

Women's 100m Hurdles Touchdown Times - by athlete

LAST UPDATE: 5-Mar-25

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Abdul-Rashid, Mariam (CAN) (1997)																		
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)		<i>Paris 2024 Olympic Games - Results Book (2024)</i>																
date	09-Aug-24	time	2.42	3.46	4.45	5.41	6.37	7.33	8.30	9.28	10.30	11.32		12.60	3 / 5			
reaction time	0.133	interval		1.04	0.99	0.96	0.96	0.96	0.97	0.98	1.02	1.02	1.28	PB		2.99	2.89	3.02
wind	0.5 m/s	velocity	5.37	8.17	8.59	8.85	8.85	8.85	8.76	8.67	8.33	8.33	7.85	7.94		8.53	8.82	8.44
Heat 3 - 2024 Olympic Games (Paris, FRA)		<i>Paris 2024 Olympic Games - Results Book (2024)</i>																
date	07-Aug-24	time	2.47	3.52	4.53	5.52	6.50	7.47	8.44	9.44	10.46	11.51		12.80	2 / 5			
reaction time	0.149	interval		1.05	1.01	0.99	0.98	0.97	0.97	1.00	1.02	1.05	1.29			3.05	2.92	3.07
wind	0.8 m/s	velocity	5.26	8.10	8.42	8.59	8.67	8.76	8.76	8.50	8.33	8.10	7.79	7.81		8.36	8.73	8.31
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)		<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>																
date	04-Feb-24	time	2.55	3.57	4.57	5.60	6.62							8.06	1 / 8			
reaction time	0.125	interval		1.02	1.00	1.03	1.02						1.44	PB		3.05		
		velocity	5.10	8.33	8.50	8.25	8.33						9.03	7.44		8.36		
Abe, Haruka (JPN) (1994)																		
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	2.59	3.68	4.74	5.76	6.82	7.89	8.94	10.01	11.10	12.20		13.38	4 / 2			
reaction time	0.122	interval		1.09	1.06	1.02	1.06	1.07	1.05	1.07	1.09	1.10	1.18			3.17	3.18	3.26
wind	2.1 m/s	velocity	5.02	7.80	8.02	8.33	8.02	7.94	8.10	7.94	7.80	7.73	8.90	7.47		8.04	8.02	7.82
Adachi, Karen (JPN) (2001)																		
A FINAL - 2018 National Sports Festival (Fukui, JPN)		<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>																
date	08-Oct-18	time	2.75	3.82	4.89	5.96	7.02	8.07	9.14	10.24	11.33	12.45		13.64	6 / 5			
reaction time	0.145	interval		1.07	1.07	1.07	1.06	1.05	1.07	1.10	1.09	1.12	1.19	=PB		3.21	3.18	3.31
wind	2.5 m/s	velocity	4.73	7.94	7.94	7.94	8.02	8.10	7.94	7.73	7.80	7.59	8.82	7.33		7.94	8.02	7.70
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)		<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data</i>																
date	02-Aug-18	time	2.71	3.80	4.87	5.92	6.99	8.07	9.15	10.23	11.32	12.44		13.64	4 / 2			
reaction time		interval		1.09	1.07	1.05	1.07	1.08	1.08	1.08	1.09	1.12	1.20	PB		3.21	3.23	3.29
wind	-0.3 m/s	velocity	4.80	7.80	7.94	8.10	7.94	7.87	7.87	7.87	7.80	7.59	8.75	7.33		7.94	7.89	7.75
Adams, Jenny (USA) (1978)																		
FINAL - 2007 USATF National Championships (Indianapolis, IN)		<i>USATF Men's Hurdle Development (2007)</i>																
date	23-Jun-07	time	2.67	3.69	4.70	5.69	6.71	7.70	8.73	9.73	10.76	11.81		12.96	1 / 6			
reaction time		interval		1.02	1.01	0.99	1.02	0.99	1.03	1.00	1.03	1.05	1.15			3.02	3.04	3.08
wind	-1.3 m/s	velocity	4.87	8.33	8.42	8.59	8.33	8.59	8.25	8.50	8.25	8.10	9.13	7.72		8.44	8.39	8.28
FINAL - 2006 USATF National Championships (Indianapolis, IN)		<i>USATF Women's Hurdle Development (2006)</i>																
date	24-Jun-06	time	2.60	3.64	4.62	5.61	6.57	7.56	8.54	9.54	10.56	11.61		12.75	5 / 4			
reaction time		interval		1.04	0.98	0.99	0.96	0.99	0.98	1.00	1.02	1.05	1.14			3.01	2.93	3.07
wind	-0.4 m/s	velocity	5.00	8.17	8.67	8.59	8.85	8.59	8.67	8.50	8.33	8.10	9.21	7.84		8.47	8.70	8.31
FINAL - 2003 USATF National Championships (Palo Alto, CA)		<i>USATF Women's Sprint Development (2003)</i>																
date	22-Jun-03	time	2.55	3.57	4.54	5.52	6.50	7.45	8.44	9.43	10.44	11.49		12.68	7 / 3			
reaction time		interval		1.02	0.97	0.98	0.98	0.95	0.99	0.99	1.01	1.05	1.19			2.97	2.92	3.05
wind	-0.1 m/s	velocity	5.10	8.33	8.76	8.67	8.67	8.95	8.59	8.59	8.42	8.10	8.82	7.89		8.59	8.73	8.36
FINAL - 2001 IAAF World Championships (Edmonton, CAN)		<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>																
date	11-Aug-01	time	2.63	3.63	4.59	5.55	6.51	7.47	8.43	9.39	10.45	11.48		12.63	4 / 5			
reaction time	0.148	interval		1.00	0.96	0.96	0.96	0.96	0.96	0.96	1.06	1.03	1.15	PB		2.92	2.88	3.05
wind	2.0 m/s	velocity	4.94	8.50	8.85	8.85	8.85	8.85	8.85	8.85	8.02	8.25	9.13	7.92		8.73	8.85	8.36
FINAL - 1996 USATF National Junior Championships (Delaware, OH)		<i>USATF Women's Sprint Development (1996)</i>																
date	29-Jun-96	time	2.58	3.68	4.75	5.83	6.93	8.05	9.15	10.29	11.43	12.57		14.06	3 / 4			
reaction time		interval		1.10	1.07	1.08	1.10	1.12	1.10	1.14	1.14	1.14	1.49			3.25	3.32	3.42
wind	-2.5 m/s	velocity	5.04	7.73	7.94	7.87	7.73	7.59	7.73	7.46	7.46	7.46	7.05	7.11		7.85	7.68	7.46
Aguilar, Evelyn (COL) (1993)																		
Heptathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																
date	04-Aug-21	time	2.71	3.79	4.91	5.99	7.11	8.20	9.31	10.46	11.54	12.71		13.89	4 / 6			
reaction time	0.133	interval		1.08	1.12	1.08	1.12	1.09	1.11	1.15	1.08	1.17	1.18			3.28	3.32	3.40
wind	0.2 m/s	velocity	4.80	7.87	7.59	7.87	7.59	7.80	7.66	7.39	7.87	7.26	8.52	7.20		7.77	7.68	7.50
Ahouanwanou, Odile (BEN) (1991)																		
Heptathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																
date	04-Aug-21	time	2.75	3.81	4.83	5.86	6.90	7.95	8.99	10.03	11.09	12.15		13.31	4 / 6			
reaction time	0.177	interval	7 steps	1.06	1.02	1.03	1.04	1.05	1.04	1.04	1.06	1.06	1.16			3.11	3.13	3.16
wind	-0.8 m/s	velocity	4.73	8.02	8.33	8.25	8.17	8.10	8.17	8.17	8.02	8.02	8.66	7.51		8.20	8.15	8.07

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Aidanpää, Ida (FIN) (1988)																	
FINAL - 2011 Landskamp FIN-SWE-NOR (Tammefors, FIN)																	
date	05-Feb-11	time	2.56	3.66	4.72	5.76	6.80						8.43	/ 6			
reaction time		interval		1.10	1.06	1.04	1.04					1.63			3.20		
		velocity	5.08	7.73	8.02	8.17	8.17					7.98	7.12		7.97		
Akai, Suzuka (JPN) (1990)																	
Heat 3 - 2009 Mikio Oda Memorial (Hiroshima, JPN)																	
date	29-Apr-09	time	2.55	3.67	4.75	5.81	6.86	7.92	9.00	10.10	11.21	12.34	13.72	/ 2			
reaction time		interval		1.12	1.08	1.06	1.05	1.06	1.08	1.10	1.11	1.13	1.38		3.26	3.19	3.34
wind	2.1 m/s	velocity	5.10	7.59	7.87	8.02	8.10	8.02	7.87	7.73	7.66	7.52	7.61	7.29	7.82	7.99	7.63
Akane, Ishikawa (JPN)																	
FINAL - 2024 Shimane High School Championships (Izumo, JPN)																	
date	26-May-24	time	2.85	4.02	5.20	6.40	7.62	8.85	10.12	11.37	12.63	13.92	15.42	6 / 3			
reaction time		interval		1.17	1.18	1.20	1.22	1.23	1.27	1.25	1.26	1.29	1.50		3.55	3.72	3.80
wind	-1.0 m/s	velocity	4.56	7.26	7.20	7.08	6.97	6.91	6.69	6.80	6.75	6.59	6.70	6.49	7.18	6.85	6.71
Akimova, Vera (URS) (1959)																	
FINAL - 1984 USSR National Championships (Kiev, URS)																	
date	22-Jun-84	time	2.56	3.56	4.56	5.52	6.50	7.48	8.44	9.44	10.44	11.48	12.51	/ 1			
reaction time	0.170	interval		1.00	1.00	0.96	0.98	0.98	0.96	1.00	1.00	1.04	1.03		2.96	2.92	3.04
wind	-0.5 m/s	velocity	5.08	8.50	8.50	8.85	8.67	8.67	8.85	8.50	8.50	8.17	10.19	7.99	8.61	8.73	8.39
Akobundu, Madeleine (USA) (1998)																	
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)																	
date	12-Jun-21	time	2.53	3.57	4.57	5.57	6.56	7.54	8.54	9.54	10.58	11.64	12.90	1 / 5			
reaction time	0.196	interval		1.04	1.00	1.00	0.99	0.98	1.00	1.00	1.04	1.06	1.26		3.04	2.97	3.10
wind	0.4 m/s	velocity	5.14	8.17	8.50	8.50	8.59	8.67	8.50	8.50	8.17	8.02	7.98	7.75	8.39	8.59	8.23
Ali, Nia (USA) (1988)																	
FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis)																	
date	07-Jul-24	time	2.55	3.55	4.55	5.52	6.48	7.45	8.42	9.40	10.40	11.43	12.58	3 / 5			
reaction time	0.149	interval		1.00	1.00	0.97	0.96	0.97	0.97	0.98	1.00	1.03	1.15		2.97	2.90	3.01
wind	1.6 m/s	velocity	5.10	8.50	8.50	8.76	8.85	8.76	8.76	8.67	8.50	8.25	8.74	7.95	8.59	8.79	8.47
Heat 2 - 2024 FBK Games (Hengelo, NED)																	
date	07-Jul-24	time	2.37	3.45	4.46	5.47	6.45	7.46	8.47	9.48	10.50	11.53	12.78	5 / 3			
reaction time	0.127	interval		1.08	1.01	1.01	0.98	1.01	1.01	1.01	1.02	1.03	1.25		3.10	3.00	3.06
wind	0.3 m/s	velocity	5.49	7.87	8.42	8.42	8.67	8.42	8.42	8.42	8.33	8.25	8.04	7.82	8.23	8.50	8.33
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																	
date	30-Jun-24	time	2.50	3.51	4.48	5.46	6.42	7.37	8.32	9.31	10.28	11.27	12.37	2 / 4			
reaction time		interval		1.01	0.97	0.98	0.96	0.95	0.95	0.99	0.97	0.99	1.10		2.96	2.86	2.95
wind	0.7 m/s	velocity	5.20	8.42	8.76	8.67	8.85	8.95	8.95	8.59	8.76	8.59	9.14	8.08	8.61	8.92	8.64
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																	
date	29-Jun-24	time	2.54	3.56	4.54	5.52	6.49	7.47	8.44	9.42	10.41	11.42	12.55	1 / 3			
reaction time		interval		1.02	0.98	0.98	0.97	0.98	0.97	0.98	0.99	1.01	1.13		2.98	2.92	2.98
wind	0.8 m/s	velocity	5.12	8.33	8.67	8.67	8.76	8.67	8.76	8.67	8.59	8.42	8.89	7.97	8.56	8.73	8.56
FINAL - 2024 Prefontaine Classic (Eugene, OR)																	
date	25-May-24	time	2.47	3.52	4.53	5.52	6.51	7.50	8.50	9.50	10.52	11.54	12.80	7 / 8			
reaction time	0.187	interval		1.05	1.01	0.99	0.99	0.99	1.00	1.00	1.02	1.02	1.26		3.05	2.98	3.04
wind	-0.9 m/s	velocity	5.26	8.10	8.42	8.59	8.59	8.59	8.50	8.50	8.33	8.33	7.98	7.81	8.36	8.56	8.39
FINAL - 2024 Millrose Games (New York, NY) (TV Analysis)																	
date	11-Feb-24	time	2.54	3.58	4.60	5.58	6.56						7.95	3 / 6			
reaction time	0.174	interval		1.04	1.02	0.98	0.98						1.39		3.04		
		velocity	5.12	8.17	8.33	8.67	8.67						9.35	7.55	8.39		
FINAL - 2023 Prefontaine Classic (Eugene, OR)																	
date	17-Sep-23	time	2.44	3.48	4.47	5.45	6.42	7.39	8.36	9.35	10.35	11.36	12.62	2 / 7			
reaction time	0.153	interval		1.04	0.99	0.98	0.97	0.97	0.97	0.99	1.00	1.01	1.26		3.01	2.91	3.00
wind	1.8 m/s	velocity	5.33	8.17	8.59	8.67	8.76	8.76	8.76	8.59	8.50	8.42	7.98	7.92	8.47	8.76	8.50
FINAL - 2023 Weltklasse (Zürich, SUI)																	
date	31-Aug-23	time	2.45	3.50	4.50	5.49	6.47	7.45	8.43	9.42	10.44	11.47	12.75	4 / 7			
reaction time	0.165	interval		1.05	1.00	0.99	0.98	0.98	0.98	0.99	1.02	1.03	1.28		3.04	2.94	3.04
wind	-0.2 m/s	velocity	5.31	8.10	8.50	8.59	8.67	8.67	8.67	8.59	8.33	8.25	7.85	7.84	8.39	8.67	8.39
FINAL - 2023 World Athletics Championships (Budapest, HUN)																	
date	24-Aug-23	time	2.54	3.61	4.64	5.66	6.66	7.64	8.64	9.64	10.64	11.68	12.78	3 / 8			

reaction time	0.159	interval	1.07	1.03	1.02	1.00	0.98	1.00	1.00	1.00	1.04	1.10			3.12	2.98	3.04		
wind	-0.2 m/s	velocity	5.12	7.94	8.25	8.33	8.50	8.67	8.50	8.50	8.50	8.17	9.14	7.82	8.17	8.56	8.39		
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	23-Aug-23	time	2.53	3.53	4.52	5.49	6.45	7.42	8.39	9.37	10.35	11.35		12.49	6 / 2				
reaction time	0.156	interval	1.00	0.99	0.97	0.96	0.97	0.97	0.98	0.98	0.98	1.00	1.14			2.96	2.90	2.96	
wind	-0.4 m/s	velocity	5.14	8.50	8.59	8.76	8.85	8.76	8.76	8.67	8.67	8.50	8.82	8.01		8.61	8.79	8.61	
Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	22-Aug-23	time	2.54	3.54	4.54	5.53	6.50	7.48	8.46	9.46	10.45	11.43		12.55	5 / 1				
reaction time	0.142	interval	1.00	1.00	0.99	0.97	0.98	0.98	0.98	1.00	0.99	0.98	1.12			2.99	2.93	2.97	
wind	0.0 m/s	velocity	5.12	8.50	8.50	8.59	8.76	8.67	8.67	8.50	8.59	8.67	8.97	7.97		8.53	8.70	8.59	
FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)														<i>Omega Timing (2023) - diamond league race analysis</i>					
date	21-Jul-23	time	2.40	3.42	4.39	5.35	6.30	7.25	8.20	9.15	10.13	11.11		12.30	5 / 1				
reaction time	0.153	interval	1.02	0.97	0.96	0.95	0.95	0.95	0.95	0.95	0.98	0.98	1.19	PB		2.95	2.85	2.91	
wind	0.6 m/s	velocity	5.42	8.33	8.76	8.85	8.95	8.95	8.95	8.95	8.67	8.67	8.45	8.13		8.64	8.95	8.76	
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2023) - diamond league race analysis</i>					
date	16-Jul-23	time	2.40	3.42	4.39	5.33	6.28	7.24	8.22	9.21	10.19	11.18		12.38	6 / 3				
reaction time	0.162	interval	1.02	0.97	0.94	0.95	0.96	0.96	0.98	0.99	0.98	0.99	1.20			2.93	2.89	2.96	
wind	0.9 m/s	velocity	5.42	8.33	8.76	9.04	8.95	8.85	8.67	8.59	8.67	8.59	8.37	8.08		8.70	8.82	8.61	
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	08-Jul-23	time	2.51	3.53	4.50	5.47	6.42	7.36	8.31	9.28	10.27	11.26		12.37	4 / 1				
reaction time		interval	1.02	0.97	0.97	0.95	0.94	0.95	0.97	0.99	0.99	0.99	1.11			2.96	2.84	2.95	
wind	0.4 m/s	velocity	5.18	8.33	8.76	8.76	8.95	9.04	8.95	8.76	8.59	8.59	9.05	8.08		8.61	8.98	8.64	
FINAL - 2023 Athletissima (Lausanne, SUI)														<i>Omega Timing (2023) - diamond league race analysis</i>					
date	30-Jun-23	time	2.45	3.51	4.53	5.54	6.53	7.52	8.52	9.53	10.54	11.57		12.83	2 / 6				
reaction time	0.154	interval	1.06	1.02	1.01	0.99	0.99	1.00	1.01	1.01	1.01	1.03	1.26			3.09	2.98	3.05	
wind	-1.4 m/s	velocity	5.31	8.02	8.33	8.42	8.59	8.59	8.50	8.42	8.42	8.25	7.98	7.79		8.25	8.56	8.36	
FINAL - 2023 FBK Games (Hengelo, NED)														<i>Omega Timing (2023) - continental tour race analysis</i>					
date	04-Jun-23	time	2.40	3.45	4.45	5.45	6.43	7.41	8.39	9.38	10.37	11.37		12.61	5 / 1				
reaction time	0.156	interval	1.05	1.00	1.00	0.98	0.98	0.98	0.99	0.99	1.00	1.00	1.24			3.05	2.94	2.98	
wind	0.2 m/s	velocity	5.42	8.10	8.50	8.50	8.67	8.67	8.67	8.59	8.59	8.50	8.10	7.93		8.36	8.67	8.56	
FINAL - 2023 USATF Los Angeles Grand Prix (Westwood, CA) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	27-May-23	time	2.58	3.62	4.60	5.58	6.58	7.54	8.52	9.52	10.52	11.52		12.65	3 / 7				
reaction time	0.185	interval	1.04	0.98	0.98	1.00	0.96	0.98	1.00	1.00	1.00	1.13				3.00	2.94	3.00	
wind	-0.2 m/s	velocity	5.04	8.17	8.67	8.67	8.50	8.85	8.67	8.50	8.50	8.50	8.89	7.91		8.50	8.67	8.50	
FINAL - 2023 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	05-May-23	time	2.56	3.60	4.58	5.56	6.52	7.50	8.48	9.46	10.46	11.48		12.69	3 / 3				
reaction time	0.167	interval	1.04	0.98	0.98	0.96	0.98	0.98	0.98	0.98	1.00	1.02	1.21			3.00	2.92	3.00	
wind	1.1 m/s	velocity	5.08	8.17	8.67	8.67	8.85	8.67	8.67	8.67	8.50	8.33	8.31	7.88		8.50	8.73	8.50	
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	08-Sep-22	time	2.47	3.50	4.50	5.47	6.44	7.44	8.41	9.41	10.42	11.44		12.67	3 / 6				
reaction time	0.163	interval	1.03	1.00	0.97	0.97	1.00	0.97	1.00	0.97	1.00	1.01	1.02	1.23			3.00	2.94	3.03
wind	-0.3 m/s	velocity	5.26	8.25	8.50	8.76	8.76	8.50	8.76	8.50	8.42	8.33	8.17	7.89		8.50	8.67	8.42	
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	3.50	4.50	5.49	6.44	7.41	8.39	9.37	10.35	11.37		12.59	7 / 4				
reaction time	0.182	interval	1.03	1.00	0.99	0.95	0.97	0.98	0.98	0.98	0.98	1.02	1.22			3.02	2.90	2.98	
wind	-0.9 m/s	velocity	5.26	8.25	8.50	8.59	8.95	8.76	8.67	8.67	8.67	8.33	8.24	7.94		8.44	8.79	8.56	
FINAL - 2022 Gyulai István Memorial (Székesfehérvár, HUN) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	08-Aug-22	time	2.47	3.50	4.52	5.50	6.46	7.43	8.43	9.43	10.43	11.43		12.60	6 / 3				
reaction time	0.138	interval	1.03	1.02	0.98	0.96	0.97	1.00	1.00	1.00	1.00	1.00	1.17			3.03	2.93	3.00	
wind	2.4 m/s	velocity	5.26	8.25	8.33	8.67	8.85	8.76	8.50	8.50	8.50	8.50	8.59	7.94		8.42	8.70	8.50	
Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	23-Jul-22	time	2.46	3.46	4.46	5.44	6.42	7.40	8.38	9.36	10.34	11.53		dnf	5 / --				
reaction time	0.130	interval	1.00	1.00	0.98	0.98	0.98	0.98	0.98	0.98	0.98	1.19		DQ		2.98	2.94	3.15	
wind	-0.3 m/s	velocity	5.28	8.50	8.50	8.67	8.67	8.67	8.67	8.67	8.67	7.14				8.56	8.67	8.10	
FINAL - 2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	30-Jun-22	time	2.48	3.50	4.47	5.43	6.43	7.40	8.37	9.33	10.34	11.34		12.53	6 / 3				
reaction time	0.160	interval	1.02	0.97	0.96	1.00	0.97	0.97	0.96	0.96	1.01	1.00	1.19			2.95	2.94	2.97	
wind	-0.5 m/s	velocity	5.24	8.33	8.76	8.85	8.50	8.76	8.76	8.85	8.42	8.50	8.45	7.98		8.64	8.67	8.59	

FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	09-Jun-22	time	2.49	3.50	4.50	5.48	6.46	7.45	8.44	9.43	10.43	11.47	12.71	6 / 3			
reaction time	0.153	interval		1.01	1.00	0.98	0.98	0.99	0.99	0.99	1.00	1.04	1.24		2.99	2.96	3.03
wind	0.1 m/s	velocity	5.22	8.42	8.50	8.67	8.67	8.59	8.59	8.59	8.50	8.17	8.10	7.87	8.53	8.61	8.42
FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	28-May-22	time	2.46	3.48	4.50	5.50	6.50	7.50	8.50	9.52	10.52	11.55	12.77	7 / 7			
reaction time	0.144	interval		1.02	1.02	1.00	1.00	1.00	1.00	1.02	1.00	1.03	1.22		3.04	3.00	3.05
wind	-0.7 m/s	velocity	5.28	8.33	8.33	8.50	8.50	8.50	8.50	8.33	8.50	8.25	8.24	7.83	8.39	8.50	8.36
FINAL - 2020 New Balance Indoor Grand Prix (Boston, MA)														<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>			
date	25-Jan-20	time	2.57	3.62	4.60	5.60	6.58						7.94	4 / 1			
reaction time		interval		1.05	0.98	1.00	0.98						1.36		3.03		
		velocity	5.06	8.10	8.67	8.50	8.67						9.56	7.56	8.42		
Heat 1 - 2020 New Balance Indoor Grand Prix (Boston, MA)														<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>			
date	25-Jan-20	time	2.57	3.62	4.62	5.63	6.62						7.99	5 / 1			
reaction time		interval		1.05	1.00	1.01	0.99						1.37		3.06		
		velocity	5.06	8.10	8.50	8.42	8.59						9.49	7.51	8.33		
FINAL - 2019 IAAF World Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>			
date	06-Oct-19	time	2.43	3.44	4.41	5.37	6.32	7.28	8.23	9.19	10.19	11.16	12.34	4 / 1			
reaction time	0.155	interval		1.01	0.97	0.96	0.95	0.96	0.95	0.96	1.00	0.97	1.18	PB	2.94	2.86	2.93
wind	0.3 m/s	velocity	5.35	8.42	8.76	8.85	8.95	8.85	8.95	8.85	8.50	8.76	8.52	8.10	8.67	8.92	8.70
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	06-Oct-19	time	2.42	3.42	4.40	5.36	6.32	7.30	8.26	9.24	10.22	11.22	12.44	7 / 2			
reaction time	0.150	interval		1.00	0.98	0.96	0.96	0.98	0.96	0.98	0.98	1.00	1.22	PB	2.94	2.90	2.96
wind	1.0 m/s	velocity	5.37	8.50	8.67	8.85	8.85	8.67	8.85	8.67	8.67	8.50	8.24	8.04	8.67	8.79	8.61
Heat 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)														<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>			
date	05-Oct-19	time	2.36	3.38	4.38	5.36	6.34	7.30	8.28	9.26	10.26	11.28	12.59	7 / 1			
reaction time	0.157	interval		1.02	1.00	0.98	0.98	0.96	0.98	0.98	1.00	1.02	1.31		3.00	2.92	3.00
wind	0.3 m/s	velocity	5.51	8.33	8.50	8.67	8.67	8.85	8.67	8.67	8.50	8.33	7.67	7.94	8.50	8.73	8.50
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	2.50	3.52	4.54	5.53	6.52	7.49	8.49	9.50	10.51	11.52	12.74	6 / 3			
reaction time	0.144	interval		1.02	1.02	0.99	0.99	0.97	1.00	1.01	1.01	1.01	1.22		3.03	2.96	3.03
wind	0.0 m/s	velocity	5.20	8.33	8.33	8.59	8.59	8.76	8.50	8.42	8.42	8.42	8.61	7.85	8.42	8.61	8.42
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	2.49	3.52	4.53	5.52	6.54	7.50	8.50	9.50	10.51	11.52	12.73	7 / 4			
reaction time	0.161	interval		1.03	1.01	0.99	1.02	0.96	1.00	1.00	1.01	1.01	1.21		3.03	2.98	3.02
wind	-0.2 m/s	velocity	5.22	8.25	8.42	8.59	8.33	8.85	8.50	8.50	8.42	8.42	8.68	7.86	8.42	8.56	8.44
FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	27-Jul-19	time	2.47	3.50	4.47	5.44	6.40	7.37	8.34	9.34	10.34	11.35	12.55	5 / 2			
reaction time		interval		1.03	0.97	0.97	0.96	0.97	0.97	1.00	1.00	1.01	1.20		2.97	2.90	3.01
wind	-1.2 m/s	velocity	5.26	8.25	8.76	8.76	8.85	8.76	8.76	8.50	8.50	8.42	8.75	7.97	8.59	8.79	8.47
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	20-Jul-19	time	2.48	3.50	4.50	5.48	6.44	7.42	8.38	9.36	10.36	11.38	12.57	4 / 2			
reaction time	0.147	interval		1.02	1.00	0.98	0.96	0.98	0.96	0.98	1.00	1.02	1.19		3.00	2.90	3.00
wind	0.8 m/s	velocity	5.24	8.33	8.50	8.67	8.85	8.67	8.85	8.67	8.50	8.33	8.82	7.96	8.50	8.79	8.50
FINAL - 2019 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	12-Jul-19	time	2.52	3.56	4.56	5.56	6.56	7.56	8.56	9.56	10.60	11.62	12.80	2 / 5			
reaction time	0.137	interval		1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.02	1.18		3.04	3.00	3.06
wind	0.1 m/s	velocity	5.16	8.17	8.50	8.50	8.50	8.50	8.50	8.50	8.17	8.33	8.90	7.81	8.39	8.50	8.33
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	21-May-19	time	2.55	3.59	4.58	5.59	6.58	7.56	8.56	9.58	10.59	11.62	12.78	2 / 2			
reaction time	0.153	interval		1.04	0.99	1.01	0.99	0.98	1.00	1.02	1.01	1.03	1.16		3.04	2.97	3.06
wind	-1.0 m/s	velocity	5.10	8.17	8.59	8.42	8.59	8.67	8.50	8.33	8.42	8.25	9.05	7.82	8.39	8.59	8.33
FINAL - 2017 IAAF World Championships (London, GBR)														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>			
date	12-Aug-17	time	2.46	3.52	4.54	5.54	6.54	7.57	8.58	9.57	10.60	11.66	13.04	9 / 8			
reaction time	0.149	interval		1.06	1.02	1.00	1.00	1.03	1.01	0.99	1.03	1.06	1.38		3.08	3.04	3.08
wind	0.1 m/s	velocity	5.28	8.02	8.33	8.50	8.50	8.25	8.42	8.59	8.25	8.02	7.61	7.67	8.28	8.39	8.28
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>			
date	11-Aug-17	time	2.44	3.50	4.52	5.53	6.50	7.50	8.49	9.48	10.49	11.53	12.79	4 / 2			
reaction time	0.158	interval		1.06	1.02	1.01	0.97	1.00	0.99	0.99	1.01	1.04	1.26		3.09	2.96	3.04

wind	0.5 m/s	velocity	5.33	8.02	8.33	8.42	8.76	8.50	8.59	8.59	8.42	8.17	8.33	7.82	8.25	8.61	8.39
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FINAL - 2017 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis) *Henson (2020) - Athlete First: 2017 year end hurdle report*

date	21-Jul-17	time	2.54	3.56	4.56	5.56	6.54	7.52	8.50	9.50	10.52	11.54	12.68	6 / 4			
reaction time	0.136	interval	1.02	1.00	1.00	0.98	0.98	0.98	1.00	1.00	1.02	1.02	1.14		3.02	2.94	3.04
wind	-0.2 m/s	velocity	5.12	8.33	8.50	8.50	8.67	8.67	8.50	8.33	8.33	9.21	7.89		8.44	8.67	8.39

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	3.54	4.54	5.50	6.48	7.48	8.46	9.48	10.50	11.56	12.79	3 / 5			
reaction time	0.148	interval	1.02	1.00	0.96	0.98	1.00	0.98	1.02	1.02	1.06	1.23			2.98	2.96	3.10
wind	0.2 m/s	velocity	5.16	8.33	8.50	8.85	8.67	8.50	8.67	8.33	8.33	8.02	8.54	7.82	8.56	8.61	8.23

FINAL - 2017 Athletissima (Lausanne, SUI) (TV Analysis) *Henson (2020) - Athlete First: 2017 year end hurdle report*

date	06-Jul-17	time	2.48	3.52	4.50	5.50	6.48	7.46	8.43	9.43	10.43	11.43	12.61	4 / 4			
reaction time	0.135	interval	1.04	0.98	1.00	0.98	0.98	0.97	1.00	1.00	1.00	1.18			3.02	2.93	3.00
wind	-0.1 m/s	velocity	5.24	8.17	8.67	8.50	8.67	8.76	8.50	8.50	8.50	8.90	7.93		8.44	8.70	8.50

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

date	04-Jul-17	time	2.52	3.54	4.54	5.54	6.52	7.52	8.52	9.52	10.56	11.60	12.83	5 / 7			
reaction time	0.159	interval	1.02	1.00	1.00	0.98	1.00	1.00	1.00	1.00	1.04	1.04	1.23		3.02	2.98	3.08
wind	0.1 m/s	velocity	5.16	8.33	8.50	8.50	8.67	8.50	8.50	8.50	8.17	8.17	8.54	7.79	8.44	8.56	8.28

FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis) *Henson (2020) - Athlete First: 2017 year end hurdle report*

date	27-May-17	time	2.52	3.56	4.60	5.62	6.60	7.58	8.58	9.60	10.60	11.64	12.90	5 / 7			
reaction time	0.178	interval	1.04	1.04	1.02	0.98	0.98	1.00	1.02	1.00	1.04	1.26			3.10	2.96	3.06
wind	0.8 m/s	velocity	5.16	8.17	8.17	8.33	8.67	8.67	8.50	8.33	8.50	8.17	8.33	7.75	8.23	8.61	8.33

FINAL - 2017 Doha Diamond League (Doha, QAT) (TV Analysis) *Henson (2020) - Athlete First: 2017 year end hurdle report*

date	05-May-17	time	2.54	3.64	4.72	5.92	7.08	8.26	9.42	10.54			14.34	4 / 8			
reaction time	0.143	interval	1.10	1.08	1.20	1.16	1.18	1.16	1.12						3.38	3.50	
wind	-2.3 m/s	velocity	5.12	7.73	7.87	7.08	7.33	7.20	7.33	7.59			6.97		7.54	7.29	

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis) *Henson (2020) - Athlete First: 2016 year end hurdle report*

date	17-Aug-16	time	2.37	3.37	4.36	5.36	6.33	7.30	8.27	9.24	10.24	11.27	12.59	4 / 2			
reaction time	0.154	interval	1.00	0.99	1.00	0.97	0.97	0.97	0.97	1.00	1.03	1.32			2.99	2.91	3.00
wind	0.0 m/s	velocity	5.49	8.50	8.59	8.50	8.76	8.76	8.76	8.76	8.50	8.25	7.95	7.94	8.53	8.76	8.50

FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis) *Henson (2020) - Athlete First: 2016 year end hurdle report*

date	22-Jul-16	time	2.48	3.48	4.46	5.42	6.44	7.42	8.40	9.38	10.40	11.42	12.63	5 / 4			
reaction time	0.145	interval	1.00	0.98	0.96	1.02	0.98	0.98	0.98	1.02	1.02	1.21			2.94	2.98	3.02
wind	0.3 m/s	velocity	5.24	8.50	8.67	8.85	8.33	8.67	8.67	8.67	8.33	8.33	8.68	7.92	8.67	8.56	8.44

Heat 1 - 2016 London Anniversary Games (London, GBR) (TV Analysis) *Henson (2020) - Athlete First: 2016 year end hurdle report*

date	22-Jul-16	time	2.52	3.54	4.54	5.50	6.50	7.48	8.48	9.48	10.48	11.50	12.69	7 / 1			
reaction time	0.156	interval	1.02	1.00	0.96	1.00	0.98	1.00	1.00	1.00	1.02	1.19			2.98	2.98	3.02
wind	0.3 m/s	velocity	5.16	8.33	8.50	8.85	8.50	8.67	8.50	8.50	8.50	8.33	8.82	7.88	8.56	8.56	8.44

FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis) *Henson (2020) - Athlete First: 2016 year end hurdle report*

date	08-Jul-16	time	2.46	3.47	4.47	5.44	6.41	7.37	8.34	9.31	10.31	11.33	12.55	6 / 3			
reaction time	0.167	interval	1.01	1.00	0.97	0.97	0.96	0.97	0.97	1.00	1.02	1.22			2.98	2.90	2.99
wind	1.2 m/s	velocity	5.28	8.42	8.50	8.76	8.76	8.85	8.76	8.76	8.50	8.33	8.61	7.97	8.56	8.79	8.53

FINAL - 2016 Bauhaus Athletics (Stockholm, SWE) (TV Analysis) *Henson (2020) - Athlete First: 2016 year end hurdle report*

date	16-Jun-16	time	2.46	3.46	4.48	5.44	6.44	7.44	8.44	9.48	10.50	11.56	12.85	2 / 2			
reaction time	0.145	interval	1.00	1.02	0.96	1.00	1.00	1.00	1.04	1.02	1.06	1.29			2.98	3.00	3.12
wind	-0.4 m/s	velocity	5.28	8.50	8.33	8.85	8.50	8.50	8.50	8.17	8.33	8.02	8.14	7.78	8.56	8.50	8.17

FINAL - 2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis) *Henson (2020) - Athlete First: 2016 year end hurdle report*

date	05-Jun-16	time	2.53	3.56	4.58	5.58	6.56	7.56	8.56	9.58	10.56	11.64	12.95	8 / 6			
reaction time	0.198	interval	1.03	1.02	1.00	0.98	1.00	1.00	1.02	0.98	1.08	1.31			3.05	2.98	3.08
wind	-0.3 m/s	velocity	5.14	8.25	8.33	8.50	8.67	8.50	8.50	8.33	8.67	7.87	8.02	7.72	8.36	8.56	8.28

FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis) *Henson (2020) - Athlete First: 2016 year end hurdle report*

date	28-May-16	time	2.48	3.48	4.46	5.46	6.44	7.42	8.42	9.42	10.44	11.46	12.72	1 / 4			
reaction time		interval	1.00	0.98	1.00	0.98	0.98	1.00	1.00	1.02	1.02	1.26			2.98	2.96	3.04
wind	0.7 m/s	velocity	5.24	8.50	8.67	8.50	8.67	8.67	8.50	8.50	8.33	8.33	8.33	7.86	8.56	8.61	8.39

Allahgreen, Diane (GBR) (1975)

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

date	09-Aug-02	time	2.58	3.62	4.66	5.68	6.70	7.73	8.75	9.79	10.86	11.94	13.05	1 / 5			
reaction time	0.131	interval	1.04	1.04	1.02	1.02	1.03	1.02	1.04	1.07	1.08	1.11			3.10	3.07	3.19
wind	-0.7 m/s	velocity	5.04	8.17	8.17	8.33	8.33	8.25	8.33	8.17	7.94	7.87	9.46	7.66	8.23	8.31	7.99

FINAL - 2001 European Cup (Bremen, GER)Graubner (2007) - <http://www.fgs.uni-halle.de>

date	24-Jun-01	time	2.62	3.67	4.74	5.79	6.82	7.84	8.90	9.94	11.04	12.07	13.23	/ 4			
reaction time	0.130	interval		1.05	1.07	1.05	1.03	1.02	1.06	1.04	1.10	1.03	1.16		3.17	3.11	3.17
wind	0.6 m/s	velocity	4.96	8.10	7.94	8.10	8.25	8.33	8.02	8.17	7.73	8.25	9.05	7.56	8.04	8.20	8.04

Alozie, Glory (ESP) (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	2.51	3.52	4.54	5.55	6.56	7.57	8.58	9.60	10.63	11.67	12.95	7 / 3			
reaction time	0.188	interval		1.01	1.02	1.01	1.01	1.01	1.01	1.02	1.03	1.04	1.28		3.04	3.03	3.09
wind	1.5 m/s	velocity	5.18	8.42	8.33	8.42	8.42	8.42	8.33	8.25	8.17	8.20	7.72		8.39	8.42	8.25

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

date	09-Aug-02	time	2.62	3.68	4.68	5.67	6.66	7.64	8.64	9.65	10.66	11.65	12.73	/ 1			
reaction time	0.143	interval		1.06	1.00	0.99	0.99	0.98	1.00	1.01	1.01	0.99	1.08		3.05	2.97	3.01
wind	-0.7 m/s	velocity	4.96	8.02	8.50	8.59	8.59	8.67	8.50	8.42	8.42	8.59	9.72	7.86	8.36	8.59	8.47

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

date	09-Aug-02	time	2.65	3.69	4.71	5.69	6.69	7.67	8.68	9.67	10.69	11.69	12.79	/ 1			
reaction time	0.133	interval		1.04	1.02	0.98	1.00	0.98	1.01	0.99	1.02	1.00	1.10		3.04	2.99	3.01
wind	0.6 m/s	velocity	4.91	8.17	8.33	8.67	8.50	8.67	8.42	8.59	8.33	8.50	9.55	7.82	8.39	8.53	8.47

Heat 2 - 2002 European Championships (Munich, GER)Graubner (2009) - <http://www.fgs.uni-halle.de>

date	08-Aug-02	time	2.69	3.75	4.77	5.77	6.79	7.81	8.81	9.83	10.87	11.92	13.03	/ 2			
reaction time	0.164	interval		1.06	1.02	1.00	1.02	1.02	1.00	1.02	1.04	1.05	1.11		3.08	3.04	3.11
wind	0.0 m/s	velocity	4.83	8.02	8.33	8.50	8.33	8.33	8.50	8.33	8.17	8.10	9.46	7.67	8.28	8.39	8.20

Alozie, Glory (NGR) (1977)**FINAL - 2000 ISTAF (Berlin, GER)**Graubner (2009) - <http://www.fgs.uni-halle.de>

date	01-Sep-00	time	2.58	3.62	4.62	5.61	6.61	7.60	8.60	9.60	10.58	11.56	12.66	/ 1			
reaction time	0.235	interval		1.04	1.00	0.99	1.00	0.99	1.00	1.00	0.98	0.98	1.10		3.03	2.99	2.96
wind	-0.2 m/s	velocity	5.04	8.17	8.50	8.59	8.50	8.59	8.50	8.50	8.67	8.67	9.55	7.90	8.42	8.53	8.61

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

date	28-Aug-99	time	2.52	3.52	4.49	5.45	6.42	7.38	8.37	9.35	10.33	11.35	12.44	6 / 2			
reaction time	0.155	interval		1.00	0.97	0.96	0.97	0.96	0.99	0.98	0.98	1.02	1.09	AR / =PB	2.93	2.92	2.98
wind	0.7 m/s	velocity	5.16	8.50	8.76	8.85	8.76	8.85	8.59	8.67	8.67	8.33	9.63	8.04	8.70	8.73	8.56

Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)Sanchez (1999) - *Sevilla '99: análisis de la carreras con villas*

date	27-Aug-99	time	2.52	3.53	4.53	5.52	6.48	7.47	8.43	9.42	10.39	11.39	12.61	6 / 2			
reaction time	0.154	interval		1.01	1.00	0.99	0.96	0.99	0.96	0.99	0.97	1.00	1.22		3.00	2.91	2.96
wind	1.9 m/s	velocity	5.16	8.42	8.50	8.59	8.85	8.59	8.85	8.59	8.76	8.50	8.61	7.93	8.50	8.76	8.61

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

date	26-Aug-99	time	2.52	3.53	4.52	5.49	6.45	7.45	8.43	9.39	10.38	11.39	12.60	4 / 1			
reaction time	0.158	interval		1.01	0.99	0.97	0.96	1.00	0.98	0.96	0.99	1.01	1.21		2.97	2.94	2.96
wind	0.2 m/s	velocity	5.16	8.42	8.59	8.76	8.85	8.50	8.67	8.85	8.59	8.42	8.68	7.94	8.59	8.67	8.61

Heat 4 - 1999 IAAF World Championships (Sevilla, ESP)Sanchez (1999) - *Sevilla '99: análisis de la carreras con villas*

date	26-Aug-99	time	2.54	3.55	4.57	5.55	6.53	7.51	8.50	9.49	10.49	11.50	12.67	3 / 1			
reaction time	0.162	interval		1.01	1.02	0.98	0.98	0.98	0.99	0.99	1.00	1.01	1.17		3.01	2.95	3.00
wind	1.1 m/s	velocity	5.12	8.42	8.33	8.67	8.67	8.67	8.59	8.59	8.50	8.42	8.97	7.89	8.47	8.64	8.50

Amusan, Tobi (NGR) (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	09-Aug-24	time	2.46	3.51	4.49	5.45	6.39	7.33	8.28	9.25	10.24	11.28	12.55	6 / 3			
reaction time	0.152	interval		1.05	0.98	0.96	0.94	0.94	0.95	0.97	0.99	1.04	1.27		2.99	2.83	3.00
wind	0.5 m/s	velocity	5.28	8.10	8.67	8.85	9.04	9.04	8.95	8.76	8.59	8.17	7.91	7.97	8.53	9.01	8.50

Heat 1 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time	2.48	3.52	4.50	5.47	6.42	7.37	8.33	9.30	10.28	11.27	12.49	9 / 1			
reaction time	0.135	interval		1.04	0.98	0.97	0.95	0.95	0.96	0.97	0.98	0.99	1.22		2.99	2.86	2.94
wind	-0.1 m/s	velocity	5.24	8.17	8.67	8.76	8.95	8.95	8.85	8.76	8.67	8.59	8.24	8.01	8.53	8.92	8.67

FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)Henson (2024) - *Athlete First: 2024 year end hurdle report*

date	27-Apr-24	time	2.55	3.57	4.57	5.54	6.51	7.46	8.46	9.44	10.47	11.51	12.61	6 / 1	no official time given		
reaction time	0.123	interval		1.02	1.00	0.97	0.97	0.95	1.00	0.98	1.03	1.04	1.10	DQ fs	(0.093)	2.99	2.92
wind	0.3 m/s	velocity	5.10	8.33	8.50	8.76	8.76	8.95	8.50	8.67	8.25	8.17	9.14	7.93	8.53	8.73	8.36

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

date	20-Apr-24	time	2.48	3.51	4.51	5.48	6.45	7.41	8.36	9.34	10.34	11.35	12.58	4 / 5			
reaction time	0.148	interval		1.03	1.00	0.97	0.97	0.96	0.95	0.98	1.00	1.01	1.23		3.00	2.88	2.99
wind	-0.2 m/s	velocity	5.24	8.25	8.50	8.76	8.76	8.85	8.95	8.67	8.50	8.42	8.17	7.95	8.50	8.85	8.53

FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)Henson (2024) *Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date 04-Feb-24 time 2.48 3.50 4.48 5.46 6.43
 reaction time 0.147 interval 1.02 0.98 0.98 0.97
 velocity 5.24 8.33 8.67 8.67 8.76

7.75 4 / 2
 1.32 NR 2.98
 9.85 7.74 8.56

FINAL - 2023 Prefontaine Classic (Eugene, OR)*Omega Timing (2023) - diamond league race analysis*

date 17-Sep-23 time 2.42 3.44 4.41 5.37 6.30 7.24 8.18 9.14 10.10 11.09
 reaction time 0.134 interval 1.02 0.97 0.96 0.93 0.94 0.94 0.96 0.96 0.99 1.24
 wind 1.8 m/s velocity 5.37 8.33 8.76 8.85 9.14 9.04 9.04 8.85 8.85 8.59 8.10 8.11 8.64 9.07 8.76

FINAL - 2023 World Athletics Championships (Budapest, HUN)*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date 24-Aug-23 time 2.56 3.58 4.55 5.53 6.50 7.48 8.45 9.48 10.49 11.53
 reaction time 0.152 interval 1.02 0.97 0.98 0.97 0.98 0.97 1.03 1.01 1.04 1.09
 wind -0.2 m/s velocity 5.08 8.33 8.76 8.67 8.76 8.67 8.76 8.25 8.42 8.17 9.22 7.92 8.59 8.73 8.28

Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date 23-Aug-23 time 2.53 3.57 4.52 5.48 6.44 7.42 8.40 9.38 10.40 11.42
 reaction time 0.155 interval 1.04 0.95 0.96 0.96 0.98 0.98 0.98 1.02 1.02 1.14
 wind -0.7 m/s velocity 5.14 8.17 8.95 8.85 8.85 8.67 8.67 8.67 8.33 8.33 8.82 7.96 8.64 8.73 8.44

Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date 22-Aug-23 time 2.54 3.55 4.54 5.52 6.47 7.41 8.38 9.34 10.34 11.35
 reaction time 0.149 interval 1.01 0.99 0.98 0.95 0.94 0.97 0.96 1.00 1.01 1.13
 wind 0.4 m/s velocity 5.12 8.42 8.59 8.67 8.95 9.04 8.76 8.85 8.50 8.42 8.89 8.01 8.56 8.92 8.59

FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)*Omega Timing (2023) - diamond league race analysis*

date 16-Jul-23 time 2.43 3.46 4.44 5.39 6.33 7.27 8.22 9.19 10.15 11.14
 reaction time 0.146 interval 1.03 0.98 0.95 0.94 0.94 0.95 0.97 0.96 0.99 1.20
 wind 0.9 m/s velocity 5.35 8.25 8.67 8.95 9.04 9.04 8.95 8.76 8.85 8.59 8.38 8.10 8.61 9.01 8.73

FINAL - 2023 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2023) - diamond league race analysis*

date 02-Jul-23 time 2.44 3.48 4.46 5.42 6.38 7.34 8.32 9.30 10.29 11.28
 reaction time 0.145 interval 1.04 0.98 0.96 0.96 0.96 0.98 0.98 0.99 0.99 1.24
 wind 0.9 m/s velocity 5.33 8.17 8.67 8.85 8.85 8.85 8.67 8.67 8.59 8.59 8.10 7.99 8.56 8.79 8.61

FINAL - 2023 Athletissima (Lausanne, SUI)*Omega Timing (2023) - diamond league race analysis*

date 30-Jun-23 time 2.43 3.46 4.44 5.39 6.34 7.29 8.25 9.23 10.22 11.24
 reaction time 0.133 interval 1.03 0.98 0.95 0.95 0.95 0.96 0.98 0.99 1.02 1.23
 wind -1.4 m/s velocity 5.35 8.25 8.67 8.95 8.95 8.95 8.85 8.67 8.59 8.33 8.17 8.02 8.61 8.92 8.53

FINAL - 2023 USATF Los Angeles Grand Prix (Westwood, CA) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date 27-May-23 time 2.56 3.58 4.58 5.54 6.52 7.49 8.47 9.50 10.52 11.56
 reaction time 0.184 interval 1.02 1.00 0.96 0.98 0.97 0.98 1.03 1.02 1.04 1.13
 wind -0.2 m/s velocity 5.08 8.33 8.50 8.85 8.67 8.76 8.67 8.25 8.33 8.17 8.89 7.88 8.56 8.70 8.25

FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date 08-Sep-22 time 2.47 3.47 4.43 5.37 6.31 7.24 8.19 9.14 10.12 11.10
 reaction time 0.163 interval 1.00 0.96 0.94 0.94 0.93 0.95 0.95 0.98 0.98 1.19
 wind -0.3 m/s velocity 5.26 8.50 8.85 9.04 9.04 9.14 8.95 8.95 8.67 8.67 8.45 8.14 8.79 9.04 8.76

FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date 04-Sep-22 time 2.48 3.52 4.48 5.44 6.38 7.32 8.28 9.28 10.26 11.26
 reaction time 0.133 interval 1.04 0.96 0.96 0.94 0.94 0.96 1.00 0.98 1.00 1.19
 wind -0.3 m/s velocity 5.24 8.17 8.85 8.85 9.04 9.04 8.85 8.50 8.67 8.50 8.45 8.03 8.61 8.98 8.56

FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date 26-Aug-22 time 2.43 3.44 4.44 5.40 6.34 7.27 8.27 9.25 10.25 11.27
 reaction time 0.151 interval 1.01 1.00 0.96 0.94 0.93 1.00 0.98 1.00 1.02 1.18
 wind -0.9 m/s velocity 5.35 8.42 8.50 8.85 9.04 9.14 8.50 8.67 8.50 8.33 8.52 8.03 8.59 8.89 8.50

FINAL - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date 07-Aug-22 time 2.48 3.48 4.44 5.38 6.34 7.28 8.22 9.18 10.16 11.16
 reaction time 0.126 interval 1.00 0.96 0.94 0.96 0.94 0.94 0.96 0.98 1.00 1.14
 wind -0.2 m/s velocity 5.24 8.50 8.85 9.04 8.85 9.04 9.04 8.85 8.67 8.50 8.82 8.13 8.79 8.98 8.67

Heat 3 - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date 05-Aug-22 time 2.50 3.50 4.48 5.43 6.37 7.33 8.28 9.23 10.23 11.23
 reaction time 0.150 interval 1.00 0.98 0.95 0.94 0.96 0.95 0.95 1.00 1.00 1.17
 wind 2.4 m/s velocity 5.20 8.50 8.67 8.95 9.04 8.85 8.95 8.95 8.50 8.50 8.59 8.06 8.70 8.95 8.64

FINAL - 2022 World Athletics Championships (Eugene, OR)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date 24-Jul-22 time 2.50 3.50 4.43 5.37 6.27 7.20 8.12 9.07 10.02 11.01
 reaction time 0.130 interval 1.00 0.93 0.94 0.90 0.93 0.92 0.95 0.95 0.99 1.05
 wind 2.5 m/s velocity 5.20 8.50 9.14 9.04 9.44 9.14 9.24 8.95 8.95 8.59 9.57 8.29 8.89 9.27 8.82

Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	24-Jul-22	time	2.54	3.50	4.48	5.40	6.31	7.22	8.18	9.13	10.09	11.06	12.12	4 / 1			
reaction time	0.144	interval		0.96	0.98	0.92	0.91	0.91	0.96	0.95	0.96	0.97	1.06	WR	2.86	2.78	2.88
wind	0.9 m/s	velocity	5.12	8.85	8.67	9.24	9.34	9.34	8.85	8.95	8.85	8.76	9.48	8.25	8.92	9.17	8.85

Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	23-Jul-22	time	2.50	3.50	4.48	5.43	6.36	7.30	8.26	9.23	10.20	11.20	12.40	3 / 1			
reaction time	0.135	interval		1.00	0.98	0.95	0.93	0.94	0.96	0.97	0.97	1.00	1.20	AR PB	2.93	2.83	2.94
wind	1.5 m/s	velocity	5.20	8.50	8.67	8.95	9.14	9.04	8.85	8.76	8.76	8.50	8.37	8.06	8.70	9.01	8.67

FINAL - 2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	30-Jun-22	time	2.50	3.50	4.50	5.46	6.43	7.37	8.34	9.33	10.33	11.33	12.50	4 / 2			
reaction time	0.147	interval		1.00	1.00	0.96	0.97	0.94	0.97	0.99	1.00	1.00	1.17		2.96	2.88	2.99
wind	-0.5 m/s	velocity	5.20	8.50	8.50	8.85	8.76	9.04	8.76	8.59	8.50	8.50	8.59	8.00	8.61	8.85	8.53

FINAL - 2022 Nigerian National Championships (Benin City, NGR) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date	25-Jun-22	time	2.52	3.53	4.52	5.49	6.45	7.42	8.39	9.36	10.36	11.36	12.54	4 / 1			
reaction time		interval		1.01	0.99	0.97	0.96	0.97	0.97	0.97	1.00	1.00	1.18		2.97	2.90	2.97
wind	-0.4 m/s	velocity	5.16	8.42	8.59	8.76	8.85	8.76	8.76	8.76	8.50	8.50	8.52	7.97	8.59	8.79	8.59

Heat 2 - 2022 Nigerian National Championships (Benin City, NGR) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date	25-Jun-22	time	2.52	3.55	4.55	5.52	6.49	7.46	8.44	9.41	10.41	11.43	12.67	3 / 1			
reaction time		interval		1.03	1.00	0.97	0.97	0.97	0.98	0.97	1.00	1.02	1.24		3.00	2.92	2.99
wind	0.0 m/s	velocity	5.16	8.25	8.50	8.76	8.76	8.76	8.67	8.76	8.50	8.33	8.10	7.89	8.50	8.73	8.53

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	3.52	4.48	5.45	6.39	7.33	8.28	9.25	10.23	11.21	12.41	5 / 1			
reaction time	0.159	interval		1.02	0.96	0.97	0.94	0.94	0.95	0.97	0.98	0.98	1.20	NR PB	2.95	2.83	2.93
wind	-0.4 m/s	velocity	5.20	8.33	8.85	8.76	9.04	9.04	8.95	8.76	8.67	8.67	8.38	8.06	8.64	9.01	8.70

FINAL - 2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date	14-Jun-22	time	2.54	3.58	4.56	5.54	6.50	7.46	8.44	9.40	10.42	11.44	12.57	6 / 1			
reaction time	0.164	interval		1.04	0.98	0.98	0.96	0.96	0.98	0.96	1.02	1.02	1.13		3.00	2.90	3.00
wind	0.2 m/s	velocity	5.12	8.17	8.67	8.67	8.85	8.85	8.67	8.85	8.33	8.33	8.89	7.96	8.50	8.79	8.50

FINAL - 2022 African Championships (St. Pierre, MRI) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date	09-Jun-22	time	2.50	3.52	4.54	5.48	6.42	7.40	8.38	9.34	10.34	11.40	12.57	5 / 1			
reaction time		interval		1.02	1.02	0.94	0.94	0.98	0.98	0.96	1.00	1.06	1.17		2.98	2.90	3.02
wind	4.0 m/s	velocity	5.20	8.33	8.33	9.04	9.04	8.67	8.67	8.85	8.50	8.02	8.59	7.96	8.56	8.79	8.44

FINAL - 2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date	03-Jun-22	time	2.58	3.60	4.60	5.60	6.56	7.56	8.54	9.56	10.60	11.64	12.80	6 / 2			
reaction time		interval		1.02	1.00	1.00	0.96	1.00	0.98	1.02	1.04	1.04	1.16		3.02	2.94	3.10
wind	0.2 m/s	velocity	5.04	8.33	8.50	8.50	8.85	8.50	8.67	8.33	8.17	8.17	8.66	7.81	8.44	8.67	8.23

FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	28-May-22	time	2.50	3.53	4.53	5.50	6.48	7.45	8.43	9.40	10.40	11.43	12.58	8 / 2			
reaction time	0.150	interval		1.03	1.00	0.97	0.98	0.97	0.98	0.97	1.00	1.03	1.15		3.00	2.93	3.00
wind	-0.7 m/s	velocity	5.20	8.25	8.50	8.76	8.67	8.76	8.67	8.76	8.50	8.25	8.74	7.95	8.50	8.70	8.50

FINAL - 2022 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	13-May-22	time	2.50	3.53	4.51	5.43	6.40	7.35	8.31	9.30	10.28	11.30	12.44	6 / 2			
reaction time	0.171	interval		1.03	0.98	0.92	0.97	0.95	0.96	0.99	0.98	1.02	1.14		2.93	2.88	2.99
wind	3.8 m/s	velocity	5.20	8.25	8.67	9.24	8.76	8.95	8.85	8.59	8.67	8.33	8.82	8.04	8.70	8.85	8.53

FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date	22-Apr-22	time	2.58	3.63	4.61	5.59	6.55	7.51	8.47	9.47	10.47	11.49	12.61	5 / 4			
reaction time		interval		1.05	0.98	0.98	0.96	0.96	0.96	1.00	1.00	1.02	1.12		3.01	2.88	3.02
wind	0.8 m/s	velocity	5.04	8.10	8.67	8.67	8.85	8.85	8.85	8.50	8.50	8.33	8.97	7.93	8.47	8.85	8.44

FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	09-Sep-21	time	2.50	3.50	4.48	5.42	6.36	7.32	8.26	9.24	10.22	11.26	12.42	3 / 1			
reaction time	0.134	interval		1.00	0.98	0.94	0.94	0.96	0.94	0.98	0.98	1.04	1.16	AR	2.92	2.84	3.00
wind	0.4 m/s	velocity	5.20	8.50	8.67	9.04	9.04	8.85	9.04	8.67	8.67	8.17	8.66	8.05	8.73	8.98	8.50

FINAL - 2021 Memorial van Damme (Brussels, BEL) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	03-Sep-21	time	2.52	3.58	4.58	5.56	6.54	7.50	8.48	9.46	10.46	11.50	12.69	5 / 2			
reaction time	0.163	interval		1.06	1.00	0.98	0.98	0.96	0.98	0.98	1.00	1.04	1.19		3.04	2.92	3.02
wind	0.7 m/s	velocity	5.16	8.02	8.50	8.67	8.67	8.85	8.67	8.67	8.50	8.17	8.45	7.88	8.39	8.73	8.44

FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	28-Aug-21	time	2.54	3.58	4.58	5.56	6.54	7.50	8.48	9.48	10.48	11.48	12.69	4 / 4			
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reaction time	0.155	interval	1.04	1.00	0.98	0.98	0.96	0.98	1.00	1.00	1.00	1.21			3.02	2.92	3.00	
wind	1.7 m/s	velocity	5.12	8.17	8.50	8.67	8.67	8.85	8.67	8.50	8.50	8.50	8.31	7.88	8.44	8.73	8.50	
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	02-Aug-21	time	2.50	3.54	4.54	5.52	6.48	7.44	8.42	9.38	10.38	11.42			12.60	6 / 4		
reaction time	0.161	interval	1.04	1.00	0.98	0.96	0.96	0.98	0.96	1.00	1.04	1.18			PB		3.02 2.90 3.00	
wind	-0.3 m/s	velocity	5.20	8.17	8.50	8.67	8.85	8.85	8.67	8.85	8.50	8.17	8.52	7.94			8.44 8.79 8.50	
Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	01-Aug-21	time	2.46	3.51	4.51	5.48	6.46	7.43	8.39	9.37	10.37	11.43			12.62	5 / 1		
reaction time	0.148	interval	1.05	1.00	0.97	0.98	0.97	0.96	0.98	1.00	1.06	1.19					3.02 2.91 3.04	
wind	-0.8 m/s	velocity	5.28	8.10	8.50	8.76	8.67	8.76	8.85	8.67	8.50	8.02	8.45	7.92			8.44 8.76 8.39	
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	31-Jul-21	time	2.57	3.61	4.59	5.57	6.54	7.49	8.49	9.49	10.49	11.57			12.72	4 / 1		
reaction time	0.134	interval	1.04	0.98	0.98	0.97	0.95	1.00	1.00	1.00	1.08	1.15					3.00 2.92 3.08	
wind	0.4 m/s	velocity	5.06	8.17	8.67	8.67	8.76	8.95	8.50	8.50	8.50	7.87	8.74	7.86			8.50 8.73 8.28	
FINAL - 2021 USATF Golden Games (Walnut, CA) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season</i>					
date	09-May-21	time	2.53	3.57	4.57	5.54	6.50	7.47	8.46	9.45	10.44	11.44			12.61	7 / 3		
reaction time	0.172	interval	1.04	1.00	0.97	0.96	0.97	0.99	0.99	0.99	1.00	1.17					3.01 2.92 2.98	
wind	2.0 m/s	velocity	5.14	8.17	8.50	8.76	8.85	8.76	8.59	8.59	8.59	8.50	8.59	7.93			8.47 8.73 8.56	
FINAL - 2019 IAAF World Championships (Doha, QAT)													<i>CAA Hurdle Development (2019)</i>					
date	06-Oct-19	time	2.53	3.56	4.53	5.50	6.45	7.39	8.35	9.32	10.30	11.30			12.49	7 / 4		
reaction time	0.218	interval	1.03	0.97	0.97	0.95	0.94	0.96	0.97	0.98	1.00	1.19					2.97 2.85 2.95	
wind	0.3 m/s	velocity	5.14	8.25	8.76	8.76	8.95	9.04	8.85	8.76	8.67	8.50	8.45	8.01			8.59 8.95 8.64	
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)													<i>CAA Hurdle Development (2019)</i>					
date	06-Oct-19	time	2.49	3.52	4.49	5.45	6.41	7.38	8.33	9.32	10.30	11.33			12.48	5 / 1		
reaction time	0.124	interval	1.03	0.97	0.96	0.96	0.97	0.95	0.99	0.98	1.03	1.15			=PB		2.96 2.88 3.00	
wind	0.6 m/s	velocity	5.22	8.25	8.76	8.85	8.85	8.76	8.95	8.59	8.67	8.25	8.74	8.01			8.61 8.85 8.50	
Heat 5 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)													<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>					
date	05-Oct-19	time	2.48	3.50	4.48	5.44	6.38	7.34	8.28	9.26	10.26	11.26			12.48	9 / 1		
reaction time	0.121	interval	1.02	0.98	0.96	0.94	0.96	0.94	0.98	1.00	1.00	1.22			PB		2.96 2.84 2.98	
wind	0.2 m/s	velocity	5.24	8.33	8.67	8.85	9.04	8.85	9.04	8.67	8.50	8.50	8.24	8.01			8.61 8.98 8.56	
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	2.53	3.57	4.57	5.54	6.50	7.47	8.44	9.45	10.45	11.47			12.71	4 / 3		
reaction time	0.167	interval	1.04	1.00	0.97	0.96	0.97	0.97	1.01	1.00	1.02	1.24					3.01 2.90 3.03	
wind	-0.2 m/s	velocity	5.14	8.17	8.50	8.76	8.85	8.76	8.76	8.42	8.50	8.33	8.47	7.87			8.47 8.79 8.42	
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	20-Jul-19	time	2.48	3.52	4.52	5.52	6.48	7.44	8.44	9.44	10.48	11.52			12.73	9 / 5		
reaction time	0.153	interval	1.04	1.00	1.00	0.96	0.96	1.00	1.00	1.04	1.04	1.21					3.04 2.92 3.08	
wind	0.8 m/s	velocity	5.24	8.17	8.50	8.50	8.85	8.85	8.50	8.50	8.17	8.17	8.68	7.86			8.39 8.73 8.28	
FINAL - 2019 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	30-May-19	time	2.52	3.58	4.58	5.60	6.60	7.60	8.60	9.60	10.60	11.64			12.85	6 / 3		
reaction time	0.129	interval	1.06	1.00	1.02	1.00	1.00	1.00	1.00	1.00	1.04	1.21					3.08 3.00 3.04	
wind	1.3 m/s	velocity	5.16	8.02	8.50	8.33	8.50	8.50	8.50	8.50	8.50	8.17	8.68	7.78			8.28 8.50 8.39	
FINAL - 2019 Doha Diamond League (Doha, QAT) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	03-May-19	time	2.48	3.50	4.50	5.48	6.46	7.44	8.42	9.42	10.46	11.50			12.73	2 / 2		
reaction time	0.147	interval	1.02	1.00	0.98	0.98	0.98	0.98	1.00	1.04	1.04	1.23					3.00 2.94 3.08	
wind	0.9 m/s	velocity	5.24	8.33	8.50	8.67	8.67	8.67	8.67	8.50	8.17	8.17	8.54	7.86			8.50 8.67 8.28	
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)													<i>Henson (2021) - Athlete First: 2018 year end hurdle report</i>					
date	08-Sep-18	time	2.52	3.56	4.60	5.60	6.60	7.60	8.60	9.60	10.62	11.66			12.96	4 / 5		
reaction time	0.167	interval	1.04	1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.30					3.08 3.00 3.06	
wind	-0.1 m/s	velocity	5.16	8.17	8.17	8.50	8.50	8.50	8.50	8.50	8.33	8.17	8.08	7.72			8.28 8.50 8.33	
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	31-Aug-18	time	2.48	3.56	4.56	5.56	6.54	7.52	8.50	9.48	10.48	11.50			12.69	2 / 4		
reaction time	0.134	interval	1.08	1.00	1.00	0.98	0.98	0.98	0.98	1.00	1.02	1.19					3.08 2.94 3.00	
wind	0.1 m/s	velocity	5.24	7.87	8.50	8.50	8.67	8.67	8.67	8.67	8.50	8.33	8.82	7.88			8.28 8.67 8.50	
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	2.52	3.58	4.56	5.54	6.50	7.48	8.48	9.44	10.46	11.48			12.68	8 / 7		
reaction time	0.151	interval	1.06	0.98	0.98	0.96	0.98	1.00	0.96	1.02	1.02	1.20					3.02 2.94 3.00	
wind	0.6 m/s	velocity	5.16	8.02	8.67	8.67	8.85	8.67	8.50	8.85	8.33	8.33	8.75	7.89			8.44 8.67 8.50	

FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	13-Jul-18	time	2.52	3.54	4.56	5.56	6.56	7.56	8.56	9.56	10.58	11.62	12.87	8 / 5				
reaction time	0.190	interval		1.02	1.02	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.25		3.04	3.00	3.06	
wind	0.1 m/s	velocity	5.16	8.33	8.33	8.50	8.50	8.50	8.50	8.50	8.33	8.17	8.40	7.77	8.39	8.50	8.33	

FINAL - 2018 Spitzen Leichtathletik (Luzern, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	09-Jul-18	time	2.56	3.56	4.60	5.56	6.52	7.52	8.52	9.54	10.56	11.60	12.80	3 / 5				
reaction time		interval		1.00	1.04	0.96	0.96	1.00	1.00	1.02	1.02	1.04	1.20		3.00	2.96	3.08	
wind	0.9 m/s	velocity	5.08	8.50	8.17	8.85	8.85	8.50	8.50	8.33	8.33	8.17	8.75	7.81	8.50	8.61	8.28	

FINAL - 2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	31-May-18	time	2.56	3.62	4.62	5.64	6.64	7.64	8.64	9.64	10.64	11.66	12.86	3 / 3				
reaction time	0.158	interval		1.06	1.00	1.02	1.00	1.00	1.00	1.00	1.00	1.02	1.20		3.08	3.00	3.02	
wind	0.0 m/s	velocity	5.08	8.02	8.50	8.33	8.50	8.50	8.50	8.50	8.50	8.33	8.75	7.78	8.28	8.50	8.44	

FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)*Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60m Hurdles Women*

date	03-Mar-18	time	2.67	3.69	4.74	5.72	6.69						8.05	1 / 7				
reaction time	0.149	interval		1.02	1.05	0.98	0.97						1.36		3.05			
		velocity	4.87	8.33	8.10	8.67	8.76						9.56	12.42	8.36			

Semi-Final 2 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date	11-Aug-17	time	2.52	3.61	4.64	5.66	6.67	7.69	8.69	9.71	10.72	11.75	13.04	9 / 4				
reaction time	0.137	interval		1.09	1.03	1.02	1.01	1.02	1.00	1.02	1.01	1.03	1.29		3.14	3.03	3.06	
wind	0.5 m/s	velocity	5.16	7.80	8.25	8.33	8.42	8.33	8.50	8.33	8.42	8.25	8.14	7.67	8.12	8.42	8.33	

Anderson, Britany (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 - 2022 Weltklasse (Zürich, SUI) (TV Analysis)***Henson (2022) - Athlete First: 2022 year end hurdle report*

date	08-Sep-22	time	2.47	3.47	4.44	5.40	6.36	7.31	8.27	9.24	10.21	11.22	12.42	6 / 3				
reaction time	0.166	interval		1.00	0.97	0.96	0.96	0.95	0.96	0.97	0.97	1.01	1.20		2.93	2.87	2.95	
wind	-0.3 m/s	velocity	5.26	8.50	8.76	8.85	8.85	8.95	8.85	8.76	8.76	8.42	8.38	8.05	8.70	8.89	8.64	

FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	02-Sep-22	time	2.47	3.47	4.45	5.42	6.37	7.34	8.29	9.26	10.23	11.26	12.44	6 / 4				
reaction time	0.145	interval		1.00	0.98	0.97	0.95	0.97	0.95	0.97	0.97	1.03	1.18		2.95	2.87	2.97	
wind	0.1 m/s	velocity	5.26	8.50	8.67	8.76	8.95	8.76	8.95	8.76	8.76	8.25	8.52	8.04	8.64	8.89	8.59	

FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	26-Aug-22	time	2.45	3.47	4.44	5.40	6.37	7.35	8.33	9.31	10.31	11.34	12.59	3 / 5				
reaction time	0.155	interval		1.02	0.97	0.96	0.97	0.98	0.98	0.98	1.00	1.03	1.25		2.95	2.93	3.01	
wind	-0.9 m/s	velocity	5.31	8.33	8.76	8.85	8.76	8.67	8.67	8.67	8.50	8.25	8.04	7.94	8.64	8.70	8.47	

FINAL - 2022 World Athletics Championships (Eugene, OR)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	24-Jul-22	time	2.49	3.48	4.43	5.36	6.31	7.24	8.20	9.18	10.15	11.15	12.23	5 / 2				
reaction time	0.129	interval		0.99	0.95	0.93	0.95	0.93	0.96	0.98	0.97	1.00	1.08		2.87	2.84	2.95	
wind	2.5 m/s	velocity	5.22	8.59	8.95	9.14	8.95	9.14	8.85	8.67	8.76	8.50	9.31	8.18	8.89	8.98	8.64	

Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	24-Jul-22	time	2.50	3.50	4.46	5.42	6.34	7.30	8.26	9.23	10.20	11.20	12.31	3 / 1				
reaction time	0.143	interval		1.00	0.96	0.96	0.92	0.96	0.96	0.97	0.97	1.00	1.11	NR PB	2.92	2.84	2.94	
wind	0.3 m/s	velocity	5.20	8.50	8.85	8.85	9.24	8.85	8.85	8.76	8.76	8.50	9.05	8.12	8.73	8.98	8.67	

Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	23-Jul-22	time	2.56	3.56	4.55	5.50	6.46	7.43	8.40	9.38	10.36	11.36	12.59	4 / 1				
reaction time	0.153	interval		1.00	0.99	0.95	0.96	0.97	0.97	0.98	0.98	1.00	1.23		2.94	2.90	2.96	
wind	-0.3 m/s	velocity	5.08	8.50	8.59	8.95	8.85	8.76	8.76	8.67	8.67	8.50	8.17	7.94	8.67	8.79	8.61	

FINAL - 2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date	14-Jun-22	time	2.60	3.62	4.62	5.58	6.54	7.50	8.48	9.44	10.44	11.44	12.59	4 / 2				
reaction time	0.223	interval		1.02	1.00	0.96	0.96	0.96	0.98	0.96	1.00	1.00	1.15		2.98	2.90	2.96	
wind	0.2 m/s	velocity	5.00	8.33	8.50	8.85	8.85	8.85	8.67	8.85	8.50	8.50	8.74	7.94	8.56	8.79	8.61	

FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	09-Jun-22	time	2.50	3.51	4.48	5.45	6.41	7.34	8.28	9.25	10.23	11.26	12.50	4 / 2				
reaction time	0.182	interval		1.01	0.97	0.97	0.96	0.93	0.94	0.97	0.98	1.03	1.24		2.95	2.83	2.98	
wind	0.1 m/s	velocity	5.20	8.42	8.76	8.76	8.85	9.14	9.04	8.76	8.67	8.25	8.10	8.00	8.64	9.01	8.56	

FINAL - 2022 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	13-May-22	time	2.48	3.52	4.49	5.46	6.40	7.35	8.31	9.30	10.28	11.28	12.44	2 / 2				
reaction time	0.154	interval		1.04	0.97	0.97	0.94	0.95	0.96	0.99	0.98	1.00	1.16		2.98	2.85	2.97	
wind	3.8 m/s	velocity	5.24	8.17	8.76	8.76	9.04	8.95	8.85	8.59	8.67	8.50	8.66	8.04	8.56	8.95	8.59	

FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	19-Mar-22	time	2.50	3.52	4.54	5.54	6.52						7.96	3 / 4				
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reaction time	0.140	interval	1.02	1.02	1.00	0.98								1.44		3.04			
		velocity	5.20	8.33	8.33	8.50	8.67							9.03	7.54	8.39			
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>						
date	02-Aug-21	time	2.48	3.50	4.50	5.50	6.48	7.44	8.46	9.48	10.64	11.80		13.24		7 / 8			
reaction time	0.164	interval	1.02	1.00	1.00	0.98	0.96	1.02	1.02	1.16	1.16	1.44				3.02	2.96	3.34	
wind	-0.3 m/s	velocity	5.24	8.33	8.50	8.50	8.67	8.85	8.33	8.33	7.33	7.33	6.98	7.55		8.44	8.61	7.63	
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>						
date	01-Aug-21	time	2.50	3.50	4.52	5.50	6.45	7.38	8.30	9.25	10.25	11.25		12.40		4 / 1			
reaction time	0.166	interval	1.00	1.02	0.98	0.95	0.93	0.92	0.95	1.00	1.00	1.15	PB			3.00	2.80	2.95	
wind	0.0 m/s	velocity	5.20	8.50	8.33	8.67	8.95	9.14	9.24	8.95	8.50	8.50	8.74	8.06		8.50	9.11	8.64	
Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>						
date	31-Jul-21	time	2.57	3.58	4.61	5.61	6.61	7.58	8.56	9.54	10.54	11.55		12.67		9 / 1			
reaction time		interval	1.01	1.03	1.00	1.00	0.97	0.98	0.98	1.00	1.01	1.12				3.04	2.95	2.99	
wind	-1.1 m/s	velocity	5.06	8.42	8.25	8.50	8.50	8.76	8.67	8.67	8.50	8.42	8.97	7.89		8.39	8.64	8.53	
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	2.48	3.50	4.53	5.50	6.48	7.47	8.46	9.50	10.51	11.56		12.80		2 / 4			
reaction time	0.134	interval	1.02	1.03	0.97	0.98	0.99	0.99	1.04	1.01	1.05	1.24				3.02	2.96	3.10	
wind	0.2 m/s	velocity	5.24	8.33	8.25	8.76	8.67	8.59	8.59	8.17	8.42	8.10	8.10	7.81		8.44	8.61	8.23	
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>						
date	13-Jul-21	time	2.56	3.57	4.57	5.56	6.55	7.52	8.49	9.54	10.54	11.61		12.81		5 / 5			
reaction time	0.191	interval	1.01	1.00	0.99	0.99	0.97	0.97	1.05	1.00	1.07	1.20				3.00	2.93	3.12	
wind	1.5 m/s	velocity	5.08	8.42	8.50	8.59	8.59	8.76	8.76	8.10	8.50	7.94	8.37	7.81		8.50	8.70	8.17	
FINAL - 2021 USATF Grand Prix (Eugene, OR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>						
date	24-Apr-21	time	2.53	3.54	4.54	5.50	6.47	7.47	8.46	9.46	10.50	11.57		12.82		8 / 2			
reaction time		interval	1.01	1.00	0.96	0.97	1.00	0.99	1.00	1.04	1.07	1.25				2.97	2.96	3.11	
wind	-0.3 m/s	velocity	5.14	8.42	8.50	8.85	8.76	8.50	8.59	8.50	8.17	7.94	8.04	7.80		8.59	8.61	8.20	
FINAL - 2020 Millrose Games (New York, NY)													<i>PrimeTime Timing (2020) - http://results.nyrrmillrosegames.org/</i>						
date	08-Feb-20	time	2.60	3.63	4.60	5.60	6.57							8.02		7 / 4			
reaction time	0.168	interval	1.03	0.97	1.00	0.97							1.45	NJR PB		3.00			
		velocity	5.00	8.25	8.76	8.50	8.76						8.97	7.48		8.50			
FINAL - 2020 New Balance Indoor Grand Prix (Boston, MA)													<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>						
date	25-Jan-20	time	2.69	3.72	4.71	5.71	6.70							8.07		7 / 4			
reaction time		interval	1.03	0.99	1.00	0.99							1.37	NJR PB		3.02			
		velocity	4.83	8.25	8.59	8.50	8.59						9.49	7.43		8.44			
Heat 2 - 2020 New Balance Indoor Grand Prix (Boston, MA)													<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>						
date	25-Jan-20	time	2.72	3.75	4.74	5.74	6.72							8.12		6 / 3			
reaction time		interval	1.03	0.99	1.00	0.98							1.40	PB		3.02			
		velocity	4.78	8.25	8.59	8.50	8.67						9.29	7.39		8.44			
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)													<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>						
date	15-Jul-18	time	2.66	3.67	4.70	5.69	6.70	7.70	8.72	9.73	10.78	11.84		13.01		6 / 2			
reaction time	0.190	interval	1.01	1.03	0.99	1.01	1.00	1.02	1.01	1.05	1.06	1.17	PB			3.03	3.03	3.12	
wind	-1.0 m/s	velocity	4.89	8.42	8.25	8.59	8.42	8.50	8.33	8.42	8.10	8.02	8.97	7.69		8.42	8.42	8.17	
Anderson, Katie (CAN) (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	10-Aug-97	time	2.54	3.58	4.58	5.58	6.56	7.56	8.56	9.60	10.64	11.72		12.88		8 / 6			
reaction time	0.127	interval	1.04	1.00	1.00	0.98	1.00	1.00	1.04	1.04	1.08	1.16				3.04	2.98	3.16	
wind	-0.3 m/s	velocity	5.12	8.17	8.50	8.50	8.67	8.50	8.50	8.17	8.17	7.87	9.05	7.76		8.39	8.56	8.07	
Ando, Manami (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)													<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data</i>						
date	08-Aug-19	time	2.72	3.81	4.90	6.03	7.17	8.33	9.51	10.67	11.84	13.05		14.36		8 / 5			
reaction time		interval	1.09	1.09	1.13	1.14	1.16	1.18	1.16	1.17	1.21	1.31				3.31	3.48	3.54	
wind	-4.1 m/s	velocity	4.78	7.80	7.80	7.52	7.46	7.33	7.20	7.33	7.26	7.02	8.02	6.96		7.70	7.33	7.20	
Anisimova, Tatyana (URS) (1949)			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)													<i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>						
date	11-Jul-81	time	2.60	3.61	4.62	5.62	6.62	7.62	8.62	9.62	10.62	11.64		12.79		1 / 1			
reaction time		interval	1.01	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.15				3.02	3.00	3.02	
wind	0.3 m/s	velocity	5.00	8.42	8.42	8.50	8.50	8.50	8.50	8.50	8.50	8.33	9.13	7.82		8.44	8.50	8.44	
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	2.49	3.50	4.48	5.46	6.45	7.45	8.44	9.45	10.46	11.50		12.68		1 / 1			

reaction time		interval	1.01	0.98	0.98	0.99	1.00	0.99	1.01	1.01	1.04	1.18		2.97	2.98	3.06	
wind	0.0 m/s	velocity	5.22	8.42	8.67	8.67	8.59	8.50	8.59	8.42	8.42	8.17	8.90	7.89	8.59	8.56	8.33

