time interval 7 steps 1.00 1.00 0.99 1.00
 velocity 5.42 9.14 9.14 9.23 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2020) - Athlete First: 2012 Aries Merritt world record season

5 / 1
 0.94 7.46 2.99
 10.34 8.04 9.17

Pozzi, Andy (GBR) (1992)

H1 H2 H3 H4 H5

FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)

date 04-Mar-18 time 2.51 3.54 4.59 5.58 6.57
 reaction time 0.143 interval 7 steps 1.03 1.05 0.99 0.99
 velocity 5.47 8.87 8.70 9.23 9.23

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men

4 / 1
 0.89 7.46 3.07
 10.92 8.04 8.93

Martinot Lagarde, Pascal (FRA) (1992)

H1 H2 H3 H4 H5

FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)

date 17-Feb-22 time 2.43 3.46 4.46 5.46 6.46
 reaction time 0.144 interval 7 steps 1.03 1.00 1.00 1.00
 velocity 5.65 8.87 9.14 9.14 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

6 / 2
 1.00 7.46 3.03
 9.72 8.04 9.05

Eaton, Jarret (USA) (1989)

H1 H2 H3 H4 H5

FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)

date 04-Mar-18 time 2.47 3.49 4.51 5.50 6.52
 reaction time 0.129 interval 7 steps 1.02 1.02 0.99 1.02
 velocity 5.55 8.96 8.96 9.23 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men

7 / 2
 0.95 7.47 3.03
 10.23 8.03 9.05

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5

Heat 1 - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)

date 14-Feb-21 time 2.42 3.42 4.42 5.42 6.42
 reaction time 0.142 interval 7 steps 1.00 1.00 1.00 1.00
 velocity 5.67 9.14 9.14 9.14 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

4 / 1
 1.05 7.47 3.00
 9.26 8.03 9.14

Cunningham, Trey (USA) (1998)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	06-Feb-22	time	2.48	3.50	4.51	5.51	6.55				7.47	4 / 2			
reaction time	0.189	interval	7 steps	1.02	1.01	1.00	1.04			0.92			3.03		
		velocity	5.53	8.96	9.05	9.14	8.79			10.57	8.03		9.05		
Kwaou-Mathey, Just (FRA) (1999)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)										<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	02-Mar-24	time	2.56	3.57	4.59	5.58	6.59				7.47	7 / 3			
reaction time	0.149	interval	7 steps	1.01	1.02	0.99	1.01			0.88			3.02		
		velocity	5.36	9.05	8.96	9.23	9.05			11.05	8.03		9.08		
Liu Junxi (CHN) (2003)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 5 - 2025 Chinese National Grand Prix (Nanjing, CHN)										<i>Hubei Athletics Sport Science (2025)</i>					
date	23-Feb-25	time	2.56	3.61	4.64	5.63	6.64				7.47	/ 1			
reaction time	0.151	interval	7 steps	1.05	1.03	0.99	1.01			0.83	PB		3.07		
		velocity	5.36	8.70	8.87	9.23	9.05			11.71	8.03		8.93		
Roberts, Daniel (USA) (1998)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 South Eastern Conference Indoor Championships (Fayetteville, AR) (TV Analysis)										<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	23-Feb-19	time	2.55	3.60	4.61	5.60	6.62				7.48	5 / 2			
reaction time		interval		1.05	1.01	0.99	1.02			0.86			3.05		
		velocity	5.38	8.70	9.05	9.23	8.96			11.30	8.02		8.99		
Szymański, Jakub (POL) (2002)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	10-Feb-24	time	2.42	3.45	4.42	5.42	6.42				7.48	6 / 3			
reaction time	0.183	interval	7 steps	1.03	0.97	1.00	1.00			1.06			3.00		
		velocity	5.67	8.87	9.42	9.14	9.14			9.17	8.02		9.14		
Roberts, Daniel (USA) (1998)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)										<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	16-Feb-24	time	2.52	3.56	4.57	5.57	6.60				7.48	2 / 3			
reaction time	0.154	interval	7 steps	1.04	1.01	1.00	1.03			0.88			3.05		
		velocity	5.44	8.79	9.05	9.14	8.87			11.05	8.02		8.99		
Robles, Dayron (CUB) (1986)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 GE Galan (Stockholm, SWE)										<i>Blomkvist (2010) - www.sub13.se</i>					
date	10-Feb-10	time	2.35	3.39	4.39	5.37	6.38				7.49	/ 1			
reaction time		interval	7 steps	1.04	1.00	0.98	1.01			1.11			3.02		
		velocity	5.84	8.79	9.14	9.33	9.05			8.76	8.01		9.08		
Liu Xiang (CHN) (1983)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis)										<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	11-Mar-12	time	2.50	3.52	4.54	5.56	6.58				7.49	3 / 2			
reaction time	0.167	interval	7 steps	1.02	1.02	1.02	1.02			0.91			3.06		
		velocity	5.49	8.96	8.96	8.96	8.96			10.68	8.01		8.96		
Shubenkov, Sergey (RUS) (1990)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 European Indoor Championships (Göteborg, SWE)										<i>Blomkvist (2013) - www.elitlandslog.se/SprintHäck/KorthHäck.aspx</i>					
date	01-Mar-13	time	2.58	3.62	4.62	5.62	6.64				7.49	6 / 1			
reaction time	0.161	interval		1.04	1.00	1.00	1.02			0.85	=PB		3.04		
		velocity	5.32	8.79	9.14	9.14	8.96			11.44	8.01		9.02		
Levy, Ronald (JAM) (1992)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Müller Indoor Grand Prix (Glasgow, GBR)										<i>(2018.05.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	25-Feb-18	time	2.54	3.59	4.61	5.63	6.63				7.49	/ 1			
reaction time	0.148	interval		1.05	1.02	1.02	1.00			0.86	PB		3.09		
		velocity	5.40	8.70	8.96	8.96	9.14			11.30	8.01		8.87		
Cunningham, Trey (USA) (1998)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)										<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	04-Feb-24	time	2.52	3.54	4.54	5.54	6.58				7.49	5 / 2			
reaction time	0.152	interval	7 steps	1.02	1.00	1.00	1.04			0.91			3.02		
		velocity	5.44	8.96	9.14	9.14	8.79			10.68	8.01		9.08		
Roberts, Daniel (USA) (1998)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)										<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	04-Feb-24	time	2.50	3.54	4.57	5.58	6.60				7.49	3 / 3			
reaction time	0.167	interval	7 steps	1.04	1.03	1.01	1.02			0.89			3.08		
		velocity	5.49	8.79	8.87	9.05	8.96			10.92	8.01		8.90		

										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Llopis, Enrique (ESP) (2000)										<i>European Athletics (2025) - european athletics indoor championships results book</i>					
Semi-Final 1 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)											7.49	5 / 2			
date	07-Mar-25	time	2.38	3.44	4.45	5.45	6.45								
reaction time	0.126	interval	7 steps	1.06	1.01	1.00	1.00			1.04			3.07		
		velocity	5.76	8.62	9.05	9.14	9.14			9.35	8.01		8.93		
Szymański, Jakub (POL) (2002)										<i>European Athletics (2025) - european athletics indoor championships results book</i>					
Semi-Final 2 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)											7.49	6 / 1			
date	07-Mar-25	time	2.41	3.45	4.44	5.43	6.43								
reaction time	0.164	interval	7 steps	1.04	0.99	0.99	1.00			1.06			3.02		
		velocity	5.69	8.79	9.23	9.23	9.14			9.17	8.01		9.08		
Kwaou-Mathey, Just (FRA) (1999)										<i>European Athletics (2025) - european athletics indoor championships results book</i>					
Semi-Final 2 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)											7.49	5 / 2			
date	07-Mar-25	time	2.43	3.49	4.49	5.48	6.48								
reaction time	0.157	interval	7 steps	1.06	1.00	0.99	1.00			1.01			3.05		
		velocity	5.65	8.62	9.14	9.23	9.14			9.62	8.01		8.99		
Belocian, Wilhem (FRA) (1995)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
Heat 1 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)											7.50	5 / 1			
date	09-Feb-21	time	2.40	3.43	4.46	5.46	6.46								
reaction time	0.141	interval		1.03	1.03	1.00	1.00			1.04			3.06		
		velocity	5.72	8.87	8.87	9.14	9.14			9.35	8.00		8.96		
Martinot Lagarde, Pascal (FRA) (199)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)											7.50	5 / 2			
date	20-Mar-22	time	2.46	3.50	4.52	5.52	6.54								
reaction time	0.154	interval	7 steps	1.04	1.02	1.00	1.02			0.96			3.06		
		velocity	5.58	8.79	8.96	9.14	8.96			10.13	8.00		8.96		
Kwaou-Mathey, Just (FRA) (1999)										<i>European Athletics (2025) - european athletics indoor championships results book</i>					
FINAL - 2025 European Athletics Indoor Championships (Apeldoorn, NED)											7.50	4 / 3			
date	07-Mar-25	time	2.42	3.45	4.46	5.46	6.48								
reaction time	0.165	interval	7 steps	1.03	1.01	1.00	1.02			1.02			3.04		
		velocity	5.67	8.87	9.05	9.14	8.96			9.53	8.00		9.02		
Borisov, Yevgeniy (RUS) (1984)										<i>Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships</i>					
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)											7.51	3 / 4			
date	14-Mar-10	time	2.53	3.57	4.58	5.59	6.63								
reaction time	0.167	interval	7 steps	1.04	1.01	1.01	1.04			0.88			3.06		
		velocity	5.42	8.79	9.05	9.05	8.79			11.05	7.99		8.96		
Dal Molin, Paolo (ITA) (1987)										<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KorthHäck.aspx</i>					
FINAL - 2013 European Indoor Championships (Göteborg, SWE)											7.51	4 / 2			
date	01-Mar-13	time	2.51	3.55	4.60	5.62	6.66								
reaction time	0.138	interval		1.04	1.05	1.02	1.04			0.85	NR		3.11		
		velocity	5.47	8.79	8.70	8.96	8.79			11.44	7.99		8.82		
Pozzi, Andy (GBR) (1992)										<i>(2017.03.05) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en</i>					
FINAL - 2017 European Indoor Championships (Beograd, SRB)											7.51	5 / 1			
date	03-Mar-17	time	2.62	3.63	4.63	5.61	6.62								
reaction time		interval	7 steps	1.01	1.00	0.98	1.01			0.89			2.99		
		velocity	5.24	9.05	9.14	9.33	9.05			10.92	7.99		9.17		
Eaton, Jarret (USA) (1989)										<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
FINAL - 2019 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)											7.51	4 / 1			
date	16-Feb-19	time	2.50	3.54	4.54	5.54	6.56								
reaction time	0.136	interval	7 steps	1.04	1.00	1.00	1.02			0.95			3.04		
		velocity	5.49	8.79	9.14	9.14	8.96			10.23	7.99		9.02		
Pozzi, Andy (GBR) (1992)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)											7.51	3 / 2			
date	24-Feb-21	time	2.40	3.44	4.45	5.45	6.47								
reaction time		interval	7 steps	1.04	1.01	1.00	1.02			1.04			3.05		
		velocity	5.72	8.79	9.05	9.14	8.96			9.35	7.99		8.99		
Allen, Devon (USA) (1994)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)											7.51	5 / 3			
date	06-Feb-22	time	2.51	3.55	4.58	5.57	6.58								
reaction time	0.143	interval		1.04	1.03	0.99	1.01			0.93			3.06		
		velocity	5.47	8.79	8.87	9.23	9.05			10.45	7.99		8.96		
Eaton, Jarret (USA) (1989)															
										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)

date	17-Feb-22	time	2.43	3.44	4.44	5.44	6.46
reaction time	0.146	interval	7 steps	1.01	1.00	1.00	1.02
		velocity	5.65	9.05	9.14	9.14	8.96

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

	7.51	5 / 3
	1.05	3.01
	9.26	7.99
		9.11

Simonelli, Lorenzo Ndele (ITA) (2002) H1 H2 H3 H4 H5
Heat 2 - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)

date	10-Feb-24	time	2.48	3.52	4.56	5.58	6.58
reaction time	0.165	interval	7 steps	1.04	1.04	1.02	1.00
		velocity	5.53	8.79	8.79	8.96	9.14

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.51	4 / 2			
	0.93				3.10
	10.45				7.99
					8.85

Murray, Cameron (USA) (1999) H1 H2 H3 H4 H5
Heat 1 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)

date	16-Feb-24	time	2.55	3.59	4.61	5.61	6.62
reaction time	0.143	interval	7 steps	1.04	1.02	1.00	1.01
		velocity	5.38	8.79	8.96	9.14	9.05

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.51	1 / 2			
	0.89				3.06
	10.92				7.99
					8.96

Quiñónez, Jackson (ESP) (1980) H1 H2 H3 H4 H5
FINAL - 2008 Spanish National Indoor Championships (Valencia, ESP)

date	24-Feb-08	time	2.56	3.62	4.62	5.62	6.64
reaction time		interval		1.06	1.00	1.00	1.02
		velocity	5.36	8.62	9.14	9.14	8.96

Frutos (2008) - 7.52 record de españa de 60mv masculino de jackson quiñónez: estudio biomecánico

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.52	/ 1			
	0.88				3.06
	11.05				7.98
					8.96

Martinot Lagarde, Pascal (FRA) (199) H1 H2 H3 H4 H5
FINAL - 2017 European Indoor Championships (Beograd, SRB)

date	03-Mar-17	time	2.59	3.63	4.64	5.65	6.65
reaction time		interval	7 steps	1.04	1.01	1.01	1.00
		velocity	5.30	8.79	9.05	9.05	9.14

(2017.03.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.52	4 / 2			
	0.87				3.06
	11.17				7.98
					8.96

Martinot Lagarde, Pascal (FRA) (199) H1 H2 H3 H4 H5
FINAL - 2019 French National Indoor Championships (Miramas, FRA) (TV Analysis)

date	16-Feb-19	time	2.48	3.52	4.54	5.54	6.54
reaction time	0.150	interval	7 steps	1.04	1.02	1.00	1.00
		velocity	5.53	8.79	8.96	9.14	9.14

Henson (2020) - Athlete First: 2019 year end hurdle report

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.52	5 / 1			
	0.98				3.06
	9.92				7.98
					8.96

Ortega, Orlando (ESP) (1991) H1 H2 H3 H4 H5
FINAL - 2019 PSD Bank Meeting (Düsseldorf, GER) (TV Analysis)

date	20-Feb-19	time	2.43	3.46	4.48	5.50	6.48
reaction time	0.120	interval	7 steps	1.03	1.02	1.02	0.98
		velocity	5.65	8.87	8.96	8.96	9.33

Henson (2020) - Athlete First: 2019 year end hurdle report

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.52	4 / 1			
	1.04				3.07
	9.35				7.98
					8.93

Trajkovic, Milan (CYP) (1992) H1 H2 H3 H4 H5
FINAL - 2019 PSD Bank Meeting (Düsseldorf, GER) (TV Analysis)

date	20-Feb-19	time	2.40	3.42	4.44	5.44	6.44
reaction time	0.153	interval	7 steps	1.02	1.02	1.00	1.00
		velocity	5.72	8.96	8.96	9.14	9.14

Henson (2020) - Athlete First: 2019 year end hurdle report

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.52	7 / 2			
	1.08				3.04
	9.00				7.98
					9.02

Belocian, Wilhem (FRA) (1995) H1 H2 H3 H4 H5
FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)

date	09-Feb-21	time	2.52	3.54	4.56	5.55	6.56
reaction time	0.160	interval		1.02	1.02	0.99	1.01
		velocity	5.44	8.96	8.96	9.23	9.05

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.52	4 / 2			
	0.96				3.03
	10.13				7.98
					9.05

Eaton, Jarret (USA) (1989) H1 H2 H3 H4 H5
Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)

date	20-Mar-22	time	2.43	3.46	4.46	5.48	6.50
reaction time	0.134	interval	7 steps	1.03	1.00	1.02	1.02
		velocity	5.65	8.87	9.14	8.96	8.96

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.52	4 / 1			
	1.02				3.05
	9.53				7.98
					8.99

Simonelli, Lorenzo Ndele (ITA) (2002) H1 H2 H3 H4 H5
FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)

date	10-Feb-24	time	2.42	3.46	4.49	5.50	6.50
reaction time	0.157	interval	7 steps	1.04	1.03	1.01	1.00
		velocity	5.67	8.79	8.87	9.05	9.14

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.52	3 / 4			
	1.02				3.08
	9.53				7.98
					8.90

Martinot Lagarde, Pascal (FRA) (199) H1 H2 H3 H4 H5
FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis)

date	11-Mar-12	time	2.50	3.54	4.56	5.58	6.58
reaction time	0.141	interval		1.04	1.02	1.02	1.00
		velocity	5.49	8.79	8.96	8.96	9.14

Henson (2020) - Athlete First: 2012 Aries Merritt world record season

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.53	6 / 3			
	0.95				3.08
	10.23				7.97
					8.90

Martinot Lagarde, Pascal (FRA) (199) H1 H2 H3 H4 H5
FINAL - 2013 European Indoor Championships (Göteborg, SWE)Blomkvist (2013) - www.elitlandslag.se/Sprinthäck/Korthäck.aspx

date	01-Mar-13	time	2.57	3.64	4.65	5.65	6.65
reaction time	0.155	interval		1.07	1.01	1.00	1.00
		velocity	5.34	8.54	9.05	9.14	9.14

	7.53	3 / 3
	=PB	3.08
	11.05	7.97
		8.90

Crittenden, Freddie (USA) (1994)

FINAL - 2019 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)							
date	16-Feb-19	time	2.50	3.52	4.55	5.55	6.56
reaction time	0.146	interval		1.02	1.03	1.00	1.01
		velocity	5.49	8.96	8.87	9.14	9.05

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.53	8 / 2			
	0.97				3.05
	10.02				7.97
					8.99

Pozzi, Andy (GBR) (1992)

Heat 2 - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)							
date	24-Feb-21	time	2.57	3.63	4.63	5.65	6.66
reaction time	0.132	interval	7 steps	1.06	1.00	1.02	1.01
		velocity	5.34	8.62	9.14	8.96	9.05

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.53	4 / 1			
	0.87				3.08
	11.17				7.97
					8.90

Trajkovic, Milan (CYP) (1992)

Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)							
date	20-Mar-22	time	2.47	3.53	4.53	5.55	6.57
reaction time	0.145	interval	7 steps	1.06	1.00	1.02	1.02
		velocity	5.55	8.62	9.14	8.96	8.96

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.53	1 / 2			
	0.96				3.08
	10.13				7.97
					8.90

Martinot Lagarde, Pascal (FRA) (199)

Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)							
date	20-Mar-22	time	2.50	3.52	4.54	5.54	6.56
reaction time	0.136	interval	7 steps	1.02	1.02	1.00	1.02
		velocity	5.49	8.96	8.96	9.14	8.96

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.53	4 / 2			
	0.97				3.04
	10.02				7.97
					9.02

Belocian, Wilhem (FRA) (1995)

Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)							
date	20-Mar-22	time	2.53	3.56	4.56	5.56	6.56
reaction time	0.129	interval		1.03	1.00	1.00	1.00
		velocity	5.42	8.87	9.14	9.14	9.14

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.53	4 / 1			
	0.97				3.03
	10.02				7.97
					9.05

Eaton, Jarret (USA) (1989)

FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)							
date	20-Mar-22	time	2.46	3.48	4.52	5.52	6.54
reaction time	0.166	interval	7 steps	1.02	1.04	1.00	1.02
		velocity	5.58	8.96	8.79	9.14	8.96

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.53	6 / 3			
	0.99				3.06
	9.82				7.97
					8.96

Llopis, Enrique (ESP) (2000)

FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)							
date	02-Mar-24	time	2.57	3.60	4.62	5.62	6.61
reaction time	0.137	interval	7 steps	1.03	1.02	1.00	0.99
		velocity	5.34	8.87	8.96	9.14	9.23

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.53	2 / 4			
	0.92				3.05
	10.57				7.97
					8.99

Szymański, Jakub (POL) (2002)

FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)							
date	02-Mar-24	time	2.56	3.59	4.60	5.58	6.60
reaction time	0.163	interval	7 steps	1.03	1.01	0.98	1.02
		velocity	5.36	8.87	9.05	9.33	8.96

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.53	6 / 5			
	0.93				3.02
	10.45				7.97
					9.08

Cunningham, Trey (USA) (1998)

FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)							
date	02-Mar-24	time	2.57	3.60	4.62	5.62	6.61
reaction time	0.168	interval	7 steps	1.03	1.02	1.00	0.99
		velocity	5.34	8.87	8.96	9.14	9.23

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.53	3 / 6			
	0.92				3.05
	10.57				7.97
					8.99

Manga, Aurel (FRA) (1992)

FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)							
date	04-Mar-18	time	2.57	3.63	4.68	5.69	6.68
reaction time	0.169	interval	7 steps	1.06	1.05	1.01	0.99
		velocity	5.34	8.62	8.70	9.05	9.23

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.54	5 / 3			
	0.86				3.12
	11.30				7.96
					8.79

Trajkovic, Milan (CYP) (1992)

FINAL - 2019 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)							
date	16-Feb-19	time	2.52	3.55	4.55	5.55	6.56
reaction time	0.166	interval	7 steps	1.03	1.00	1.00	1.01
		velocity	5.44	8.87	9.14	9.14	9.05

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.54	6 / 3			
	0.98				3.03
	9.92				7.96
					9.05

Mallett, Aaron (USA) (1994)

FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)							
date	15-Feb-20	time	2.55	3.58	4.62	5.61	6.62

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.54	3 / 1			

reaction time 0.160 interval 1.03 1.04 0.99 1.01
velocity 5.38 8.87 8.79 9.23 9.05

0.92 **PB** 3.06
10.57 7.96 8.96

Dickson, Michael (USA) (1997)

H1 H2 H3 H4 H5

FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis)

date 24-Jan-21 time 2.50 3.55 4.59 5.62 6.62

reaction time 0.186 interval 7 steps 1.05 1.04 1.03 1.00
velocity 5.49 8.70 8.79 8.87 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

7.54 3 / 2

0.92 **PB** 3.12
10.57 7.96 8.79**Geerds, Job (NED) (2002)**

H1 H2 H3 H4 H5

Semi-Final 1 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)

date 07-Mar-25 time 2.43 3.49 4.51 5.51 6.51

reaction time 0.157 interval 7 steps 1.06 1.02 1.00 1.00
velocity 5.65 8.62 8.96 9.14 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

European Athletics (2025) - european athletics indoor championships results book

7.54 2 / 3

1.03 **PB** 3.08
9.44 7.96 8.90**Jordán, Abel (ESP) (2003)**

H1 H2 H3 H4 H5

FINAL - 2025 European Athletics Indoor Championships (Apeldoorn, NED)

date 07-Mar-25 time 2.42 3.49 4.51 5.52 6.53

reaction time 0.155 interval 7 steps 1.07 1.02 1.01 1.01
velocity 5.67 8.54 8.96 9.05 9.05