A FINAL - 1979 VII USSR Spartakiade (Moscow, URS) *Balachničiv (1981) - Periodisierung & Zyklisierung des Trainings 78/79 Hürdenläuferinnen der Spitzenklasse der UdSSR*

date	25-Jul-79	time	2.58	3.66	4.66	5.64	6.64	7.62	8.60	9.64	10.65	11.70	12.90	/ 1			
reaction time		interval	1.08	1.00	0.98	1.00	0.98	0.98	1.04	1.01	1.05	1.20			3.06	2.96	3.10
wind	???	velocity	5.04	7.87	8.50	8.67	8.50	8.67	8.67	8.17	8.42	8.10	8.75	7.75	8.33	8.61	8.23

FINAL - 1976 Olympic Games (Montreal, CAN)*Ilyin (1979) - successes of women hurdlers*

date	29-Jul-76	time	2.62	3.66	4.68	5.68	6.66	7.64	8.62	9.60	10.60	11.60	12.78	3 / 2			
reaction time		interval	1.04	1.02	1.00	0.98	0.98	0.98	0.98	1.00	1.00	1.18	PB		3.06	2.94	2.98
wind	0.0 m/s	velocity	4.96	8.17	8.33	8.50	8.67	8.67	8.67	8.67	8.50	8.50	8.90	7.82	8.33	8.67	8.56

Antonova, Aleksandra (RUS) (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	2.63	3.66	4.69	5.69	6.68	7.67	8.70	9.72	10.78	11.84	12.97	/ 3			
reaction time		interval	1.03	1.03	1.00	0.99	0.99	1.03	1.02	1.06	1.06	1.13			3.06	3.01	3.14
wind	0.9 m/s	velocity	4.94	8.25	8.25	8.50	8.59	8.59	8.25	8.33	8.02	8.02	9.29	7.71	8.33	8.47	8.12

Aoki, Masumi (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 - 2023 World Athletics Championships (Budapest, HUN)** *Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date	22-Aug-23	time	2.64	3.70	4.75	5.78	6.81	7.85	8.88	9.93	10.99	12.08	13.26	4 / 8			
reaction time		interval	1.06	1.05	1.03	1.03	1.04	1.03	1.05	1.06	1.09	1.18			3.14	3.10	3.20
wind	0.1 m/s	velocity	4.92	8.02	8.10	8.25	8.25	8.17	8.25	8.10	8.02	7.80	8.52	7.54	8.12	8.23	7.97

FINAL - 2023 Japanese National Championships (Osaka, JPN)*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date	03-Jun-23	time	2.60	3.65	4.67	5.68	6.69	7.70	8.71	9.73	10.78	11.84	12.95	5 / 2			
reaction time		interval	1.05	1.02	1.01	1.01	1.01	1.01	1.01	1.02	1.05	1.06	1.11		3.08	3.03	3.13
wind	-1.2 m/s	velocity	5.00	8.10	8.33	8.42	8.42	8.42	8.42	8.33	8.10	8.02	9.05	7.72	8.28	8.42	8.15

FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date	21-May-23	time	2.60	3.62	4.63	5.63	6.65	7.64	8.65	9.66	10.71	11.80	12.94	7 / 5			
reaction time		interval	1.02	1.01	1.00	1.02	0.99	1.01	1.01	1.05	1.09	1.14			3.03	3.02	3.15
wind	0.4 m/s	velocity	5.00	8.33	8.42	8.50	8.33	8.59	8.42	8.42	8.10	7.80	8.82	7.73	8.42	8.44	8.10

FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date	29-Apr-23	time	2.62	3.65	4.69	5.70	6.72	7.75	8.77	9.79	10.83	11.87	12.98	5 / 2			
reaction time		interval	1.03	1.04	1.01	1.02	1.03	1.02	1.02	1.04	1.04	1.11			3.08	3.07	3.10
wind	0.6 m/s	velocity	4.96	8.25	8.17	8.42	8.33	8.25	8.33	8.33	8.17	8.17	9.05	7.70	8.28	8.31	8.23

Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	24-Jul-22	time	2.59	3.65	4.68	5.69	6.69	7.70	8.76	9.81	10.88	11.95	13.04	2 / 6			
reaction time		interval	1.06	1.03	1.01	1.00	1.01	1.06	1.05	1.07	1.07	1.09			3.10	3.07	3.19
wind	-0.1 m/s	velocity	5.02	8.02	8.25	8.42	8.50	8.42	8.02	8.10	7.94	7.94	9.22	7.67	8.23	8.31	7.99

FINAL - 2022 Japanese National Championships (Osaka, JPN)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	11-Jun-22	time	2.64	3.72	4.75	5.80	6.86	7.90	8.96	10.01	11.08	12.16	13.28	7 / 2			
reaction time		interval	1.08	1.03	1.05	1.06	1.04	1.06	1.05	1.07	1.08	1.12			3.16	3.16	3.20
wind	0.8 m/s	velocity	4.92	7.87	8.25	8.10	8.02	8.17	8.02	8.10	7.94	7.87	8.97	7.53	8.07	8.07	7.97

FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	08-May-22	time	2.63	3.71	4.75	5.78	6.82	7.87	8.91	10.09	11.27	12.49	13.91	5 / 9			
reaction time		interval	1.08	1.04	1.03	1.04	1.05	1.04	1.18	1.18	1.22	1.42			3.15	3.13	3.58
wind	-0.1 m/s	velocity	4.94	7.87	8.17	8.25	8.17	8.10	8.17	7.20	7.20	6.97	7.08	7.19	8.10	8.15	7.12

FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	29-Apr-22	time	2.62	3.70	4.77	5.83	6.87	7.91	8.96	10.01	11.07	12.12	13.25	4 / 3			
reaction time		interval	1.08	1.07	1.06	1.04	1.04	1.05	1.05	1.06	1.05	1.13			3.21	3.13	3.16
wind	-2.8 m/s	velocity	4.96	7.87	7.94	8.02	8.17	8.17	8.10	8.10	8.02	8.10	8.89	7.55	7.94	8.15	8.07

Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	31-Jul-21	time	2.69	3.74	4.78	5.81	6.86	7.90	8.94	9.97	11.14	12.26	13.59	2 / 7			
reaction time		interval	1.05	1.04	1.03	1.05	1.04	1.04	1.03	1.17	1.12	1.33			3.12	3.13	3.32
wind	0.4 m/s	velocity	4.83	8.10	8.17	8.25	8.10	8.17	8.17	8.25	7.26	7.59	7.56	7.36	8.17	8.15	7.68

FINAL - 2021 Fuse Sprint (Tottori, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	06-Jun-21	time	2.62	3.67	4.69	5.68	6.68	7.68	8.69	9.70	10.74	11.77	12.87	4 / 1			
reaction time		interval	1.05	1.02	0.99	1.00	1.00	1.01	1.01	1.04	1.03	1.10	=NR PB		3.06	3.01	3.08
wind	1.8 m/s	velocity	4.96	8.10	8.33	8.59	8.50	8.50	8.42	8.42	8.17	8.25	9.14	7.77	8.33	8.47	8.28

FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	09-May-21	time	2.59	3.64	4.68	5.71	6.72	7.74	8.76	9.82	10.87	11.94	13.06	6 / 2			
reaction time		interval	1.05	1.04	1.03	1.01	1.02	1.02	1.06	1.05	1.07	1.12			3.12	3.05	3.18

wind	-0.8 m/s	velocity	5.02	8.10	8.17	8.25	8.42	8.33	8.33	8.02	8.10	7.94	8.97	7.66	8.17	8.36	8.02
FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)			<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>														
date	29-Apr-21	time	2.63	3.68	4.75	5.81	6.85	7.91	8.96	10.02	11.10	12.19	13.34	3 / 4			
reaction time		interval	1.05	1.07	1.06	1.04	1.06	1.05	1.06	1.08	1.09	1.15			3.18	3.15	3.23
wind	1.6 m/s	velocity	4.94	8.10	7.94	8.02	8.17	8.02	8.10	8.02	7.87	7.80	8.74	7.50	8.02	8.10	7.89
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>														
date	24-Oct-20	time	2.72	3.80	4.86	5.91	6.97	8.04	9.10	10.20	11.32	12.44	13.48	7 / 3			
reaction time		interval	1.08	1.06	1.05	1.06	1.07	1.06	1.10	1.12	1.12	1.04			3.19	3.19	3.34
wind	-1.4 m/s	velocity	4.78	7.87	8.02	8.10	8.02	7.94	8.02	7.73	7.59	7.59	9.66	7.42	7.99	7.99	7.63
FINAL - 2020 Japanese National Championships (Niigata, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>														
date	03-Oct-20	time	2.58	3.63	4.65	5.66	6.69	7.71	8.74	9.78	10.82	11.89	13.02	6 / 1			
reaction time	0.115	interval	1.05	1.02	1.01	1.03	1.02	1.03	1.04	1.04	1.07	1.13	PB		3.08	3.08	3.15
wind	-0.1 m/s	velocity	5.04	8.10	8.33	8.42	8.25	8.33	8.25	8.17	8.17	7.94	8.89	7.68	8.28	8.28	8.10
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>														
date	20-Sep-20	time	2.62	3.67	4.70	5.72	6.73	7.75	8.77	9.80	10.86	11.93	13.13	6 / 1			
reaction time	0.152	interval	1.05	1.03	1.02	1.01	1.02	1.02	1.03	1.06	1.07	1.20			3.10	3.05	3.16
wind	0.0 m/s	velocity	4.96	8.10	8.25	8.33	8.42	8.33	8.33	8.25	8.02	7.94	8.37	7.62	8.23	8.36	8.07
FINAL - 2020 Athlete Night Games (Fukui, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>														
date	29-Aug-20	time	2.62	3.64	4.68	5.68	6.69	7.68	8.69	9.71	10.73	11.78	12.87	1 / 1			
reaction time		interval	1.02	1.04	1.00	1.01	0.99	1.01	1.02	1.02	1.05	1.09			3.06	3.01	3.09
wind	2.1 m/s	velocity	4.96	8.33	8.17	8.50	8.42	8.59	8.42	8.33	8.33	8.10	9.22	7.77	8.33	8.47	8.25
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>														
date	23-Aug-20	time	2.65	3.70	4.72	5.74	6.77	7.79	8.83	9.86	10.90	11.96	13.09	7 / 2			
reaction time	0.131	interval	1.05	1.02	1.02	1.03	1.02	1.04	1.03	1.04	1.06	1.13	PB		3.09	3.09	3.13
wind	0.3 m/s	velocity	4.91	8.10	8.33	8.33	8.25	8.33	8.17	8.25	8.17	8.02	8.89	7.64	8.25	8.25	8.15
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)			<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>														
date	29-Jun-19	time	2.62	3.65	4.68	5.71	6.74	7.77	8.81	9.86	10.92	11.99	13.15	6 / 2			
reaction time	0.123	interval	1.03	1.03	1.03	1.03	1.03	1.04	1.05	1.06	1.07	1.16	PB		3.09	3.10	3.18
wind	0.6 m/s	velocity	4.96	8.25	8.25	8.25	8.25	8.25	8.17	8.10	8.02	7.94	9.05	7.60	8.25	8.23	8.02
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	3.66	4.69	5.70	6.72	7.75	8.78	9.81	10.87	11.92	13.11	6 / 3			
reaction time	0.141	interval	1.06	1.03	1.01	1.02	1.03	1.03	1.03	1.03	1.06	1.05	1.19		3.10	3.08	3.14
wind	3.5 m/s	velocity	5.00	8.02	8.25	8.42	8.33	8.25	8.25	8.25	8.02	8.10	8.82	7.63	8.23	8.28	8.12
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)			<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>														
date	19-May-19	time	2.63	3.68	4.72	5.76	6.79	7.82	8.87	9.92	10.99	12.12	13.37	3 / 9			
reaction time	0.132	interval	1.05	1.04	1.04	1.03	1.03	1.05	1.05	1.07	1.13	1.25			3.13	3.11	3.25
wind	0.4 m/s	velocity	4.94	8.10	8.17	8.17	8.25	8.25	8.10	8.10	7.94	7.52	8.40	7.48	8.15	8.20	7.85
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	3.68	4.75	5.81	6.84	7.88	8.90	9.96	11.02	12.09	13.27	3 / 3			
reaction time		interval	1.08	1.07	1.06	1.03	1.04	1.02	1.06	1.06	1.07	1.18			3.21	3.09	3.19
wind	0.6 m/s	velocity	5.00	7.87	7.94	8.02	8.25	8.17	8.33	8.02	8.02	7.94	8.90	7.54	7.94	8.25	7.99
FINAL - 2019 Asian Athletics Championships (Doha, QAT)			<i>CAA Hurdle Development (2019)</i>														
date	24-Apr-19	time	2.63	3.69	4.73	5.77	6.79	7.82	8.87	9.94	11.00	12.10	13.28	7 / 3			
reaction time	0.156	interval	1.06	1.04	1.04	1.02	1.03	1.05	1.07	1.06	1.10	1.18			3.14	3.10	3.23
wind	1.3 m/s	velocity	4.94	8.02	8.17	8.17	8.33	8.25	8.10	7.94	8.02	7.73	8.90	7.53	8.12	8.23	7.89
Heat 1 - 2019 Asian Athletics Championships (Doha, QAT)			<i>CAA Hurdle Development (2019)</i>														
date	23-Apr-19	time	2.63	3.70	4.75	5.80	6.84	7.87	8.91	9.96	11.01	12.11	13.31	7 / 2			
reaction time	0.151	interval	1.07	1.05	1.05	1.04	1.03	1.04	1.05	1.05	1.10	1.20			3.17	3.11	3.20
wind	1.3 m/s	velocity	4.94	7.94	8.10	8.10	8.17	8.25	8.17	8.10	8.10	7.73	8.75	7.51	8.04	8.20	7.97
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>														
date	24-Jun-18	time	2.65	3.70	4.73	5.77	6.79	7.81	8.83	9.86	10.90	11.96	13.17	7 / 1			
reaction time	0.174	interval	1.05	1.03	1.04	1.02	1.02	1.02	1.03	1.04	1.06	1.21	PB		3.12	3.06	3.13
wind	1.1 m/s	velocity	4.91	8.10	8.25	8.17	8.33	8.33	8.33	8.25	8.17	8.02	8.68	7.59	8.17	8.33	8.15
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>														
date	20-May-18	time	2.63	3.69	4.76	5.81	6.86	7.90	8.95	10.03	11.15	12.27	13.51	2 / 6			
reaction time	0.141	interval	1.06	1.07	1.05	1.05	1.04	1.05	1.08	1.12	1.12	1.24			3.18	3.14	3.32
wind	-0.6 m/s	velocity	4.94	8.02	7.94	8.10	8.10	8.17	8.10	7.87	7.59	7.59	8.47	7.40	8.02	8.12	7.68
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>														

date	06-May-18	time	2.73	3.82	4.90	5.95	7.01	8.07	9.16	10.26	11.37	12.51	13.76	9 / 7				
reaction time		interval		1.09	1.08	1.05	1.06	1.06	1.09	1.10	1.11	1.14	1.25		3.22	3.21	3.35	
wind	-0.5 m/s	velocity	4.76	7.80	7.87	8.10	8.02	8.02	7.80	7.73	7.66	7.46	8.40	7.27	7.92	7.94	7.61	
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>				
date	29-Apr-18	time	2.67	3.74	4.81	5.86	6.91	7.93	9.00	10.06	11.13	12.22	13.44	7 / 7				
reaction time		interval		1.07	1.07	1.05	1.05	1.02	1.07	1.06	1.07	1.09	1.22		3.19	3.14	3.22	
wind	3.6 m/s	velocity	4.87	7.94	7.94	8.10	8.10	8.33	7.94	8.02	7.94	7.80	8.61	7.44	7.99	8.12	7.92	
FINAL - 2017 National Sports Festival (Matsuyama, JPN)														<i>(2017.10.10) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	09-Oct-17	time	2.61	3.69	4.72	5.76	6.78	7.79	8.83	9.88	10.94	12.01	13.18	5 / 1				
reaction time	0.128	interval		1.08	1.03	1.04	1.02	1.01	1.04	1.05	1.06	1.07	1.17		PB	3.15	3.07	3.18
wind	0.5 m/s	velocity	4.98	7.87	8.25	8.17	8.33	8.42	8.17	8.10	8.02	7.94	8.97	7.59	8.10	8.31	8.02	
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>				
date	07-May-17	time	2.64	3.71	4.77	5.80	6.84	7.88	8.93	9.98	11.03	12.10	13.27	2 / 2				
reaction time		interval		1.07	1.06	1.03	1.04	1.04	1.05	1.05	1.05	1.07	1.17		PB	3.16	3.13	3.17
wind	-0.2 m/s	velocity	4.92	7.94	8.02	8.25	8.17	8.17	8.10	8.10	8.10	7.94	8.97	7.54	8.07	8.15	8.04	
FINAL - 2017 Michitaka Memorial (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>				
date	07-May-17	time	2.69	3.75	4.81	5.86	6.91	7.95	9.04	10.12	11.20	12.30	13.52	7 / 4				
reaction time		interval		1.06	1.06	1.05	1.05	1.04	1.09	1.08	1.08	1.10	1.22		3.17	3.18	3.26	
wind	-0.6 m/s	velocity	4.83	8.02	8.02	8.10	8.10	8.17	7.80	7.87	7.87	7.73	8.61	7.40	8.04	8.02	7.82	
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	2.65	3.73	4.76	5.79	6.84	7.88	8.96	10.03	11.12	12.22	13.38	3 / 3				
reaction time	0.146	interval		1.08	1.03	1.03	1.05	1.04	1.08	1.07	1.09	1.10	1.16		3.14	3.17	3.26	
wind	2.1 m/s	velocity	4.91	7.87	8.25	8.25	8.10	8.17	7.87	7.94	7.80	7.73	9.05	7.47	8.12	8.04	7.82	
FINAL - 2016 Japanese University Championships (Hiratsuka, JPN)														<i>(2016.06.11) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	10-Jun-16	time	2.65	3.70	4.76	5.79	6.83	7.89	8.94	10.00	11.09	12.19	13.33	3 / 1				
reaction time	0.141	interval		1.05	1.06	1.03	1.04	1.06	1.05	1.06	1.09	1.10	1.14		3.14	3.15	3.25	
wind	1.9 m/s	velocity	4.91	8.10	8.02	8.25	8.17	8.02	8.10	8.02	7.80	7.73	9.21	7.50	8.12	8.10	7.85	
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	3.80	4.95	6.06	7.14	8.23	9.33	10.42	11.54	12.69	13.96	8 / 8				
reaction time		interval		1.11	1.15	1.11	1.08	1.09	1.10	1.09	1.12	1.15	1.27		3.37	3.27	3.36	
wind	1.1 m/s	velocity	4.83	7.66	7.39	7.66	7.87	7.80	7.73	7.80	7.59	7.39	8.27	7.16	7.57	7.80	7.59	
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	27-Jun-15	time	2.67	3.71	4.76	5.83	6.87	7.92	8.97	10.04	11.15	12.24	13.42	7 / 3				
reaction time	0.163	interval		1.04	1.05	1.07	1.04	1.05	1.05	1.07	1.11	1.09	1.18		3.16	3.14	3.27	
wind	-0.2 m/s	velocity	4.87	8.17	8.10	7.94	8.17	8.10	8.10	7.94	7.66	7.80	8.90	7.45	8.07	8.12	7.80	
FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)														<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>				
date	10-May-15	time	2.68	3.75	4.81	5.86	6.90	7.95	9.04	10.13	11.23	12.35	13.59	8 / 7				
reaction time	0.167	interval		1.07	1.06	1.05	1.04	1.05	1.09	1.09	1.10	1.12	1.24		3.18	3.18	3.31	
wind	0.9 m/s	velocity	4.85	7.94	8.02	8.10	8.17	8.10	7.80	7.80	7.73	7.59	8.47	7.36	8.02	8.02	7.70	
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	2.65	3.76	4.85	5.90	6.95	8.00	9.08	10.18	11.30	12.42	13.65	/ 6				
reaction time		interval		1.11	1.09	1.05	1.05	1.05	1.08	1.10	1.12	1.12	1.23		3.25	3.18	3.34	
wind	0.2 m/s	velocity	4.91	7.66	7.80	8.10	8.10	8.10	7.87	7.73	7.59	7.59	8.54	7.33	7.85	8.02	7.63	
Araujo, Martha (COL) (1996)																		
Heptathlon - Heat 3 - 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
date	08-Aug-24	time	2.52	3.60	4.63	5.64	6.65	7.67	8.70	9.74	10.78	11.84	13.15	5 / 4				
reaction time	0.160	interval		1.08	1.03	1.01	1.01	1.02	1.03	1.04	1.04	1.06	1.31		3.12	3.06	3.14	
wind	-0.1 m/s	velocity	5.16	7.87	8.25	8.42	8.42	8.33	8.25	8.17	8.17	8.02	7.67	7.60	8.17	8.33	8.12	
Heptathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>				
date	19-Aug-23	time	2.68	3.72	4.78	5.85	6.88	7.95	8.98	10.08	11.18	12.32	13.65	9 / 7				
reaction time	0.171	interval		1.04	1.06	1.07	1.03	1.07	1.03	1.10	1.10	1.14	1.33		3.17	3.13	3.34	
wind	-0.2 m/s	velocity	4.85	8.17	8.02	7.94	8.25	7.94	8.25	7.73	7.73	7.46	7.56	7.33	8.04	8.15	7.63	
Argunova, Nina (RUS) (1989)																		
FINAL - 2012 Windsprint (Sundsvall, SWE)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
date	17-Jun-12	time	2.77	3.83	4.85	5.89	6.91	7.91	8.97	10.02	11.07	12.14	13.38	/ 1				
reaction time		interval		1.06	1.02	1.04	1.02	1.00	1.06	1.05	1.05	1.07	1.24		3.12	3.08	3.17	
wind	0.8 m/s	velocity	4.69	8.02	8.33	8.17	8.33	8.50	8.02	8.10	8.10	7.94	8.47	7.47	8.17	8.28	8.04	
Armstrong, Alia (USA) (2000)																		
FINAL - 2024 USA Olympic Trials (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: 2024 year end hurdle report</i>				

date	30-Jun-24	time	2.54	3.57	4.60	5.58	6.56	7.54	8.54	9.57	10.60	11.68		12.89	9 / 9			
reaction time		interval		1.03	1.03	0.98	0.98	0.98	1.00	1.03	1.03	1.08	1.21			3.04	2.96	3.14
wind	0.7 m/s	velocity	5.12	8.25	8.25	8.67	8.67	8.67	8.50	8.25	8.25	7.87	8.31	7.76		8.39	8.61	8.12
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	29-Jun-24	time	2.54	3.55	4.56	5.55	6.52	7.50	8.49	9.48	10.50	11.53		12.67	4 / 4			
reaction time		interval		1.01	1.01	0.99	0.97	0.98	0.99	0.99	1.02	1.03	1.14			3.01	2.94	3.04
wind	0.8 m/s	velocity	5.12	8.42	8.42	8.59	8.76	8.67	8.59	8.59	8.33	8.25	8.82	7.89		8.47	8.67	8.39
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	28-Jun-24	time	2.52	3.55	4.55	5.52	6.52	7.49	8.51	9.51	10.56	11.61		12.74	2 / 3			
reaction time		interval		1.03	1.00	0.97	1.00	0.97	1.02	1.00	1.05	1.05	1.13			3.00	2.99	3.10
wind	0.2 m/s	velocity	5.16	8.25	8.50	8.76	8.50	8.76	8.33	8.50	8.10	8.10	8.89	7.85		8.50	8.53	8.23
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	08-Jul-23	time	2.53	3.55	4.53	5.50	6.47	7.45	8.42	9.42	10.44	11.49		12.70	1 / 7			
reaction time		interval		1.02	0.98	0.97	0.97	0.98	0.97	1.00	1.02	1.05	1.21			2.97	2.92	3.07
wind	0.4 m/s	velocity	5.14	8.33	8.67	8.76	8.76	8.67	8.76	8.50	8.33	8.10	8.31	7.87		8.59	8.73	8.31
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	10-Jun-23	time	2.44	3.44	4.41	5.36	6.32	7.29	8.32	9.34	10.36	11.36		12.49	5 / 3			
reaction time		interval		1.00	0.97	0.95	0.96	0.97	1.03	1.02	1.02	1.00	1.13			2.92	2.96	3.04
wind	3.8 m/s	velocity	5.33	8.50	8.76	8.95	8.85	8.76	8.25	8.33	8.33	8.50	8.89	8.01		8.73	8.61	8.39
FINAL - 2022 World Athletics Championships (Eugene, OR)														<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>				
date	24-Jul-22	time	2.44	3.45	4.42	5.36	6.30	7.25	8.21	9.21	10.20	11.23		12.31	6 / 4			
reaction time	0.125	interval		1.01	0.97	0.94	0.94	0.95	0.96	1.00	0.99	1.03	1.08			2.92	2.85	3.02
wind	2.5 m/s	velocity	5.33	8.42	8.76	9.04	9.04	8.95	8.85	8.50	8.59	8.25	9.31	8.12		8.73	8.95	8.44
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	24-Jul-22	time	2.43	3.42	4.37	5.36	6.32	7.28	8.24	9.22	10.22	11.23		12.43	5 / 1			
reaction time	0.153	interval		0.99	0.95	0.99	0.96	0.96	0.96	0.98	1.00	1.01	1.20	PB		2.93	2.88	2.99
wind	-0.1 m/s	velocity	5.35	8.59	8.95	8.59	8.85	8.85	8.85	8.67	8.50	8.42	8.38	8.05		8.70	8.85	8.53
Heat 5 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	23-Jul-22	time	2.46	3.46	4.43	5.38	6.35	7.33	8.33	9.30	10.30	11.30		12.48	3 / 1			
reaction time	0.149	interval		1.00	0.97	0.95	0.97	0.98	1.00	0.97	1.00	1.00	1.18			2.92	2.95	2.97
wind	0.5 m/s	velocity	5.28	8.50	8.76	8.95	8.76	8.67	8.50	8.76	8.50	8.50	8.52	8.01		8.73	8.64	8.59
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	25-Jun-22	time	2.50	3.52	4.52	5.49	6.46	7.42	8.39	9.39	10.38	11.40		12.47	8 / 3			
reaction time		interval		1.02	1.00	0.97	0.97	0.96	0.97	1.00	0.99	1.02	1.07	PB		2.99	2.90	3.01
wind	-1.4 m/s	velocity	5.20	8.33	8.50	8.76	8.76	8.85	8.76	8.50	8.59	8.33	9.39	8.02		8.53	8.79	8.47
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	11-Jun-22	time	2.44	3.44	4.44	5.42	6.40	7.38	8.36	9.36	10.36	11.40		12.57	5 / 1			
reaction time		interval		1.00	1.00	0.98	0.98	0.98	0.98	1.00	1.00	1.04	1.17			2.98	2.94	3.04
wind	-0.2 m/s	velocity	5.33	8.50	8.50	8.67	8.67	8.67	8.67	8.50	8.50	8.17	8.59	7.96		8.56	8.67	8.39
University FINAL - 2022 Texas Relays (Austin, TX) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	26-Mar-22	time	2.47	3.45	4.43	5.37	6.33	7.30	8.26	9.23	10.20	11.18		12.33	4 / 1			
reaction time		interval		0.98	0.98	0.94	0.96	0.97	0.96	0.97	0.97	0.98	1.15			2.90	2.89	2.92
wind	2.5 m/s	velocity	5.26	8.67	8.67	9.04	8.85	8.76	8.85	8.76	8.76	8.67	8.74	8.11		8.79	8.82	8.73
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	20-Jun-21	time	2.43	3.45	4.45	5.47	6.47	7.47	8.47	9.49	10.54	11.59		12.84	1 / 8			
reaction time	0.153	interval		1.02	1.00	1.02	1.00	1.00	1.00	1.02	1.05	1.05	1.25			3.04	3.00	3.12
wind	0.8 m/s	velocity	5.35	8.33	8.50	8.33	8.50	8.50	8.50	8.33	8.10	8.10	8.04	7.79		8.39	8.50	8.17
Semi Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	20-Jun-21	time	2.43	3.43	4.43	5.43	6.40	7.38	8.36	9.36	10.40	11.43		12.65	1 / 5			
reaction time	0.154	interval		1.00	1.00	1.00	0.97	0.98	0.98	1.00	1.04	1.03	1.22	PB		3.00	2.93	3.07
wind	1.2 m/s	velocity	5.35	8.50	8.50	8.50	8.76	8.67	8.67	8.50	8.17	8.25	8.24	7.91		8.50	8.70	8.31
Aron, Haydy (FRA) (1973)																		
			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	09-Aug-02	time	2.72	3.74	4.76	5.76	6.76	7.76	8.76	9.80	10.84	11.92		13.05	1 / 5			
reaction time	0.203	interval		1.02	1.02	1.00	1.00	1.00	1.00	1.04	1.04	1.08	1.13			3.04	3.00	3.16
wind	-0.7 m/s	velocity	4.78	8.33	8.33	8.50	8.50	8.50	8.50	8.17	8.17	7.87	9.29	7.66		8.39	8.50	8.07
Semi-Final 2 - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	2.61	3.66	4.67	5.67	6.66	7.65	8.65	9.67	10.69	11.76		12.93	1 / 2			
reaction time	0.153	interval		1.05	1.01	1.00	0.99	0.99	1.00	1.02	1.02	1.07	1.17	PB		3.06	2.98	3.11

wind 0.6 m/s velocity 4.98 8.10 8.42 8.50 8.59 8.59 8.50 8.33 8.33 7.94 8.97 7.73 8.33 8.56 8.20

Heat 4 - 2002 European Championships (Munich, GER)Graubner (2009) - <http://www.fgs.uni-halle.de>

date 08-Aug-02 time 2.67 3.70 4.72 5.72 6.70 7.69 8.70 9.73 10.78 11.86 13.00 / 1
 reaction time 0.152 interval 1.03 1.02 1.00 0.98 0.99 1.01 1.03 1.05 1.08 1.14 3.05 2.98 3.16
 wind 0.3 m/s velocity 4.87 8.25 8.33 8.50 8.67 8.59 8.42 8.25 8.10 7.87 9.21 7.69 8.36 8.56 8.07

Asagi, Tsukiha (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 3.72 4.78 5.83 6.89 7.95 9.03 10.08 11.20 12.30 13.53 4 / 2
 reaction time 0.134 interval 1.07 1.06 1.05 1.06 1.06 1.08 1.05 1.12 1.10 1.23 PB 3.18 3.20 3.27
 wind 1.8 m/s velocity 4.91 7.94 8.02 8.10 8.02 8.02 7.87 8.10 7.59 7.73 8.17 7.39 8.02 7.97 7.80

FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)

Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season

date 26-Jun-21 time 2.72 3.82 4.93 6.05 7.17 8.31 9.43 10.58 11.73 12.90 14.21 3 / 7
 reaction time 0.148 interval 1.10 1.11 1.12 1.12 1.14 1.12 1.15 1.15 1.17 1.31 3.33 3.38 3.47
 wind 0.2 m/s velocity 4.78 7.73 7.66 7.59 7.59 7.46 7.59 7.39 7.39 7.26 7.67 7.04 7.66 7.54 7.35

U18 FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (76cm)

Enomoto (2019) - research on athlete performance and technique- 2019 data book

date 06-Oct-19 time 2.68 3.76 4.83 5.90 6.98 8.03 9.10 10.18 11.26 12.38 13.65 4 / 2
 reaction time 0.137 interval 1.08 1.07 1.07 1.08 1.05 1.07 1.08 1.08 1.12 1.27 3.22 3.20 3.28
 wind 1.6 m/s velocity 4.85 7.87 7.94 7.94 7.87 8.10 7.94 7.87 7.87 7.59 8.27 7.33 7.92 7.97 7.77

Asba, Haruka (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) - tdata-store.com/2017/04/07/post-249/

date 06-Apr-17 time 2.78 3.98 5.20 6.40 7.59 8.80 10.01 11.27 12.52 13.76 15.16 3 / 7
 reaction time interval 1.20 1.22 1.20 1.19 1.21 1.21 1.26 1.25 1.24 1.40 3.62 3.61 3.75
 wind -1.8 m/s velocity 4.68 7.08 6.97 7.08 7.14 7.02 7.02 6.75 6.80 6.85 7.50 6.60 7.04 7.06 6.80

Atherley, Michelle (USA) (1995)

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

Heptathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis) Henson (2024) - Athlete First: 2022 year end hurdle report

date 17-Jul-22 time 2.63 3.70 4.73 5.73 6.75 7.77 8.78 9.78 10.81 11.91 13.12 4 / 1
 reaction time 0.111 interval 1.07 1.03 1.00 1.02 1.02 1.01 1.00 1.03 1.10 1.21 3.10 3.05 3.13
 wind 0.7 m/s velocity 4.94 7.94 8.25 8.50 8.33 8.33 8.42 8.50 8.25 7.73 8.31 7.62 8.23 8.36 8.15

Augustus, Olutoyin (NGR) (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 - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - biomechanical analyses at the 12th IAAF world championships

date 18-Aug-09 time 2.64 3.70 4.74 5.74 6.74 7.75 8.76 9.78 10.81 11.86 12.99 7 / 3
 reaction time 0.139 interval 1.06 1.04 1.00 1.00 1.01 1.01 1.02 1.03 1.05 1.13 DV 3.10 3.02 3.10
 wind 0.1 m/s velocity 4.92 8.02 8.17 8.50 8.50 8.42 8.42 8.33 8.25 8.10 9.29 7.70 8.23 8.44 8.23

Avikainen, Viivi (FIN) (1987)

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

FINAL - 2020 Finnish National Championships (Turku, FIN) (TV Analysis) Henson (2020) - Athlete First: 2020 year end hurdle report

date 14-Aug-20 time 2.73 3.86 4.93 6.03 7.10 8.16 9.23 10.33 11.43 12.56 13.87 2 / 7
 reaction time 0.163 interval 1.13 1.07 1.10 1.07 1.06 1.07 1.10 1.10 1.10 1.13 3.30 3.20 3.33
 wind 1.0 m/s velocity 4.76 7.52 7.94 7.73 7.94 8.02 7.94 7.73 7.73 7.52 7.67 7.21 7.73 7.97 7.66

FINAL - 2020 Motonet GP (Jyräskylä, FIN) (TV Analysis)

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

date 08-Jul-20 time 2.73 3.83 4.93 6.00 7.06 8.23 9.33 10.46 11.59 12.72 14.10 8 / 6
 reaction time interval 1.10 1.10 1.07 1.06 1.17 1.10 1.13 3.64 3.27 3.33
 wind 0.7 m/s velocity 4.76 7.73 7.73 7.94 8.02 7.26 7.73 7.52 7.43 7.09 7.80 7.66

Ayame, Hinano (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 3.87 4.96 6.04 7.13 8.20 9.31 10.42 11.54 12.68 13.92 2 / 5
 reaction time 0.204 interval 1.10 1.09 1.08 1.09 1.07 1.11 1.11 1.12 1.14 1.24 3.27 3.27 3.37
 wind 0.8 m/s velocity 4.69 7.73 7.80 7.87 7.80 7.94 7.66 7.66 7.59 7.46 8.10 7.18 7.80 7.80 7.57

Ayuhashi, Yumeka (JPN)

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

U18 FINAL - 2018 National Sports Festival (Fukui, JPN) (76cm) Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad

date 07-Oct-18 time 2.71 3.81 4.90 5.94 7.02 8.08 9.17 10.27 11.37 12.50 13.75 1 / 2
 reaction time 0.159 interval 1.10 1.09 1.04 1.08 1.06 1.09 1.10 1.10 1.13 1.25 3.23 3.23 3.33
 wind 2.0 m/s velocity 4.80 7.73 7.80 8.17 7.87 8.02 7.80 7.73 7.73 7.52 8.40 7.27 7.89 7.89 7.66

Azcárate, Nerea (ESP) (1974)

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 01-Aug-98 time 2.60 3.66 4.77 5.84 6.93 7.99 9.08 10.18 11.25 12.39 13.77 4 / 2
 reaction time interval 1.06 1.11 1.07 1.09 1.06 1.09 1.10 1.07 1.14 1.38 3.24 3.24 3.31
 wind 0.0 m/s velocity 5.00 8.02 7.66 7.94 7.80 8.02 7.80 7.73 7.94 7.46 7.61 7.26 7.87 7.87 7.70

Bakker, Sharon (NED) (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 Memorial Van Damme (Brussels, BEL) (TV Analysis) Henson (2020) - Athlete First: 2020 year end hurdle report

date 04-Sep-20 time 2.57 3.67 4.73 dnf 3 / --

reaction time 0.130 interval 1.10 1.06
wind -0.2 m/s velocity 5.06 7.73 8.02

Semi-Final 3 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date 11-Aug-17 time 2.60 3.70 4.75 5.78 6.80 7.80 8.83 9.86 10.91 11.97 13.29 3 / 8
reaction time 0.183 interval 1.10 1.05 1.03 1.02 1.00 1.03 1.03 1.05 1.06 1.32 3.18 3.05 3.14
wind 0.2 m/s velocity 5.00 7.73 8.10 8.25 8.33 8.50 8.25 8.25 8.10 8.02 7.95 7.52 8.02 8.36 8.12

Balzer-Richert, Karin (GDR) (1938)

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 08-Sep-72 time 2.5 3.6 4.6 5.7 6.7 7.7 8.7 9.7 10.7 11.8 12.90 5 / 3
reaction time interval 1.10 1.00 1.10 1.00 1.00 1.00 1.00 1.00 1.10 1.10 **PB** 3.20 3.00 3.10
wind -0.6 m/s velocity 5.20 7.73 8.50 7.73 8.50 8.50 8.50 8.50 8.50 7.73 9.55 7.75 7.97 8.50 8.23

Ban, Nozomi (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)*Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection*

date 02-Aug-18 time 2.69 3.81 4.92 6.00 7.12 8.20 9.32 10.44 11.55 12.68 13.95 2 / 7
reaction time interval 1.12 1.11 1.08 1.12 1.08 1.12 1.12 1.11 1.13 1.27 3.31 3.32 3.36
wind -0.3 m/s velocity 4.83 7.59 7.66 7.87 7.59 7.87 7.59 7.59 7.66 7.52 8.27 7.17 7.70 7.68 7.59

FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)*Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data collection*

date 02-Aug-17 time 2.72 3.86 4.99 6.12 7.26 8.40 9.55 10.72 11.88 13.07 14.35 2 / 7
reaction time 0.159 interval 1.14 1.13 1.13 1.14 1.14 1.15 1.17 1.16 1.19 1.28 3.40 3.43 3.52
wind -2.9 m/s velocity 4.78 7.46 7.52 7.52 7.46 7.46 7.39 7.26 7.33 7.14 8.20 6.97 7.50 7.43 7.24

Bapte, Laetitia (FRA) (1999)

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 08-Aug-24 time 2.46 3.53 4.54 5.53 6.50 7.48 8.49 9.50 10.53 11.60 12.92 8 / 4
reaction time 0.165 interval **7 steps** 1.07 1.01 0.99 0.97 0.98 1.01 1.01 1.03 1.07 1.32 3.07 2.96 3.11
wind 0.4 m/s velocity 5.28 7.94 8.42 8.59 8.76 8.67 8.42 8.42 8.25 7.94 7.61 7.74 8.31 8.61 8.20

Heat 4 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date 07-Aug-24 time 2.48 3.53 4.55 5.54 6.53 7.53 8.55 9.59 10.66 11.72 13.04 8 / 5
reaction time 0.187 interval **7 steps** 1.05 1.02 0.99 0.99 1.00 1.02 1.04 1.07 1.06 1.32 3.06 3.01 3.17
wind 0.0 m/s velocity 5.24 8.10 8.33 8.59 8.59 8.50 8.33 8.17 7.94 8.02 7.61 7.67 8.33 8.47 8.04

Heat 1 - 2024 FBK Games (Hengelo, NED)*Omega Timing (2024) - continental tour gold race analysis*

date 07-Jul-24 time 2.44 3.53 4.53 5.50 6.54 7.57 8.60 9.64 10.68 11.74 13.04 8 / 5
reaction time 0.147 interval **7 steps** 1.09 1.00 0.97 1.04 1.03 1.03 1.04 1.04 1.06 1.30 3.06 3.10 3.14
wind 0.3 m/s velocity 5.33 7.80 8.50 8.76 8.17 8.25 8.25 8.17 8.17 8.02 7.73 7.67 8.33 8.23 8.12

FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)*Omega Timing (2023) - diamond league race analysis*

date 21-Jul-23 time 2.45 3.50 4.50 5.48 6.46 7.44 8.44 9.43 10.45 11.48 12.73 1 / 6
reaction time 0.153 interval **7 steps** 1.05 1.00 0.98 0.98 0.98 1.00 0.99 1.02 1.03 1.25 **PB** 3.03 2.96 3.04
wind 0.6 m/s velocity 5.31 8.10 8.50 8.67 8.67 8.67 8.50 8.59 8.33 8.25 8.04 7.86 8.42 8.61 8.39

FINAL - 2023 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2023) - diamond league race analysis*

date 02-Jul-23 time 2.49 3.56 4.58 5.59 6.59 7.60 8.61 9.63 10.68 11.75 13.09 8 / 8
reaction time 0.171 interval **7 steps** 1.07 1.02 1.01 1.00 1.01 1.01 1.02 1.05 1.07 1.34 3.10 3.02 3.14
wind 0.9 m/s velocity 5.22 7.94 8.33 8.42 8.50 8.42 8.42 8.33 8.10 7.94 7.50 7.64 8.23 8.44 8.12

Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date 24-Jul-22 time 2.53 3.60 4.58 5.58 6.53 7.51 8.51 9.53 10.63 11.68 12.93 1 / 6
reaction time 0.157 interval **7 steps** 1.07 0.98 1.00 0.95 0.98 1.00 1.02 1.10 1.05 1.25 3.05 2.93 3.17
wind 0.3 m/s velocity 5.14 7.94 8.67 8.50 8.95 8.67 8.50 8.33 7.73 8.10 8.04 7.73 8.36 8.70 8.04

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 3.57 4.60 5.60 6.59 7.60 8.61 9.64 10.69 11.76 13.05 2 / 7
reaction time 0.157 interval **7 steps** 1.07 1.03 1.00 0.99 1.01 1.01 1.03 1.05 1.07 1.29 3.10 3.01 3.15
wind -0.4 m/s velocity 5.20 7.94 8.25 8.50 8.59 8.42 8.42 8.25 8.10 7.94 7.79 7.66 8.23 8.47 8.10

FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date 12-Sep-20 time 2.63 3.70 4.79 5.87 6.89 7.90 8.92 9.97 11.04 12.12 13.43 3 / 4
reaction time 0.215 interval **9 steps** 1.07 1.09 1.08 1.02 1.01 1.02 1.05 1.07 1.08 1.31 3.24 3.05 3.20
wind 1.5 m/s velocity 4.94 7.94 7.80 7.87 8.33 8.42 8.33 8.10 7.94 7.87 7.67 7.45 7.87 8.36 7.97

Barber, Aleesha (TTO) (1987)

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 2.47 3.53 4.57 5.60 6.62 7.66 8.70 9.75 10.80 11.89 13.29 1 / 2
reaction time interval 1.06 1.04 1.03 1.02 1.04 1.04 1.05 1.05 1.09 1.40 3.13 3.10 3.19
wind 1.4 m/s velocity 5.26 8.02 8.17 8.25 8.33 8.17 8.17 8.10 8.10 7.80 7.50 7.52 8.15 8.23 7.99

FINAL - 2010 Windsprint (Sundsvall, SWE)*Blomkvist (2010) - 100/110m Hurdles: Development*

date	08-Aug-10	time	2.68	3.72	4.75	5.81	6.83	7.85	8.88	9.94	10.99	12.09		13.31	/ 1				
reaction time		interval		1.04	1.03	1.06	1.02	1.02	1.03	1.06	1.05	1.10	1.22			3.13	3.07	3.21	
wind	0.6 m/s	velocity	4.85	8.17	8.25	8.02	8.33	8.33	8.25	8.02	8.10	7.73	8.61	7.51		8.15	8.31	7.94	
Barber, Jade (USA) (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 Seiko Golden Grand Prix (Yokohama, JPN)																			<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>
date	21-May-23	time	2.64	3.68	4.70	5.71	6.69	7.69	8.69	9.71	10.74	11.85		13.03	8 / 8				
reaction time	0.169	interval		1.04	1.02	1.01	0.98	1.00	1.00	1.02	1.03	1.11	1.18			3.07	2.98	3.16	
wind	0.4 m/s	velocity	4.92	8.17	8.33	8.42	8.67	8.50	8.50	8.33	8.25	7.66	8.52	7.67		8.31	8.56	8.07	
FINAL - 2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)																			<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>
date	03-Jun-22	time	2.60	3.66	4.68	5.68	6.64	7.66	8.66	9.68	10.70	11.76		12.98	8 / 3				
reaction time		interval		1.06	1.02	1.00	0.96	1.02	1.00	1.02	1.02	1.06	1.22			3.08	2.98	3.10	
wind	0.2 m/s	velocity	5.00	8.02	8.33	8.50	8.85	8.33	8.50	8.33	8.33	8.02	8.24	7.70		8.28	8.56	8.23	
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)																			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>
date	29-Apr-18	time	2.67	3.67	4.72	5.73	6.74	7.73	8.75	9.76	10.79	11.83		12.98	6 / 1				
reaction time		interval		1.00	1.05	1.01	1.01	0.99	1.02	1.01	1.03	1.04	1.15			3.06	3.02	3.08	
wind	3.6 m/s	velocity	4.87	8.50	8.10	8.42	8.42	8.59	8.33	8.42	8.25	8.17	9.13	7.70		8.33	8.44	8.28	
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)																			<i>(2017) - tfdata-store.com/2017/05/01/458/</i>
date	29-Apr-17	time	2.64	3.71	4.77	5.81	6.84	7.87	8.89	9.88	10.94	12.00		13.13	5 / 1				
reaction time		interval		1.07	1.06	1.04	1.03	1.03	1.02	0.99	1.06	1.06	1.13			3.17	3.08	3.11	
wind	2.0 m/s	velocity	4.92	7.94	8.02	8.17	8.25	8.25	8.33	8.59	8.02	8.02	9.29	7.62		8.04	8.28	8.20	
Barber, Kaila (USA) (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)																			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>
date	10-Sep-19	time	2.58	3.66	4.80	5.86	6.93	8.00	9.06	10.15	11.20	12.30		13.64	9 / 8				
reaction time	0.192	interval		1.08	1.14	1.06	1.07	1.07	1.06	1.09	1.05	1.10	1.34			3.28	3.20	3.24	
wind	0.1 m/s	velocity	5.04	7.87	7.46	8.02	7.94	7.94	8.02	7.80	8.10	7.73	7.84	7.33		7.77	7.97	7.87	
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)																			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>
date	29-Apr-18	time	2.59	3.68	4.72	5.76	6.78	7.80	8.85	9.88	10.92	12.00		13.21	8 / 5				
reaction time		interval		1.09	1.04	1.04	1.02	1.02	1.05	1.03	1.04	1.08	1.21			3.17	3.09	3.15	
wind	3.6 m/s	velocity	5.02	7.80	8.17	8.17	8.33	8.33	8.10	8.25	8.17	7.87	8.68	7.57		8.04	8.25	8.10	
Barborová, Michaela (CZE) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)																			<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national championships</i>
date	14-Feb-15	time	2.82	3.97	5.13	6.29	7.47												
reaction time	0.357	interval		1.15	1.16	1.16	1.18							1.54		3.47			
wind		velocity	4.61	7.39	7.33	7.33	7.20							8.44	6.66	7.35			
Barrett, Alicia (GBR) (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 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)																			<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>
date	13-Jul-21	time	2.63	3.77	4.82										dnf	1 / --			
reaction time	0.180	interval		1.14	1.05														
wind	1.5 m/s	velocity	4.94	7.46	8.10														
Bates, Joyce (USA) (1977)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1996 USATF National Junior Championships (Delaware, OH)																			<i>USATF Women's Sprint Development (1996)</i>
date	29-Jun-96	time	2.46	3.60	4.63	5.63	6.70	7.73	8.79	9.88	10.95	12.01		13.42	4 / 2				
reaction time		interval		1.14	1.03	1.00	1.07	1.03	1.06	1.09	1.07	1.06	1.41			3.17	3.16	3.22	
wind	-2.5 m/s	velocity	5.28	7.46	8.25	8.50	7.94	8.25	8.02	7.80	7.94	8.02	7.45	7.45		8.04	8.07	7.92	
Batista, Ketiley (BRA) (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 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																			<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>
date	31-Jul-21	time	2.61	3.66	4.69	5.74	6.77	7.81	8.87	9.94	11.01	12.12		13.40	8 / 7				
reaction time		interval		1.05	1.03	1.05	1.03	1.04	1.06	1.07	1.07	1.11	1.28			3.13	3.13	3.25	
wind	-1.1 m/s	velocity	4.98	8.10	8.25	8.10	8.25	8.17	8.02	7.94	7.94	7.66	7.85	7.46		8.15	8.15	7.85	
Baumann, Julie (SUI) (1964)			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	23-Aug-98	time	2.57	3.61	4.66	5.71	6.70	7.74	8.75	9.77	10.79	11.85		13.15	2 / 7				
reaction time		interval		1.04	1.05	1.05	0.99	1.04	1.01	1.02	1.02	1.06	1.30			3.14	3.04	3.10	
wind	1.5 m/s	velocity	5.06	8.17	8.10	8.10	8.59	8.17	8.42	8.33	8.33	8.02	8.08	7.60		8.12	8.39	8.23	
Beaucarne, Chloë (BEL) (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 Memorial Van Damme (Brussels, BEL) (TV Analysis)																			<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>
date	04-Sep-20	time	2.73	3.83	4.93	6.00	7.07	8.13	9.27	10.37	11.50	12.60		13.93	2 / 6				
reaction time	0.179	interval		1.10	1.10	1.07	1.07	1.06	1.14	1.10	1.13	1.10	1.33			3.27	3.27	3.33	
wind	-0.2 m/s	velocity	4.76	7.73	7.73	7.94	7.94	8.02	7.46	7.73	7.52	7.73	7.56	7.18		7.80	7.80	7.66	
Beahan, Brianna (AUS) (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	06-Oct-19	time	2.68	3.71	4.74	5.76	6.78	7.80	8.86	9.92	10.98	12.06		13.38	2 / 3 - 7			
reaction time	0.131	interval		1.03	1.03	1.02	1.02	1.02	1.06	1.06	1.06	1.08	1.32			3.08	3.10	3.20
wind	0.6 m/s	velocity	4.85	8.25	8.25	8.33	8.33	8.33	8.02	8.02	8.02	7.87	7.61	7.47		8.28	8.23	7.97