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

European Athletics (2025) - european athletics indoor championships results book

7.54 1 / 4

1.01 3.10
9.62 7.96 8.85**Caristan, Stéphane (FRA) (1964)**

H1 H2 H3 H4 H5

FINAL - 1986 French National Indoor Championships (Lievín, FRA)

date 26-Jan-86 time 2.54 3.61 4.64 5.65 6.66

reaction time interval 1.07 1.03 1.01 1.01
velocity 5.40 8.54 8.87 9.05 9.05

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Aubert (1986) - indoor - video - haies, etude des performances

7.55 / 1

0.89 **NR** 3.11
10.92 7.95 8.82**Eaton, Jarret (USA) (1989)**

H1 H2 H3 H4 H5

Heat 1 - 2021 Meeting Hauts-de-France Pas-de-Calais (Lievín, FRA) (TV Analysis)

date 09-Feb-21 time 2.37 3.40 4.43 5.46 6.49

reaction time 0.161 interval 7 steps 1.03 1.03 1.03 1.03
velocity 5.79 8.87 8.87 8.87 8.87

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

7.55 4 / 2

1.06 3.09
9.17 7.95 8.87**Dal Molin, Paolo (ITA) (1987)**

H1 H2 H3 H4 H5

FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Lievín, FRA) (TV Analysis)

date 09-Feb-21 time 2.43 3.49 4.55 5.57 6.60

reaction time 0.126 interval 7 steps 1.06 1.06 1.02 1.03
velocity 5.65 8.62 8.62 8.96 8.87

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

7.55 2 / 3

0.95 3.14
10.23 7.95 8.73**Zeng Jianhang (CHN) (1998)**

H1 H2 H3 H4 H5

A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)

date 13-Mar-21 time 2.54 3.58 4.62 5.62 6.64

reaction time 0.163 interval 1.04 1.04 1.00 1.02
velocity 5.40 8.79 8.79 9.14 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2021)

7.55 3 / 1

0.91 **PB** 3.08
10.68 7.95 8.90**Belocian, Wilhem (FRA) (1995)**

H1 H2 H3 H4 H5

Heat 6 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)

date 20-Mar-22 time 2.50 3.55 4.57 5.57 6.60

reaction time 0.109 interval 1.05 1.02 1.00 1.03
velocity 5.49 8.70 8.96 9.14 8.87

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

7.55 1 / 1

0.95 3.07
10.23 7.95 8.93**Martinez, Asier (ESP) (2000)**

H1 H2 H3 H4 H5

Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis) Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

date 20-Mar-22 time 2.50 3.56 4.58 5.58 6.62

reaction time 0.138 interval 7 steps 1.06 1.02 1.00 1.04
velocity 5.49 8.62 8.96 9.14 8.79

7.55 2 / 3

0.93 **=PB** 3.08
10.45 7.95 8.90**Tinch, Cordell (USA) (2000)**

H1 H2 H3 H4 H5

FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)

date 04-Feb-24 time 2.52 3.54 4.58 5.60 6.62

reaction time 0.174 interval 7 steps 1.02 1.04 1.02 1.02
velocity 5.44 8.96 8.79 8.96 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record

7.55 6 / 4

0.93 3.08
10.45 7.95 8.90**Obasuyi, Michael (BEL) (1999)**

H1 H2 H3 H4 H5

FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)

date 02-Mar-24 time 2.57 3.61 4.64 5.66 6.65

reaction time 0.144 interval 7 steps 1.04 1.03 1.02 0.99
velocity 5.34 8.79 8.87 8.96 9.23

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record

7.55 8 / 7

0.90 3.09
10.80 7.95 8.87**Obasuyi, Michael (BEL) (1999)**

H1 H2 H3 H4 H5

Semi-Final 2 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)

date 07-Mar-25 time 2.41 3.47 4.50 5.51 6.51

reaction time 0.129 interval 7 steps 1.06 1.03 1.01 1.00

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

European Athletics (2025) - european athletics indoor championships results book

7.55 8 / 3

1.04 3.10

velocity 5.69 8.62 8.87 9.05 9.14

9.35 7.95 8.85

Baji, Balázs (HUN) (1989)

H1 H2 H3 H4 H5

FINAL - 2013 European Indoor Championships (Göteborg, SWE)

date 01-Mar-13 time 2.55 3.61 4.65 5.66 6.67

reaction time 0.159 interval 7 steps 1.06 1.04 1.01 1.01

velocity 5.38 8.62 8.79 9.05 9.05

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx

7.56 8 / 4

0.89 =NR 3.11

10.92 7.94 8.82

Merritt, Aries (USA) (1985)

H1 H2 H3 H4 H5

FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)

date 04-Mar-18 time 2.53 3.58 4.62 5.63 6.64

reaction time 0.141 interval 7 steps 1.05 1.04 1.01 1.01

velocity 5.42 8.70 8.79 9.05 9.05

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men

7.56 1 / 4

0.92 3.10

10.57 7.94 8.85

Dal Molin, Paolo (ITA) (1987)

H1 H2 H3 H4 H5

FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)

date 07-Mar-21 time 2.40 3.46 4.50 5.54 6.58

reaction time 0.133 interval 7 steps 1.06 1.04 1.04 1.04

velocity 5.72 8.62 8.79 8.79 8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - Athlete First: 2021 year end hurdle report

7.56 7 / 3

0.98 3.14

9.92 7.94 8.73

Douglas, Chris (AUS) (1997)

H1 H2 H3 H4 H5

Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis) Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

date 20-Mar-22 time 2.46 3.53 4.56 5.56 6.58

reaction time 0.145 interval 7 steps 1.07 1.03 1.00 1.02

velocity 5.58 8.54 8.87 9.14 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

7.56 8 / 2

0.98 NR PB 3.10

9.92 7.94 8.85

Rollins, Louis (USA) (1996)

H1 H2 H3 H4 H5

FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)

date 16-Feb-24 time 2.52 3.58 4.63 5.65 6.67

reaction time 0.154 interval 1.06 1.05 1.02 1.02

velocity 5.44 8.62 8.70 8.96 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record

7.56 6 / 4

0.89 =PB 3.13

10.92 7.94 8.76

Zhu Shenglong (CHN) (2000)

H1 H2 H3 H4 H5

Race 5 - 2025 Chinese National Grand Prix (Nanjing, CHN)

date 23-Feb-25 time 2.60 3.64 4.67 5.68 6.70

reaction time 0.145 interval 7 steps 1.04 1.03 1.01 1.02

velocity 5.28 8.79 8.87 9.05 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Hubei Athletics Sport Science (2025)

7.56 1 / 2

0.86 PB 3.08

11.30 7.94 8.90

Martinez, Asier (ESP) (2000)

H1 H2 H3 H4 H5

Semi-Final 1 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)

date 07-Mar-25 time 2.41 3.47 4.50 5.51 6.52

reaction time 0.129 interval 7 steps 1.06 1.03 1.01 1.01

velocity 5.69 8.62 8.87 9.05 9.05

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

European Athletics (2025) - european athletics indoor championships results book

7.56 6 / 4

1.04 3.10

9.35 7.94 8.85

Oliver, David (USA) (1982)

H1 H2 H3 H4 H5

Heat 2 - 2010 Samsung Galan (Göteborg, SWE)

date 02-Feb-10 time 2.45 3.52 4.53 5.54 6.58

reaction time interval 7 steps 1.07 1.01 1.01 1.04

velocity 5.60 8.54 9.05 9.05 8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Blomkvist (2010) - www.sub13.se

7.57 1 / 1

0.99 3.09

9.82 7.93 8.87

Manga, Aurel (FRA) (1992)

H1 H2 H3 H4 H5

FINAL - 2019 French National Indoor Championships (Miramas, FRA) (TV Analysis)

date 16-Feb-19 time 2.52 3.58 4.58 5.58 6.58

reaction time 0.155 interval 7 steps 1.06 1.00 1.00 1.00

velocity 5.44 8.62 9.14 9.14 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2020) - Athlete First: 2019 year end hurdle report

7.57 4 / 2

0.99 3.06

9.82 7.93 8.96

Eaton, Jarret (USA) (1989)

H1 H2 H3 H4 H5

FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

date 15-Feb-20 time 2.55 3.57 4.60 5.62 6.65

reaction time 0.155 interval 7 Steps 1.02 1.03 1.02 1.03

velocity 5.38 8.96 8.87 8.96 8.87

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2020)

7.57 4 / 2

0.92 3.07

10.57 7.93 8.93

Mallett, Aaron (USA) (1994)

H1 H2 H3 H4 H5

FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA)

date 09-Feb-21 time 2.54 3.57 4.60 5.60 6.62

reaction time 0.150 interval 1.03 1.03 1.00 1.02

velocity 5.40 8.87 8.87 9.14 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

7.57 7 / 4

0.95 3.06

10.23 7.93 8.96

Belocian, Wilhem (FRA) (1995)

H1 H2 H3 H4 H5

FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis)

date 17-Feb-21 time 2.54 3.56 4.58 5.60 6.61

reaction time 0.143 interval 1.02 1.02 1.02 1.01

velocity 5.40 8.96 8.96 8.96 9.05

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

7.57 3 / 2

0.96 3.06

10.13 7.93 8.96

Dal Molin, Paolo (ITA) (1987)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	24-Feb-21	time	2.37	3.43	4.47	5.50	6.54				7.57	5 / 3			
reaction time		interval	7 steps	1.06	1.04	1.03	1.04			1.03			3.13		
		velocity	5.79	8.62	8.79	8.87	8.79			9.44	7.93		8.76		
Zeng Jianhang (CHN) (1998)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)										<i>CAA Hurdle Development (2021)</i>					
date	18-Mar-21	time	2.54	3.59	4.63	5.65	6.67				7.57	4 / 1			
reaction time	0.161	interval		1.05	1.04	1.02	1.02			0.90			3.11		
		velocity	5.40	8.70	8.79	8.96	8.96			10.80	7.93		8.82		
Belocian, Wilhem (FRA) (1995)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	17-Feb-22	time	2.43	3.45	4.50	5.54	6.54				7.57	5 / 2			
reaction time	0.139	interval		1.02	1.05	1.04	1.00			1.03			3.11		
		velocity	5.65	8.96	8.70	8.79	9.14			9.44	7.93		8.82		
Nomoto, Syuusei (JPN) (1995)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.40	3.46	4.50	5.55	6.60				7.57	8 / 3			
reaction time	0.127	interval	7 steps	1.06	1.04	1.05	1.05			0.97	PB		3.15		
		velocity	5.72	8.62	8.79	8.70	8.70			10.02	7.93		8.70		
King, David (GBR) (1994)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.53	3.56	4.60	5.62	6.63				7.57	3 / 3			
reaction time	0.121	interval	7 steps	1.03	1.04	1.02	1.01			0.94	=PB		3.09		
		velocity	5.42	8.87	8.79	8.96	9.05			10.34	7.93		8.87		
Martinez, Asier (ESP) (2000)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.50	3.54	4.58	5.58	6.58				7.57	2 / 4			
reaction time	0.150	interval	7 steps	1.04	1.04	1.00	1.00			0.99			3.08		
		velocity	5.49	8.79	8.79	9.14	9.14			9.82	7.93		8.90		
Dickson, Michael (USA) (1997)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)										<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	04-Feb-24	time	2.56	3.60	4.60	5.62	6.67				7.57	2 / 5			
reaction time	0.194	interval	7 steps	1.04	1.00	1.02	1.05			0.90			3.06		
		velocity	5.36	8.79	9.14	8.96	8.70			10.80	7.93		8.96		
Dickson, Michael (USA) (1997)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)										<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	16-Feb-24	time	2.57	3.63	4.65	5.67	6.67				7.57	1 / 5			
reaction time	0.181	interval	7 steps	1.06	1.02	1.02	1.00			0.90			3.10		
		velocity	5.34	8.62	8.96	8.96	9.14			10.80	7.93		8.85		
Balnuweit, Erik (GER) (1988)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 European Indoor Championships (Göteborg, SWE)										<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>					
date	01-Mar-13	time	2.55	3.60	4.62	5.65	6.68				7.58	5 / 5			
reaction time	0.146	interval	7 steps	1.05	1.02	1.03	1.03			0.90	PB		3.10		
		velocity	5.38	8.70	8.96	8.87	8.87			10.80	7.92		8.85		
Svoboda, Petr (CZE) (1984)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)										<i>Kuitunen (2010) - biomenical analysis of the 14th IAAF World Indoor championships</i>					
date	14-Mar-10	time	2.57	3.63	4.62	5.65	6.70				7.58	5 / 5			
reaction time	0.134	interval		1.06	0.99	1.03	1.05			0.88			3.08		
		velocity	5.34	8.62	9.23	8.87	8.70			11.05	7.92		8.90		
Pozzi, Andy (GBR) (1992)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis)										<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	11-Mar-12	time	2.54	3.56	4.58	5.60	6.60				7.58	5 / 4			
reaction time	0.155	interval		1.02	1.02	1.02	1.00			0.98			3.06		
		velocity	5.40	8.96	8.96	8.96	9.14			9.92	7.92		8.96		
Lynsha, Maksim (BLR) (1985)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 European Indoor Championships (Göteborg, SWE)										<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>					
date	01-Mar-13	time	2.56	3.60	4.64	5.66	6.68				7.58	2 / 1			
reaction time	0.162	interval		1.04	1.04	1.02	1.02			0.90	PB		3.10		
		velocity	5.36	8.79	8.79	8.96	8.96			10.80	7.92		8.85		

Roberts, Daniel (USA) (1998)								H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)								Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record										
date	17-Feb-22	time	2.37	3.40	4.44	5.48	6.54							7.58	3 / 3			
reaction time	0.149	interval	7 steps	1.03	1.04	1.04	1.06						1.04				3.11	
		velocity	5.79	8.87	8.79	8.79	8.62						9.35	7.92			8.82	
Pereira, Rafael (BRA) (1997)								H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record										
date	20-Mar-22	time	2.50	3.53	4.56	5.60	6.63							7.58	3 / 4			
reaction time	0.141	interval		1.03	1.03	1.04	1.03						0.95	=NR =PB			3.10	
		velocity	5.49	8.87	8.87	8.79	8.87						10.23	7.92			8.85	
Obasuyi, Michael (BEL) (1999)								H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record										
date	20-Mar-22	time	2.56	3.60	4.63	5.63	6.66							7.58	5 / 4			
reaction time	0.130	interval	7 steps	1.04	1.03	1.00	1.03						0.92	PB			3.07	
		velocity	5.36	8.79	8.87	9.14	8.87						10.57	7.92			8.93	
Roberts, Daniel (USA) (1998)								H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)								Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record										
date	16-Feb-24	time	2.50	3.54	4.55	5.54	6.62							7.58	4 / 3			
reaction time	0.150	interval	7 steps	1.04	1.01	0.99	1.08						0.96				3.04	
		velocity	5.49	8.79	9.05	9.23	8.46						10.13	7.92			9.02	
Tinch, Cordell (USA) (2000)								H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)								Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record										
date	16-Feb-24	time	2.56	3.60	4.64	5.67	6.67							7.58	3 / 6			
reaction time	0.132	interval	7 steps	1.04	1.04	1.03	1.00						0.91				3.11	
		velocity	5.36	8.79	8.79	8.87	9.14						10.68	7.92			8.82	
Crittenden, Freddie (USA) (1994)								H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)								Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record										
date	16-Feb-24	time	2.60	3.64	4.65	5.67	6.71							7.58	7 / 7			
reaction time	0.158	interval		1.04	1.01	1.02	1.04						0.87				3.07	
		velocity	5.28	8.79	9.05	8.96	8.79						11.17	7.92			8.93	
Semi-Final 2 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)								European Athletics (2025) - european athletics indoor championships results book										
date	07-Mar-25	time	2.41	3.48	4.50	5.52	6.53							7.58	1 / 4			
reaction time	0.154	interval	7 steps	1.07	1.02	1.02	1.01						1.05				3.11	
		velocity	5.69	8.54	8.96	8.96	9.05						9.26	7.92			8.82	
Czykier, Damian (POL) (1992)								H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)								Henson (2021) - men's 60m hurdles world record season - Grant Holloway										
date	09-Feb-21	time	2.55	3.58	4.60	5.60	6.62							7.59	3 / 5			
reaction time	0.161	interval	7 steps	1.03	1.02	1.00	1.02						0.97				3.05	
		velocity	5.38	8.87	8.96	9.14	8.96						10.02	7.91			8.99	
Pozzi, Andy (GBR) (1992)								H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)								Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record										
date	19-Feb-22	time	2.47	3.53	4.55	5.56	6.57							7.59	4 / 2			
reaction time	0.141	interval	7 steps	1.06	1.02	1.01	1.01						1.02				3.09	
		velocity	5.55	8.62	8.96	9.05	9.05						9.53	7.91			8.87	
Svoboda, Petr (CZE) (1984)								H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record										
date	20-Mar-22	time	2.53	3.58	4.60	5.62	6.66							7.59	4 / 1			
reaction time	0.132	interval		1.05	1.02	1.02	1.04						0.93				3.09	
		velocity	5.42	8.70	8.96	8.96	8.79						10.45	7.91			8.87	
Al-Yoha, Yaqoub (KUW) (1993)								H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record										
date	20-Mar-22	time	2.50	3.53	4.56	5.56	6.60							7.59	6 / 5			
reaction time	0.156	interval		1.03	1.03	1.00	1.04						0.99				3.06	
		velocity	5.49	8.87	8.87	9.14	8.79						9.82	7.91			8.96	
Szymański, Jakub (POL) (2002)								H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record										
date	20-Mar-22	time	2.53	3.56	4.58	5.60	6.60							7.59	7 / 5			
reaction time	0.146	interval	7 steps	1.03	1.02	1.02	1.00						0.99	PB			3.07	
		velocity	5.42	8.87	8.96	8.96	9.14						9.82	7.91			8.93	
Crittenden, Freddie (USA) (1994)								H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)								Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record										

date	16-Feb-24	time	2.57	3.61	4.64	5.65	6.69
reaction time	0.149	interval		1.04	1.03	1.01	1.04
		velocity	5.34	8.79	8.87	9.05	8.79

	7.59	3 / 4	
	0.90		3.08
	10.80	7.91	8.90

Trajkovic, Milan (CYP) (1992)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) <i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>											
date	02-Mar-24	time	2.60	3.65	4.68	5.70	6.72		7.59	4 / 8	
reaction time	0.163	interval	7 steps	1.05	1.03	1.02	1.02		0.87		3.10
		velocity	5.28	8.70	8.87	8.96	8.96		11.17	7.91	8.85

Xu Zhuoyi (CHN) (2003)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 5 - 2025 Chinese National Grand Prix (Nanjing, CHN) <i>Hubei Athletics Sport Science (2025)</i>											
date	23-Feb-25	time	2.63	3.68	4.69	5.71	6.72		7.59	/ 3	
reaction time	0.156	interval	7 steps	1.05	1.01	1.02	1.01		0.87	=PB	3.08
		velocity	5.22	8.70	9.05	8.96	9.05		11.17	7.91	8.90

Wignall, Maurice (JAM) (1976)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT) <i>Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships</i>											
date	14-Mar-10	time	2.60	3.66	4.68	5.70	6.75		7.60	1 / 6	
reaction time	0.135	interval		1.06	1.02	1.02	1.05		0.85		3.10
		velocity	5.28	8.62	8.96	8.96	8.70		11.44	7.89	8.85

Shabanov, Konstantin (RUS) (1989)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis) <i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>											
date	11-Mar-12	time	2.58	3.60	4.62	5.64	6.66		7.60	2 / 5	
reaction time	0.202	interval		1.02	1.02	1.02	1.02		0.94		3.06
		velocity	5.32	8.96	8.96	8.96	8.96		10.34	7.89	8.96

Dal Molin, Paolo (ITA) (1987)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Italian National Indoor Championships (Ancona, ITA) <i>FIDAL - Centro Studi & Ricerche (2014) - www.youtube.com/watch?v=bF4QEqg7shU</i>											
date	22-Feb-14	time	2.56	3.63	4.68	5.69	6.72		7.60	3 / 1	
reaction time		interval		1.07	1.05	1.01	1.03		0.88		3.13
		velocity	5.36	8.54	8.70	9.05	8.87		11.05	7.89	8.76

Crittenden, Freddie (USA) (1994)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 PSD Bank Meeting (Düsseldorf, GER) (TV Analysis) <i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>											
date	20-Feb-19	time	2.42	3.44	4.48	5.52	6.54		7.60	5 / 3	
reaction time	0.156	interval		1.02	1.04	1.04	1.02		1.06		3.10
		velocity	5.67	8.96	8.79	8.79	8.96		9.17	7.89	8.85

Eaton, Jarret (USA) (1989)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis) <i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>											
date	09-Feb-21	time	2.50	3.52	4.55	5.59	6.62		7.60	6 / 6	
reaction time	0.140	interval	7 steps	1.02	1.03	1.04	1.03		0.98		3.09
		velocity	5.49	8.96	8.87	8.79	8.87		9.92	7.89	8.87

Mallett, Aaron (USA) (1994)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis) <i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>											
date	17-Feb-21	time	2.54	3.58	4.63	5.67	6.67		7.60	6 / 3	
reaction time	0.170	interval		1.04	1.05	1.04	1.00		0.93		3.13
		velocity	5.40	8.79	8.70	8.79	9.14		10.45	7.89	8.76

Martinez, Asier (ESP) (2000)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis) <i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>											
date	07-Mar-21	time	2.50	3.54	4.56	5.58	6.62		7.60	8 / 4	
reaction time	0.150	interval	7 steps	1.04	1.02	1.02	1.04		0.98	PB	3.08
		velocity	5.49	8.79	8.96	8.96	8.79		9.92	7.89	8.90

Roberts, Daniel (USA) (1998)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis) <i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>											
date	06-Feb-22	time	2.47	3.54	4.60	5.61	6.65		7.60	6 / 4	
reaction time	0.175	interval	7 steps	1.07	1.06	1.01	1.04		0.95		3.14
		velocity	5.55	8.54	8.62	9.05	8.79		10.23	7.89	8.73

Eaton, Jarret (USA) (1989)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis) <i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>											
date	19-Feb-22	time	2.46	3.49	4.51	5.52	6.53		7.60	6 / 3	
reaction time	0.154	interval	7 steps	1.03	1.02	1.01	1.01		1.07		3.06
		velocity	5.58	8.87	8.96	9.05	9.05		9.08	7.89	8.96

Pereira, Rafael (BRA) (1997)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis) <i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>											
date	20-Mar-22	time	2.49	3.53	4.56	5.58	6.65		7.60	5 / 1	

reaction time	0.130	interval	1.04	1.03	1.02	1.07	0.95	3.09
velocity	5.51	8.79	8.87	8.96	8.54	10.23	7.89	8.87