Beattie, Danielle (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 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)

CAA Hurdle Development (2020)

date	01-Feb-20	time	2.74	3.79	4.83	5.89	6.94							8.30	3 / 3			
reaction time		interval		1.05	1.04	1.06	1.05						1.36			3.15		
		velocity	4.74	8.10	8.17	8.02	8.10						9.56	7.23		8.10		

Benach, Xénia (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 3 - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

date	03-Mar-24	time	2.60	3.66	4.66	5.66	6.70							8.08	7 / 2			
reaction time	0.124	interval		1.06	1.00	1.00	1.04						1.38			3.06		
		velocity	5.00	8.02	8.50	8.50	8.17						9.42	7.43		8.33		

Bendová, Daniela (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) (76cm) Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

date	28-Jun-14	time	2.91	4.13	5.32	6.53	7.74	8.95	10.20	11.43	12.64	13.90		15.26	4 / 4			
reaction time	0.202	interval		1.22	1.19	1.21	1.21	1.21	1.25	1.23	1.21	1.26	1.36			3.62	3.67	3.70
wind	-1.3 m/s	velocity	4.47	6.97	7.14	7.02	7.02	7.02	6.80	6.91	7.02	6.75	7.72	6.55		7.04	6.95	6.89

Berend, Gudrun (GDR) (1955)

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)

Ilyin (1979) - successes of women hurdlers

date	29-Jul-76	time	2.58	3.62	4.64	5.64	6.62	7.62	8.62	9.62	10.64	11.66		12.82	1 / 4			
reaction time		interval		1.04	1.02	1.00	0.98	1.00	1.00	1.00	1.02	1.02	1.16			3.06	2.98	3.04
wind	0.0 m/s	velocity	5.04	8.17	8.33	8.50	8.67	8.50	8.50	8.50	8.33	8.33	9.05	7.80		8.33	8.56	8.39

Berings, Eline (BEL) (1986)

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	2.52	3.54	4.54	5.56	6.56	7.58	8.58	9.62	10.66	11.74		12.94	9 / 7			
reaction time	0.107	interval		1.02	1.00	1.02	1.00	1.02	1.00	1.04	1.04	1.08	1.20			3.04	3.02	3.16
wind	0.1 m/s	velocity	5.16	8.33	8.50	8.33	8.50	8.33	8.50	8.17	8.17	7.87	8.75	7.73		8.39	8.44	8.07

FINAL - 2018 Bislett Games (Oslo, NOR) (TV Analysis)

Henson (2020) - Athlete First: 2018 year end hurdle report

date	07-Jun-18	time	2.52	3.56	4.56	5.56	6.56	7.56	8.58	9.62	10.64	11.66		12.89	8 / 6			
reaction time	0.121	interval		1.04	1.00	1.00	1.00	1.00	1.02	1.04	1.02	1.02	1.23			3.04	3.02	3.08
wind	1.1 m/s	velocity	5.16	8.17	8.50	8.50	8.50	8.50	8.33	8.17	8.33	8.33	8.54	7.76		8.39	8.44	8.28

FINAL - 2013 European Indoor Championships (Göteborg, SWE)

Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx

date	01-Mar-13	time	2.59	3.63	4.68	5.70	6.71							8.08	8 / 6 - 5			
reaction time	0.127	interval		1.04	1.05	1.02	1.01						1.37			3.11		
		velocity	5.02	8.17	8.10	8.33	8.42						9.49	7.43		8.20		

Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)

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

date	19-Aug-09	time	2.60	3.64	4.66	5.66	6.66	7.66	8.67	9.69	10.73	11.79		12.94	1 / 6			
reaction time	0.143	interval		1.04	1.02	1.00	1.00	1.00	1.01	1.02	1.04	1.06	1.15	NR		3.06	3.01	3.12
wind	0.3 m/s	velocity	5.00	8.17	8.33	8.50	8.50	8.50	8.42	8.33	8.17	8.02	9.13	7.73		8.39	8.36	8.20

FINAL - 2009 ISTAF (Berlin, GER)

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

date	14-Jun-09	time	2.67	3.73	4.79	5.81	6.83	7.87	8.90	9.93	10.97	12.04		13.20	/ 8			
reaction time	0.196	interval		1.06	1.06	1.02	1.02	1.04	1.03	1.03	1.04	1.07	1.16			3.14	3.09	3.14
wind	-0.1 m/s	velocity	4.87	8.02	8.02	8.33	8.33	8.17	8.25	8.25	8.17	7.94	9.05	7.58		8.12	8.25	8.12

Heat 4 - 2007 IAAF World Championships (Osaka, JPN) Kawakami (2010) - improving women's 100m hurdle of japanese hurdler- analysis of race patterns based on touchdown times

date	27-Aug-07	time	2.65	3.67	4.70	5.72	6.75	7.75	8.79	9.79	10.82	11.87		12.97	5 / 6			
reaction time	0.124	interval		1.02	1.03	1.02	1.03	1.00	1.04	1.00	1.03	1.05	1.10	NR		3.07	3.07	3.08
wind	0.4 m/s	velocity	4.91	8.33	8.25	8.33	8.25	8.50	8.17	8.50	8.25	8.10	9.55	7.71		8.31	8.31	8.28

Bessho, Miyu (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	2.69	3.77	4.85	5.93	7.00	8.08	9.17	10.29	11.42	12.57		13.83	2 / 6			
reaction time	0.164	interval		1.08	1.08	1.08	1.07	1.08	1.09	1.12	1.13	1.15	1.26			3.24	3.24	3.40
wind	1.0 m/s	velocity	4.83	7.87	7.87	7.87	7.94	7.87	7.80	7.59	7.52	7.39	7.98	7.23		7.87	7.87	7.50

FINAL - 2024 Shimane High School Championships (Izumo, JPN)

Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis

date	26-May-24	time	2.70	3.82	4.90	5.98	7.05	8.13	9.22	10.32	11.43	12.55		13.83	4 / 1			
reaction time		interval		1.12	1.08	1.08	1.07	1.08	1.09	1.10	1.11	1.12	1.28			3.28	3.24	3.33
wind	-1.0 m/s	velocity	4.81	7.59	7.87	7.87	7.94	7.87	7.80	7.73	7.66	7.59	7.85	7.23		7.77	7.87	7.66

FINAL - 2023 Shimane High School Championships (Izumo, JPN)

Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis

date	28-May-23	time	2.72	3.87	4.98	6.12	7.23	8.38	9.53	10.68	11.87	13.05		14.38	4 / 1			
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reaction time	interval	1.15	1.11	1.14	1.11	1.15	1.15	1.15	1.15	1.19	1.18	1.33		3.40	3.41	3.52	
wind	-0.2 m/s	velocity	4.78	7.39	7.66	7.46	7.66	7.39	7.39	7.39	7.14	7.20	7.56	6.95	7.50	7.48	7.24

FINAL - 2022 Shimane High School Championships (Izumo, JPN) Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis

date	28-May-22	time	2.72	3.85	4.98	6.10	7.25	8.40	9.55	10.72	11.92	13.15	14.47	5 / 1			
reaction time	interval	1.13	1.13	1.12	1.15	1.15	1.15	1.17	1.20	1.23	1.32				3.38	3.45	3.60
wind	-0.4 m/s	velocity	4.78	7.52	7.52	7.59	7.39	7.39	7.39	7.26	7.08	6.91	7.61	6.91	7.54	7.39	7.08

Bethel, Ashley (USA) (1980)**FINAL - 1996 USATF National Junior Championships (Delaware, OH)** USATF Women's Sprint Development (1996)

date	29-Jun-96	time	2.60	3.78	4.85	5.97	7.11	8.22	9.41	10.58	11.75	12.91	14.48	7 / 6			
reaction time	interval	1.18	1.07	1.12	1.14	1.11	1.19	1.17	1.17	1.16	1.57				3.37	3.44	3.50
wind	-2.5 m/s	velocity	5.00	7.20	7.94	7.59	7.46	7.66	7.14	7.26	7.26	7.33	6.69	6.91	7.57	7.41	7.29

Bieldt, Taylon (RSA) (1998)**National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)** Omega Timing (2023) - diamond league race analysis

date	02-Jul-23	time	2.49	3.58	4.61	5.60	6.60	7.59	8.59	9.60	10.63	11.65	12.92	4 / 2			
reaction time	0.141	interval	1.09	1.03	0.99	1.00	0.99	1.00	1.01	1.03	1.02	1.27			3.11	2.99	3.06
wind	0.6 m/s	velocity	5.22	7.80	8.25	8.59	8.50	8.59	8.50	8.42	8.25	8.33	7.91	7.74	8.20	8.53	8.33

Billaud, Cindy (FRA) (1986)**FINAL - 2016 Meeting Paris (Saint-Denis, FRA) (TV Analysis)** Henson (2020) - Athlete First: 2016 year end hurdle report

date	27-Aug-16	time	2.54	3.58	4.62	5.64	6.66	7.66	8.66	9.70	10.74	11.80	13.02	2 / 6			
reaction time	0.106	interval	1.04	1.04	1.02	1.02	1.00	1.00	1.04	1.04	1.06	1.22			3.10	3.02	3.14
wind	0.2 m/s	velocity	5.12	8.17	8.17	8.33	8.33	8.50	8.50	8.17	8.17	8.02	8.61	7.68	8.23	8.44	8.12

FINAL - 2016 European Championships (Amsterdam, NED) (TV Analysis) Henson (2020) - Athlete First: 2016 year end hurdle report

date	07-Jul-16	time	2.62	3.66	4.70	5.70	6.68	7.70	8.72	9.78	10.84	11.94	13.29	3 / 7			
reaction time	0.143	interval	1.04	1.04	1.00	0.98	1.02	1.02	1.06	1.06	1.10	1.35			3.08	3.02	3.22
wind	-0.7 m/s	velocity	4.96	8.17	8.17	8.50	8.67	8.33	8.33	8.02	8.02	7.73	7.78	7.52	8.28	8.44	7.92

FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis) Henson (2021) - Athlete First: major championships report

date	17-Aug-13	time	2.56	3.60	4.60	5.58	6.56	7.54	8.54	9.54	10.56	11.60	12.84	3 / 7			
reaction time	0.165	interval	1.04	1.00	0.98	0.98	0.98	1.00	1.00	1.02	1.04	1.24			3.02	2.96	3.06
wind	-0.6 m/s	velocity	5.08	8.17	8.50	8.67	8.67	8.67	8.50	8.50	8.33	8.17	8.47	7.79	8.44	8.61	8.33

Blaßneck, Heike (GER) (1971)**FINAL - 1998 European Championships (Budapest, HUN)** Sanchez (1998) - Budapest '98: análisis de la carreras con villas

date	23-Aug-98	time	2.62	3.66	4.68	5.70	6.69	7.74	8.74	9.75	10.79	11.87	13.02	8 / 6			
reaction time	interval	1.04	1.02	1.02	0.99	1.05	1.00	1.01	1.04	1.08	1.15				3.08	3.04	3.13
wind	1.5 m/s	velocity	4.96	8.17	8.33	8.33	8.59	8.10	8.50	8.42	8.17	7.87	9.13	7.68	8.28	8.39	8.15

FINAL - 1997 European Cup (Munich, GER) Jung (2003) - http://www.fgs.uni-halle.de

date	22-Jun-97	time	2.61	3.64	4.65	5.65	6.65	7.68	8.71	9.76	11.41	12.97	14.38	/ 8			
reaction time	interval	1.03	1.01	1.00	1.00	1.03	1.03	1.05	1.05	1.65	1.56	1.41			3.04	3.06	4.26
wind	0.7 m/s	velocity	4.98	8.25	8.42	8.50	8.50	8.25	8.25	8.10	5.15	5.45	7.45	6.95	8.39	8.33	5.99

Bliss, Andrea (JAM) (1980)**Heat 1 - 2006 Mikio Oda Memorial (Hiroshima, JPN)** Akirabun (2007) - speed analysis of the 100m and hurdles with a laser system

date	29-Apr-06	time	2.55	3.66	4.73	5.81	6.86	7.91	8.95	10.01	11.08	12.17	13.48	/ 1			
reaction time	interval	1.11	1.07	1.08	1.05	1.05	1.04	1.06	1.07	1.09	1.31				3.26	3.14	3.22
wind	0.2 m/s	velocity	5.10	7.66	7.94	7.87	8.10	8.10	8.17	8.02	7.94	7.80	8.02	7.42	7.82	8.12	7.92

Block, Natalie (USA) (2002)**Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)** Henson (2024) - Athlete First: 2024 year end hurdle report

date	28-Jun-24	time	2.71	3.81	4.87	5.94	7.00	8.06	9.16	10.26	11.36	12.52	13.84	7 / 7			
reaction time	interval	1.10	1.06	1.07	1.06	1.06	1.10	1.10	1.10	1.10	1.16	1.32			3.23	3.22	3.36
wind	0.2 m/s	velocity	4.80	7.73	8.02	7.94	8.02	8.02	7.73	7.73	7.73	7.33	7.61	7.23	7.89	7.92	7.59

Bogliolo, Luminosa (ITA) (1995)**FINAL - 2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)** Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season

date	14-Jun-22	time	2.64	3.68	4.68	5.68	6.68	7.68	8.70	9.74	10.76	11.82	13.04	2 / 6			
reaction time	0.195	interval	1.04	1.00	1.00	1.00	1.00	1.02	1.04	1.02	1.06	1.22			3.04	3.02	3.12
wind	0.2 m/s	velocity	4.92	8.17	8.50	8.50	8.50	8.50	8.33	8.17	8.33	8.02	8.24	7.67	8.39	8.44	8.17

FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis) Henson (2022) - Athlete First: 2022 year end hurdle report

date	09-Jun-22	time	2.53	3.60	4.63	5.63	6.63	7.63	8.63	9.67	10.73	11.83	13.10	2 / 8			
reaction time	0.163	interval	1.07	1.03	1.00	1.00	1.00	1.00	1.04	1.06	1.10	1.27			3.10	3.00	3.20
wind	0.1 m/s	velocity	5.14	7.94	8.25	8.50	8.50	8.50	8.50	8.17	8.02	7.73	7.91	7.63	8.23	8.50	7.97

Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis) Henson (2024) - Athlete First: 2021 year end hurdle report

date	01-Aug-21	time	2.53	3.53	4.56	5.53	6.52	7.52	8.49	9.49	10.50	11.54	12.75	8 / 4			
reaction time	0.143	interval	1.00	1.03	0.97	0.99	1.00	0.97	1.00	1.01	1.04	1.21	NR PB		3.00	2.96	3.05

wind	0.0 m/s	velocity	5.14	8.50	8.25	8.76	8.59	8.50	8.76	8.50	8.42	8.17	8.31	7.84	8.50	8.61	8.36	
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
date	31-Jul-21	time	2.57	3.62	4.66	5.66	6.64	7.63	8.63	9.66	10.72	11.75		12.93	2 / 3			
reaction time	0.165	interval	1.05	1.04	1.00	0.98	0.99	1.00	1.03	1.06	1.03	1.18			3.09	2.97	3.12	
wind	0.4 m/s	velocity	5.06	8.10	8.17	8.50	8.67	8.59	8.50	8.25	8.02	8.25	8.52	7.73	8.25	8.59	8.17	

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	2.56	3.60	4.60	5.58	6.58	7.58	8.60	9.66	10.70	11.76		12.99	6 / 5			
reaction time	0.161	interval	1.04	1.00	0.98	1.00	1.00	1.02	1.06	1.04	1.06	1.23			3.02	3.02	3.16	
wind	-0.8 m/s	velocity	5.08	8.17	8.50	8.67	8.50	8.50	8.33	8.02	8.17	8.02	8.17	7.70	8.44	8.44	8.07	

FINAL - 2021 Müller Grand Prix (Gateshead, GBR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	23-May-21	time	2.62	3.70	4.76	5.80	6.84	7.88	8.94	10.00	11.08	12.18		13.45	3 / 3			
reaction time	0.155	interval	1.08	1.06	1.04	1.04	1.04	1.06	1.06	1.08	1.10	1.27			3.18	3.14	3.24	
wind	-3.9 m/s	velocity	4.96	7.87	8.02	8.17	8.17	8.17	8.02	8.02	7.87	7.73	7.91	7.43	8.02	8.12	7.87	

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	2.54	3.56	4.58	5.56	6.54							7.99	7 / 6			
reaction time	0.160	interval	1.02	1.02	0.98	0.98							1.45	=PB	3.02			
		velocity	5.12	8.33	8.33	8.67	8.67						8.97	7.51	8.44			

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	2.58	3.60	4.60	5.60	6.58	7.56	8.56	9.58	10.60	11.64		12.83	5 / 2			
reaction time	0.161	interval	1.02	1.00	1.00	0.98	0.98	0.98	1.00	1.02	1.02	1.04	1.19		3.02	2.96	3.08	
wind	0.1 m/s	velocity	5.04	8.33	8.50	8.50	8.67	8.67	8.50	8.33	8.33	8.17	8.45	7.79	8.44	8.61	8.28	

FINAL - 2020 Galà dei Castelli (Bellinzona, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	15-Sep-20	time	2.60	3.60	4.58	5.58	6.56	7.56	8.56	9.56	10.60	11.64		12.82	4 / 2			
reaction time		interval	1.00	0.98	1.00	0.98	1.00	1.00	1.00	1.00	1.04	1.04	1.18		2.98	2.98	3.08	
wind	0.0 m/s	velocity	5.00	8.50	8.67	8.50	8.67	8.50	8.50	8.50	8.17	8.17	8.52	7.80	8.56	8.56	8.28	

FINAL - 2020 Bauhaus Galan (Stockholm, SWE) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	23-Aug-20	time	2.60	3.63	4.60	5.60	6.63	7.63	8.63	9.63	10.63	11.73		12.88	4 / 1			
reaction time	0.170	interval	1.03	0.97	1.00	1.03	1.00	1.00	1.00	1.00	1.00	1.10	1.15		3.00	3.03	3.10	
wind	1.4 m/s	velocity	5.00	8.25	8.76	8.50	8.25	8.50	8.50	8.50	8.50	7.73	8.74	7.76	8.50	8.42	8.23	

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	2.56	3.58	4.60	5.58	6.58	7.56	8.56	9.54	10.56	11.60		12.79	6 / 2			
reaction time	0.180	interval	1.02	1.02	0.98	1.00	0.98	1.00	0.98	1.00	1.02	1.04	1.19		3.02	2.98	3.04	
wind	1.2 m/s	velocity	5.08	8.33	8.33	8.67	8.50	8.67	8.50	8.67	8.33	8.17	8.45	7.82	8.44	8.56	8.39	

Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	06-Oct-19	time	2.46	3.50	4.52	5.52	6.50	7.52	8.54	9.60	10.64	11.70		13.06	7 / 8			
reaction time	0.159	interval	1.04	1.02	1.00	0.98	1.02	1.02	1.02	1.06	1.04	1.06	1.36		3.06	3.02	3.16	
wind	0.8 m/s	velocity	5.28	8.17	8.33	8.50	8.67	8.33	8.33	8.02	8.17	8.02	7.39	7.66	8.33	8.44	8.07	

FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	10-Sep-19	time	2.56	3.60	4.60	5.60	6.63	7.63	8.63	9.66	10.70	11.80		13.05	8 / 6			
reaction time	0.187	interval	1.04	1.00	1.00	1.03	1.00	1.00	1.03	1.04	1.10	1.25			3.04	3.03	3.17	
wind	0.1 m/s	velocity	5.08	8.17	8.50	8.50	8.25	8.50	8.50	8.25	8.17	7.73	8.40	7.66	8.39	8.42	8.04	

Boml, Kirsten (GER) (1975)		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	3.55	4.57	5.57	6.59	7.59	8.61	9.66	10.74	11.80		13.15	4 / 7			
reaction time	0.149	interval	1.02	1.02	1.00	1.02	1.00	1.02	1.05	1.08	1.06	1.35			3.04	3.04	3.19	
wind	1.5 m/s	velocity	5.14	8.33	8.33	8.50	8.33	8.50	8.33	8.10	7.87	8.02	7.78	7.60	8.39	8.39	7.99	

FINAL - 2002 German National Indoor Championships (Sindelfingen, GER)														<i>Hücklekemkes (2002) - explosive starten vielfältig erlernen</i>				
date	16-Feb-02	time	2.64	3.66	4.68	5.69	6.68							7.97	1 / 1			
reaction time	0.129	interval	1.02	1.02	1.01	0.99							1.29	PB	3.05			
wind		velocity	4.92	8.33	8.33	8.42	8.59						10.08	7.53	8.36			

FINAL - 2001 European Cup (Bremen, GER)														<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>				
date	24-Jun-01	time	2.71	3.77	4.81	5.83	6.85	7.86	8.88	9.92	10.95	12.03		13.15	1 / 3			
reaction time	0.113	interval	1.06	1.04	1.02	1.02	1.01	1.02	1.04	1.03	1.08	1.12			3.12	3.05	3.15	
wind	0.6 m/s	velocity	4.80	8.02	8.17	8.33	8.33	8.42	8.33	8.17	8.25	7.87	9.37	7.60	8.17	8.36	8.10	

Bomme, Emma Beiter (DEN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Seashore Doha Meeting (Doha, QAT) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	10-May-24	time	2.67	3.77	4.84	5.90	6.97	8.00	9.07	10.14	11.24	12.31		14.03	1 / 6			
reaction time	0.149	interval	1.10	1.07	1.06	1.07	1.03	1.07	1.07	1.10	1.07	1.72			3.23	3.17	3.24	
wind	1.7 m/s	velocity	4.87	7.73	7.94	8.02	7.94	8.25	7.94	7.94	7.73	7.94	5.84	7.13	7.89	8.04	7.87	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Bonds, Rosie (USA) (1946)																		
FINAL - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles)												Breitschaft (1965) - die leichtathletik wettkämpfe der 1964 olympischen sommerspielen - 80m hürdenlauf						
date	19-Oct-64	time		4.1			7.5						10.8	1 / 8				
reaction time		interval					3.40					3.30	(10.88)					
wind	2.3 m/s	velocity		6.83			7.06					7.27	9.26					
Semi-Final 1 - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles)												Breitschaft (1965) - die leichtathletik wettkämpfe der 1964 olympischen sommerspielen - 80m hürdenlauf						
date	19-Oct-64	time		4.2			7.2						10.8	1 / 4				
reaction time		interval					3.00					3.60	(10.87)					
wind	???	velocity		6.67			8.00					6.67	9.26					
Bonds, Talie (USA) (1998)																		
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)												Henson (2024) - Athlete First: 2024 year end hurdle report						
date	30-Jun-24	time	2.57	3.60	4.61	5.61	6.60	7.59	8.59	9.60	10.62	11.66	12.85	1 / 8				
reaction time		interval		1.03	1.01	1.00	0.99	0.99	1.00	1.01	1.02	1.04	1.19		3.04	2.98	3.07	
wind	0.7 m/s	velocity	5.06	8.25	8.42	8.50	8.59	8.59	8.50	8.42	8.33	8.17	8.45	7.78	8.39	8.56	8.31	
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)												Henson (2024) - Athlete First: 2024 year end hurdle report						
date	28-Jun-24	time	2.56	3.59	4.55	5.54	6.52	7.50	8.48	9.46	10.47	11.49	12.66	6 / 2				
reaction time		interval		1.03	0.96	0.99	0.98	0.98	0.98	0.98	1.01	1.02	1.17		2.98	2.94	3.01	
wind	1.7 m/s	velocity	5.08	8.25	8.85	8.59	8.67	8.67	8.67	8.67	8.42	8.33	8.59	7.90	8.56	8.67	8.47	
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)												Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record						
date	16-Feb-24	time	2.62	3.64	4.64	5.67	6.67						8.06	2 / 6				
reaction time	0.159	interval		1.02	1.00	1.03	1.00					1.39			3.05			
		velocity	4.96	8.33	8.50	8.25	8.50					9.35	7.44		8.36			
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	4.64	5.64	6.64	7.64	8.62	9.64	10.66	11.69	12.84	8 / 7				
reaction time	0.164	interval		1.06	1.00	1.00	1.00	1.00	0.98	1.02	1.02	1.03	1.15		3.06	2.98	3.07	
wind	2.8 m/s	velocity	5.04	8.02	8.50	8.50	8.50	8.50	8.67	8.33	8.33	8.25	8.74	7.79	8.33	8.56	8.31	
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)												Henson (2023) - Athlete First: 2023 year end hurdle report						
date	10-Jun-23	time	2.50	3.50	4.52	5.49	6.49	7.47	8.45	9.47	10.49	11.53	12.71	7 / 4				
reaction time		interval		1.00	1.02	0.97	1.00	0.98	0.98	1.02	1.02	1.04	1.18		2.99	2.96	3.08	
wind	3.8 m/s	velocity	5.20	8.50	8.33	8.76	8.50	8.67	8.67	8.33	8.33	8.17	8.52	7.87	8.53	8.61	8.28	
Boons, Eefje (NED) (1994)																		
Heat 1 - 2024 FBK Games (Hengelo, NED)												Omega Timing (2024) - continental tour gold race analysis						
date	07-Jul-24	time	2.65	3.78	4.86	5.92	6.97	8.02	9.09	10.18	11.30	12.42	13.79	1 / 9				
reaction time	0.176	interval		1.13	1.08	1.06	1.05	1.05	1.07	1.09	1.12	1.12	1.37		3.27	3.17	3.33	
wind	0.3 m/s	velocity	4.91	7.52	7.87	8.02	8.10	8.10	7.94	7.80	7.59	7.59	7.34	7.25	7.80	8.04	7.66	
FINAL - 2019 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)												Henson (2020) - Athlete First: 2019 year end hurdle report						
date	30-May-19	time	2.68	3.72	4.74	5.76	6.78	7.78	8.84	9.90	10.98	12.06	13.32	1 / 7				
reaction time	0.148	interval		1.04	1.02	1.02	1.02	1.00	1.06	1.06	1.08	1.08	1.26		3.08	3.08	3.22	
wind	1.3 m/s	velocity	4.85	8.17	8.33	8.33	8.33	8.50	8.02	8.02	7.87	7.87	8.33	7.51	8.28	8.28	7.92	
FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)												Henson (2020) - Athlete First: 2018 year end hurdle report						
date	13-Jul-18	time	2.60	3.68	4.72	5.74	6.76	7.78	8.80	9.86	10.92	12.00	13.32	9 / 9				
reaction time	0.150	interval		1.08	1.04	1.02	1.02	1.02	1.02	1.06	1.06	1.08	1.32		3.14	3.06	3.20	
wind	0.1 m/s	velocity	5.00	7.87	8.17	8.33	8.33	8.33	8.33	8.02	8.02	7.87	7.95	7.51	8.12	8.33	7.97	
FINAL - 2017 Athletissima (Lausanne, SUI) (TV Analysis)												Henson (2020) - Athlete First: 2017 year end hurdle report						
date	06-Jul-17	time	2.52	3.60	4.62	5.62	6.62	7.62	8.62	9.64	10.66	11.70	12.98	3 / 7				
reaction time	0.128	interval		1.08	1.02	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.28	PB	3.10	3.00	3.08	
wind	-0.1 m/s	velocity	5.16	7.87	8.33	8.50	8.50	8.50	8.50	8.33	8.33	8.17	8.20	7.70	8.23	8.50	8.28	
Borsi, Veronica (ITA) (1987)																		
FINAL - 2013 European Indoor Championships (Göteborg, SWE)												Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx						
date	01-Mar-13	time	2.60	3.64	4.64	5.64	6.62						7.94	4 / 2				
reaction time	0.176	interval		1.04	1.00	1.00	0.98					1.32	NR		3.04			
		velocity	5.00	8.17	8.50	8.50	8.67					9.85	7.56		8.39			
FINAL - 2013 Italian National Indoor Championships (Ancona, ITA)												FIDAL - Centro Studi & Ricerche (2013) - www.youtube.com/watch?v=V4AEm5H14hl						
date	16-Feb-13	time	2.69	3.69	4.70	5.68	6.67						8.00	4 / 1				
reaction time		interval		1.00	1.01	0.98	0.99					1.33	PB		2.99			
		velocity	4.83	8.50	8.42	8.67	8.59					9.77	7.50		8.53			
FINAL - 2012 Italian National Indoor Championships (Ancona, ITA)												FIDAL - Centro Studi & Ricerche (2012) - www.youtube.com/watch?v=_GzCpvpvayL8						
date	25-Feb-12	time	2.70	3.73	4.77	5.77	6.79						8.18	3 / 2 1				
reaction time		interval		1.03	1.04	1.00	1.02					1.39	PB		3.07			