Pozzi, Andy (GBR) (1992)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)											
date	20-Mar-22	time	2.56	3.64	4.65	5.65	6.67				
reaction time	0.132	interval	7 steps	1.08	1.01	1.00	1.02				
velocity	5.36	8.46	9.05	9.14	8.96	10.45	7.89	4 / 2			

Pozzi, Andy (GBR) (1992)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)											
date	20-Mar-22	time	2.48	3.52	4.56	5.56	6.58				
reaction time	0.122	interval	7 steps	1.04	1.04	1.00	1.02				
velocity	5.53	8.79	8.79	9.14	8.96	9.53	7.89	3 / 4			

Douglas, Chris (AUS) (1997)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)											
date	20-Mar-22	time	2.46	3.50	4.54	5.56	6.56				
reaction time	0.159	interval	7 steps	1.04	1.04	1.02	1.00				
velocity	5.58	8.79	8.79	8.96	9.14	9.35	7.89	8 / 5			

Simonelli, Lorenzo Ndele (ITA) (2002)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)											
date	07-Mar-25	time	2.38	3.45	4.49	5.52	6.54				
reaction time	0.139	interval	7 steps	1.07	1.04	1.03	1.02				
velocity	5.76	8.54	8.79	8.87	8.96	9.17	7.89	1 / 5			

Pedre, Theo (FRA) (2005)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)											
date	07-Mar-25	time	2.43	3.50	4.52	5.53	6.55				
reaction time	0.133	interval	7 steps	1.07	1.02	1.01	1.02				
velocity	5.65	8.54	8.96	9.05	8.96	9.26	7.89	4 / 5			

Mallett, Aaron (USA) (1994)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)											
date	09-Feb-21	time	2.46	3.51	4.53	5.53	6.56				
reaction time	0.152	interval		1.05	1.02	1.00	1.03				
velocity	5.58	8.70	8.96	9.14	8.87	9.26	7.88	3 / 3			

Martinez, Asier (ESP) (2000)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)											
date	24-Feb-21	time	2.52	3.56	4.57	5.58	6.60				
reaction time	0.131	interval	7 steps	1.04	1.01	1.01	1.02				
velocity	5.44	8.79	9.05	9.05	8.96	9.62	7.88	4 / 2			

Martinez, Asier (ESP) (2000)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)											
date	24-Feb-21	time	2.48	3.54	4.56	5.58	6.59				
reaction time		interval	7 steps	1.06	1.02	1.02	1.01				
velocity	5.53	8.62	8.96	8.96	9.05	9.53	7.88	4 / 4			

Czykier, Damian (POL) (1992)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)											
date	20-Mar-22	time	2.50	3.54	4.58	5.60	6.64				
reaction time	0.157	interval	7 steps	1.04	1.04	1.02	1.04				
velocity	5.49	8.79	8.79	8.96	8.79	10.02	7.88	5 / 5			

Bacari, Elie (BEL) (2003)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)											
date	10-Feb-24	time	2.46	3.50	4.56	5.58	6.60				
reaction time	0.138	interval	7 steps	1.04	1.06	1.02	1.02				
velocity	5.58	8.79	8.62	8.96	8.96	9.62	7.88	7 / 3			

Obasuyi, Michael (BEL) (1999)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)											
date	10-Feb-24	time	2.50	3.52	4.52	5.56	6.58				
reaction time	0.159	interval	7 steps	1.02	1.00	1.04	1.02				
velocity	5.49	8.96	9.14	8.79	8.96	9.44	7.88	1 / 5			

Geerds, Job (NED) (2002)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2025 European Athletics Indoor Championships (Apeldoorn, NED)											
date	07-Mar-25	time	2.43	3.49	4.52	5.53	6.54				
reaction time	0.171	interval	7 steps	1.06	1.03	1.01	1.01				

velocity 5.65 8.62 8.87 9.05 9.05

9.08 7.88 8.85

Constantino, Gabriel (BRA) (1995) H1 H2 H3 H4 H5
FINAL - 2019 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)
 date 16-Feb-19 time 2.54 3.54 4.58 5.62 6.66
 reaction time 0.136 interval 7 steps 1.00 1.04 1.04 1.04
 velocity 5.40 9.14 8.79 8.79 8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2020) - Athlete First: 2019 year end hurdle report
 7.62 5 / 4
 0.96 3.08
 10.13 7.87 8.90

Zeng Jianhang (CHN) (1998) H1 H2 H3 H4 H5
A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)
 date 20-Mar-19 time 2.55 3.62 4.68 5.69 6.74
 reaction time interval 1.07 1.06 1.01 1.05
 velocity 5.38 8.54 8.62 9.05 8.70

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
CAA Hurdle Development (2019)
 7.62 3 / 1
 0.88 PB 3.14
 11.05 7.87 8.73

Llopis, Enrique (ESP) (2000) H1 H2 H3 H4 H5
FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)
 date 17-Feb-22 time 2.55 3.58 4.58 5.60 6.60
 reaction time 0.163 interval 7 steps 1.03 1.02 1.00 1.00
 velocity 5.38 8.87 8.96 9.14 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record
 7.62 2 / 4
 1.02 3.05
 9.53 7.87 8.99

Pozzi, Andy (GBR) (1992) H1 H2 H3 H4 H5
FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)
 date 17-Feb-22 time 2.55 3.58 4.58 5.60 6.62
 reaction time 0.163 interval 7 steps 1.03 1.00 1.02 1.02
 velocity 5.38 8.87 9.14 8.96 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record
 7.62 1 / 5
 1.00 3.05
 9.72 7.87 8.99

Szymański, Jakub (POL) (2002) H1 H2 H3 H4 H5
FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)
 date 19-Feb-22 time 2.46 3.50 4.52 5.55 6.57
 reaction time 0.165 interval 7 steps 1.04 1.02 1.03 1.02
 velocity 5.58 8.79 8.96 8.87 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record
 7.62 8 / 4
 1.05 3.09
 9.26 7.87 8.87

King, David (GBR) (1994) H1 H2 H3 H4 H5
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)
 date 20-Mar-22 time 2.48 3.54 4.58 5.60 6.60
 reaction time 0.142 interval 7 steps 1.06 1.04 1.02 1.00
 velocity 5.53 8.62 8.79 8.96 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record
 7.62 1 / 6
 1.02 3.12
 9.53 7.87 8.79

Trajkovic, Milan (CYP) (1992) H1 H2 H3 H4 H5
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)
 date 20-Mar-22 time 2.52 3.58 4.62 5.62 6.62
 reaction time 0.207 interval 7 steps 1.06 1.04 1.00 1.00
 velocity 5.44 8.62 8.79 9.14 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record
 7.62 7 / 7
 1.00 3.10
 9.72 7.87 8.85

Llopis, Enrique (ESP) (2000) H1 H2 H3 H4 H5
FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)
 date 10-Feb-24 time 2.50 3.55 4.58 5.57 6.58
 reaction time 0.148 interval 7 steps 1.05 1.03 0.99 1.01
 velocity 5.49 8.70 8.87 9.23 9.05

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record
 7.62 2 / 6
 1.04 =NR 3.07
 9.35 7.87 8.93

Chen Yuanjiang (CHN) (2006) H1 H2 H3 H4 H5
Race 5 - 2025 Chinese National Grand Prix (Nanjing, CHN)
 date 23-Feb-25 time 2.64 3.70 4.74 5.74 6.76
 reaction time 0.152 interval 7 steps 1.06 1.04 1.00 1.02
 velocity 5.20 8.62 8.79 9.14 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Hubei Athletics Sport Science (2025)
 7.62 / 4
 0.86 PB 3.10
 11.30 7.87 8.85

Kiljan, Krzysztof (POL) (1999) H1 H2 H3 H4 H5
Semi-Final 1 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)
 date 07-Mar-25 time 2.40 3.46 4.50 5.52 6.55
 reaction time 0.146 interval 7 steps 1.06 1.04 1.02 1.03
 velocity 5.72 8.62 8.79 8.96 8.87

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
European Athletics (2025) - european athletics indoor championships results book
 7.62 7 / 6
 1.07 3.12
 9.08 7.87 8.79

Abate, Emanuele (ITA) (1985) H1 H2 H3 H4 H5
FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis)
 date 11-Mar-12 time 2.60 3.62 4.64 5.66 6.68
 reaction time 0.155 interval 7 steps 1.02 1.02 1.02 1.02
 velocity 5.28 8.96 8.96 8.96 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2020) - Athlete First: 2012 Aries Merritt world record season
 7.63 7 / 6
 0.95 3.06
 10.23 7.86 8.96

Belocian, Wilhem (FRA) (1995) H1 H2 H3 H4 H5
FINAL - 2019 French National Indoor Championships (Miramas, FRA) (TV Analysis)
 date 16-Feb-19 time 2.56 3.58 4.62 5.64 6.66
 reaction time 0.147 interval 1.02 1.04 1.02 1.02
 velocity 5.36 8.96 8.79 8.96 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2020) - Athlete First: 2019 year end hurdle report
 7.63 3 / 3
 0.97 3.08
 10.02 7.86 8.90

Mallett, Aaron (USA) (1994)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)										<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	16-Feb-19	time	2.54	3.58	4.65	5.65	6.68				7.63	7 / 5			
reaction time	0.152	interval	7 steps	1.04	1.07	1.00	1.03			0.95			3.11		
		velocity	5.40	8.79	8.54	9.14	8.87			10.23	7.86		8.82		
Eaton, Jarret (USA) (1989)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)										<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.58	3.62	4.63	5.65	6.70				7.63	4 / 1			
reaction time	0.148	interval	7 steps	1.04	1.01	1.02	1.05			0.93			3.07		
		velocity	5.32	8.79	9.05	8.96	8.70			10.45	7.86		8.93		
Czykier, Damian (POL) (1992)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	09-Feb-21	time	2.45	3.50	4.53	5.53	6.53				7.63	6 / 2			
reaction time	0.155	interval	7 steps	1.05	1.03	1.00	1.00			1.10			3.08		
		velocity	5.60	8.70	8.87	9.14	9.14			8.84	7.86		8.90		
Czykier, Damian (POL) (1992)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	17-Feb-21	time	2.54	3.59	4.60	5.60	6.67				7.63	7 / 4			
reaction time	0.149	interval	7 steps	1.05	1.01	1.00	1.07			0.96			3.06		
		velocity	5.40	8.70	9.05	9.14	8.54			10.13	7.86		8.96		
Manga, Aurel (FRA) (1992)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)										<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	07-Mar-21	time	2.42	3.48	4.50	5.52	6.58				7.63	3 / 5			
reaction time	0.152	interval	7 steps	1.06	1.02	1.02	1.06			1.05			3.10		
		velocity	5.67	8.62	8.96	8.96	8.62			9.26	7.86		8.85		
Czykier, Damian (POL) (1992)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)										<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	07-Mar-21	time	2.46	3.48	4.48	5.46	6.60				7.63	4 / 6			
reaction time	0.148	interval	7 steps	1.02	1.00	0.98	1.14			1.03			3.00		
		velocity	5.58	8.96	9.14	9.33	8.02			9.44	7.86		9.14		
Zaza, Wellington (LBR) (1995)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	17-Feb-22	time	2.45	3.52	4.55	5.57	6.63				7.63	8 / 6			
reaction time	0.149	interval		1.07	1.03	1.02	1.06			1.00			3.12		
		velocity	5.60	8.54	8.87	8.96	8.62			9.72	7.86		8.79		
King, David (GBR) (1994)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	19-Feb-22	time	2.46	3.53	4.55	5.57	6.60				7.63	7 / 5			
reaction time	0.132	interval	7 steps	1.07	1.02	1.02	1.03			1.03	=PB		3.11		
		velocity	5.58	8.54	8.96	8.96	8.87			9.44	7.86		8.82		
Qin Weibo (CHN) (2002)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 5 - 2025 Chinese National Grand Prix (Nanjing, CHN)										<i>Hubei Athletics Sport Science (2025)</i>					
date	23-Feb-25	time	2.64	3.71	4.73	5.73	6.75				7.63	1 / 5			
reaction time	0.174	interval	7 steps	1.07	1.02	1.00	1.02			0.88	=PB		3.09		
		velocity	5.20	8.54	8.96	9.14	8.96			11.05	7.86		8.87		
Obasuyi, Michael (BEL) (1999)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2025 European Athletics Indoor Championships (Apeldoorn, NED)										<i>European Athletics (2025) - european athletics indoor championships results book</i>					
date	07-Mar-25	time	2.48	3.54	4.57	5.58	6.60				7.63	7 / 6			
reaction time	0.142	interval	7 steps	1.06	1.03	1.01	1.02			1.03			3.10		
		velocity	5.53	8.62	8.87	9.05	8.96			9.44	7.86		8.85		
Douvalidis, Konstadinos (GRE) (198										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 European Indoor Championships (Göteborg, SWE)										<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>					
date	01-Mar-13	time	2.62	3.68	4.72	5.76	6.78				7.64	1 / 7			
reaction time	0.153	interval		1.06	1.04	1.04	1.02			0.86			3.14		
		velocity	5.24	8.62	8.79	8.79	8.96			11.30	7.85		8.73		
Ortega, Orlando (ESP) (1991)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 European Indoor Championships (Beograd, SRB)										<i>(2017.03.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	03-Mar-17	time	2.63	3.67	4.71	5.69	6.75				7.64	7 / 7			
reaction time		interval	7 steps	1.04	1.04	0.98	1.06			0.89			3.06		
		velocity	5.22	8.79	8.79	9.33	8.62			10.92	7.85		8.96		

Cunningham, Trey (USA) (1998)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 NCAA National Indoor Championships (Birmingham, AL) (TV Analysis)										<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	9-Mar-19	time	2.56	3.61	4.64	5.71	6.73				7.64	5 / 3			
reaction time	0.179	interval	7 steps	1.05	1.03	1.07	1.02		0.91				3.15		
		velocity	5.36	8.70	8.87	8.54	8.96		10.68	7.85			8.70		
Roberts, Daniel (USA) (1998)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Millrose Games (New York, NY) (TV Analysis)										<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	08-Feb-20	time	2.47	3.54	4.57	5.61	6.67				7.64	5 / 1			
reaction time	0.194	interval	7 steps	1.07	1.03	1.04	1.06		0.97				3.14		
		velocity	5.55	8.54	8.87	8.79	8.62		10.02	7.85			8.73		
Dickson, Michael (USA) (1997)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	17-Feb-22	time	2.46	3.55	4.58	5.60	6.63				7.64	6 / 4			
reaction time	0.183	interval	7 steps	1.09	1.03	1.02	1.03		1.01				3.14		
		velocity	5.58	8.39	8.87	8.96	8.87		9.62	7.85			8.73		
Caristan, Stéphane (FRA) (1964)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)										<i>Aubert (1986) - indoor - video - haies, etude des performances</i>					
date	26-Jan-86	time	2.63	3.68	4.72	5.73	6.76				7.65	1 / 1			
reaction time		interval		1.05	1.04	1.01	1.03		0.89				3.10		
		velocity	5.22	8.70	8.79	9.05	8.87		10.92	7.84			8.85		
Liu Xiang (CHN) (1983)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)										<i>Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships</i>					
date	14-Mar-10	time	2.61	3.67	4.70	5.73	6.77				7.65	7 / 7			
reaction time	0.151	interval		1.06	1.03	1.03	1.04		0.88				3.12		
		velocity	5.26	8.62	8.87	8.87	8.79		11.05	7.84			8.79		
Mallett, Aaron (USA) (1994)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)										<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.57	3.62	4.67	5.68	6.72				7.65	5 / 2			
reaction time	0.149	interval		1.05	1.05	1.01	1.04		0.93				3.11		
		velocity	5.34	8.70	8.70	9.05	8.79		10.45	7.84			8.82		
Ames, Brendan (USA) (1988)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)										<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.58	3.65	4.69	5.70	6.75				7.65	3 / 1			
reaction time	0.174	interval	7 Steps	1.07	1.04	1.01	1.05		0.90				3.12		
		velocity	5.32	8.54	8.79	9.05	8.70		10.80	7.84			8.79		
Ames, Brendan (USA) (1988)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)										<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.58	3.63	4.67	5.72	6.74				7.65	5 / 3			
reaction time	0.145	interval	7 Steps	1.05	1.04	1.05	1.02		0.91				3.14		
		velocity	5.32	8.70	8.79	8.70	8.96		10.68	7.84			8.73		
Zallow, Chad (USA) (1997)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)										<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.53	3.59	4.65	5.70	6.75				7.65	2 / 4			
reaction time	0.151	interval		1.06	1.06	1.05	1.05		0.90				3.17		
		velocity	5.42	8.62	8.62	8.70	8.70		10.80	7.84			8.65		
Walters, Ruebin (TTO) (1995)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	24-Jan-21	time	2.55	3.63	4.68	5.70	6.72				7.65	5 / 3			
reaction time	0.142	interval		1.08	1.05	1.02	1.02		0.93				3.15		
		velocity	5.38	8.46	8.70	8.96	8.96		10.45	7.84			8.70		
Dal Molin, Paolo (ITA) (1987)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	09-Feb-21	time	2.40	3.48	4.53	5.55	6.58				7.65	7 / 4			
reaction time	0.134	interval	7 steps	1.08	1.05	1.02	1.03		1.07				3.15		
		velocity	5.72	8.46	8.70	8.96	8.87		9.08	7.84			8.70		
Constantino, Gabriel (BRA) (1995)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	14-Feb-21	time	2.50	3.56	4.60	5.62	6.66				7.65	4 / 2			
reaction time	0.166	interval	7 steps	1.06	1.04	1.02	1.04		0.99				3.12		
		velocity	5.49	8.62	8.79	8.96	8.79		9.82	7.84			8.79		
Obasuyi, Michael (BEL) (1999)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)

date	17-Feb-22	time	2.48	3.57	4.60	5.62	6.60
reaction time	0.150	interval	7 steps	1.09	1.03	1.02	0.98
		velocity	5.53	8.39	8.87	8.96	9.33

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

	7.65	2 / 5
	1.05	3.14
	9.26	7.84
		8.73

Al-Yoha, Yaqoub (KUW) (1993)**FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)**

date	19-Feb-22	time	2.49	3.53	4.58	5.61	6.65
reaction time	0.146	interval		1.04	1.05	1.03	1.04
		velocity	5.51	8.79	8.70	8.87	8.79

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.65	5 / 6			
	1.00				3.12
	9.72				7.84
					8.79

King, David (GBR) (1994)**Heat 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)**

date	20-Mar-22	time	2.53	3.60	4.63	5.65	6.68
reaction time	0.118	interval	7 steps	1.07	1.03	1.02	1.03
		velocity	5.42	8.54	8.87	8.96	8.87

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.65	3 / 1			
	0.97				3.12
	10.02				7.84
					8.79

Fofana, Hassane (ITA) (1992)**Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)**

date	20-Mar-22	time	2.48	3.54	4.58	5.60	6.64
reaction time	0.122	interval		1.06	1.04	1.02	1.04
		velocity	5.53	8.62	8.79	8.96	8.79

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.65	1 / 6			
	1.01				3.12
	9.62				7.84
					8.79

Czykier, Damian (POL) (1992)**Heat 2 - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)**

date	10-Feb-24	time	2.60	3.64	4.68	5.70	6.72
reaction time	0.168	interval	7 steps	1.04	1.04	1.02	1.02
		velocity	5.28	8.79	8.79	8.96	8.96

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.65	2 / 4			
	0.93				3.10
	10.45				7.84
					8.85

Geerds, Job (NED) (2002)**FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)**

date	10-Feb-24	time	2.48	3.52	4.58	5.60	6.58
reaction time	0.185	interval	7 steps	1.04	1.06	1.02	0.98
		velocity	5.53	8.79	8.62	8.96	9.33

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.65	8 / 7			
	1.07				3.12
	9.08				7.84
					8.79

Kiss, Dániel (HUN) (1982)**FINAL - 2010 GE Galan (Stockholm, SWE)**

date	10-Feb-10	time	2.50	3.53	4.56	5.58	6.60
reaction time		interval		1.03	1.03	1.02	1.02
		velocity	5.49	8.87	8.87	8.96	8.96

Blomkvist (2010) - www.sub13.se

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.66	1 / 2			
	1.06				3.08
	9.17				7.83
					8.90

Thomas, Dwight (JAM) (1980)**FINAL - 2010 GE Galan (Stockholm, SWE)**

date	10-Feb-10	time	2.42	3.48	4.51	5.55	6.58
reaction time		interval		1.06	1.03	1.04	1.03
		velocity	5.67	8.62	8.87	8.79	8.87

Blomkvist (2010) - www.sub13.se

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.66	1 / 3			
	1.08				3.13
	9.00				7.83
					8.76

Traber, Gregor (GER) (1992)**FINAL - 2011 German National Indoor Junior Championships (Leverkusen, GER) (99cm)**

date	19-Feb-11	time	2.60	3.66	4.70	5.73	6.76
reaction time		interval	7 steps	1.06	1.04	1.03	1.03
		velocity	5.28	8.62	8.79	8.87	8.87

May (2011) - zwei jugendliche hürdensprinter im vergleich

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.66	4 / 1			
	0.90				3.13
	10.80				7.83
					8.76

Shabanov, Konstantin (RUS) (1989)**FINAL - 2013 European Indoor Championships (Göteborg, SWE)**

date	01-Mar-13	time	2.59	3.64	4.67	5.71	6.77
reaction time	0.137	interval		1.05	1.03	1.04	1.06
		velocity	5.30	8.70	8.87	8.79	8.62

Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.66	7 / 8			
	0.89				3.12
	10.92				7.83
					8.79

Mallett, Aaron (USA) (1994)**FINAL - 2019 PSD Bank Meeting (Düsseldorf, GER) (TV Analysis)**

date	20-Feb-19	time	2.40	3.46	4.50	5.52	6.56
reaction time	0.166	interval	7 steps	1.06	1.04	1.02	1.04
		velocity	5.72	8.62	8.79	8.96	8.79

Henson (2020) - Athlete First: 2019 year end hurdle report

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.66	6 / 4			
	1.10				3.12
	8.84				7.83
					8.79

Mallett, Aaron (USA) (1994)**FINAL - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)**

date	14-Feb-21	time	2.50	3.58	4.62	5.64	6.66
reaction time	0.137	interval		1.08	1.04	1.02	1.02
		velocity	5.49	8.46	8.79	8.96	8.96

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.66	3 / 3			
	1.00				3.14
	9.72				7.83
					8.73

Eaton, Jarret (USA) (1989)**Heat 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)**

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

date	20-Mar-22	time	2.56	3.63	4.63	5.65	6.66
reaction time	0.128	interval	7 steps	1.07	1.00	1.02	1.01
		velocity	5.36	8.54	9.14	8.96	9.05

	7.66	8 / 2	
	1.00		3.09
	9.72	7.83	8.87

Campbell, Lafranz (JAM) (1997)

FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)							
date	04-Feb-24	time	2.54	3.60	4.62	5.68	6.72
reaction time	0.130	interval	7 steps	1.06	1.02	1.06	1.04
		velocity	5.40	8.62	8.96	8.62	8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record							
	7.66	1 / 6					
	0.94						3.14
	10.34	7.83					8.73

Pozzi, Andy (GBR) (1992)

FINAL - 2019 PSD Bank Meeting (Düsseldorf, GER) (TV Analysis)							
date	20-Feb-19	time	2.43	3.46	4.52	5.52	6.56
reaction time	0.106	interval	7 steps	1.03	1.06	1.00	1.04
		velocity	5.65	8.87	8.62	9.14	8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2020) - Athlete First: 2019 year end hurdle report							
	7.67	3 / 5					
	1.11						3.09
	8.76	7.82					8.87

Balnuweit, Erik (GER) (1988)

FINAL - 2019 PSD Bank Meeting (Düsseldorf, GER) (TV Analysis)							
date	20-Feb-19	time	2.42	3.46	4.52	5.52	6.56
reaction time	0.148	interval		1.04	1.06	1.00	1.04
		velocity	5.67	8.79	8.62	9.14	8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2020) - Athlete First: 2019 year end hurdle report							
	7.67	1 / 6					
	1.11						3.10
	8.76	7.82					8.85

Zallow, Chad (USA) (1997)

Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)							
date	14-Feb-20	time	2.57	3.62	4.67	5.72	6.81
reaction time	0.168	interval		1.05	1.05	1.05	1.09
		velocity	5.34	8.70	8.70	8.70	8.39

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2020)							
	7.67	8 / 1					
	0.86						3.15
	11.30	7.82					8.70

Harris, Aleec (USA) (1990)

FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)							
date	15-Feb-20	time	2.60	3.63	4.70	5.71	6.75
reaction time	0.128	interval		1.03	1.07	1.01	1.04
		velocity	5.28	8.87	8.54	9.05	8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2020)							
	7.67	7 / 5					
	0.92						3.11
	10.57	7.82					8.82

Obasuyi, Michael (BEL) (1999)

Heat 2 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)							
date	09-Feb-21	time	2.45	3.50	4.53	5.56	6.60
reaction time	0.152	interval	7 steps	1.05	1.03	1.03	1.04
		velocity	5.60	8.70	8.87	8.87	8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - men's 60m hurdles world record season - Grant Holloway							
	7.67	7 / 3					
	1.07	PB					3.11
	9.08	7.82					8.82

Obasuyi, Michael (BEL) (1999)

FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)							
date	09-Feb-21	time	2.57	3.60	4.62	5.62	6.64
reaction time	0.158	interval	7 steps	1.03	1.02	1.00	1.02
		velocity	5.34	8.87	8.96	9.14	8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - men's 60m hurdles world record season - Grant Holloway							
	7.67	8 / 7					
	1.03	=PB					3.05
	9.44	7.82					8.99

Roberts, Daniel (USA) (1998)

FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)							
date	17-Feb-22	time	2.43	3.46	4.53	5.55	6.60
reaction time	0.172	interval	7 steps	1.03	1.07	1.02	1.05
		velocity	5.65	8.87	8.54	8.96	8.70

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record							
	7.67	7 / 7					
	1.07						3.12
	9.08	7.82					8.79

Traber, Gregor (GER) (1992)

Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)							
date	20-Mar-22	time	2.54	3.58	4.62	5.66	6.70
reaction time	0.140	interval	7 steps	1.04	1.04	1.04	1.04
		velocity	5.40	8.79	8.79	8.79	8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record							
	7.67	8 / 7					
	0.97						3.12
	10.02	7.82					8.79

Chen Kuei-Ru (TPE) (1993)

Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)							
date	20-Mar-22	time	2.50	3.58	4.62	5.64	6.66
reaction time	0.168	interval	7 steps	1.08	1.04	1.02	1.02
		velocity	5.49	8.46	8.79	8.96	8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record							
	7.67	7 / 8					
	1.01	NR PB					3.14
	9.62	7.82					8.73

Mallett, Aaron (USA) (1994)

Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)							
date	20-Mar-22	time	2.53	3.60	4.63	5.66	6.70
reaction time	0.152	interval	7 steps	1.07	1.03	1.03	1.04
		velocity	5.42	8.54	8.87	8.87	8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record							
	7.67	6 / 6					
	0.97						3.13
	10.02	7.82					8.76

Belocian, Wilhem (FRA) (1995)

FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)							
date	20-Mar-22	time	2.50	3.54	4.58	5.62	6.66

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record							
	7.67	3 / 8					

reaction time 0.177 interval 1.04 1.04 1.04 1.04
velocity 5.49 8.79 8.79 8.79 8.79

1.01 3.12
9.62 7.82 8.79

Korbmacher, Andre (USA) (2005)

H1 H2 H3 H4 H5

FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)

date 04-Feb-24 time 2.54 3.58 4.62 5.68 6.72

reaction time 0.148 interval 1.04 1.04 1.06 1.04

velocity 5.40 8.79 8.79 8.62 8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record

7.67 8 / 7

0.95 PB 3.14

10.23 7.82 8.73

Nossmys, Philip (SWE) (1982)

H1 H2 H3 H4 H5

FINAL - 2010 GE Galan (Stockholm, SWE)

date 10-Feb-10 time 2.45 3.51 4.56 5.58 6.60

reaction time interval 1.06 1.05 1.02 1.02

velocity 5.60 8.62 8.70 8.96 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

7.68 1 / 4

1.08 3.13

9.00 7.81 8.76

Martinot Lagarde, Pascal (FRA) (199)

H1 H2 H3 H4 H5

FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)

date 04-Mar-18 time 2.55 3.61 4.70 5.74 6.77

reaction time 0.154 interval 7 steps 1.06 1.09 1.04 1.03

velocity 5.38 8.62 8.39 8.79 8.87

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men

7.68 3 / 5

0.91 3.19

10.68 7.81 8.60

King, David (GBR) (1994)

H1 H2 H3 H4 H5

FINAL - 2019 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)

date 16-Feb-19 time 2.54 3.58 4.65 5.68 6.72

reaction time 0.130 interval 7 steps 1.04 1.07 1.03 1.04

velocity 5.40 8.79 8.54 8.87 8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2020) - Athlete First: 2019 year end hurdle report

7.68 3 / 6

0.96 3.14

10.13 7.81 8.73

Dickson, Michael (USA) (1997)

H1 H2 H3 H4 H5

Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

date 14-Feb-20 time 2.60 3.67 4.72 5.75 6.79

reaction time 0.159 interval 1.07 1.05 1.03 1.04

velocity 5.28 8.54 8.70 8.87 8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

7.68 3 / 2

0.89 3.15

10.92 7.81 8.70

Mayer, Kevin (FRA) (1992)

H1 H2 H3 H4 H5

Heat 1 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)

date 09-Feb-21 time 2.46 3.51 4.53 5.56 6.60

reaction time 0.174 interval 7 steps 1.05 1.02 1.03 1.04

velocity 5.58 8.70 8.96 8.87 8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

7.68 6 / 5

1.08 PB 3.10

9.00 7.81 8.85

Constantino, Gabriel (BRA) (1995)

H1 H2 H3 H4 H5

Heat 1 - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)

date 14-Feb-21 time 2.54 3.58 4.62 5.66 6.68

reaction time 0.185 interval 7 steps 1.04 1.04 1.04 1.02

velocity 5.40 8.79 8.79 8.79 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

7.68 5 / 2

1.00 3.12

9.72 7.81 8.79

Mallett, Aaron (USA) (1994)

H1 H2 H3 H4 H5

Heat 2 - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)

date 14-Feb-21 time 2.58 3.64 4.68 5.70 6.72

reaction time 0.166 interval 1.06 1.04 1.02 1.02

velocity 5.32 8.62 8.79 8.96 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

7.68 3 / 1

0.96 3.12

10.13 7.81 8.79

Walters, Ruebin (TTO) (1995)

H1 H2 H3 H4 H5

Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)

date 20-Mar-22 time 2.50 3.56 4.63 5.67 6.70

reaction time 0.135 interval 1.06 1.07 1.04 1.03

velocity 5.49 8.62 8.54 8.79 8.87

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

7.68 7 / 6

0.98 3.17

9.92 7.81 8.65

Minoue, Gregory (GER) (2002)

H1 H2 H3 H4 H5

Semi-Final 2 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)

date 07-Mar-25 time 2.44 3.52 4.56 5.58 6.60

reaction time 0.139 interval 7 steps 1.08 1.04 1.02 1.02

velocity 5.62 8.46 8.79 8.96 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

European Athletics (2025) - european athletics indoor championships results book

7.68 7 / 6

1.08 3.14

9.00 7.81 8.73

Martinez, Asier (ESP) (2000)

H1 H2 H3 H4 H5

FINAL - 2025 European Athletics Indoor Championships (Apeldoorn, NED)

date 07-Mar-25 time 2.43 3.49 4.51 5.54 6.58

reaction time 0.146 interval 7 steps 1.06 1.02 1.03 1.04

velocity 5.65 8.62 8.96 8.87 8.79

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

European Athletics (2025) - european athletics indoor championships results book

7.68 8 / 7

1.10 3.11

8.84 7.81 8.82

Caristan, Stéphane (FRA) (1964)

H1 H2 H3 H4 H5

Heat ? - 1986 French National Indoor Championships (Lievion, FRA)

date 25-Jan-86 time 2.58 3.68 4.72 5.78 6.81

reaction time interval 1.10 1.04 1.06 1.03

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Aubert (1986) - indoor - video - haies, etude des performances

7.69 1 / 1

0.88 3.20

velocity 5.32 8.31 8.79 8.62 8.87

11.05 7.80 8.57

Nossmy, Philip (SWE) (1982)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 3 - 2010 IAAF World Indoor Championships (Doha, QAT)*Blomkvist (2010) - 100/110m Hurdles: Development*

date 14-Mar-10 time 2.63 3.68 4.75 5.77 6.81

7.69 1 / 5

reaction time 0.157 interval 1.05 1.07 1.02 1.04

0.88 3.14

velocity 5.22 8.70 8.54 8.96 8.79

11.05 7.80 8.73

Fourie, Lehann (RSA) (1987)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis)*Henson (2020) - Athlete First: 2012 Aries Merritt world record season*

date 11-Mar-12 time 2.52 3.58 4.62 5.66 6.70

7.69 8 / 7

reaction time 0.147 interval 7 steps 1.06 1.04 1.04 1.04

0.99 3.14

velocity 5.44 8.62 8.79 8.79 8.79

9.82 7.80 8.73

Xie Wenjun (CHN) (1990)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2020 Millrose Games (New York, NY) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date 08-Feb-20 time 2.53 3.60 4.64 5.67 6.70

7.69 6 / 2

reaction time 0.156 interval 7 steps 1.07 1.04 1.03 1.03

0.99 3.14

velocity 5.42 8.54 8.79 8.87 8.87

9.82 7.80 8.73

Zallow, Chad (USA) (1997)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2020 Millrose Games (New York, NY) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date 08-Feb-20 time 2.50 3.55 4.63 5.67 6.72

7.69 8 / 3

reaction time 0.172 interval 1.05 1.08 1.04 1.05

0.97 3.17

velocity 5.49 8.70 8.46 8.79 8.70

10.02 7.80 8.65

Dickson, Michael (USA) (1997)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)*CAA Hurdle Development (2020)*

date 15-Feb-20 time 2.57 3.62 4.69 5.74 6.79

7.69 5 / 2

reaction time 0.126 interval 1.05 1.07 1.05 1.05

0.90 3.17

velocity 5.34 8.70 8.54 8.70 8.70

10.80 7.80 8.65

Dickson, Michael (USA) (1997)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)*CAA Hurdle Development (2020)*

date 15-Feb-20 time 2.58 3.65 4.72 5.74 6.79

7.69 6 / 6

reaction time 0.171 interval 1.07 1.07 1.02 1.05

0.90 3.16

velocity 5.32 8.54 8.54 8.96 8.70

10.80 7.80 8.68

Manga, Aurel (FRA) (1992)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)*Henson (2021) - men's 60m hurdles world record season - Grant Holloway*

date 14-Feb-21 time 2.58 3.64 4.68 5.72 6.74

7.69 4 / 2

reaction time 0.176 interval 7 steps 1.06 1.04 1.04 1.02

0.95 3.14

velocity 5.32 8.62 8.79 8.79 8.96

10.23 7.80 8.73

Obasuyi, Michael (BEL) (1999)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)*Henson (2021) - men's 60m hurdles world record season - Grant Holloway*

date 24-Feb-21 time 2.45 3.50 4.54 5.58 6.61

7.69 8 / 5

reaction time interval 7 steps 1.05 1.04 1.04 1.03

1.08 3.13

velocity 5.60 8.70 8.79 8.79 8.87

9.00 7.80 8.76

Llopis, Enrique (ESP) (2000)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)*Henson (2021) - men's 60m hurdles world record season - Grant Holloway*

date 24-Feb-21 time 2.45 3.52 4.58 5.62 6.65

7.69 1 / 6

reaction time interval 7 steps 1.07 1.06 1.04 1.03

1.04 PB 3.17

velocity 5.60 8.54 8.62 8.79 8.87

9.35 7.80 8.65

Van Der Schaaf, Liam (NED) (1998)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis) *Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record*

date 20-Mar-22 time 2.53 3.60 4.63 5.70 6.73

7.69 1 / 7

reaction time 0.129 interval 7 steps 1.07 1.03 1.07 1.03

0.96 PB 3.17

velocity 5.42 8.54 8.87 8.54 8.87

10.13 7.80 8.65

Martinot Lagarde, Pascal (FRA) (199)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)*Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record*

date 20-Mar-22 time 2.51 3.56 4.60 5.65 6.70

7.69 3 / 2

reaction time 0.137 interval 7 steps 1.05 1.04 1.05 1.05

0.99 3.14

velocity 5.47 8.70 8.79 8.70 8.70

9.82 7.80 8.73

Zeng Jianhang (CHN) (1998)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

A-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)*CAA Hurdle Development (2019)*

date 24-Feb-19 time 2.60 3.69 4.73 5.77 6.81

7.70 3 / 1

reaction time interval 1.09 1.04 1.04 1.04

0.89 3.17

velocity 5.28 8.39 8.79 8.79 8.79

10.92 7.79 8.65

										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mallett, Aaron (USA) (1994)															
Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)													CAA Hurdle Development (2020)		
date	14-Feb-20	time	2.62	3.68	4.74	5.75	6.79				7.70	4 / 1			
reaction time	0.196	interval		1.06	1.06	1.01	1.04		0.91				3.13		
		velocity	5.24	8.62	8.62	9.05	8.79		10.68	7.79			8.76		
Larrinaga, Abdel-Kader (POL) (1994)															
Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis) Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record															
date	20-Mar-22	time	2.56	3.63	4.66	5.70	6.76				7.70	2 / 8			
reaction time	0.137	interval	7 steps	1.07	1.03	1.04	1.06		0.94				3.14		
		velocity	5.36	8.54	8.87	8.79	8.62		10.34	7.79			8.73		
Rollins, Louis (USA) (1996)															
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis) Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record															
date	04-Feb-24	time	2.52	3.60	4.64	5.72	6.75				7.70	7 / 8			
reaction time	0.182	interval		1.08	1.04	1.08	1.03		0.95				3.20		
		velocity	5.44	8.46	8.79	8.46	8.87		10.23	7.79			8.57		
Joseph, Jason (SUI) (1998)															
Semi-Final 2 - 2025 European Athletics Indoor Championships (Apeldoorn, NED) European Athletics (2025) - european athletics indoor championships results book															
date	07-Mar-25	time	2.49	3.56	4.58	5.58	6.61				7.70	3 / 7			
reaction time	0.176	interval	7 steps	1.07	1.02	1.00	1.03		1.09				3.09		
		velocity	5.51	8.54	8.96	9.14	8.87		8.92	7.79			8.87		
Nossmys, Philip (SWE) (1982)															
FINAL - 2010 Five Nations (Glasgow, GBR) Blomkvist (2010) - www.sub13.se															
date	30-Jan-10	time	2.46	3.50	4.55	5.58	6.61				7.71	1 / 3			
reaction time	0.186	interval		1.04	1.05	1.03	1.03		1.10				3.12		
		velocity	5.58	8.79	8.70	8.87	8.87		8.84	7.78			8.79		
Higuchi, Rikuto (JPN) (1999)															
FINAL - 2018 Japanese National Indoor U20 Championships (Osaka, JPN) (99cm) (2018.03.04) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en															
date	03-Feb-18	time	2.62	3.71	4.75	5.77	6.81				7.71	4 / 1			
reaction time		interval		1.09	1.04	1.02	1.04		0.90				3.15		
		velocity	5.24	8.39	8.79	8.96	8.79		10.80	7.78			8.70		
Constantino, Gabriel (BRA) (1995)															
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR) Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men															
date	04-Mar-18	time	2.58	3.65	4.71	5.74	6.79				7.71	2 / 6			
reaction time	0.176	interval	7 steps	1.07	1.06	1.03	1.05		0.92				3.16		
		velocity	5.32	8.54	8.62	8.87	8.70		10.57	7.78			8.68		
Ames, Brendan (USA) (1988)															
Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude) CAA Hurdle Development (2020)															
date	14-Feb-20	time	2.60	3.69	4.74	5.75	6.81				7.71	3 / 2			
reaction time	0.183	interval	7 Steps	1.09	1.05	1.01	1.06		0.90				3.15		
		velocity	5.28	8.39	8.70	9.05	8.62		10.80	7.78			8.70		
Zallow, Chad (USA) (1997)															
FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis) Henson (2021) - men's 60m hurdles world record season - Grant Holloway															
date	24-Jan-21	time	2.55	3.60	4.64	5.70	6.72				7.71	6 / 4			
reaction time	0.189	interval		1.05	1.04	1.06	1.02		0.99				3.15		
		velocity	5.38	8.70	8.79	8.62	8.96		9.82	7.78			8.70		
Dal Molin, Paolo (ITA) (1987)															
Heat 2 - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis) Henson (2021) - men's 60m hurdles world record season - Grant Holloway															
date	24-Feb-21	time	2.47	3.53	4.63	5.72	6.78				7.71	5 / 2			
reaction time	0.134	interval	7 steps	1.06	1.10	1.09	1.06		0.93				3.25		
		velocity	5.55	8.62	8.31	8.39	8.62		10.45	7.78			8.44		
Crittenden, Freddie (USA) (1994)															
FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis) Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record															
date	06-Feb-22	time	2.57	3.62	4.67	5.69	6.71				7.71	2 / 5			
reaction time	0.169	interval		1.05	1.05	1.02	1.02		1.00				3.12		
		velocity	5.34	8.70	8.70	8.96	8.96		9.72	7.78			8.79		
Svoboda, Petr (CZE) (1984)															
Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis) Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record															
date	20-Mar-22	time	2.50	3.56	4.58	5.58	6.63				7.71	5 / 7			
reaction time	0.136	interval		1.06	1.02	1.00	1.05		1.08				3.08		
		velocity	5.49	8.62	8.96	9.14	8.70		9.00	7.78			8.90		

										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Brixey, Sam (USA) (1998)															
FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)															
date	14-Feb-20	time	2.55	3.59	4.64	5.71	6.76				7.72	4 / 1			
reaction time		interval	7 steps	1.04	1.05	1.07	1.05		0.96				3.16		
		velocity	5.38	8.79	8.70	8.54	8.70		10.13	7.77			8.68		
Zallow, Chad (USA) (1997)															
Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)															
date	15-Feb-20	time	2.55	3.60	4.67	5.72	6.80				7.72	4 / 3			
reaction time	0.156	interval		1.05	1.07	1.05	1.08		0.92				3.17		
		velocity	5.38	8.70	8.54	8.70	8.46		10.57	7.77			8.65		
Belocian, Wilhem (FRA) (1995)															
FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record					
date	17-Feb-22	time	2.46	3.52	4.55	5.57	6.66				7.72	3 / 8			
reaction time	0.130	interval		1.06	1.03	1.02	1.09		1.06				3.11		
		velocity	5.58	8.62	8.87	8.96	8.39		9.17	7.77			8.82		
Nossmy, Philip (SWE) (1982)															
FINAL - 2010 Swedish National Indoor Championships (Sätra, SWE)															
date	28-Feb-10	time	2.66	3.71	4.77	5.80	6.83				7.73	/ 1			
reaction time		interval		1.05	1.06	1.03	1.03		0.90				3.14		
		velocity	5.16	8.70	8.62	8.87	8.87		10.80	7.76			8.73		
Nossmy, Philip (SWE) (1982)															
FINAL - 2011 Swedish National Indoor Championships (Sätra, SWE)															
date	28-Feb-11	time	2.66	3.71	4.77	5.80	6.83				7.73	/ 1			
reaction time		interval		1.05	1.06	1.03	1.03		0.90				3.14		
		velocity	5.16	8.70	8.62	8.87	8.87		10.80	7.76			8.73		
Smet, Koen (BEL) (1992)															
FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)										Henson (2021) - men's 60m hurdles world record season - Grant Holloway					
date	24-Feb-21	time	2.50	3.59	4.63	5.67	6.71				7.73	2 / 7			
reaction time		interval		1.09	1.04	1.04	1.04		1.02				3.17		
		velocity	5.49	8.39	8.79	8.79	8.79		9.53	7.76			8.65		
Smet, Koen (BEL) (1992)															
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)															
date	07-Mar-21	time	2.54	3.60	4.64	5.68	6.74				7.73	1 / 7			
reaction time	0.144	interval		1.06	1.04	1.04	1.06		0.99				3.14		
		velocity	5.40	8.62	8.79	8.79	8.62		9.82	7.76			8.73		
Szücs, Valdó (HUN) (1995)															
FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)										Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record					
date	06-Feb-22	time	2.57	3.64	4.70	5.72	6.72				7.73	1 / 6			
reaction time	0.160	interval	7 steps	1.07	1.06	1.02	1.00		1.01				3.15		
		velocity	5.34	8.54	8.62	8.96	9.14		9.62	7.76			8.70		
Al-Yoha, Yaqoub (KUW) (1993)															
Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record					
date	17-Feb-22	time	2.53	3.58	4.62	5.66	6.70				7.73	7 / 6			
reaction time	0.166	interval		1.05	1.04	1.04	1.04		1.03				3.13		
		velocity	5.42	8.70	8.79	8.79	8.79		9.44	7.76			8.76		
Bacari, Elie (BEL) (2003)															
FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record					
date	10-Feb-24	time	2.44	3.52	4.58	5.60	6.60				7.73	7 / 8			
reaction time	0.149	interval	7 steps	1.08	1.06	1.02	1.00		1.13				3.16		
		velocity	5.62	8.46	8.62	8.96	9.14		8.60	7.76			8.68		
Noga, Artur (POL) (1988)															
FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis)										Henson (2020) - Athlete First: 2012 Aries Merritt world record season					
date	11-Mar-12	time	2.60	3.68	4.68	5.70	6.76				7.74	1 / 8			
reaction time	0.157	interval		1.08	1.00	1.02	1.06		0.98				3.10		
		velocity	5.28	8.46	9.14	8.96	8.62		9.92	7.75			8.85		
Zhu Shenglong (CHN) (2000)															
FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)															
date	01-Feb-20	time	2.64	3.72	4.76	5.79	6.82				7.74	6 / 1			
reaction time		interval		1.08	1.04	1.03	1.03		0.92	PB			3.15		
		velocity	5.20	8.46	8.79	8.87	8.87		10.57	7.75			8.70		
Eaton, Jarret (USA) (1989)															
										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

date	14-Feb-20	time	2.62	3.67	4.69	5.74	6.81
reaction time	0.154	interval	7 Steps	1.05	1.02	1.05	1.07
		velocity	5.24	8.70	8.96	8.70	8.54