Semi Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	20-Jun-21	time	2.48	3.52	4.52	5.52	6.52	7.52	8.52	9.55	10.58	11.63	12.95	9 / 9			
reaction time	0.144	interval		1.04	1.00	1.00	1.00	1.00	1.00	1.03	1.03	1.05	1.32		3.04	3.00	3.11
wind	1.2 m/s	velocity	5.24	8.17	8.50	8.50	8.50	8.50	8.50	8.25	8.25	8.10	7.61	7.72	8.39	8.50	8.20

FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	20-Jul-19	time	2.48	3.52	4.56	5.58	6.56	7.56	8.58	9.62	10.72	11.82	13.15	8 / 8			
reaction time	0.133	interval		1.04	1.04	1.02	0.98	1.00	1.02	1.04	1.10	1.10	1.33		3.10	3.00	3.24
wind	0.8 m/s	velocity	5.24	8.17	8.17	8.33	8.67	8.50	8.33	8.17	7.73	7.73	7.89	7.60	8.23	8.50	7.87

Heat 1 - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	20-Jul-19	time	2.48	3.50	4.50	5.50	6.50	7.50	8.50	9.56	10.60	11.70	12.95	7 / 3			
reaction time	0.146	interval		1.02	1.00	1.00	1.00	1.00	1.00	1.06	1.04	1.10	1.25		3.02	3.00	3.20
wind	-1.1 m/s	velocity	5.24	8.33	8.50	8.50	8.50	8.50	8.50	8.02	8.17	7.73	8.40	7.72	8.44	8.50	7.97

FINAL - 2019 Kinami Memorial (Osaka, JPN)*Matsubayashi (2019) - research on athlete performance and technique- 2019 data book*

date	06-May-19	time	2.56	3.61	4.63	5.65	6.66	7.67	8.69	9.70	10.74	11.80	13.01	7 / 1			
reaction time		interval		1.05	1.02	1.02	1.01	1.01	1.02	1.01	1.04	1.06	1.21		3.09	3.04	3.11
wind	0.6 m/s	velocity	5.08	8.10	8.33	8.33	8.42	8.42	8.33	8.42	8.17	8.02	8.68	7.69	8.25	8.39	8.20

Broersen, Nadine (NED) (1990)**Heptathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)***Henson (2024) - Athlete First: 2021 year end hurdle report*

date	04-Aug-21	time	2.71	3.79	4.84	5.91	6.94	8.03	9.11	10.21	11.32	12.51	13.74	3 / 4			
reaction time	0.146	interval		1.08	1.05	1.07	1.03	1.09	1.08	1.10	1.11	1.19	1.23		3.20	3.20	3.40
wind	0.2 m/s	velocity	4.80	7.87	8.10	7.94	8.25	7.80	7.87	7.73	7.66	7.14	8.17	7.28	7.97	7.97	7.50

Brooks, Taliyah (USA) (1995)**Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.45	3.50	4.51	5.51	6.50	7.50	8.56	9.64	10.69	11.73	13.00	3 / 2			
reaction time	0.132	interval	7 steps	1.05	1.01	1.00	0.99	1.00	1.06	1.08	1.05	1.04	1.27		3.06	3.05	3.17
wind	-0.1 m/s	velocity	5.31	8.10	8.42	8.50	8.59	8.50	8.02	7.87	8.10	8.17	7.91	7.69	8.33	8.36	8.04

Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2024) - Athlete First: 2023 year end hurdle report*

date	19-Aug-23	time	2.62	3.62	4.63	5.62	6.62	7.62	8.62	9.62	10.64	11.66	12.78	8 / 1			
reaction time	0.177	interval	7 steps	1.00	1.01	0.99	1.00	1.00	1.00	1.00	1.02	1.02	1.12		3.00	3.00	3.04
wind	0.4 m/s	velocity	4.96	8.50	8.42	8.59	8.50	8.50	8.50	8.50	8.33	8.33	8.97	7.82	8.50	8.50	8.39

Semi Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	20-Jun-21	time	2.46	3.48	4.46	5.43	6.40	7.40	8.38	9.38	10.38	11.46	12.70	5 / 6			
reaction time	0.156	interval	7 steps	1.02	0.98	0.97	0.97	1.00	0.98	1.00	1.00	1.08	1.24		2.97	2.95	3.08
wind	1.2 m/s	velocity	5.28	8.33	8.67	8.76	8.76	8.50	8.67	8.50	8.50	7.87	8.10	7.87	8.59	8.64	8.28

Heat 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	19-Jun-21	time	2.46	3.46	4.43	5.41	6.41	7.38	8.38	9.36	10.36	11.40	12.61	7 / 1			
reaction time	0.167	interval	7 steps	1.00	0.97	0.98	1.00	0.97	1.00	0.98	1.00	1.04	1.21	PB	2.95	2.97	3.02
wind	0.8 m/s	velocity	5.28	8.50	8.76	8.67	8.50	8.76	8.50	8.67	8.50	8.17	8.31	7.93	8.64	8.59	8.44

FINAL - 2021 USATF Grand Prix (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	24-Apr-21	time	2.50	3.52	4.50	5.50	6.50	7.50	8.49	9.52	10.56	11.62	12.83	6 / 3			
reaction time		interval	7 steps	1.02	0.98	1.00	1.00	1.00	0.99	1.03	1.04	1.06	1.21		3.00	2.99	3.13
wind	-0.3 m/s	velocity	5.20	8.33	8.67	8.50	8.50	8.50	8.59	8.25	8.17	8.02	8.31	7.79	8.50	8.53	8.15

FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	25-Sep-20	time	2.53	3.56	4.56	5.56	6.56	7.53	8.56	9.56	10.60	11.63	12.86	7 / 2			
reaction time	0.139	interval	7 steps	1.03	1.00	1.00	1.00	0.97	1.03	1.00	1.04	1.03	1.23	PB	3.03	3.00	3.07
wind	1.1 m/s	velocity	5.14	8.25	8.50	8.50	8.50	8.76	8.25	8.50	8.17	8.25	8.17	7.78	8.42	8.50	8.31

FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	17-Sep-20	time	2.54	3.60	4.62	5.62	6.62	7.64	8.66	9.72	10.78	11.86	13.05	9 / 5			
reaction time	0.138	interval	7 steps	1.06	1.02	1.00	1.00	1.02	1.02	1.06	1.06	1.08	1.19		3.08	3.04	3.20
wind	0.1 m/s	velocity	5.12	8.02	8.33	8.50	8.50	8.33	8.33	8.02	8.02	7.87	8.45	7.66	8.28	8.39	7.97

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	3.54										dnf	1 / --		
reaction time	0.120	interval	7 steps	1.04													
wind	-0.2 m/s	velocity	5.20	8.17													

FINAL - 2018 South Eastern Conference Championships (Knoxville, TN) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	13-May-18	time	2.50	3.56	4.56	5.56	6.56	7.56	8.56	9.60	10.63	11.70	12.94	7 / 4			
reaction time		interval		1.06	1.00	1.00	1.00	1.00	1.00	1.04	1.03	1.07	1.24	PB	3.06	3.00	3.14
wind	1.2 m/s	velocity	5.20	8.02	8.50	8.50	8.50	8.50	8.50	8.17	8.25	7.94	8.47	7.73	8.33	8.50	8.12

Broom, Kimyon (USA) (1988)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified DV=Drug Violation

FINAL - 2005 USATF National Junior Championships (Carson, CA)

USATF Women's Sprint Development (2005)

date	23-Jun-05	time	2.70	3.92	4.96	6.12	7.22	8.33	9.44	10.58	11.70	12.84	14.20	7 / 6				
reaction time		interval		1.22	1.04	1.16	1.10	1.11	1.11	1.14	1.12	1.14	1.36			3.42	3.32	3.40
wind	-0.7 m/s	velocity	4.81	6.97	8.17	7.33	7.73	7.66	7.66	7.46	7.59	7.46	7.72	7.04		7.46	7.68	7.50

Brown, Ashlee (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 - 2003 USATF National Junior Championships (Palo Alto, CA)

USATF Women's Sprint Development (2003)

date	22-Jun-03	time	2.58	3.70	4.76	5.86	6.96	8.04	9.14	10.26	11.48	12.99	15.41	8 / 9				
reaction time		interval		1.12	1.06	1.10	1.10	1.08	1.10	1.12	1.22	1.51	2.42			3.28	3.28	3.85
wind	2.3 m/s	velocity	5.04	7.59	8.02	7.73	7.73	7.87	7.73	7.59	6.97	5.63	4.34	6.49		7.77	7.77	6.62

Brown, Janeek (JAM) (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 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	09-Aug-24	time	2.43	3.49	4.51	5.52	6.51	7.51	8.51	9.52	10.56	11.62	12.92	3 / 7				
reaction time	0.139	interval		1.06	1.02	1.01	0.99	1.00	1.00	1.01	1.04	1.06	1.30			3.09	2.99	3.11
wind	0.4 m/s	velocity	5.35	8.02	8.33	8.42	8.59	8.50	8.50	8.42	8.17	8.02	7.73	7.74		8.25	8.53	8.20

Heat 1 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time	2.44	3.49	4.50	5.49	6.47	7.45	8.45	9.46	10.47	11.54	12.84	4 / 3				
reaction time	0.139	interval		1.05	1.01	0.99	0.98	0.98	1.00	1.01	1.01	1.07	1.30			3.05	2.96	3.09
wind	-0.1 m/s	velocity	5.33	8.10	8.42	8.59	8.67	8.67	8.50	8.42	8.42	7.94	7.73	7.79		8.36	8.61	8.25

FINAL - 2024 Jamaican National Senior Championships (Kingston, JAM) (TV Analysis)

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

date	28-Jun-24	time	2.56	3.57	4.60	5.58	6.57	7.54	8.52	9.51	10.50	11.50	12.61	2 / 3				
reaction time	0.167	interval		1.01	1.03	0.98	0.99	0.97	0.98	0.99	0.99	1.00	1.11			3.02	2.94	2.98
wind	0.1 m/s	velocity	5.08	8.42	8.25	8.67	8.59	8.76	8.67	8.59	8.59	8.50	9.05	7.93		8.44	8.67	8.56

FINAL - 2020 Millrose Games (New York, NY)PrimeTime Timing (2020) - <http://results.nyrrmillrosegames.org/>

date	08-Feb-20	time	2.54	3.60	4.60	5.60	6.61						8.10	6 / 6				
reaction time	0.139	interval		1.06	1.00	1.00	1.01						1.49			3.06		
		velocity		5.12	8.02	8.50	8.50	8.42					8.72	7.41		8.33		

FINAL - 2020 New Balance Indoor Grand Prix (Boston, MA)PrimeTime Timing (2020) - <https://results.nbindoorgrandprix.com/>

date	25-Jan-20	time	2.58	3.62	4.63	5.62	6.62						8.00	5 / 3				
reaction time		interval		1.04	1.01	0.99	1.00						1.38			3.04		
		velocity		5.04	8.17	8.42	8.59	8.50					9.42	7.50		8.39		

Heat 2 - 2020 New Balance Indoor Grand Prix (Boston, MA)PrimeTime Timing (2020) - <https://results.nbindoorgrandprix.com/>

date	25-Jan-20	time	2.60	3.65	4.68	5.69	6.69						8.06	5 / 1				
reaction time		interval		1.05	1.03	1.01	1.00						1.37			3.09		
		velocity		5.00	8.10	8.25	8.42	8.50					9.49	7.44		8.25		

FINAL - 2019 IAAF World Championships (Doha, QAT)

CAA Hurdle Development (2019)

date	06-Oct-19	time	2.57	3.63	4.63	5.60	6.60	7.59	8.58	9.58	10.59	11.64	12.88	8 / 7				
reaction time	0.147	interval		1.06	1.00	0.97	1.00	0.99	0.99	1.00	1.01	1.05	1.24			3.03	2.98	3.06
wind	0.3 m/s	velocity	5.06	8.02	8.50	8.76	8.50	8.59	8.59	8.50	8.42	8.10	8.10	7.76		8.42	8.56	8.33

Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)

CAA Hurdle Development (2019)

date	06-Oct-19	time	2.53	3.56	4.54	5.53	6.52	7.49	8.48	9.47	10.47	11.50	12.62	7 / 2				
reaction time	0.134	interval		1.03	0.98	0.99	0.99	0.97	0.99	0.99	1.00	1.03	1.12			3.00	2.95	3.02
wind	0.6 m/s	velocity	5.14	8.25	8.67	8.59	8.59	8.76	8.59	8.59	8.50	8.25	8.97	7.92		8.50	8.64	8.44

FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)

Henson (2020) - Athlete First: 2019 year end hurdle report

date	18-Aug-19	time	2.49	3.52	4.53	5.52	6.54	7.52	8.52	9.54	10.54	11.57	12.79	8 / 5				
reaction time	0.138	interval		1.03	1.01	0.99	1.02	0.98	1.00	1.02	1.00	1.03	1.22			3.03	3.00	3.05
wind	-0.2 m/s	velocity	5.22	8.25	8.42	8.59	8.33	8.67	8.50	8.33	8.50	8.25	8.61	7.82		8.42	8.50	8.36

FINAL - 2019 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)

Henson (2020) - Athlete First: 2019 year end hurdle report

date	12-Jul-19	time	2.48	3.52	4.52	5.52	6.52	7.50	8.50	9.50	10.52	11.58	12.71	5 / 4				
reaction time	0.184	interval		1.04	1.00	1.00	1.00	0.98	1.00	1.00	1.02	1.06	1.13			3.04	2.98	3.08
wind	0.1 m/s	velocity	5.24	8.17	8.50	8.50	8.50	8.67	8.50	8.50	8.33	8.02	9.29	7.87		8.39	8.56	8.28

FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)

Henson (2020) - Athlete First: 2019 year end hurdle report

date	08-Jun-19	time	2.45	3.44	4.42	5.41	6.38	7.34	8.30	9.28	10.26	11.26	12.40	6 / 1				
reaction time	0.138	interval		0.99	0.98	0.99	0.97	0.96	0.96	0.98	0.98	1.00	1.14	AR PB		2.96	2.89	2.96
wind	0.6 m/s	velocity	5.31	8.59	8.67	8.59	8.76	8.85	8.85	8.67	8.67	8.50	9.21	8.06		8.61	8.82	8.61

FINAL - 2019 NCAA Indoor Championships (Birmingham, AL) (TV Analysis)

Henson (2020) - Athlete First: 2019 year end hurdle report

date	9-Mar-19	time	2.50	3.53	4.58	5.60	6.60						8.04	7 / 5				
reaction time	0.149	interval		1.03	1.05	1.02	1.00						1.44			3.10		
		velocity		5.20	8.25	8.10	8.33	8.50					9.03	7.46		8.23		

FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)

Henson (2020) - Athlete First: 2018 year end hurdle report

date	09-Jun-18	time	2.53	3.56	4.60	5.63	6.66	7.66	8.66	9.70	10.73	11.80		13.05	7 / 5				
reaction time		interval		1.03	1.04	1.03	1.03	1.00	1.00	1.04	1.03	1.07	1.25			3.10	3.03	3.14	
wind	0.9 m/s	velocity	5.14	8.25	8.17	8.25	8.25	8.50	8.50	8.17	8.25	7.94	8.40	7.66		8.23	8.42	8.12	
FINAL - 2018 South Eastern Conference Championships (Knoxville, TN) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	13-May-18	time	2.46	3.50	4.53	5.53	6.51	7.50	8.50	9.53	10.55	11.63		12.84	6 / 3				
reaction time		interval		1.04	1.03	1.00	0.98	0.99	1.00	1.03	1.02	1.08	1.21	PB		3.07	2.97	3.13	
wind	1.2 m/s	velocity	5.28	8.17	8.25	8.50	8.67	8.59	8.50	8.25	8.33	7.87	8.68	7.79		8.31	8.59	8.15	
Bufanu, Valeria (ROU) (1946)		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	08-Sep-72	time	2.6	3.6	4.7	5.7	6.7	7.6	8.6	9.6	10.6	11.7		12.84	7 / 2				
reaction time		interval		1.00	1.10	1.00	1.00	0.90	1.00	1.00	1.00	1.10	1.14	PB		3.10	2.90	3.10	
wind	-0.6 m/s	velocity	5.00	8.50	7.73	8.50	8.50	9.44	8.50	8.50	8.50	7.73	9.21	7.79		8.23	8.79	8.23	
Bukovec, Brigita (SLO) (1970)		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	23-Aug-98	time	2.59	3.60	4.59	5.54	6.50	7.47	8.43	9.42	10.45	11.50		12.65	6 / 2				
reaction time		interval		1.01	0.99	0.95	0.96	0.97	0.96	0.99	1.03	1.05	1.15			2.95	2.89	3.07	
wind	1.5 m/s	velocity	5.02	8.42	8.59	8.95	8.85	8.76	8.85	8.59	8.25	8.10	9.13	7.91		8.64	8.82	8.31	
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	10-Aug-97	time	2.60	3.58	4.58	5.56	6.52	7.49	8.50	9.50	10.50	11.54		12.69	2 / 4				
reaction time	0.146	interval		0.98	1.00	0.98	0.96	0.97	1.01	1.00	1.00	1.04	1.15			2.96	2.94	3.04	
wind	-0.3 m/s	velocity	5.00	8.67	8.50	8.67	8.85	8.76	8.42	8.50	8.50	8.17	9.13	7.88		8.61	8.67	8.39	
FINAL - 1996 Olympic Games (Atlanta, GA)														<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>					
date	31-Jul-96	time	2.46	3.49	4.52	5.43	6.41	7.38	8.36	9.34	10.34	11.37		12.59	3 / 2				
reaction time	0.164	interval		1.03	1.03	0.91	0.98	0.97	0.98	0.98	1.00	1.03	1.22	NR		2.97	2.93	3.01	
wind	0.2 m/s	velocity	5.28	8.25	8.25	9.34	8.67	8.76	8.67	8.67	8.50	8.25	8.61	7.94		8.59	8.70	8.47	
FINAL - 1996 ??? (Lisboa, POR)														<i>Coh (1998) - a biomechanical model of the 100m hurdles of birgita bukovec</i>					
date	29-Jun-96	time	2.59	3.63	4.65	5.65	6.64	7.62	8.60	9.60	10.62	11.66		12.76	1 / 1				
reaction time		interval		1.04	1.02	1.00	0.99	0.98	0.98	1.00	1.02	1.04	1.10			3.06	2.95	3.06	
wind	3.0 m/s	velocity	5.02	8.17	8.33	8.50	8.59	8.67	8.67	8.50	8.33	8.17	9.55	7.84		8.33	8.64	8.33	
FINAL - 1995 Postojna, SLO														<i>Coh (1996) - three-dimensional kinematic analysis of the hurdles technique used by brigita bukovec</i>					
date	08-Jul-95	time	2.60	3.64	4.66	5.66	6.65	7.63	8.61	9.60	10.62	11.65		12.75	1 / 1				
reaction time		interval		1.04	1.02	1.00	0.99	0.98	0.98	0.99	1.02	1.03	1.10	PB		3.06	2.95	3.04	
wind	???	velocity	5.00	8.17	8.33	8.50	8.59	8.67	8.67	8.59	8.33	8.25	9.55	7.84		8.33	8.64	8.39	
Burdová, Magdalena (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) (76cm)														<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.90	4.17	5.40	6.66	7.90	9.18	10.45	11.75	13.03	14.33		15.75	2 / 7				
reaction time	0.180	interval		1.27	1.23	1.26	1.24	1.28	1.27	1.30	1.28	1.30	1.42			3.76	3.79	3.88	
wind	-1.3 m/s	velocity	4.48	6.69	6.91	6.75	6.85	6.64	6.69	6.54	6.64	6.54	7.39	6.35		6.78	6.73	6.57	
Burton, Rushelle (JAM) (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 - 2017 IAAF World Championships (London, GBR)														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>					
date	11-Aug-17	time	2.41	3.46	4.49	5.49	6.50	7.49	8.49	9.54	10.59	11.65		12.94	9 / 5				
reaction time	0.180	interval		1.05	1.03	1.00	1.01	0.99	1.00	1.05	1.05	1.06	1.29			3.08	3.00	3.16	
wind	0.2 m/s	velocity	5.39	8.10	8.25	8.50	8.42	8.59	8.50	8.10	8.10	8.02	8.14	7.73		8.28	8.50	8.07	
FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)														<i>(2016.07.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	24-Jul-16	time	2.58	3.64	4.66	5.68	6.68	7.70	8.70	9.71	10.73	11.74		12.87	8 / 2				
reaction time	0.161	interval		1.06	1.02	1.02	1.00	1.02	1.00	1.01	1.02	1.01	1.13	NJR		3.10	3.02	3.04	
wind	2.0 m/s	velocity	5.04	8.02	8.33	8.33	8.50	8.33	8.50	8.42	8.33	8.42	9.29	7.77		8.23	8.44	8.39	
Bystrova, Galina (URS) (1934)		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 - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles)														<i>Breitschaft (1965) - die leichtathletik wettkämpfe der 1964 olympischen sommerspielen - 80m hürdenlauf</i>					
date	19-Oct-64	time			4.2		7.3							10.8	1 / 6				
reaction time		interval					3.10						3.50	(10.89)					
wind	???	velocity			6.67		7.74						6.86	9.26					
Cachová, Katerina (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)														<i>Feher (2014) - Final report from the Czech Republic national championships</i>					
date	02-Aug-14	time	2.82	3.93	5.01	6.08	7.13	8.20	9.32	10.40	11.49	12.61		13.82	3 / 6				
reaction time	0.221	interval		1.11	1.08	1.07	1.05	1.07	1.12	1.08	1.09	1.12	1.21			3.26	3.24	3.29	
wind	0.4 m/s	velocity	4.61	7.66	7.87	7.94	8.10	7.94	7.59	7.87	7.80	7.59	8.68	7.24		7.82	7.87	7.75	
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)														<i>Feher (2014) - Final report from the Czech Republic national championships</i>					
date	02-Aug-14	time	2.79	3.88	4.95	6.02	7.10	8.14	9.20	10.35	11.43	12.56		13.80	6 / 2				
reaction time	0.204	interval		1.09	1.07	1.07	1.08	1.04	1.06	1.15	1.08	1.13	1.24			3.23	3.18	3.36	

wind	0.2 m/s	velocity	4.66	7.80	7.94	7.94	7.87	8.17	8.02	7.39	7.87	7.52	8.47	7.25	7.89	8.02	7.59
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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	2.76	3.85	4.91	6.02	7.07	8.15	9.24	10.35	11.47	12.58	13.77	3 / 3			
reaction time	0.200	interval	1.09	1.06	1.11	1.05	1.08	1.09	1.11	1.12	1.11	1.19			3.26	3.22	3.34
wind	0.3 m/s	velocity	4.71	7.80	8.02	7.66	8.10	7.87	7.80	7.66	7.59	7.66	8.82	7.26	7.82	7.92	7.63

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	2.83	3.93	5.05	6.13	7.21	8.29	9.38	10.50	11.60	12.73	13.97	4 / 1			
reaction time	0.212	interval	1.10	1.12	1.08	1.08	1.08	1.09	1.12	1.10	1.13	1.24			3.30	3.25	3.35
wind	-1.8 m/s	velocity	4.59	7.73	7.59	7.87	7.87	7.87	7.80	7.59	7.73	7.52	8.47	7.16	7.73	7.85	7.61

Caicedo, Maribel (ECU) (1998) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
Omega Timing (2024) - diamond league race analysis

Heat A - 2024 Kamila Skolimowska Memorial (Silesia, POL)

date	25-Aug-24	time	2.44	3.49	4.46	5.45	6.46	7.44	8.46	9.48	10.51	11.56	12.85	8 / 5			
reaction time	0.158	interval	1.05	0.97	0.99	1.01	0.98	1.02	1.02	1.03	1.05	1.29			3.01	3.01	3.10
wind	-0.3 m/s	velocity	5.33	8.06	8.80	8.59	8.42	8.67	8.33	8.33	8.25	8.10	7.79	7.78	8.47	8.47	8.23

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

date	09-Aug-24	time	2.45	3.50	4.49	5.48	6.46	7.44	8.44	9.43	10.43	11.44	12.67	9 / 4			
reaction time	0.156	interval	1.05	0.99	0.99	0.98	0.98	1.00	0.99	1.00	1.01	1.23			3.03	2.96	3.00
wind	0.4 m/s	velocity	5.31	8.10	8.59	8.59	8.67	8.67	8.50	8.59	8.50	8.42	8.17	7.89	8.42	8.61	8.50