7.74

3 / 1

0.93

3.12

10.45

7.75

8.79

Obasuyi, Michael (BEL) (1999)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

date	24-Feb-21	time	2.60	3.66	4.73	5.75	6.78
reaction time	0.172	interval	7 steps	1.06	1.07	1.02	1.03
		velocity	5.28	8.62	8.54	8.96	8.87

7.74

3 / 3

0.96

3.15

10.13

7.75

8.70

Dal Molin, Paolo (ITA) (1987)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 Italian National Indoor Championships (Ancona, ITA)FIDAL - Centro Studi & Ricerche (2012) - www.youtube.com/watch?v=SIDALf6RdBY

date	25-Feb-12	time	2.60	3.66	4.71	5.75	6.82
reaction time		interval		1.06	1.05	1.04	1.07
		velocity	5.28	8.62	8.70	8.79	8.54

7.75

6 / 1

0.93

3.15

10.45

7.74

8.70

Zeng Jianhang (CHN) (1998)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)

CAA Hurdle Development (2019)

date	20-Feb-19	time	2.60	3.68	4.74	5.79	6.84
reaction time		interval		1.08	1.06	1.05	1.05
		velocity	5.28	8.46	8.62	8.70	8.70

7.75

4 / 1

0.91

3.19

10.68

7.74

8.60

Xie Wenjun (CHN) (1990)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)

CAA Hurdle Development (2020)

date	01-Feb-20	time	2.65	3.70	4.75	5.78	6.82
reaction time		interval	7 steps	1.05	1.05	1.03	1.04
		velocity	5.18	8.70	8.70	8.87	8.79

7.75

4 / 2

0.93

3.13

10.45

7.74

8.76

Harris, Aleec (USA) (1990)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

CAA Hurdle Development (2020)

date	15-Feb-20	time	2.63	3.70	4.74	5.77	6.84
reaction time	0.145	interval		1.07	1.04	1.03	1.07
		velocity	5.22	8.54	8.79	8.87	8.54

7.75

6 / 3

0.91

3.14

10.68

7.74

8.73

Al-Yoha, Yaqoub (KUW) (1993)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis)

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

date	17-Feb-21	time	2.59	3.65	4.70	5.72	6.75
reaction time	0.166	interval		1.06	1.05	1.02	1.03
		velocity	5.30	8.62	8.70	8.96	8.87

7.75

5 / 5

1.00

3.13

9.72

7.74

8.76

Lakka, Elmo (FIN) (1993)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

date	24-Feb-21	time	2.50	3.56	4.60	5.67	6.70
reaction time	0.142	interval	7 steps	1.06	1.04	1.07	1.03
		velocity	5.49	8.62	8.79	8.54	8.87

7.75

6 / 3

1.05

3.17

9.26

7.74

8.65

Sevier, Mikdat (TUR) (1998)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

date	20-Mar-22	time	2.53	3.60	4.66	5.66	6.73
reaction time	0.129	interval		1.07	1.06	1.00	1.07
		velocity	5.42	8.54	8.62	9.14	8.54

7.75

2 / 8

1.02

3.13

9.53

7.74

8.76

Bacari, Elie (BEL) (2003)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 1 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)

European Athletics (2025) - european athletics indoor championships results book

date	07-Mar-25	time	2.39	3.47	4.51	5.51	6.55
reaction time	0.111	interval	7 steps	1.08	1.04	1.00	1.04
		velocity	5.74	8.46	8.79	9.14	8.79

7.75

3 / 7

1.20

3.12

8.10

7.74

8.79

Nossmys, Philip (SWE) (1982)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2013 European Indoor Championships (Göteborg, SWE)Blomkvist (2013) - www.elitlandslag.se/SprintHäck/Korthäck.aspx

date	01-Mar-13	time	2.63	3.73	4.80	5.84	6.89
reaction time	0.162	interval		1.10	1.07	1.04	1.05
		velocity	5.22	8.31	8.54	8.79	8.70

7.76

1 / 4

0.87

3.21

11.17

7.73

8.54

Koua, Franck Brice (ITA) (2001)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)

Henson (2021) - Athlete First: 2021 year end hurdle report

date	07-Mar-21	time	2.52	3.60	4.66	5.70	6.76
reaction time	0.165	interval		1.08	1.06	1.04	1.06
		velocity	5.44	8.46	8.62	8.79	8.62

7.76

2 / 8

1.00

3.18

9.72

7.73

8.62

Walters, Ruebin (TTO) (1995)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

date	06-Feb-22	time	2.61	3.70	4.76	5.79	6.81
reaction time	0.176	interval		1.09	1.06	1.03	1.02
		velocity	5.26	8.39	8.62	8.87	8.96

	7.76	8 / 7	
	0.95		3.18
	10.23	7.73	8.62

Zhu Shenglong (CHN) (2000)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) <i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>											
date	02-Mar-24	time	2.58	3.66	4.74	5.79	6.77		7.76	5 / 2	
reaction time	0.149	interval	7 steps	1.08	1.08	1.05	0.98		0.99		3.21
		velocity	5.32	8.46	8.46	8.70	9.33		9.82	7.73	8.54

Iribarne, Roger (CUB) (1996)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR) <i>Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men</i>											
date	04-Mar-18	time	2.52	3.58	4.68	5.77	6.83		7.77	8 / 7	
reaction time	0.172	interval	7 steps	1.06	1.10	1.09	1.06		0.94		3.25
		velocity	5.44	8.62	8.31	8.39	8.62		10.34	7.72	8.44

Harris, Aleec (USA) (1990)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Millrose Games (New York, NY) (TV Analysis) <i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>											
date	08-Feb-20	time	2.56	3.64	4.70	5.73	6.80		7.77	4 / 4	
reaction time	0.167	interval		1.08	1.06	1.03	1.07		0.97		3.17
		velocity	5.36	8.46	8.62	8.87	8.54		10.02	7.72	8.65

Harris, Aleec (USA) (1990)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude) <i>CAA Hurdle Development (2020)</i>											
date	14-Feb-20	time	2.62	3.67	4.72	5.77	6.84		7.77	5 / 3	
reaction time	0.157	interval		1.05	1.05	1.05	1.07		0.93		3.15
		velocity	5.24	8.70	8.70	8.70	8.54		10.45	7.72	8.70

Manga, Aurel (FRA) (1992)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis) <i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>											
date	14-Feb-21	time	2.50	3.58	4.66	5.70	6.74		7.77	6 / 4	
reaction time	0.160	interval	7 steps	1.08	1.08	1.04	1.04		1.03		3.20
		velocity	5.49	8.46	8.46	8.79	8.79		9.44	7.72	8.57

Lakka, Elmo (FIN) (1993)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis) <i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>											
date	24-Feb-21	time	2.45	3.50	4.58	5.65	6.69		7.77	7 / 8	
reaction time		interval	7 steps	1.05	1.08	1.07	1.04		1.08		3.20
		velocity	5.60	8.70	8.46	8.54	8.79		9.00	7.72	8.57

Nossmys, Philip (SWE) (1982)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2010 Samsung Galan (Göteborg, SWE) <i>Blomkvist (2010) - www.sub13.se</i>											
date	02-Feb-10	time	2.56	3.65	4.72	5.76	6.80		7.78	1 / 2	
reaction time		interval		1.09	1.07	1.04	1.04		0.98		3.20
		velocity	5.36	8.39	8.54	8.79	8.79		9.92	7.71	8.57

Wignall, Maurice (JAM) (1976)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 GE Galan (Stockholm, SWE) <i>Blomkvist (2010) - www.sub13.se</i>											
date	10-Feb-10	time	2.45	3.52	4.57	5.61	6.67		7.78	1 / 5	
reaction time		interval		1.07	1.05	1.04	1.06		1.11		3.16
		velocity	5.60	8.54	8.70	8.79	8.62		8.76	7.71	8.68

Nossmys, Philip (SWE) (1982)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2013 European Indoor Championships (Göteborg, SWE) <i>Blomkvist (2013) - www.elitfandslag.se/SprintHack/KortHack.aspx</i>											
date	01-Mar-13	time	2.62	3.71	4.77	5.82	6.86		7.78	2 / 6	
reaction time	0.153	interval		1.09	1.06	1.05	1.04		0.92		3.20
		velocity	5.24	8.39	8.62	8.70	8.79		10.57	7.71	8.57

Akindede, Oladayo (USA) (1996)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Leonard Hilton Memorial Invitational (Houston, TX) <i>CAA Hurdle Development (2020)</i>											
date	17-Jan-20	time	2.53	3.60	4.64	5.67	6.71		7.78	5 / 1	
reaction time		interval	7 steps	1.07	1.04	1.03	1.04		1.07	PB	3.14
		velocity	5.42	8.54	8.79	8.87	8.79		9.08	7.71	8.73

Charles, Jordan (USA) (1995)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude) <i>CAA Hurdle Development (2020)</i>											
date	01-Feb-20	time	2.60	3.70	4.76	5.80	6.85		7.78	5 / 3	
reaction time		interval	7 steps	1.10	1.06	1.04	1.05		0.93	PB	3.20
		velocity	5.28	8.31	8.62	8.79	8.70		10.45	7.71	8.57

Sun Zhenjiang (CHN) (1999)

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN) <i>CAA Hurdle Development (2019)</i>											
date	20-Mar-19	time	2.61	3.69	4.73	5.77	6.86		7.79	5 / 2	

reaction time	interval	7 steps	1.08	1.04	1.04	1.09			0.93		3.16
	velocity	5.26	8.46	8.79	8.79	8.39			10.45	7.70	8.68

Fontenot, Ryan (USA) (1986)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)												
date	15-Feb-20	time	2.67	3.73	4.79	5.82		7.79		CAA Hurdle Development (2020)		
reaction time	0.151	interval		1.06	1.06	1.03	0.94				3.15	
		velocity	5.14	8.62	8.62	8.87	10.34	7.70			8.70	

Mayer, Kevin (FRA) (1992)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)												
date	09-Feb-21	time	2.58	3.68	4.76	5.77		7.79		Henson (2021) - men's 60m hurdles world record season - Grant Holloway		
reaction time	0.179	interval		7 steps	1.10	1.08	0.98				3.19	
		velocity	5.32	8.31	8.46	9.05	9.92	7.70			8.60	

Ortega, Orlando (ESP) (1991)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)												
date	19-Feb-22	time	2.50	3.58	4.62	5.67		7.79		Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record		
reaction time	0.165	interval		1.08	1.04	1.05	1.07				3.17	
		velocity	5.49	8.46	8.79	8.70	9.08	7.70			8.65	

Chen Yuanjiang (CHN) (2006)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2024 Chinese Indoor Grand Prix I (Chengdu, CHN)												
date	27-Feb-24	time	2.67	3.75	4.79	5.84		7.79		Shandong Athletics Sport Science (2024)		
reaction time		interval		1.08	1.04	1.05	0.90				3.17	
		velocity	5.14	8.46	8.79	8.70	10.80	7.70			8.65	

Baillie, Chris (GBR) (1981)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2010 Samsung Galan (Göteborg, SWE)												
date	02-Feb-10	time	2.52	3.60	4.66	5.72		7.80		Blomkvist (2010) - www.sub13.se		
reaction time		interval		1.08	1.06	1.06	1.02				3.20	
		velocity	5.44	8.46	8.62	8.62	9.53	7.69			8.57	

Sun Zhenjiang (CHN) (1999)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
A-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)												
date	28-Feb-19	time	2.58	3.63	4.69	5.75		7.80		CAA Hurdle Development (2019)		
reaction time		interval		7 steps	1.05	1.06	0.99				3.17	
		velocity	5.32	8.70	8.62	8.62	9.82	7.69			8.65	

Xie Wenjun (CHN) (1990)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)												
date	01-Feb-20	time	2.64	3.74	4.79	5.83		7.80		CAA Hurdle Development (2020)		
reaction time		interval		7 steps	1.10	1.05	0.93				3.19	
		velocity	5.20	8.31	8.70	8.79	10.45	7.69			8.60	

Kiljan, Krzysztof (POL) (1999)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis)												
date	17-Feb-21	time	2.58	3.67	4.71	5.77		7.80		Henson (2021) - men's 60m hurdles world record season - Grant Holloway		
reaction time	0.155	interval		7 steps	1.09	1.04	0.96				3.19	
		velocity	5.32	8.39	8.79	8.62	10.13	7.69			8.60	

Kiss, Dániel (HUN) (1982)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)												
date	14-Mar-10	time	2.73	3.75	4.82	5.89		7.81		Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships		
reaction time	0.182	interval		1.02	1.07	1.07	0.88				3.16	
		velocity	5.03	8.96	8.54	8.54	11.05	7.68			8.68	

Mazáč, Martin (CZE) (1990)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)												
date	25-Feb-12	time	2.68	3.76	4.77	5.82		7.81		Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles		
reaction time	0.138	interval		1.08	1.01	1.05	0.97				3.14	
		velocity	5.12	8.46	9.05	8.70	10.02	7.68			8.73	

Petzke, Jonathan (GER) (1998)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 German National Indoor Junior Championships (Sindelfingen, GER) (99cm)												
date	25-Feb-17	time	2.66	3.72	4.80	5.86		7.81		Poser (2017) - mit merhrkampfttraining zum hürdentitel		
reaction time		interval		1.06	1.08	1.06	0.88				3.20	
		velocity	5.16	8.62	8.46	8.62	11.05	7.68			8.57	

Fontenot, Ryan (USA) (1986)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)												
date	14-Feb-20	time	2.66	3.74	4.79	5.84		7.81		CAA Hurdle Development (2020)		
reaction time	0.160	interval		1.08	1.05	1.05	0.92				3.18	

velocity 5.16 8.46 8.70 8.70 8.70

10.57 7.68

8.62

Sun Zhenjiang (CHN) (1999)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)***CAA Hurdle Development (2021)*

date 13-Mar-21 time 2.62 3.70 4.78 5.83 6.88

reaction time 0.187 interval 7 steps 1.08 1.08 1.05 1.05

7.81 5 / 2

0.93 3.21

velocity 5.24 8.46 8.46 8.70 8.70

10.45 7.68 8.54

Zhang Honglin (CHN) (1994)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)***CAA Hurdle Development (2021)*

date 18-Mar-21 time 2.66 3.74 4.81 5.86 6.91

reaction time 0.204 interval 7 steps 1.08 1.07 1.05 1.05

7.81 3 / 2

0.90 3.20

velocity 5.16 8.46 8.54 8.70 8.70

10.80 7.68 8.57

Lakka, Elmo (FIN) (1993)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final 1 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)***European Athletics (2025) - european athletics indoor championships results book*

date 07-Mar-25 time 2.41 3.51 4.57 5.66 6.72

reaction time 0.125 interval 7 steps 1.10 1.06 1.09 1.06

7.81 8 / 7

1.09 3.25

velocity 5.69 8.31 8.62 8.39 8.62

8.92 7.68 8.44

Richard, Thierry (FRA) (1961)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final 2 - 1986 French National Indoor Championships (Lieviv, FRA)***Aubert (1986) - indoor - video - haies, etude des performances*

date 26-Jan-86 time 2.68 3.78 4.85 5.93 7.07

reaction time interval 1.10 1.07 1.08 1.14

7.82 / 5

0.75 3.25

velocity 5.12 8.31 8.54 8.46 8.02

12.96 7.67 8.44

Aubert, Philippe (FRA) (1957)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 1986 French National Indoor Championships (Lieviv, FRA)***Aubert (1986) - indoor - video - haies, etude des performances*

date 26-Jan-86 time 2.61 3.69 4.78 5.83 6.91

reaction time interval 1.08 1.09 1.05 1.08

7.82 / 2

0.91 3.22

velocity 5.26 8.46 8.39 8.70 8.46

10.68 7.67 8.52

Zhao Pengchuan (CHN) (1993)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)***CAA Hurdle Development (2019)*

date 4-Mar-19 time 2.62 3.72 4.80 5.86 6.90

reaction time interval 1.10 1.08 1.06 1.04

7.82 3 / 1

0.92 3.24

velocity 5.24 8.31 8.46 8.62 8.79

10.57 7.67 8.46

Ning Xiaohan (CHN) (2000)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)***CAA Hurdle Development (2019)*

date 4-Mar-19 time 2.64 3.72 4.78 5.82 6.88

reaction time interval 1.08 1.06 1.04 1.06

7.82 4 / 2

0.94 3.18

velocity 5.20 8.46 8.62 8.79 8.62

10.34 7.67 8.62

Wilt, Caleb (USA) (1997)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)***CAA Hurdle Development (2020)*

date 14-Feb-20 time 2.59 3.65 4.74 5.80 6.87

reaction time 0.144 interval 7 Steps 1.06 1.09 1.06 1.07

7.82 2 / 3

0.95 3.21

velocity 5.30 8.62 8.39 8.62 8.54

10.23 7.67 8.54

Moore, Isaiah (USA) (1996)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)***CAA Hurdle Development (2020)*

date 14-Feb-20 time 2.64 3.74 4.79 5.82 6.89

reaction time 0.154 interval 1.10 1.05 1.03 1.07

7.82 1 / 3

0.93 3.18

velocity 5.20 8.31 8.70 8.87 8.54

10.45 7.67 8.62

Dunning, Robert (USA) (1997)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)***Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record*

date 06-Feb-22 time 2.55 3.64 4.70 5.74 6.85

reaction time 0.179 interval 7 steps 1.09 1.06 1.04 1.11

7.82 7 / 8

0.97 3.19

velocity 5.38 8.39 8.62 8.79 8.23

10.02 7.67 8.60

Sevier, Mikdat (TUR) (1998)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final 2 - 2025 European Athletics Indoor Championships (Apeldoorn, NED)***European Athletics (2025) - european athletics indoor championships results book*

date 07-Mar-25 time 2.42 3.49 4.54 5.59 6.66

reaction time 0.122 interval 7 steps 1.07 1.05 1.05 1.07

7.82 2 / 8

1.16 3.17

velocity 5.67 8.54 8.70 8.70 8.54

8.38 7.67 8.65

Zhu Shenglong (CHN) (2000)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 1 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)***CAA Hurdle Development (2020)*

date 01-Feb-20 time 2.67 3.75 4.82 5.86 6.90

reaction time interval 1.08 1.07 1.04 1.04

7.83 5 / 2

0.93 3.19

velocity 5.14 8.46 8.54 8.79 8.79

10.45 7.66 8.60

Dickson, Michael (USA) (1997)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Millrose Games (New York, NY) (TV Analysis)										<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	08-Feb-20	time	2.60	3.67	4.74	5.80	6.84				7.83	7 / 5			
reaction time	0.231	interval		1.07	1.07	1.06	1.04			0.99			3.20		
		velocity	5.28	8.54	8.54	8.62	8.79			9.82	7.66		8.57		
Moore, Isaiah (USA) (1996)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)										<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.63	3.72	4.79	5.84	6.89				7.83	6 / 4			
reaction time	0.161	interval		1.09	1.07	1.05	1.05			0.94			3.21		
		velocity	5.22	8.39	8.54	8.70	8.70			10.34	7.66		8.54		
Kwaou-Mathey, Just (FRA) (1999)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	14-Feb-21	time	2.68	3.76	4.80	5.86	6.90				7.83	2 / 3			
reaction time	0.158	interval		1.08	1.04	1.06	1.04			0.93			3.18		
		velocity	5.12	8.46	8.79	8.62	8.79			10.45	7.66		8.62		
Kwaou-Mathey, Just (FRA) (1999)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	14-Feb-21	time	2.60	3.68	4.72	5.74	6.82				7.83	1 / 5			
reaction time	0.168	interval		1.08	1.04	1.02	1.08			1.01			3.14		
		velocity	5.28	8.46	8.79	8.96	8.46			9.62	7.66		8.73		
Mazáč, Martin (CZE) (1990)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)										<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>					
date	25-Feb-12	time	2.70	3.80	4.83	5.89	6.91				7.84	4 / 1			
reaction time	0.161	interval		1.10	1.03	1.06	1.02			0.93			3.19		
		velocity	5.08	8.31	8.87	8.62	8.96			10.45	7.65		8.60		
Zhao Pengchuan (CHN) (1993)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
A-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)										<i>CAA Hurdle Development (2019)</i>					
date	28-Feb-19	time	2.61	3.71	4.77	5.85	6.91				7.84	4 / 2			
reaction time		interval		1.10	1.06	1.08	1.06			0.93			3.24		
		velocity	5.26	8.31	8.62	8.46	8.62			10.45	7.65		8.46		
Moore, Titus (USA) (1999)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)										<i>CAA Hurdle Development (2020)</i>					
date	14-Feb-20	time	2.64	3.73	4.79	5.85	6.92				7.84	6 / 4			
reaction time	0.159	interval		1.09	1.06	1.06	1.07			0.92	PB		3.21		
		velocity	5.20	8.39	8.62	8.62	8.54			10.57	7.65		8.54		
Graham, Javon (USA)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)										<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.60	3.70	4.77	5.83	6.91				7.84	2 / 5			
reaction time	0.158	interval		1.10	1.07	1.06	1.08			0.93	PB		3.23		
		velocity	5.28	8.31	8.54	8.62	8.46			10.45	7.65		8.49		
Fontenot, Ryan (USA) (1986)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)										<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.67	3.73	4.80	5.84	6.87				7.84	8 / 7			
reaction time	0.170	interval		1.06	1.07	1.04	1.03			0.97			3.17		
		velocity	5.14	8.62	8.54	8.79	8.87			10.02	7.65		8.65		
Lovett, Eddie (ISV) (1992)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	24-Jan-21	time	2.58	3.67	4.70	5.78	6.85				7.84	7 / 5			
reaction time	0.182	interval		1.09	1.03	1.08	1.07			0.99			3.20		
		velocity	5.32	8.39	8.87	8.46	8.54			9.82	7.65		8.57		
Żewrowski, Dawid (POL) (1997)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	17-Feb-21	time	2.63	3.71	4.76	5.80	6.86				7.84	1 / 7			
reaction time	0.167	interval		1.08	1.05	1.04	1.06			0.98			3.17		
		velocity	5.22	8.46	8.70	8.79	8.62			9.92	7.65		8.65		
Brorsson, Alexander (SWE) (1990)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2013 European Indoor Championships (Göteborg, SWE)										<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>					
date	01-Mar-13	time	2.60	3.70	4.77	5.84	6.93				7.85	2 / 6			
reaction time	0.156	interval		1.10	1.07	1.07	1.09			0.92			3.24		
		velocity	5.28	8.31	8.54	8.54	8.39			10.57	7.64		8.46		

										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ning Xiaohan (CHN) (2000)															
A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)															
date	20-Mar-19	time	2.64	3.71	4.79	5.82	6.91				7.85	4 / 3			
reaction time		interval		1.07	1.08	1.03	1.09		0.94				3.18		
		velocity	5.20	8.54	8.46	8.87	8.39		10.34	7.64			8.62		
Lovett, Eddie (ISV) (1992)															
FINAL - 2020 Millrose Games (New York, NY) (TV Analysis)															
date	08-Feb-20	time	2.57	3.67	4.74	5.77	6.87				7.85	3 / 6			
reaction time	0.180	interval	7 steps	1.10	1.07	1.03	1.10		0.98				3.20		
		velocity	5.34	8.31	8.54	8.87	8.31		9.92	7.64			8.57		
Wilt, Caleb (USA) (1997)															
Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)															
date	15-Feb-20	time	2.58	3.67	4.75	5.82	6.89				7.85	7 / 6			
reaction time	0.112	interval	7 Steps	1.09	1.08	1.07	1.07		0.96				3.24		
		velocity	5.32	8.39	8.46	8.54	8.54		10.13	7.64			8.46		
Aubert, Philippe (FRA) (1957)															
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)															
date	26-Jan-86	time	2.66	3.75	4.79	5.86	6.95				7.86	1 / 2			
reaction time		interval		1.09	1.04	1.07	1.09		0.91				3.20		
		velocity	5.16	8.39	8.79	8.54	8.39		10.68	7.63			8.57		
Yang Quanlei (CHN) (1999)															
FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)															
date	18-Mar-21	time	2.63	3.74	4.82	5.90	6.96				7.86	5 / 3			
reaction time	0.173	interval		1.11	1.08	1.08	1.06		0.90	PB			3.27		
		velocity	5.22	8.23	8.46	8.46	8.62		10.80	7.63			8.39		
Chaucoy, Eric (FRA) (1963)															
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)															
date	26-Jan-86	time	2.61	3.72	4.78	5.84	6.93				7.87	1 / 3			
reaction time		interval		1.11	1.06	1.06	1.09		0.94				3.23		
		velocity	5.26	8.23	8.62	8.62	8.39		10.34	7.62			8.49		
Porter, Jeff (USA) (1985)															
Heat 2 - 2010 Samsung Galan (Göteborg, SWE)															
date	02-Feb-10	time	2.54	3.64	4.68	5.76	6.88				7.87				
reaction time		interval		1.10	1.04	1.08	1.12		0.99				3.22		
		velocity	5.40	8.31	8.79	8.46	8.16		9.82	7.62			8.52		
Heinä, Joonas-Ville (FIN) (1989)															
FINAL - 2011 Landskamp FIN-SWE-NOR (Tampere, FIN)															
date	05-Feb-11	time	2.56	3.64	4.68	5.76	6.84				7.87	7 / 1			
reaction time		interval		1.08	1.04	1.08	1.08		1.03				3.20		
		velocity	5.36	8.46	8.79	8.46	8.46		9.44	7.62			8.57		
Hairston, Max (USA) (1994)															
FINAL - 2020 Millrose Games (New York, NY) (TV Analysis)															
date	08-Feb-20	time	2.57	3.67	4.77	5.81	6.87				7.87	2 / 7			
reaction time	0.206	interval	7 steps	1.10	1.10	1.04	1.06		1.00				3.24		
		velocity	5.34	8.31	8.31	8.79	8.62		9.72	7.62			8.46		
Moore, Titus (USA) (1999)															
Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)															
date	15-Feb-20	time	2.66	3.77	4.84	5.90	6.97				7.87	7 / 5			
reaction time	0.179	interval		1.11	1.07	1.06	1.07		0.90				3.24		
		velocity	5.16	8.23	8.54	8.62	8.54		10.80	7.62			8.46		
Zaza, Wellington (LBR) (1995)															
FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis)															
date	24-Jan-21	time	2.50	3.60	4.70	5.78	6.88				7.87	2 / 6			
reaction time	0.153	interval		1.10	1.10	1.08	1.10		0.99				3.28		
		velocity	5.49	8.31	8.31	8.46	8.31		9.82	7.62			8.36		
Levy, Ronald (JAM) (1992)															
FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)															
date	19-Feb-22	time	2.52	3.60	4.68	5.75	6.81				7.87	1 / 8			
reaction time	0.146	interval	7 steps	1.08	1.08	1.07	1.06		1.06				3.23		
		velocity	5.44	8.46	8.46	8.54	8.62		9.17	7.62			8.49		
Burt, John (USA) (1997)															

FINAL - 2020 Leonard Hilton Memorial Invitational (Houston, TX)

date	17-Jan-20	time	2.49	3.58	4.65	5.71	6.79
reaction time		interval		1.09	1.07	1.06	1.08
		velocity	5.51	8.39	8.54	8.62	8.46

7.88

CAA Hurdle Development (2020)

6 / 2

1.09		3.22
8.92	7.61	8.52

Zhu Shenglong (CHN) (2000)

H1 H2 H3 H4 H5

FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)

date	14-Feb-20	time	2.69	3.77	4.86	5.89	6.96
reaction time		interval		1.08	1.09	1.03	1.07
		velocity	5.10	8.46	8.39	8.87	8.54

7.88

CAA Hurdle Development (2020)

5 / 2

0.92		3.20
10.57	7.61	8.57

Chaucoy, Eric (FRA) (1963)

H1 H2 H3 H4 H5

FINAL - 1986 French National Indoor Championships (Lievin, FRA)

date	26-Jan-86	time	2.61	3.71	4.78	5.86	6.93
reaction time		interval		1.10	1.07	1.08	1.07
		velocity	5.26	8.31	8.54	8.46	8.54

7.89

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Aubert (1986) - indoor - video - haies, etude des performances

/ 3

0.96		3.25
10.13	7.60	8.44

Sedláč, Václav (CZE) (1993)

H1 H2 H3 H4 H5

FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)

date	25-Feb-12	time	2.67	3.78	4.85	5.93	7.00
reaction time	0.141	interval		1.11	1.07	1.08	1.07
		velocity	5.14	8.23	8.54	8.46	8.54

7.89

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

5 / 2

0.89		3.26
10.92	7.60	8.41

Zhu Shenglong (CHN) (2000)

H1 H2 H3 H4 H5

Semi-Final 2 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)

date	14-Feb-20	time	2.70	3.80	4.87	5.90	6.97
reaction time		interval		1.10	1.07	1.03	1.07
		velocity	5.08	8.31	8.54	8.87	8.54

7.89

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2020)

2 / 1

0.92		3.20
10.57	7.60	8.57

Tait, Emmanuel (USA)

H1 H2 H3 H4 H5

Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

date	14-Feb-20	time	2.64	3.72	4.84	5.87	6.96
reaction time	0.146	interval		1.08	1.12	1.03	1.09
		velocity	5.20	8.46	8.16	8.87	8.39

7.89

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2020)

1 / 4

0.93		3.23
10.45	7.60	8.49

Perini, Lorenzo (ITA) (1994)

H1 H2 H3 H4 H5

FINAL - 2013 Italian National Indoor Junior Championships (Ancona, ITA) (99cm)

date	23-Feb-13	time	2.71	3.80	4.86	5.91	6.95
reaction time		interval		1.09	1.06	1.05	1.04
		velocity	5.06	8.39	8.62	8.70	8.79

7.90

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FIDAL - Centro Studi & Ricerche (2013) - www.youtube.com/watch?v=Egf_xlSp-DI

6 / 1

0.95		3.20
10.23	7.59	8.57

Darien, Daniel (FRA) (1961)

H1 H2 H3 H4 H5

FINAL - 1986 French National Indoor Championships (Lievin, FRA)

date	26-Jan-86	time	2.60	3.70	4.79	5.90	7.00
reaction time		interval		1.10	1.09	1.11	1.10
		velocity	5.28	8.31	8.39	8.23	8.31

7.91

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Aubert (1986) - indoor - video - haies, etude des performances

/ 4

0.91		3.30
10.68	7.59	8.31

Mählmann, René (GER) (1993)

H1 H2 H3 H4 H5

FINAL - 2011 German National Indoor Junior Championships (Leverkusen, GER) (99cm)

date	19-Feb-11	time	2.66	3.74	4.80	5.87	6.96
reaction time		interval		1.08	1.06	1.07	1.09
		velocity	5.16	8.46	8.62	8.54	8.39

7.91

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

May (2011) - zwei jugendliche hürdensprinter im vergleich

6 / 2

0.95		3.21
10.23	7.59	8.54

Perini, Lorenzo (ITA) (1994)

H1 H2 H3 H4 H5

FINAL - 2012 Italian National Indoor Junior Championships (Ancona, ITA) (99cm)

date	18-Feb-12	time	2.68	3.77	4.85	5.90	6.95
reaction time		interval		1.09	1.08	1.05	1.05
		velocity	5.12	8.39	8.46	8.70	8.70

7.91

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FIDAL - Centro Studi & Ricerche (2012) - www.youtube.com/watch?v=SU_c9jUKwsw

3 / 1

0.96		3.22
10.13	7.59	8.52

Zhu Shenglong (CHN) (2000)

H1 H2 H3 H4 H5

FINAL - 2020 Leonard Hilton Memorial Invitational (Houston, TX)

date	17-Jan-20	time	2.60	3.67	4.76	5.81	6.87
reaction time		interval		1.07	1.09	1.05	1.06
		velocity	5.28	8.54	8.39	8.70	8.62

7.91

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2020)

3 / 3

1.04		3.21
9.35	7.59	8.54

Hairston, Max (USA) (1994)

H1 H2 H3 H4 H5

FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)

date	01-Feb-20	time	2.65	3.75	4.82	5.92	6.99
reaction time		interval	7 steps	1.10	1.07	1.10	1.07
		velocity	5.18	8.31	8.54	8.31	8.54

7.91

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2020)

3 / 4

0.92		3.27
10.57	7.59	8.39

Smith, Shakeem (BAH) (1997)

H1 H2 H3 H4 H5

FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2020)

date	14-Feb-20	time	2.65	3.75	4.84	5.91	6.99
reaction time		interval		1.10	1.09	1.07	1.08
		velocity	5.18	8.31	8.39	8.54	8.46

	7.91	6 / 3	
	0.92		3.26
	10.57	7.59	8.41

Zhu Shenglong (CHN) (2000)

Nu Shenglong (CHN) (2000)		H1	H2	H3	H4	H5	
Heat 3 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)							
date	14-Feb-20	time	2.59	3.64	4.74	5.79	6.84
reaction time		interval		1.05	1.10	1.05	1.05
		velocity	5.30	8.70	8.31	8.70	8.70

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.92	2 / 1			
	1.08			3.20	
	9.00			8.57	

Graham, Javon (USA)

rahman, Javon (USA)		H1	H2	H3	H4	H5	
Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)							
date	14-Feb-20	time	2.65	3.77	4.82	5.92	6.97
reaction time	0.166	interval		1.12	1.05	1.10	1.05
		velocity	5.18	8.16	8.70	8.31	8.70

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.92	8 / 4			
	0.95			3.27	
	10.23			8.39	

Faragona, Alessandro (ITA) (1995)

Aragona, Alessandro (ITA) (1995)		H1	H2	H3	H4	H5	
FINAL - 2012 Italian National Indoor Youth Championships (Ancona, ITA) (91cm)							
date	18-Feb-12	time	2.68	3.78	4.83	5.87	6.93
reaction time		interval	7 steps	1.10	1.05	1.04	1.06
		velocity	5.12	8.31	8.70	8.79	8.62

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.93	4 / 1			
	1.00			3.19	
	9.72			8.60	

Zhang Honglin (CHN) (1994)

Yang Honglin (CHN) (1994)		H1	H2	H3	H4	H5	
A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)							
date	4-Mar-19	time	2.67	3.75	4.83	5.91	7.01
reaction time		interval		1.08	1.08	1.08	1.10
		velocity	5.14	8.46	8.46	8.46	8.31

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.93	5 / 3			
	0.92			3.24	
	10.57			8.46	

Moore, Isaiah (USA) (1996)

Core, Isaiah (USA) (1996)		H1	H2	H3	H4	H5	
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)							
date	15-Feb-20	time	2.65	3.77	4.84	5.91	6.97
reaction time	0.139	interval		1.12	1.07	1.07	1.06
		velocity	5.18	8.16	8.54	8.54	8.62

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.93	1 / 8			
	0.96			3.26	
	10.13			8.41	

Boussemart, Pascal (FRA) (1959)

Dussemer, Pascal (FRA) (1959)		H1	H2	H3	H4	H5	
Heat ? - 1986 French National Indoor Championships (Lievin, FRA)							
date	25-Jan-86	time	2.64	3.75	4.83	5.91	6.98
reaction time		interval		1.11	1.08	1.08	1.07
		velocity	5.20	8.23	8.46	8.46	8.54

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.94	/ 6			
	0.96			3.27	
	10.13			8.39	

Darien, Daniel (FRA) (1961)

Larrier, Daniel (FRA) (1961)		H1	H2	H3	H4	H5	
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)							
date	26-Jan-86	time	2.67	3.76	4.85	5.95	7.04
reaction time		interval		1.09	1.09	1.10	1.09
		velocity	5.14	8.39	8.39	8.31	8.39

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.94	/ 4			
	0.90			3.28	
	10.80			8.36	

Boussemart, Pascal (FRA) (1959)

Dussemer, Pascal (FRA) (1959)		H1	H2	H3	H4	H5	
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)							
date	26-Jan-86	time	2.62	3.73	4.83	5.93	7.02
reaction time		interval		1.11	1.10	1.10	1.09
		velocity	5.24	8.23	8.31	8.31	8.39

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.94	/ 6			
	0.92			3.31	
	10.57			8.28	

Biondo, Giuseppe (ITA) (1996)

ondo, Giuseppe (ITA) (1996)		H1	H2	H3	H4	H5	
FINAL - 2013 Italian National Indoor Youth Championships (Ancona, ITA) (91cm)							
date	23-Feb-13	time	2.66	3.78	4.85	5.90	6.95
reaction time		interval		1.12	1.07	1.05	1.05
		velocity	5.16	8.16	8.54	8.70	8.70

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.94	6 / 1			
	0.99			3.24	
	9.82			8.46	

Jiang Fan (CHN) (1990)

ang Fan (CHN) (1990)		H1	H2	H3	H4	H5	
A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)							
date	20-Feb-19	time	2.67	3.79	4.85	5.94	7.02
reaction time		interval		1.12	1.06	1.09	1.08
		velocity	5.14	8.16	8.62	8.39	8.46

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.94	5 / 1			
	0.92			3.27	
	10.57			8.39	

Zhang Honglin (CHN) (1994)

Yang Honglin (CHN) (1994)		H1	H2	H3	H4	H5	
B-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)							
date	28-Feb-19	time	2.69	3.81	4.89	5.96	7.06
reaction time		interval		1.12	1.08	1.07	1.10
		velocity	5.10	8.16	8.46	8.54	8.31

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.94	3 / 1			
	0.88			3.27	
	11.05			8.39	

Jiang Fan (CHN) (1990)

ang Fan (CHN) (1990)		H1	H2	H3	H4	H5	
Heat 2 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)							
date	14-Feb-20	time	2.55	3.65	4.72	5.79	6.87

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
	7.94	2 / 1			

reaction time	interval	1.10	1.07	1.07	1.08	1.07		3.24
	velocity	5.38	8.31	8.54	8.54	8.46	9.08 7.56	8.46
Fareed, Naim (USA) (1996)								
Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place H1-H4 H4-H7 H7-H10
date 14-Feb-20	time	2.64	3.70	4.79	5.86	6.99	7.94	CAA Hurdle Development (2020) 7 / 5
reaction time	0.153 interval	1.06	1.09	1.07	1.13	0.95		3.22
	velocity	5.20	8.62	8.39	8.54	8.09	10.23 7.56	8.52
Vukicevic, Vladimir (NOR) (1991)								
FINAL - 2011 Landskamp FIN-SWE-NOR (Tampere, FIN)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place H1-H4 H4-H7 H7-H10
date 05-Feb-11	time	2.52	3.68	4.76	5.82	6.92	7.95	Blomkvist (2011) - www.sub13.se 3 / 2
reaction time	interval	1.16	1.08	1.06	1.10	1.03		3.30
	velocity	5.44	7.88	8.46	8.62	8.31	9.44 7.55	8.31
Li Jiming (CHN) (1996)								
A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place H1-H4 H4-H7 H7-H10
date 20-Feb-19	time	2.65	3.79	4.83	5.94	7.02	7.95	CAA Hurdle Development (2019) 4 / 2
reaction time	interval	1.14	1.04	1.11	1.08	0.93		3.29
	velocity	5.18	8.02	8.79	8.23	8.46	10.45 7.55	8.33
Foster, Jasher (USA) (1998)								
FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place H1-H4 H4-H7 H7-H10
date 14-Feb-20	time	2.64	3.74	4.82	5.89	6.97	7.95	CAA Hurdle Development (2020) 7 / 4
reaction time	interval	1.10	1.08	1.07	1.08	0.98		3.25
	velocity	5.20	8.31	8.46	8.54	8.46	9.92 7.55	8.44
Fareed, Naim (USA) (1996)								
Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place H1-H4 H4-H7 H7-H10
date 15-Feb-20	time	2.63	3.72	4.80	5.86	6.96	7.95	CAA Hurdle Development (2020) 1 / 7
reaction time	0.136 interval	1.09	1.08	1.06	1.10	0.99		3.23
	velocity	5.22	8.39	8.46	8.62	8.31	9.82 7.55	8.49
Pan Zijie (CHN) (1995)								
B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place H1-H4 H4-H7 H7-H10
date 20-Feb-19	time	2.68	3.78	4.89	5.95	7.04	7.96	CAA Hurdle Development (2019) 3 / 2
reaction time	interval	1.10	1.11	1.06	1.09	0.92		3.27
	velocity	5.12	8.31	8.23	8.62	8.39	10.57 7.54	8.39
Zhu Shenglong (CHN) (2000)								
A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place H1-H4 H4-H7 H7-H10
date 4-Mar-19	time	2.68	3.76	4.83	5.90	6.99	7.96	CAA Hurdle Development (2019) 2 / 4
reaction time	interval	1.08	1.07	1.07	1.09	0.97	PB	3.22
	velocity	5.12	8.46	8.54	8.54	8.39	10.02 7.54	8.52
Li Jiming (CHN) (1996)								
B-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place H1-H4 H4-H7 H7-H10
date 20-Mar-19	time	2.68	3.80	4.88	5.97	7.04	7.96	CAA Hurdle Development (2019) 3 / 1
reaction time	interval	1.12	1.08	1.09	1.07	0.92		3.29
	velocity	5.12	8.16	8.46	8.39	8.54	10.57 7.54	8.33
Hairston, Max (USA) (1994)								
Heat 2 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place H1-H4 H4-H7 H7-H10
date 01-Feb-20	time	2.66	3.75	4.86	5.94	7.03	7.96	CAA Hurdle Development (2020) 4 / 1
reaction time	interval 7 steps	1.09	1.11	1.08	1.09	0.93		3.28
	velocity	5.16	8.39	8.23	8.46	8.39	10.45 7.54	8.36
Jiang Fan (CHN) (1990)								
Semi-Final 3 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place H1-H4 H4-H7 H7-H10
date 14-Feb-20	time	2.68	3.80	4.85	5.94	7.00	7.96	CAA Hurdle Development (2020) 1 / 2
reaction time	interval	1.12	1.05	1.09	1.06	0.96		3.26
	velocity	5.12	8.16	8.70	8.39	8.62	10.13 7.54	8.41
Petzke, Jonathan (GER) (1998)								
Semi-Final 1 - 2017 German National Indoor Junior Championships (Sindelfingen, GER) (99cm)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place H1-H4 H4-H7 H7-H10
date 25-Feb-17	time	2.70	3.77	4.88	5.95	7.04	7.97	Poser (2017) - mit merhrkampfttraining zum hürdentitel / 1
reaction time	interval	1.07	1.11	1.07	1.09	0.93		3.25
	velocity	5.08	8.54	8.23	8.54	8.39	10.45 7.53	8.44
Pan Zijie (CHN) (1995)								
A-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place H1-H4 H4-H7 H7-H10
date 24-Feb-19	time	2.60	3.75	4.85	5.94	7.04	7.97	CAA Hurdle Development (2019) 4 / 2
reaction time	interval	1.15	1.10	1.09	1.10	0.93		3.34

velocity 5.28 7.95 8.31 8.39 8.31

10.45 7.53 8.21

Sun Haoru (CHN) (1998)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

B-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)

CAA Hurdle Development (2019)

date 4-Mar-19 time 2.65 3.75 4.85 5.93 7.02

reaction time interval 1.10 1.10 1.08 1.09

2 / 1

0.95 **PB** 3.28

velocity 5.18 8.31 8.31 8.46 8.39

10.23 7.53 8.36

Zhu Shenglong (CHN) (2000)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

B-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)

CAA Hurdle Development (2019)

date 20-Mar-19 time 2.71 3.79 4.87 5.97 7.04

reaction time interval 1.08 1.08 1.10 1.07

2 / 2

0.93 3.26

velocity 5.06 8.46 8.46 8.31 8.54

10.45 7.53 8.41

Pan Zijie (CHN) (1995)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

B-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)

CAA Hurdle Development (2019)

date 20-Mar-19 time 2.66 3.76 4.89 5.96 7.05

reaction time interval 1.10 1.13 1.07 1.09

4 / 3

0.92 3.30

velocity 5.16 8.31 8.09 8.54 8.39

10.57 7.53 8.31

Jiang Fan (CHN) (1990)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)

CAA Hurdle Development (2020)

date 01-Feb-20 time 2.72 3.82 4.91 5.97 7.02

reaction time interval 1.10 1.09 1.06 1.05

5 / 2

0.95 3.25

velocity 5.04 8.31 8.39 8.62 8.70

10.23 7.53 8.44

Jiang Fan (CHN) (1990)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)

CAA Hurdle Development (2020)

date 01-Feb-20 time 2.72 3.81 4.89 5.98 7.04

reaction time interval 1.09 1.08 1.09 1.06

2 / 5

0.93 3.26

velocity 5.04 8.39 8.46 8.39 8.62

10.45 7.53 8.41

Anderson, Joseph (USA) (1999)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

CAA Hurdle Development (2020)

date 14-Feb-20 time 2.67 3.79 4.89 5.96 7.06

reaction time interval 1.12 1.10 1.07 1.10

2 / 5

0.91 3.29

velocity 5.14 8.16 8.31 8.54 8.31

10.68 7.53 8.33

Yang Quanlei (CHN) (1999)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)

CAA Hurdle Development (2021)

date 13-Mar-21 time 2.66 3.77 4.89 5.98 7.06

reaction time interval 1.11 1.12 1.09 1.08

2 / 1

0.91 **PB** 3.32

velocity 5.16 8.23 8.16 8.39 8.46

10.68 7.53 8.26

Xu Zhuoyi (CHN) (2003)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)

CAA Hurdle Development (2021)

date 13-Mar-21 time 2.66 3.77 4.88 5.98 7.06

reaction time interval **7 steps** 1.11 1.11 1.10 1.08

3 / 2

0.91 **PB** 3.32

velocity 5.16 8.23 8.23 8.31 8.46

10.68 7.53 8.26

Ning Xiaohan (CHN) (2000)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)

CAA Hurdle Development (2021)

date 18-Mar-21 time 2.65 3.75 4.82 5.90 7.01

reaction time interval **7 steps** 1.10 1.07 1.08 1.11

6 / 4

0.96 3.25

velocity 5.18 8.31 8.54 8.46 8.23

10.13 7.53 8.44

Sedláč, Václav (CZE) (1993)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)*Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles*

date 25-Feb-12 time 2.70 3.82 4.88 5.99 7.05

reaction time interval 1.12 1.06 1.11 1.06

4 / 1

0.93 3.29

velocity 5.08 8.16 8.62 8.23 8.62

10.45 7.52 8.33

Puliček, Tomáš (CZE) (1997)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)*Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs*

date 14-Feb-15 time 2.60 3.72 4.82 5.90 7.03

reaction time interval 1.12 1.10 1.08 1.13

3 / 1

0.95 **PB** 3.30

velocity 5.28 8.16 8.31 8.46 8.09

10.23 7.52 8.31

Higuchi, Rikuto (JPN) (1999)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Japanese National Indoor Junior Championships (Osaka, JPN) (99cm)(2017.02.04) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date 04-Feb-17 time 2.70 3.80 4.89 5.99 7.09

reaction time interval 1.10 1.09 1.10 1.10

3 / 1

0.89 **PB** 3.29

velocity 5.08 8.31 8.39 8.31 8.31

10.92 7.52 8.33

Zhu Shenglong (CHN) (2000)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)										CAA Hurdle Development (2019)					
date	28-Feb-19	time	2.72	3.80	4.88	5.94	7.04				7.98	4 / 2			
reaction time		interval		1.08	1.08	1.06	1.10		0.94	PB			3.22		
		velocity	5.04	8.46	8.46	8.62	8.31		10.34	7.52			8.52		
Jiang Wei (CHN) (1994)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)										CAA Hurdle Development (2019)					
date	4-Mar-19	time	2.69	3.79	4.87	5.93	7.01				7.98	3 / 2			
reaction time		interval	7 steps	1.10	1.08	1.06	1.08		0.97				3.24		
		velocity	5.10	8.31	8.46	8.62	8.46		10.02	7.52			8.46		
Lakka, Elmo (FIN) (1993)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record					
date	17-Feb-22	time	2.53	3.62	4.72	5.80	6.85				7.98	8 / 7			
reaction time	0.152	interval	7 steps	1.09	1.10	1.08	1.05		1.13				3.27		
		velocity	5.42	8.39	8.31	8.46	8.70		8.60	7.52			8.39		
Korkealaakso, Antti (FIN) (1984)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 Landskamp FIN-SWE-NOR (Tampere, FIN)										Blomkvist (2011) - www.sub13.se					
date	05-Feb-11	time	2.60	3.72	4.80	5.88	6.96				7.99	4 / 3			
reaction time		interval		1.12	1.08	1.08	1.08		1.03				3.28		
		velocity	5.28	8.16	8.46	8.46	8.46		9.44	7.51			8.36		
Penáz, Petr (CZE) (1991)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)										Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles					
date	25-Feb-12	time	2.72	3.83	4.90	5.93	7.02				7.99	3 / 3			
reaction time	0.156	interval		1.11	1.07	1.03	1.09		0.97				3.21		
		velocity	5.04	8.23	8.54	8.87	8.39		10.02	7.51			8.54		
Beria, Matteo (ITA) (1996)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Italian National Indoor Youth Championships (Ancona, ITA) (91cm)										FIDAL - Centro Studi & Ricerche (2013) - www.youtube.com/watch?v=Xy9UwVfMj6g					
date	23-Feb-13	time	2.66	3.78	4.87	5.95	7.00				7.99	7 / 2			
reaction time		interval		1.12	1.09	1.08	1.05		0.99				3.29		
		velocity	5.16	8.16	8.39	8.46	8.70		9.82	7.51			8.33		
Tait, Emmanuel (USA)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)										CAA Hurdle Development (2020)					
date	15-Feb-20	time	2.63	3.75	4.85	5.92	7.04				7.99	2 / 6			
reaction time	0.158	interval		1.12	1.10	1.07	1.12		0.95				3.29		
		velocity	5.22	8.16	8.31	8.54	8.16		10.23	7.51			8.33		
Pawlowicz, Piotr (POL)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)										Aubert (1986) - indoor - video - haies, etude des performances					
date	26-Jan-86	time	2.68	3.79	4.89	5.97	7.10				8.00	1 / 1			
reaction time		interval		1.11	1.10	1.08	1.13		0.90				3.29		
		velocity	5.12	8.23	8.31	8.46	8.09		10.80	7.50			8.33		
Sun Haoru (CHN) (1998)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)										CAA Hurdle Development (2019)					
date	28-Feb-19	time	2.70	3.80	4.90	5.96	7.06				8.00	5 / 3			
reaction time		interval		1.10	1.10	1.06	1.10		0.94	PB			3.26		
		velocity	5.08	8.31	8.31	8.62	8.31		10.34	7.50			8.41		
Zhao Pengchuan (CHN) (1993)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)										CAA Hurdle Development (2019)					
date	20-Mar-19	time	2.64	3.75	4.84	5.92	7.02				8.00	2 / 4			
reaction time		interval		1.11	1.09	1.08	1.10		0.98				3.28		
		velocity	5.20	8.23	8.39	8.46	8.31		9.92	7.50			8.36		
Zhu Shenglong (CHN) (2000)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2020 Leonard Hilton Memorial Invitational (Houston, TX)										CAA Hurdle Development (2020)					
date	17-Jan-20	time	2.62	3.71	4.79	5.84	6.92				8.00	5 / 1			
reaction time		interval		1.09	1.08	1.05	1.08		1.08				3.22		
		velocity	5.24	8.39	8.46	8.70	8.46		9.00	7.50			8.52		
Sun Zhenjiang (CHN) (1999)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2024 Chinese Indoor Grand Prix I (Chengdu, CHN)										Shandong Athletics Sport Science (2024)					
date	27-Feb-24	time	2.69	3.80	4.89	5.97	7.07				8.00	6 / 2			
reaction time		interval	7 steps	1.11	1.09	1.08	1.10		0.93				3.28		
		velocity	5.10	8.23	8.39	8.46	8.31		10.45	7.50			8.36		

							Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Penáz, Petr (CZE) (1991)												
Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)												
date	25-Feb-12	time	2.75	3.85	4.92	5.97						
reaction time	0.168	interval		1.10	1.07	1.05	0.98				3.22	
		velocity	4.99	8.31	8.54	8.70	9.92	7.49			8.52	
Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles								8.01	4 / 1			
Sklenár, David (CZE) (1997)												
FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)												
date	14-Feb-15	time	2.71	3.81	4.89	5.95						
reaction time	0.184	interval		1.10	1.08	1.06	0.96				3.24	
		velocity	5.06	8.31	8.46	8.62	10.13	7.49			8.46	
Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs								8.01	6 / 2			
								PB				
Prescott, Matt (USA) (1984)												
Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)												
date	14-Feb-20	time	2.68	3.79	4.89	5.96						
reaction time	0.161	interval		1.11	1.10	1.07	0.95				3.28	
		velocity	5.12	8.23	8.31	8.54	10.23	7.49			8.36	
CAA Hurdle Development (2020)								8.01	4 / 6			
Lecoeur, Romain (FRA) (1997)												
Heat 1 - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)												
date	14-Feb-21	time	2.60	3.74	4.82	5.92						
reaction time	0.116	interval		1.14	1.08	1.10	1.03				3.32	
		velocity	5.28	8.02	8.46	8.31	9.44	7.49			8.26	
Henson (2021) - men's 60m hurdles world record season - Grant Holloway								8.01	2 / 3			
Laviolette, Jeanice (FRA) (2000)												
FINAL - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)												
date	14-Feb-21	time	2.60	3.68	4.74	5.84						
reaction time	0.158	interval		1.08	1.06	1.10	1.11				3.24	
		velocity	5.28	8.46	8.62	8.31	8.76	7.49			8.46	
Henson (2021) - men's 60m hurdles world record season - Grant Holloway								8.01	2 / 6			
Lööf, Filip (SWE) (1992)												
Heat 4 - 2013 European Indoor Championships (Göteborg, SWE)												
date	01-Mar-13	time	2.66	3.80	4.90	5.97						
reaction time	0.167	interval		1.14	1.10	1.07	0.94				3.31	
		velocity	5.16	8.02	8.31	8.54	10.34	7.48			8.28	
Blomkvist (2013) - www.elitlandslag.se/SprintHack/KortHack.aspx								8.02	2 / 7			
Clarico, Vincent (FRA) (1966)												
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)												
date	26-Jan-86	time	2.64	3.76	4.86	5.99						
reaction time		interval		1.12	1.10	1.13	0.94				3.35	
		velocity	5.20	8.16	8.31	8.09	10.34	7.47			8.19	
Aubert (1986) - indoor - video - haies, etude des performances								8.03	/ 3			
St. Gilles, Olivier (FRA) (1963)												
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)												
date	26-Jan-86	time	2.68	3.81	4.90	5.98						
reaction time		interval		1.13	1.09	1.08	0.96				3.30	
		velocity	5.12	8.09	8.39	8.46	10.13	7.47			8.31	
Aubert (1986) - indoor - video - haies, etude des performances								8.03	/ 4			
Guo Zhongjie (CHN) (2001)												
A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)												
date	20-Feb-19	time	2.73	3.82	4.90	6.00						
reaction time		interval		1.09	1.08	1.10	0.94				3.27	
		velocity	5.03	8.39	8.46	8.31	10.34	7.47			8.39	
CAA Hurdle Development (2019)								8.03	2 / 3			
								PB				
Jiang Fan (CHN) (1990)												
A-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)												
date	24-Feb-19	time	2.68	3.80	4.89	5.99						
reaction time		interval		1.12	1.09	1.10	0.94				3.31	
		velocity	5.12	8.16	8.39	8.31	10.34	7.47			8.28	
CAA Hurdle Development (2019)								8.03	5 / 3			
Tawiah, Casimir (USA) (1997)												
Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)												
date	14-Feb-20	time	2.70	3.80	4.90	5.98						
reaction time	0.168	interval		1.10	1.10	1.08	0.96				3.28	
		velocity	5.08	8.31	8.31	8.46	10.13	7.47			8.36	
CAA Hurdle Development (2020)								8.03	7 / 6			
Anderson, Joseph (USA) (1999)												
Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)												
date	15-Feb-20	time	2.68	3.78	4.88	5.97						
reaction time	0.171	interval		1.10	1.10	1.09	0.96				3.29	
		velocity	5.12	8.31	8.31	8.39	10.13	7.47			8.33	
CAA Hurdle Development (2020)								8.03	1 / 7			
Lu Yang (CHN) (1996)												

B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)

date	20-Feb-19	time	2.73	3.85	4.95	6.02	7.12
reaction time		interval		1.12	1.10	1.07	1.10
		velocity	5.03	8.16	8.31	8.54	8.31

8.04

CAA Hurdle Development (2019)

5 / 3

	0.92		3.29
	10.57	7.46	8.33

Guo Zhongjie (CHN) (2001)

H1 H2 H3 H4 H5

B-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)

date	24-Feb-19	time	2.70	3.82	4.90	5.97	7.10
reaction time		interval		1.12	1.08	1.07	1.13
		velocity	5.08	8.16	8.46	8.54	8.09

8.04

CAA Hurdle Development (2019)

4 / 1

	0.94		3.27
	10.34	7.46	8.39

Chavallier, Franck (FRA) (1964)

H1 H2 H3 H4 H5

Heat ? - 1986 French National Indoor Championships (Lievin, FRA)

date	25-Jan-86	time	2.67	3.77	4.88	5.98	7.08
reaction time		interval		1.10	1.11	1.10	1.10
		velocity	5.14	8.31	8.23	8.31	8.31

8.05

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Aubert (1986) - indoor - video - haies, etude des performances

/ 2

	0.97		3.31
	10.02	7.45	8.28

Kavka, Tomáš (CZE) (1989)

H1 H2 H3 H4 H5

FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)

date	25-Feb-12	time	2.74	3.88	4.94	6.01	7.10
reaction time	0.153	interval		1.14	1.06	1.07	1.09
		velocity	5.01	8.02	8.62	8.54	8.39

8.05

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

6 / 4

	0.95		3.27
	10.23	7.45	8.39

Yang Haoran (CHN) (2001)

H1 H2 H3 H4 H5

B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)

date	13-Mar-21	time	2.68	3.80	4.94	6.04	7.14
reaction time	0.154	interval		1.12	1.14	1.10	1.10
		velocity	5.12	8.16	8.02	8.31	8.31

8.05

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2021)

6 / 3

	0.91	PB	3.36
	10.68	7.45	8.16

Pawowicz, Piotr (POL)

H1 H2 H3 H4 H5

Heat ? - 1986 French National Indoor Championships (Lievin, FRA)

date	25-Jan-86	time	2.75	3.88	5.00	6.08	7.20
reaction time		interval		1.13	1.12	1.08	1.12
		velocity	4.99	8.09	8.16	8.46	8.16

8.06

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Aubert (1986) - indoor - video - haies, etude des performances

/ 1

	0.86		3.33
	11.30	7.44	8.23

Vésin, Yannick (FRA) (1954)

H1 H2 H3 H4 H5

Heat ? - 1986 French National Indoor Championships (Lievin, FRA)

date	25-Jan-86	time	2.64	3.78	4.88	5.95	7.07
reaction time		interval		1.14	1.10	1.07	1.12
		velocity	5.20	8.02	8.31	8.54	8.16

8.06

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Aubert (1986) - indoor - video - haies, etude des performances

/ 6

	0.99		3.31
	9.82	7.44	8.28

Blaschke, Joakim (SWE) (1977)

H1 H2 H3 H4 H5

FINAL - 2011 Landskamp FIN-SWE-NOR (Tampere, FIN)

date	05-Feb-11	time	2.60	3.72	4.80	5.90	7.00
reaction time		interval		1.12	1.08	1.10	1.10
		velocity	5.28	8.16	8.46	8.31	8.31

8.06

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Blomkvist (2011) - www.sub13.se

5 / 4

	1.06		3.30
	9.17	7.44	8.31

Helcelet, Adam Sebastian (CZE) (199)

H1 H2 H3 H4 H5

FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)

date	25-Feb-12	time	2.70	3.83	4.88	5.97	7.09
reaction time	0.140	interval		1.13	1.05	1.09	1.12
		velocity	5.08	8.09	8.70	8.39	8.16

8.06

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

7 / 5

	0.97		3.27
	10.02	7.44	8.39

Lei Yiwen (CHN) (1993)

H1 H2 H3 H4 H5

A-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)

date	28-Feb-19	time	2.64	3.74	4.86	5.96	7.08
reaction time		interval		1.10	1.12	1.10	1.12
		velocity	5.20	8.31	8.16	8.31	8.16

8.06

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2019)

2 / 3

	0.98		3.32
	9.92	7.44	8.26

Rooney, Taylor (USA) (1999)

H1 H2 H3 H4 H5

Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

date	14-Feb-20	time	2.70	3.82	4.89	5.99	7.09
reaction time	0.219	interval	7 Steps	1.12	1.07	1.10	1.10
		velocity	5.08	8.16	8.54	8.31	8.31

8.06

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2020)

5 / 5

	0.97		3.29
	10.02	7.44	8.33

St. Gilles, Olivier (FRA) (1963)

H1 H2 H3 H4 H5

Heat ? - 1986 French National Indoor Championships (Lievin, FRA)

date	25-Jan-86	time	2.78	3.90	5.02	6.10	7.20
reaction time		interval		1.12	1.12	1.08	1.10
		velocity	4.94	8.16	8.16	8.46	8.31

8.07

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Aubert (1986) - indoor - video - haies, etude des performances

/ 4

	0.87		3.32
	11.17	7.43	8.26

Wu Zhenhua (CHN) (1998)

H1 H2 H3 H4 H5

B-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2019)

date	4-Mar-19	time	2.66	3.80	4.91	6.03	7.11
reaction time		interval		1.14	1.11	1.12	1.08
		velocity	5.16	8.02	8.23	8.16	8.46

	8.07	5 / 3
	PB	3.37
	10.13	7.43
		8.14

Clarico, Vincent (FRA) (1966)

Heat ? - 1986 French National Indoor Championships (Lievin, FRA)							
date	25-Jan-86	time	2.62	3.76	4.88	6.01	7.12
reaction time		interval		1.14	1.12	1.13	1.11
		velocity	5.24	8.02	8.16	8.09	8.23

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
			Aubert (1986) - indoor - video - haies, etude des performances		
	8.08	/ 3			
	0.96				3.39
	10.13	7.43			8.09

Chavallier, Franck (FRA) (1964)

Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)							
date	26-Jan-86	time	2.72	3.82	4.95	6.05	7.14
reaction time		interval		1.10	1.13	1.10	1.09
		velocity	5.04	8.31	8.09	8.31	8.39

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
			Aubert (1986) - indoor - video - haies, etude des performances		
	8.08	/ 2			
	0.94				3.33
	10.34	7.43			8.23

Gabriel, G.

Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)							
date	26-Jan-86	time	2.66	3.76	4.91	6.01	7.10
reaction time		interval		1.10	1.15	1.10	1.09
		velocity	5.16	8.31	7.95	8.31	8.39

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
			Aubert (1986) - indoor - video - haies, etude des performances		
	8.08	/ 5			
	0.98				3.35
	9.92	7.43			8.19

Kijanica, Michael (CZE) (1998)

		111	112	113	114	115	
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)							
date	14-Feb-15	time	2.68	3.81	4.90	6.00	7.09
reaction time	0.175	interval		1.13	1.09	1.10	1.09
		velocity	5.12	8.09	8.39	8.31	8.39

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
			Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs		
	8.08	5 / 1			
	0.99				3.32
	9.82	7.43			8.26

Snell, Errik (USA)

Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)			111	112	113	114	115
date	14-Feb-20	time	2.65	3.77	4.90	5.98	7.11
reaction time	0.159	interval		1.12	1.13	1.08	1.13
		velocity	5.18	8.16	8.09	8.46	8.09

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
			CAA Hurdle Development (2020)		
	8.08	6 / 7			
	0.97				3.33
	10.02	7.43			8.23

Richard, Thierry (FRA) (1961)

FINAL - 1986 French National Indoor Championships (Lievin, FRA)							
date	26-Jan-86	time	2.59	3.66	4.75	5.84	7.00
reaction time		interval		1.07	1.09	1.09	1.16
		velocity	5.30	8.54	8.39	8.39	7.88

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
			Aubert (1986) - indoor - video - haies, etude des performances		
	8.09	/ 5			
	1.09				3.25
	8.92	7.42			8.44

Kavka, Tomáš (CZE) (1989)

Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)							
date	25-Feb-12	time	2.75	3.87	4.95	6.02	7.11
reaction time	0.143	interval		1.12	1.08	1.07	1.09
		velocity	4.99	8.16	8.46	8.54	8.39

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
			Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles		
	8.09	3 / 2			
	0.98				3.27
	9.92	7.42			8.39

Kimball, Patrick (USA) (1998)

Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)							
date	14-Feb-20	time	2.68	3.80	4.92	5.99	7.09
reaction time	0.156	interval		1.12	1.12	1.07	1.10
		velocity	5.12	8.16	8.16	8.54	8.31

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
			CAA Hurdle Development (2020)		
	8.09	7 / 6			
	1.00				3.31
	9.72	7.42			8.28

Tawiah, Casimir (USA) (1997)

Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)							
date	15-Feb-20	time	2.68	3.80	4.92	6.00	7.15
reaction time	0.162	interval	7 Steps	1.12	1.12	1.08	1.15
		velocity	5.12	8.16	8.16	8.46	7.95

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
			CAA Hurdle Development (2020)		
	8.09	8 / 8			
	0.94				3.32
	10.34	7.42			8.26

Yang Jianxing (CHN) (1996)

A-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)							
date	24-Feb-19	time	2.68	3.82	4.94	6.04	7.16
reaction time		interval		1.14	1.12	1.10	1.12
		velocity	5.12	8.02	8.16	8.31	8.16

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
			CAA Hurdle Development (2019)		
	8.10	2 / 4			0.00
	0.94				3.36
	10.34	7.41			8.16

Yang Quanlei (CHN) (1999)

B-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)							
date	28-Feb-19	time	2.67	3.81	4.91	6.01	7.15
reaction time		interval		1.14	1.10	1.10	1.14
		velocity	5.14	8.02	8.31	8.31	8.02

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
			CAA Hurdle Development (2019)		
	8.10	2 / 4			
	0.95				3.34
	10.23	7.41			8.21

Holloway, Trey (USA) (1994)

		H1	H2	H3	H4	H5
FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis)						
date	24-Jan-21	time	2.57	3.76	5.97	7.03

Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
			Henson (2021) - men's 60m hurdles world record season - Grant Holloway		
	8.10	1 / 7			

reaction time 0.166 interval 7 steps 1.19 2.21 1.06
velocity 5.34 7.68 8.27 8.62

1.07 3.40
9.08 7.41 8.06

Boussemart, Pascal (FRA) (1959)

H1 H2 H3 H4 H5
FINAL - 1986 French National Indoor Championships (Lievín, FRA)
date 26-Jan-86 time 2.63 3.69 4.83 6.00 7.14
reaction time interval 1.06 1.14 1.17 1.14
velocity 5.22 8.62 8.02 7.81 8.02

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Aubert (1986) - indoor - video - haies, etude des performances
8.11 / 6
0.97 3.37
10.02 7.40 8.14

Olson, Petter (SWE) (1991)

H1 H2 H3 H4 H5
Heptathlon - Heat 1 - 2013 European Indoor Championships (Göteborg, SWE)
date 03-Mar-13 time 2.70 3.85 4.95 6.05 7.16
reaction time interval 1.15 1.10 1.10 1.11
velocity 5.08 7.95 8.31 8.31 8.23

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx
8.11 4 / 2
0.95 3.35
10.23 7.40 8.19

Desensky, Lukáš (CZE) (1998)

H1 H2 H3 H4 H5
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)
date 14-Feb-15 time 2.71 3.83 4.96 6.06 7.17
reaction time interval 1.12 1.13 1.10 1.11
velocity 5.06 8.16 8.09 8.31 8.23

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs
8.11 2 / 2
0.94 3.35
10.34 7.40 8.19

Mališka, Rostislav (CZE) (1998)

H1 H2 H3 H4 H5
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)
date 14-Feb-15 time 2.73 3.85 4.95 6.04 7.15
reaction time interval 1.12 1.10 1.09 1.11
velocity 5.03 8.16 8.31 8.39 8.23

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs
8.11 4 / 3
0.96 3.31
10.13 7.40 8.28

Zhang Tao (CHN) (1997)

H1 H2 H3 H4 H5
A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)
date 20-Feb-19 time 2.71 3.82 4.92 6.00 7.14
reaction time interval 1.11 1.10 1.08 1.14
velocity 5.06 8.23 8.31 8.46 8.02

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
CAA Hurdle Development (2019)
8.12 3 / 4
0.98 3.29
9.92 7.39 8.33

Yang Yuxuan (CHN) (2002)

H1 H2 H3 H4 H5
B-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)
date 24-Feb-19 time 2.73 3.85 4.99 6.09 7.20
reaction time interval 1.12 1.14 1.10 1.11
velocity 5.03 8.16 8.02 8.31 8.23

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
CAA Hurdle Development (2019)
8.12 5 / 2
0.92 3.36
10.57 7.39 8.16

Stavang, Eivind (NOR) (1982)

H1 H2 H3 H4 H5
FINAL - 2011 Landskamp FIN-SWE-NOR (Tampere, FIN)
date 05-Feb-11 time 2.60 3.76 4.86 5.96 7.08
reaction time interval 1.16 1.10 1.10 1.12
velocity 5.28 7.88 8.31 8.31 8.16

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Blomkvist (2011) - www.sub13.se
8.13 6 / 5
1.05 3.36
9.26 7.38 8.16

Helcelet, Adam Sebastian (CZE) (1996)

H1 H2 H3 H4 H5
Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)
date 25-Feb-12 time 2.69 3.82 4.90 5.96 7.13
reaction time interval 1.13 1.08 1.06 1.17
velocity 5.10 8.09 8.46 8.62 7.81

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles
8.13 5 / 2
1.00 3.27
9.72 7.38 8.39

Sparrman, Markus (SWE) (1989)

H1 H2 H3 H4 H5
Heat 2 - 2010 Samsung Galan (Göteborg, SWE)
date 02-Feb-10 time 2.56 3.72 4.86 5.96 7.10
reaction time interval 1.16 1.14 1.10 1.14
velocity 5.36 7.88 8.02 8.31 8.02

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Blomkvist (2010) - www.sub13.se
8.14 / 5
1.04 3.40
9.35 7.37 8.06

Krivák, Dominik (CZE) (1999)

H1 H2 H3 H4 H5
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)
date 14-Feb-15 time 2.65 3.77 4.90 6.03 7.16
reaction time interval 1.12 1.13 1.13 1.13
velocity 5.18 8.16 8.09 8.09 8.09

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs
8.14 8 / 4
0.98 3.38
9.92 7.37 8.11

Jiang Fan (CHN) (1990)

H1 H2 H3 H4 H5
FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)
date 14-Feb-20 time 2.70 3.82 4.90 6.01 7.11
reaction time interval 1.12 1.08 1.11 1.10
velocity 5.08 8.16 8.46 8.23 8.31

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
CAA Hurdle Development (2020)
8.14 2 / 6
1.03 3.31
9.44 7.37 8.28

Askros, Rafael (SWE) (1981)

H1 H2 H3 H4 H5
FINAL - 2011 Landskamp FIN-SWE-NOR (Tampere, FIN)
date 05-Feb-11 time 2.68 3.86 4.94 6.04 7.12
reaction time interval 1.18 1.08 1.10 1.08

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Blomkvist (2011) - www.sub13.se
8.15 2 / 6
1.03 3.36

velocity 5.12 7.75 8.46 8.31 8.46

9.44 7.36 8.16

Li Huaihai (CHN) (1999)**H1 H2 H3 H4 H5****B-FINAL** - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)

date 24-Feb-19 time 2.67 3.80 4.89 6.03 7.15
 reaction time interval 1.13 1.09 1.14 1.12
 velocity 5.14 8.09 8.39 8.02 8.16

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2019)

2 / 3
 8.15
 1.00 PB 3.36
 9.72 7.36 8.16

Sun Haoru (CHN) (1998)**H1 H2 H3 H4 H5****FINAL** - 2021 National Indoor Grand Prix (Jinan, CHN)

date 18-Mar-21 time 2.77 3.89 4.98 6.09 7.17
 reaction time 0.188 interval 1.12 1.09 1.11 1.08
 velocity 4.95 8.16 8.39 8.23 8.46

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2021)

1 / 5
 8.15
 0.98 3.32
 9.92 7.36 8.26

Gabriel, G.**H1 H2 H3 H4 H5****Heat ?** - 1986 French National Indoor Championships (Lieviv, FRA)

date 25-Jan-86 time 2.70 3.85 4.98 6.08 7.24
 reaction time interval 1.15 1.13 1.10 1.16
 velocity 5.08 7.95 8.09 8.31 7.88

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Aubert (1986) - indoor - video - haies, etude des performances

8.16 / 5
 0.92 3.38
 10.57 7.35 8.11

Golaube, Kamal (USA)**H1 H2 H3 H4 H5****Heat 1** - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

date 14-Feb-20 time 2.63 3.75 4.89 6.00 7.12
 reaction time 0.130 interval 1.12 1.14 1.11 1.12
 velocity 5.22 8.16 8.02 8.23 8.16

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2020)

5 / 7
 8.16
 1.04 3.37
 9.35 7.35 8.14

Pokorny, Martin (CZE) (1988)**H1 H2 H3 H4 H5****FINAL** - 2012 Czech Republic National Indoor Championships (Praha, CZE)

date 25-Feb-12 time 2.72 3.84 4.94 6.03 7.14
 reaction time 0.156 interval 1.12 1.10 1.09 1.11
 velocity 5.04 8.16 8.31 8.39 8.23

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

8.17 1 / 6
 1.03 3.31
 9.44 7.34 8.28

Lu Wei (CHN) (2000)**H1 H2 H3 H4 H5****B-FINAL** - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)

date 24-Feb-19 time 2.77 3.89 4.99 6.09 7.19
 reaction time interval 1.12 1.10 1.10 1.10
 velocity 4.95 8.16 8.31 8.31 8.31

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2019)

3 / 4
 8.17
 0.98 3.32
 9.92 7.34 8.26

Gonigam, Philippe (FRA) (1963)**H1 H2 H3 H4 H5****Heat ?** - 1986 French National Indoor Championships (Lieviv, FRA)

date 25-Jan-86 time 2.72 3.84 4.96 6.07 7.20
 reaction time interval 1.12 1.12 1.11 1.13
 velocity 5.04 8.16 8.16 8.23 8.09

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Aubert (1986) - indoor - video - haies, etude des performances

8.18 / 5
 0.98 3.35
 9.92 7.33 8.19

Nejedly, Adam (CZE) (1988)**H1 H2 H3 H4 H5****Heat 3** - 2012 Czech Republic National Indoor Championships (Praha, CZE)

date 25-Feb-12 time 2.75 3.91 5.01 6.12 7.23
 reaction time 0.137 interval 1.16 1.10 1.11 1.11
 velocity 4.99 7.88 8.31 8.23 8.23

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

8.18 3 / 3
 0.95 3.37
 10.23 7.33 8.14

Viala, Didier (FRA)**H1 H2 H3 H4 H5****Heat ?** - 1986 French National Indoor Championships (Lieviv, FRA)

date 25-Jan-86 time 2.69 3.82 4.94 6.08 7.22
 reaction time interval 1.13 1.12 1.14 1.14
 velocity 5.10 8.09 8.16 8.02 8.02

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Aubert (1986) - indoor - video - haies, etude des performances

8.19 / 6
 0.97 3.39
 10.02 7.33 8.09

Yang Yuxuan (CHN) (2002)**H1 H2 H3 H4 H5****B-FINAL** - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)

date 20-Feb-19 time 2.75 3.85 4.95 6.02 7.12
 reaction time interval 1.10 1.10 1.07 1.10
 velocity 4.99 8.31 8.31 8.54 8.31

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2019)

2 / 4
 8.19
 1.07 3.27
 9.08 7.33 8.39

Prescott, Matt (USA) (1984)**H1 H2 H3 H4 H5****Semi-Final 1** - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

date 15-Feb-20 time 2.72 3.83 4.92 6.05 7.17
 reaction time 0.159 interval 1.11 1.09 1.13 1.12
 velocity 5.04 8.23 8.39 8.09 8.16

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

CAA Hurdle Development (2020)

8 / 8
 8.19
 1.02 3.33
 9.53 7.33 8.23

Sedláček, Pavel (CZE) (1983)**H1 H2 H3 H4 H5****Heat 1** - 2012 Czech Republic National Indoor Championships (Praha, CZE)

date 25-Feb-12 time 2.66 3.80 4.90 6.04 7.18
 reaction time 0.135 interval 1.14 1.10 1.14 1.14
 velocity 5.16 8.02 8.31 8.02 8.02

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

8.20 5 / 2
 1.02 3.38
 9.53 7.32 8.11

Pokorny, Martin (CZE) (1988)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)										<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>					
date	25-Feb-12	time	2.71	3.85	4.95	6.06	7.17				8.20	6 / 4			
reaction time	0.154	interval		1.14	1.10	1.11	1.11			1.03			3.35		
		velocity	5.06	8.02	8.31	8.23	8.23			9.44	7.32		8.19		
Bárta, Dan (CZE) (1998)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)										<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs</i>					
date	14-Feb-15	time	2.70	3.86	5.00	6.09	7.23				8.20	6 / 5			
reaction time	0.158	interval		1.16	1.14	1.09	1.14			0.97			3.39		
		velocity	5.08	7.88	8.02	8.39	8.02			10.02	7.32		8.09		
Sedláč, Pavel (CZE) (1983)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)										<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>					
date	25-Feb-12	time	2.67	3.80	4.89	6.02	7.16				8.23	8 / 7			
reaction time	0.149	interval		1.13	1.09	1.13	1.14			1.07			3.35		
		velocity	5.14	8.09	8.39	8.09	8.02			9.08	7.29		8.19		
Monzar, Daniel (CZE) (1997)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)										<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs</i>					
date	14-Feb-15	time	2.77	3.91	5.03	6.15	7.28				8.23	7 / 3			
reaction time	0.182	interval		1.14	1.12	1.12	1.13			0.95	PB		3.38		
		velocity	4.95	8.02	8.16	8.16	8.09			10.23	7.29		8.11		
Zhang Shuai (CHN) (1996)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)										<i>CAA Hurdle Development (2019)</i>					
date	4-Mar-19	time	2.70	3.79	4.96	6.08	7.21				8.26	4 / 4			
reaction time		interval		1.09	1.17	1.12	1.13			1.05			3.38		
		velocity	5.08	8.39	7.81	8.16	8.09			9.26	7.26		8.11		
Haloun, Lukáš (CZE) (1991)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)										<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>					
date	25-Feb-12	time	2.70	3.86	5.00	6.13	7.30				8.27	2 / 3			
reaction time	0.122	interval		1.16	1.14	1.13	1.17			0.97			3.43		
		velocity	5.08	7.88	8.02	8.09	7.81			10.02	7.26		7.99		
Krejčí, Michal (CZE) (1981)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)										<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>					
date	25-Feb-12	time	2.76	3.90	5.04	6.16	7.28				8.27	5 / 3			
reaction time	0.108	interval		1.14	1.14	1.12	1.12			0.99			3.40		
		velocity	4.97	8.02	8.02	8.16	8.16			9.82	7.26		8.06		
Lukáš, Marek (CZE) (1991)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)										<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>					
date	25-Feb-12	time	2.66	3.83	4.99	6.14	7.29				8.27	2 / 4			
reaction time	0.111	interval		1.17	1.16	1.15	1.15			0.98			3.48		
		velocity	5.16	7.81	7.88	7.95	7.95			9.92	7.26		7.88		
Nejedlý, Adam (CZE) (1988)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)										<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>					
date	25-Feb-12	time	2.78	3.95	5.06	6.20	7.29				8.27	2 / 8			
reaction time	0.187	interval		1.17	1.11	1.14	1.09			0.98			3.42		
		velocity	4.94	7.81	8.23	8.02	8.39			9.92	7.26		8.02		
Blaschke, Joakim (SWE) (1977)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2010 Samsung Galan (Göteborg, SWE)										<i>Blomkvist (2010) - www.sub13.se</i>					
date	02-Feb-10	time	2.60	3.76	4.90	6.04	7.18				8.29	1 / 6			
reaction time		interval		1.16	1.14	1.14	1.14			1.11			3.44		
		velocity	5.28	7.88	8.02	8.02	8.02			8.76	7.24		7.97		
Smolka, Adam (CZE) (1998)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)										<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs</i>					
date	14-Feb-15	time	2.74	3.89	5.00	6.14	7.28				8.29	3 / 6			
reaction time	0.153	interval		1.15	1.11	1.14	1.14			1.01			3.40		
		velocity	5.01	7.95	8.23	8.02	8.02			9.62	7.24		8.06		
Rosenquist, Fabian (SWE) (1991)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 1 - 2013 European Indoor Championships (Göteborg, SWE)										<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>					
date	03-Mar-13	time	2.72	3.85	4.97	6.07	7.21				8.30	7 / 3			
reaction time	0.138	interval		1.13	1.12	1.10	1.14			1.09			3.35		
		velocity	5.04	8.09	8.16	8.31	8.02			8.92	7.23		8.19		

Svoboda, Lukáš (CZE) (1998)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10			
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)										<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs</i>			
date	14-Feb-15	time	2.73	3.87	5.02	6.13	7.26			8.30	7 / 7		
reaction time	0.158	interval		1.14	1.15	1.11	1.13		1.04			3.40	
		velocity	5.03	8.02	7.95	8.23	8.09		9.35	7.23		8.06	
Xu Zhuoyi (CHN) (2003)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10			
FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)										<i>CAA Hurdle Development (2021)</i>			
date	18-Mar-21	time	2.76	3.90	5.03	6.15	7.29			8.30	2 / 6		
reaction time	0.171	interval		1.14	1.13	1.12	1.14		1.01			3.39	
		velocity	4.97	8.02	8.09	8.16	8.02		9.62	7.23		8.09	
Hedvičák, Jaroslav (CZE) (1990)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10			
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)										<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>			
date	25-Feb-12	time	2.74	3.90	5.05	6.18	7.33			8.32	6 / 4		
reaction time	0.149	interval		1.16	1.15	1.13	1.15		0.99			3.44	
		velocity	5.01	7.88	7.95	8.09	7.95		9.82	7.21		7.97	
Jelínek, Erik (CZE) (1998)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10			
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)										<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs</i>			
date	14-Feb-15	time	2.78	3.94	5.06	6.19	7.31			8.33	1 / 8		
reaction time	0.153	interval		1.16	1.12	1.13	1.12		1.02			3.41	
		velocity	4.94	7.88	8.16	8.09	8.16		9.53	7.20		8.04	
Li Guancheng (CHN) (2002)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10			
A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)										<i>CAA Hurdle Development (2021)</i>			
date	13-Mar-21	time	2.70	3.92	5.08	6.22	7.35			8.34	2 / 3		
reaction time	0.201	interval		1.22	1.16	1.14	1.13		0.99	PB		3.52	
		velocity	5.08	7.49	7.88	8.02	8.09		9.82	7.19		7.79	
Ján, Jan (CZE) (1993)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10			
Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)										<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>			
date	25-Feb-12	time	2.75	3.92	5.04	6.21	7.34			8.39	2 / 5		
reaction time	0.141	interval		1.17	1.12	1.17	1.13		1.05			3.46	
		velocity	4.99	7.81	8.16	7.81	8.09		9.26	7.15		7.92	
Pirochta, Tomáš (CZE) (1997)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10			
FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)										<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs</i>			
date	14-Feb-15	time	2.75	3.91	5.06	6.24	7.42			8.42	2 / 4		
reaction time	0.284	interval		1.16	1.15	1.18	1.18		1.00			3.49	
		velocity	4.99	7.88	7.95	7.75	7.75		9.72	7.13		7.86	
Lai Junjie (CHN) (2003)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10			
B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)										<i>CAA Hurdle Development (2021)</i>			
date	13-Mar-21	time	2.80	3.98	5.14	6.28	7.44			8.48	5 / 4		
reaction time	0.197	interval		1.18	1.16	1.14	1.16		1.04			3.48	
		velocity	4.90	7.75	7.88	8.02	7.88		9.35	7.08		7.88	
Carda, Jan (CZE) (1989)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10			
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)										<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>			
date	25-Feb-12	time	2.76	3.90	5.04	6.16	7.40			8.51	3 / 5		
reaction time	0.157	interval		1.14	1.14	1.12	1.24		1.11			3.40	
		velocity	4.97	8.02	8.02	8.16	7.37		8.76	7.05		8.06	
Šimánek, Jindřich (CZE) (1979)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10			
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)										<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>			
date	25-Feb-12	time	2.85	4.01	5.19	6.35	7.52			8.55	7 / 6		
reaction time	0.189	interval		1.16	1.18	1.16	1.17		1.03			3.50	
		velocity	4.81	7.88	7.75	7.88	7.81		9.44	7.02		7.83	
Frolík, Petr (CZE) (1991)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10			
Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)										<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>			
date	25-Feb-12	time	2.82	4.01	5.19	6.37	7.54			8.56	7 / 6		
reaction time	0.172	interval		1.19	1.18	1.18	1.17		1.02			3.55	
		velocity	4.87	7.68	7.75	7.75	7.81		9.53	7.01		7.72	
Odvárka, Jirí (CZE) (1996)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10			
FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)										<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs</i>			
date	14-Feb-15	time	2.74	4.04	5.24	6.41	7.59			8.57	4 / 5		
reaction time	0.148	interval		1.30	1.20	1.17	1.18		0.98			3.67	
		velocity	5.01	7.03	7.62	7.81	7.75		9.92	7.00		7.47	
Sekyra, Daniel (CZE) (1996)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10			

FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)

date	14-Feb-15	time	2.84	4.00	5.19	6.37	7.57
reaction time	0.191	interval		1.16	1.19	1.18	1.20
		velocity	4.83	7.88	7.68	7.75	7.62

Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs

	8.61	1 / 6	
	1.04		3.53
	9.35	6.97	7.77

Hunčovsky, Ondrej (CZE) (1990)**Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)**

date	25-Feb-12	time	2.80	4.01	5.22	6.42	7.62
reaction time	0.141	interval		1.21	1.21	1.20	1.20
		velocity	4.90	7.55	7.55	7.62	7.62

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles*

	8.67	7 / 5	
	1.05		3.62
	9.26	6.92	7.57

Vondráček, Jan (CZE) (1991)**Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)**

date	25-Feb-12	time	2.88	4.06	5.27	6.48	7.66
reaction time	0.157	interval		1.18	1.21	1.21	1.18
		velocity	4.76	7.75	7.55	7.55	7.75

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles*

	8.68	1 / 6	
	1.02		3.60
	9.53	6.91	7.62

Juránek, Martin (CZE) (1991)**Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)**

date	25-Feb-12	time	2.85	4.06	5.29	6.54	7.76
reaction time	0.174	interval		1.21	1.23	1.25	1.22
		velocity	4.81	7.55	7.43	7.31	7.49

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles*

	8.78	1 / 7	
	1.02		3.69
	9.53	6.83	7.43

Špičák, Daniel (CZE) (1997)**FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)**

date	14-Feb-15	time	2.78	3.95	5.12	6.33	7.65
reaction time	0.138	interval		1.17	1.17	1.21	1.32
		velocity	4.94	7.81	7.81	7.55	6.92

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs*

	8.79	5 / 7	
	1.14		3.55
	8.53	6.83	7.72

Král, Aleš (CZE) (1996)**Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)**

date	25-Feb-12	time	2.87	4.09	5.32	6.54	7.77
reaction time	0.202	interval		1.22	1.23	1.22	1.23
		velocity	4.78	7.49	7.43	7.49	7.43

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles*

	8.84	1 / 7	
	1.07		3.67
	9.08	6.79	7.47

Dinga, Libor (CZE) (1984)**Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)**

date	25-Feb-12	time	2.92	4.15	5.38	6.60	7.85
reaction time	0.174	interval		1.23	1.23	1.22	1.25
		velocity	4.70	7.43	7.43	7.49	7.31

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles*

	8.92	8 / 8	
	1.07		3.68
	9.08	6.73	7.45

Lindhart, David (CZE) (1989)**Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)**

date	25-Feb-12	time	2.92	4.15	5.37	6.60	7.83
reaction time	0.175	interval		1.23	1.22	1.23	1.23
		velocity	4.70	7.43	7.49	7.43	7.43

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles*

	8.93	8 / 8	
	1.10		3.68
	8.84	6.72	7.45

Luo Xinyu (CHN) (2002)**B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)**

date	13-Mar-21	time	2.85	4.14	5.38	6.66	7.92
reaction time	0.199	interval		1.29	1.24	1.28	1.26
		velocity	4.81	7.09	7.37	7.14	7.25

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*CAA Hurdle Development (2021)*

	9.00	4 / 5	
	1.08	PB	3.81
	9.00	6.67	7.20

Šebrie, Roman (CZE) (1974)**Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)**

date	25-Feb-12	time	2.85	4.07	5.30	6.54	7.83
reaction time	0.140	interval		1.22	1.23	1.24	1.29
		velocity	4.81	7.49	7.43	7.37	7.09

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles*

	9.05	8 / 7	
	1.22		3.69
	7.97	6.63	7.43

Sykora, Miroslav (CZE) (1997)**FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)**

date	14-Feb-15	time	2.90	4.08	5.64	7.06	8.66
reaction time	0.162	interval		1.18	1.56	1.42	1.60
		velocity	4.73	7.75	5.86	6.44	5.71

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs*

	10.20	8 / 8	
	1.54		4.16
	6.31	5.88	6.59

Si Zhengdong (CHN) (1997)**A-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)**

date	28-Feb-19	time	2.62				
reaction time		interval					
		velocity	5.24				

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*CAA Hurdle Development (2019)***DQ** 5 / --**Belocian, Wilhem (FRA) (1995)****FINAL - 2021 Meeting Elite en Salle de Metz (Metz, FRA)****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10***Vazel (2021) - <https://twitter.com/pjvazel/status/1358428540241399810>*

								352 of 352	M110H time
date	06-Feb-21	time	2.53	3.55	4.54	5.61	dnf	3 / --	
reaction time		interval	1.02	0.99	1.07				3.08
		velocity	5.42	8.96	9.23	8.54			8.90