Repechage 2 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.48	3.53	4.54	5.53	6.51	7.51	8.52	9.53	10.55	11.58	12.83	2 / 2			
reaction time	0.165	interval	1.05	1.01	0.99	0.98	1.00	1.01	1.01	1.02	1.03	1.25			3.05	2.99	3.06
wind	0.4 m/s	velocity	5.24	8.10	8.42	8.59	8.67	8.50	8.42	8.42	8.33	8.25	8.04	7.79	8.36	8.53	8.33

Heat 1 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympic Games - Results Book (2024)*

date	07-Aug-24	time	2.46	3.50	4.52	5.52	6.52	7.52	8.53	9.54	10.57	11.69	13.05	6 / 8			
reaction time	0.164	interval	1.04	1.02	1.00	1.00	1.00	1.01	1.01	1.03	1.12	1.36			3.06	3.01	3.16
wind	-0.1 m/s	velocity	5.28	8.17	8.33	8.50	8.50	8.50	8.42	8.42	8.25	7.59	7.39	7.66	8.33	8.47	8.07

FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis) *Henson (2024) - Athlete First: 2024 year end hurdle report*

date	08-Jun-24	time	2.57	3.57	4.57	5.55	6.53	7.50	8.47	9.45	10.44	11.46	12.56	6 / 2			
reaction time		interval	1.00	1.00	0.98	0.98	0.97	0.97	0.98	0.99	1.02	1.10			2.98	2.92	2.99
wind	-0.5 m/s	velocity	5.06	8.50	8.50	8.67	8.67	8.76	8.76	8.67	8.59	8.33	9.14	7.96	8.56	8.73	8.53

FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude) *CAA Hurdle Development (2020)*

date	14-Feb-20	time	2.72	3.78	4.84	5.86	6.92						8.32	2 / 4			
reaction time		interval	1.06	1.06	1.02	1.06						1.40			3.14		
		velocity	4.78	8.02	8.02	8.33	8.02					9.29	7.21		8.12		

Čaladi, Tereza (CZE) (1996) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
Feher (2015) - Final report the U18 & U20 Czech Republic indoor national championships

FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE)

date	14-Feb-15	time	2.92	4.12	5.31	6.48	7.74						9.35	1 / 5			
reaction time	0.143	interval	1.20	1.19	1.17	1.26						1.61			3.56		
		velocity	4.45	7.08	7.14	7.26	6.75					8.07	6.42		7.16		

Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE) *Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	3.04	4.27	5.51	6.78	8.03	9.32	10.65	11.96	13.33	14.70	16.26	3 / 4			
reaction time	0.195	interval	1.23	1.24	1.27	1.25	1.29	1.33	1.31	1.37	1.37	1.56			3.74	3.87	4.05
wind	-1.5 m/s	velocity	4.28	6.91	6.85	6.69	6.80	6.59	6.39	6.49	6.20	6.20	6.73	6.15	6.82	6.59	6.30

Calloway, Dominqué (USA) (1978) **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 (1996)

FINAL - 1996 USATF National Junior Championships (Delaware, OH)

date	29-Jun-96	time	2.50	3.63	4.69	5.72	6.73	7.75	8.79	9.82	10.87	11.93	13.28	5 / 1			
reaction time		interval	1.13	1.06	1.03	1.01	1.02	1.04	1.03	1.05	1.06	1.35			3.22	3.07	3.14
wind	-2.5 m/s	velocity	5.20	7.52	8.02	8.25	8.42	8.33	8.17	8.25	8.10	8.02	7.78	7.53	7.92	8.31	8.12

Cambours, Léonie (FRA) (2000) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
Henson (2024) - Athlete First: 2023 year end hurdle report

Heptathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

date	19-Aug-23	time	2.72	3.78	4.87	5.91	6.94	7.98	9.06	10.12	11.18	12.32	13.56	2 / 3			
reaction time	0.180	interval	1.06	1.09	1.04	1.03	1.04	1.08	1.06	1.06	1.14	1.24			3.19	3.15	3.26
wind	-0.2 m/s	velocity	4.78	8.02	7.80	8.17	8.25	8.17	7.87	8.02	8.02	7.46	8.10	7.37	7.99	8.10	7.82

Camacho-Quinn, Jasmine (PUR) (199) **H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
Omega Timing (2024) - diamond league race analysis

FINAL - 2024 Memorial van damme (Brussels, BEL)

date	14-Sep-24	time	2.57	3.58	4.55	5.52	6.46	7.41	8.36	9.32	10.29	11.27	12.38	4 / 1			
reaction time	0.152	interval	1.01	0.97	0.97	0.94	0.95	0.95	0.96	0.97	0.98	1.11			2.95	2.84	2.91
wind	0.4 m/s	velocity	5.06	8.42	8.76	8.76	9.04	8.95	8.95	8.85	8.76	8.67	9.05	8.08	8.64	8.98	8.76

FINAL - 2024 Weltklasse (Zürich, SUI) *Omega Timing (2024) - diamond league race analysis*

date	05-Sep-24	time	2.44	3.47	4.45	5.39	6.33	7.27	8.22	9.18	10.16	11.15	12.36	4 / 1			
reaction time	0.145	interval		1.03	0.98	0.94	0.94	0.94	0.95	0.96	0.98	0.99	1.21		2.95	2.83	2.93
wind	0.8 m/s	velocity	5.33	8.25	8.67	9.04	9.04	9.04	8.95	8.85	8.67	8.59	8.31	8.09	8.64	9.01	8.70
FINAL - 2024 Athletissima (Lausanne, SUI)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	22-Aug-24	time	2.44	3.47	4.45	5.40	6.34	7.28	8.23	9.18	10.16	11.15	12.35	5 / 1			
reaction time	0.131	interval		1.03	0.98	0.95	0.94	0.94	0.95	0.95	0.98	0.99	1.20		2.96	2.83	2.92
wind	-0.9 m/s	velocity	5.33	8.25	8.67	8.95	9.04	9.04	8.95	8.95	8.67	8.59	8.38	8.10	8.61	9.01	8.73
FINAL - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	10-Aug-24	time	2.44	3.45	4.42	5.38	6.32	7.26	8.22	9.18	10.17	11.14	12.36	7 / 3			
reaction time	0.173	interval		1.01	0.97	0.96	0.94	0.94	0.96	0.96	0.99	0.97	1.22		2.94	2.84	2.92
wind	-0.3 m/s	velocity	5.33	8.42	8.76	8.85	9.04	9.04	8.85	8.85	8.59	8.76	8.24	8.09	8.67	8.98	8.73
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	09-Aug-24	time	2.44	3.46	4.43	5.39	6.32	7.27	8.23	9.19	10.17	11.15	12.35	5 / 1			
reaction time	0.161	interval		1.02	0.97	0.96	0.93	0.95	0.96	0.96	0.98	0.98	1.20		2.95	2.84	2.92
wind	-0.7 m/s	velocity	5.33	8.33	8.76	8.85	9.14	8.95	8.85	8.85	8.67	8.67	8.38	8.10	8.64	8.98	8.73
Heat 2 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	07-Aug-24	time	2.48	3.50	4.48	5.42	6.38	7.33	8.29	9.26	10.24	11.23	12.42	2 / 1			
reaction time	0.176	interval		1.02	0.98	0.94	0.96	0.95	0.96	0.97	0.98	0.99	1.19		2.94	2.87	2.94
wind	0.0 m/s	velocity	5.24	8.33	8.67	9.04	8.85	8.95	8.85	8.76	8.67	8.59	8.45	8.05	8.67	8.89	8.67
FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	07-Jul-24	time	2.54	3.56	4.54	5.48	6.43	7.36	8.32	9.28	10.25	11.25	12.39	4 / 1			
reaction time	0.163	interval		1.02	0.98	0.94	0.95	0.93	0.96	0.96	0.97	1.00	1.14		2.94	2.84	2.93
wind	1.6 m/s	velocity	5.12	8.33	8.67	9.04	8.95	9.14	8.85	8.85	8.76	8.50	8.82	8.07	8.67	8.98	8.70
Heat 1 - 2024 FBK Games (Hengelo, NED)														<i>Omega Timing (2024) - continental tour gold race analysis</i>			
date	07-Jul-24	time	2.43	3.50	4.49	5.46	6.43	7.41	8.39	9.37	10.36	11.37	12.59	5 / 1			
reaction time	0.148	interval		1.07	0.99	0.97	0.97	0.98	0.98	0.98	0.99	1.01	1.22		3.03	2.93	2.98
wind	0.3 m/s	velocity	5.35	7.94	8.59	8.76	8.76	8.67	8.67	8.67	8.59	8.42	8.24	7.94	8.42	8.70	8.56
FINAL - 2024 Prefontaine Classic (Eugene, OR)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	25-May-24	time	2.47	3.53	4.51	5.49	6.44	7.40	8.36	9.34	10.32	11.32	12.54	6 / 2			
reaction time	0.148	interval		1.06	0.98	0.98	0.95	0.96	0.96	0.98	0.98	1.00	1.22		3.02	2.87	2.96
wind	-0.9 m/s	velocity	5.26	8.02	8.67	8.67	8.95	8.85	8.85	8.67	8.67	8.50	8.24	7.97	8.44	8.89	8.61
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	27-Apr-24	time	2.53	3.57	4.57	5.55	6.50	7.46	8.42	9.40	10.41	11.44	12.63	5 / 2 1			
reaction time	0.163	interval		1.04	1.00	0.98	0.95	0.96	0.96	0.98	1.01	1.03	1.19		3.02	2.87	3.02
wind	0.3 m/s	velocity	5.14	8.17	8.50	8.67	8.95	8.85	8.85	8.67	8.42	8.25	8.45	7.92	8.44	8.89	8.44
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	20-Apr-24	time	2.46	3.50	4.49	5.45	6.41	7.36	8.31	9.27	10.25	11.23	12.45	5 / 1			
reaction time	0.163	interval		1.04	0.99	0.96	0.96	0.95	0.95	0.96	0.98	0.98	1.22		2.99	2.86	2.92
wind	-0.2 m/s	velocity	5.28	8.17	8.59	8.85	8.85	8.95	8.95	8.85	8.67	8.67	8.24	8.03	8.53	8.92	8.73
FINAL - 2023 Prefontaine Classic (Eugene, OR)														<i>Omega Timing (2023) - diamond league race analysis</i>			
date	17-Sep-23	time	2.45	3.47	4.46	5.41	6.35	7.29	8.24	9.20	10.17	11.15	12.38	5 / 2			
reaction time	0.140	interval		1.02	0.99	0.95	0.94	0.94	0.95	0.96	0.97	0.98	1.23		2.96	2.83	2.91
wind	1.8 m/s	velocity	5.31	8.33	8.59	8.95	9.04	9.04	8.95	8.85	8.76	8.67	8.17	8.08	8.61	9.01	8.76
FINAL - 2023 World Athletics Championships (Budapest, HUN)														<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>			
date	24-Aug-23	time	2.57	3.58	4.57	5.52	6.47	7.40	8.36	9.34	10.32	11.33	12.44	7 / 2			
reaction time	0.164	interval		1.01	0.99	0.95	0.95	0.93	0.96	0.98	0.98	1.01	1.11		2.95	2.84	2.97
wind	-0.2 m/s	velocity	5.06	8.42	8.59	8.95	8.95	9.14	8.85	8.67	8.67	8.42	9.05	8.04	8.64	8.98	8.59
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	23-Aug-23	time	2.50	3.54	4.54	5.49	6.42	7.38	8.34	9.30	10.28	11.28	12.41	5 / 1			
reaction time	0.138	interval		1.04	1.00	0.95	0.93	0.96	0.96	0.96	0.98	1.00	1.13		2.99	2.85	2.94
wind	-0.4 m/s	velocity	5.20	8.17	8.50	8.95	9.14	8.85	8.85	8.85	8.67	8.50	8.89	8.06	8.53	8.95	8.67
Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	22-Aug-23	time	2.52	3.56	4.54	5.51	6.47	7.44	8.40	9.35	10.35	11.35	12.50	9 / 1			
reaction time	0.160	interval		1.04	0.98	0.97	0.96	0.97	0.96	0.95	1.00	1.00	1.15		2.99	2.89	2.95
wind	0.0 m/s	velocity	5.16	8.17	8.67	8.76	8.85	8.76	8.85	8.95	8.50	8.50	8.74	8.00	8.53	8.82	8.64
FINAL - 2023 Athletissima (Lausanne, SUI)														<i>Omega Timing (2023) - diamond league race analysis</i>			
date	30-Jun-23	time	2.42	3.44	4.43	5.38	6.33	7.28	8.24	9.21	10.19	11.18	12.40	5 / 1			
reaction time	0.139	interval		1.02	0.99	0.95	0.95	0.95	0.96	0.97	0.98	0.99	1.22		2.96	2.86	2.94
wind	-1.4 m/s	velocity	5.37	8.33	8.59	8.95	8.95	8.95	8.85	8.76	8.67	8.59	8.24	8.06	8.61	8.92	8.67

FINAL - 2023 USATF Los Angeles Grand Prix (Westwood, CA) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	27-May-23	time	2.50	3.52	4.50	5.44	6.38	7.32	8.28	9.24	10.19	11.16	12.31	5 / 1				
reaction time	0.158	interval		1.02	0.98	0.94	0.94	0.94	0.96	0.96	0.95	0.97	1.15		2.94	2.84	2.88	
wind	-0.2 m/s	velocity	5.20	8.33	8.67	9.04	9.04	9.04	8.85	8.85	8.95	8.76	8.74	8.12		8.67	8.98	8.85

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	4.46	5.40	6.32	7.25	8.19	9.13	10.10	11.06	12.17	5 / 1				
reaction time	0.153	interval		1.02	0.94	0.94	0.92	0.93	0.94	0.94	0.97	0.96	1.11		2.90	2.79	2.87	
wind	3.5 m/s	velocity	5.20	8.33	9.04	9.04	9.24	9.14	9.04	9.04	8.76	8.85	9.05	8.22		8.79	9.14	8.89

FINAL - 2023 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	05-May-23	time	2.56	3.60	4.58	5.56	6.50	7.46	8.42	9.40	10.36	11.36	12.48	4 / 1				
reaction time	0.148	interval		1.04	0.98	0.98	0.94	0.96	0.96	0.98	0.96	1.00	1.12		3.00	2.86	2.94	
wind	1.1 m/s	velocity	5.08	8.17	8.67	8.67	9.04	8.85	8.85	8.67	8.85	8.50	8.97	8.01		8.50	8.92	8.67

FINAL - 2023 UNF East Coast Relays (Jacksonville, FL)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	29-Apr-23	time	2.56	3.60	4.56	5.50	6.43	7.35	8.30	9.25	10.20	11.20	12.29	5 / 1				
reaction time		interval		1.04	0.96	0.94	0.93	0.92	0.95	0.95	0.95	1.00	1.09		2.94	2.80	2.90	
wind	3.2 m/s	velocity	5.08	8.17	8.85	9.04	9.14	9.24	8.95	8.95	8.95	8.50	9.22	8.14		8.67	9.11	8.79

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	5.47	6.41	7.37	8.32	9.29	10.27	11.28	12.49	5 / 4				
reaction time	0.186	interval		1.00	1.00	0.97	0.94	0.96	0.95	0.97	0.98	1.01	1.21		2.97	2.85	2.96	
wind	-0.3 m/s	velocity	5.20	8.50	8.50	8.76	9.04	8.85	8.95	8.76	8.67	8.42	8.31	8.01		8.59	8.95	8.61

FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	02-Sep-22	time	2.44	3.44	4.40	5.35	6.28	7.22	8.19	9.13	10.09	11.07	12.27	4 / 1				
reaction time	0.166	interval		1.00	0.96	0.95	0.93	0.94	0.97	0.94	0.96	0.98	1.20		2.91	2.84	2.88	
wind	0.1 m/s	velocity	5.33	8.50	8.85	8.95	9.14	9.04	8.76	9.04	8.85	8.67	8.38	8.15		8.76	8.98	8.85

FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	26-Aug-22	time	2.43	3.47	4.44	5.40	6.34	7.27	8.24	9.20	10.17	11.14	12.34	4 / 1				
reaction time	0.152	interval		1.04	0.97	0.96	0.94	0.93	0.97	0.96	0.97	0.97	1.20		2.97	2.84	2.90	
wind	-0.9 m/s	velocity	5.35	8.17	8.76	8.85	9.04	9.14	8.76	8.85	8.76	8.76	8.38	8.10		8.59	8.98	8.79

FINAL - 2022 Gyula István Memorial (Székesfehérvár, HUN) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	08-Aug-22	time	2.47	3.50	4.47	5.43	6.35	7.30	8.25	9.20	10.13	11.13	12.27	5 / 1				
reaction time	0.114	interval		1.03	0.97	0.96	0.92	0.95	0.95	0.95	0.93	1.00	1.14		2.96	2.82	2.88	
wind	2.4 m/s	velocity	5.26	8.25	8.76	8.85	9.24	8.95	8.95	8.95	9.14	8.50	8.82	8.15		8.61	9.04	8.85

FINAL - 2022 World Athletics Championships (Eugene, OR)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	24-Jul-22	time	2.52	3.55	4.52	5.45	6.37	7.31	8.24	9.19	10.13	11.11	12.23	7 / 3				
reaction time	0.127	interval		1.03	0.97	0.93	0.92	0.94	0.93	0.95	0.94	0.98	1.12		2.93	2.79	2.87	
wind	2.5 m/s	velocity	5.16	8.25	8.76	9.14	9.24	9.04	9.14	8.95	9.04	8.67	8.97	8.18		8.70	9.14	8.89

Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	24-Jul-22	time	2.53	3.53	4.53	5.46	6.43	7.38	8.32	9.26	10.23	11.21	12.32	5 / 2				
reaction time	0.126	interval		1.00	1.00	0.93	0.97	0.95	0.94	0.94	0.97	0.98	1.11		2.93	2.86	2.89	
wind	0.3 m/s	velocity	5.14	8.50	8.50	9.14	8.76	8.95	9.04	9.04	8.76	8.67	9.05	8.12		8.70	8.92	8.82

Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	23-Jul-22	time	2.52	3.56	4.53	5.50	6.46	7.40	8.36	9.34	10.32	11.32	12.52	7 / 1				
reaction time	0.185	interval		1.04	0.97	0.97	0.96	0.94	0.96	0.98	0.98	1.00	1.20		2.98	2.86	2.96	
wind	-0.4 m/s	velocity	5.16	8.17	8.76	8.76	8.85	9.04	8.85	8.67	8.67	8.50	8.38	7.99		8.56	8.92	8.61

FINAL - 2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	30-Jun-22	time	2.48	3.48	4.47	5.44	6.38	7.33	8.30	9.27	10.27	11.27	12.46	5 / 1				
reaction time	0.143	interval		1.00	0.99	0.97	0.94	0.95	0.97	0.97	1.00	1.00	1.19		2.96	2.86	2.97	
wind	-0.5 m/s	velocity	5.24	8.50	8.59	8.76	9.04	8.95	8.76	8.76	8.50	8.50	8.45	8.03		8.61	8.92	8.59

FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	09-Jun-22	time	2.47	3.48	4.47	5.43	6.37	7.30	8.26	9.23	10.20	11.18	12.37	5 / 1				
reaction time	0.149	interval		1.01	0.99	0.96	0.94	0.93	0.96	0.97	0.97	0.98	1.19		2.96	2.83	2.92	
wind	0.1 m/s	velocity	5.26	8.42	8.59	8.85	9.04	9.14	8.85	8.76	8.76	8.67	8.45	8.08		8.61	9.01	8.73

FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	28-May-22	time	2.50	3.53	4.51	5.48	6.43	7.37	8.33	9.31	10.30	11.29	12.45	5 / 1				
reaction time	0.132	interval		1.03	0.98	0.97	0.95	0.94	0.96	0.98	0.99	0.99	1.16		2.98	2.85	2.96	
wind	-0.7 m/s	velocity	5.20	8.25	8.67	8.76	8.95	9.04	8.85	8.67	8.59	8.59	8.66	8.03		8.56	8.95	8.61

FINAL - 2022 Puerto Rico International Athletics Classic (Ponce, PUR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	12-May-22	time	2.65	3.67	4.63	5.58	6.52	7.48	8.42	9.37	10.36	11.34	12.52	5 / 2			
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reaction time	0.367	interval	1.02	0.96	0.95	0.94	0.96	0.94	0.95	0.99	0.98	1.18			2.93	2.84	2.92	
wind	0.3 m/s	velocity	4.91	8.33	8.85	8.95	9.04	8.85	9.04	8.95	8.59	8.67	8.52	7.99	8.70	8.98	8.73	
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	02-Aug-21	time	2.44	3.44	4.42	5.38	6.32	7.26	8.20	9.14	10.10	11.14		12.37		5 / 1		
reaction time	0.149	interval	1.00	0.98	0.96	0.94	0.94	0.94	0.94	0.94	0.96	1.04	1.23			2.94	2.82	2.94
wind	-0.3 m/s	velocity	5.33	8.50	8.67	8.85	9.04	9.04	9.04	9.04	8.85	8.17	8.17	8.08		8.67	9.04	8.67
Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	01-Aug-21	time	2.53	3.53	4.49	5.44	6.38	7.31	8.25	9.21	10.17	11.17		12.26		7 / 1		
reaction time	0.175	interval	1.00	0.96	0.95	0.94	0.93	0.94	0.96	0.96	0.96	1.00	1.09	OR AR PB		2.91	2.81	2.92
wind	-0.2 m/s	velocity	5.14	8.50	8.85	8.95	9.04	9.14	9.04	8.85	8.85	8.50	9.22	8.16		8.76	9.07	8.73
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	31-Jul-21	time	2.52	3.52	4.52	5.49	6.44	7.39	8.37	9.32	10.29	11.29		12.41		2 / 1		
reaction time	0.153	interval	1.00	1.00	0.97	0.95	0.95	0.98	0.95	0.97	1.00	1.12				2.97	2.88	2.92
wind	0.3 m/s	velocity	5.16	8.50	8.50	8.76	8.95	8.95	8.67	8.95	8.76	8.50	8.97	8.06		8.59	8.85	8.73
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	2.48	3.50	4.47	5.43	6.37	7.30	8.24	9.21	10.18	11.14		12.34		4 / 1		
reaction time	0.178	interval	1.02	0.97	0.96	0.94	0.93	0.94	0.97	0.97	0.96	1.20				2.95	2.81	2.90
wind	0.2 m/s	velocity	5.24	8.33	8.76	8.85	9.04	9.14	9.04	8.76	8.76	8.85	8.38	8.10		8.64	9.07	8.79
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	2.46	3.46	4.44	5.40	6.34	7.28	8.22	9.20	10.18	11.18		12.38		5 / 1		
reaction time	0.153	interval	1.00	0.98	0.96	0.94	0.94	0.94	0.98	0.98	1.00	1.20				2.94	2.82	2.96
wind	-0.8 m/s	velocity	5.28	8.50	8.67	8.85	9.04	9.04	9.04	8.67	8.67	8.50	8.37	8.08		8.67	9.04	8.61
FINAL - 2021 Fanny Blankers Koen Games (Hengelo, NED) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	06-Jun-21	time	2.43	3.46	4.44	5.40	6.35	7.31	8.27	9.24	10.20	11.18		12.44		5 / 1		
reaction time		interval	1.03	0.98	0.96	0.95	0.96	0.96	0.97	0.96	0.98	1.26				2.97	2.87	2.91
wind	0.5 m/s	velocity	5.35	8.25	8.67	8.85	8.95	8.85	8.85	8.76	8.85	8.67	7.98	8.04		8.59	8.89	8.76
FINAL - 2021 USATF Grand Prix (Eugene, OR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	24-Apr-21	time	2.47	3.47	4.45	5.40	6.37	7.32	8.29	9.28	10.26	11.26		12.46		5 / 1		
reaction time		interval	1.00	0.98	0.95	0.97	0.95	0.97	0.99	0.98	1.00	1.20				2.93	2.89	2.97
wind	-0.3 m/s	velocity	5.26	8.50	8.67	8.95	8.76	8.95	8.76	8.59	8.67	8.50	8.37	8.03		8.70	8.82	8.59
FINAL - 2021 Tom Jones Invitational (Gainesville, FL) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	17-Apr-21	time	2.43	3.43	4.43	5.40	6.37	7.30	8.24	9.20	10.17	11.17		12.32		6 / 1		
reaction time		interval	1.00	1.00	0.97	0.97	0.93	0.94	0.96	0.97	1.00	1.15	NR PB			2.97	2.84	2.93
wind	1.7 m/s	velocity	5.35	8.50	8.50	8.76	8.76	9.14	9.04	8.85	8.76	8.50	8.74	8.12		8.59	8.98	8.70
FINAL - 2019 Doha Diamond League (Doha, QAT) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	03-May-19	time	2.56	3.58	4.60	5.60	6.58	7.56	8.56	9.56	10.58	11.62		12.85		8 / 5		
reaction time	0.182	interval	1.02	1.02	1.00	0.98	0.98	1.00	1.00	1.02	1.04	1.23				3.04	2.96	3.06
wind	0.9 m/s	velocity	5.08	8.33	8.33	8.50	8.67	8.67	8.50	8.50	8.33	8.17	8.54	7.78		8.39	8.61	8.33
FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	09-Jun-18	time	2.53	3.56	4.56	5.53	6.50	7.46	8.46	9.43	10.43	11.46		12.70		5 / 1		
reaction time		interval	1.03	1.00	0.97	0.97	0.96	1.00	0.97	1.00	1.03	1.24				3.00	2.93	3.00
wind	0.9 m/s	velocity	5.14	8.25	8.50	8.76	8.76	8.85	8.50	8.76	8.50	8.25	8.47	7.87		8.50	8.70	8.50
FINAL - 2018 South Eastern Conference Championships (Knoxville, TN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	13-May-18	time	2.45	3.46	4.46	5.40	6.36	7.32	8.27	9.23	10.20	11.18		12.40		5 / 1		
reaction time		interval	1.01	1.00	0.94	0.96	0.96	0.95	0.96	0.97	0.98	1.22	AR PB			2.95	2.87	2.91
wind	1.2 m/s	velocity	5.31	8.42	8.50	9.04	8.85	8.85	8.95	8.85	8.76	8.67	8.61	8.06		8.64	8.89	8.76
Caravelli, Marzia (ITA) (1981)																		
FINAL - 2014 Italian National Indoor Championships (Ancona, ITA)													<i>FIDAL - Centro Studi & Ricerche (2014) - www.youtube.com/watch?v=7_FeLg_p08Y</i>					
date	22-Feb-14	time	2.69	3.74	4.76	5.75	6.78							8.07		6 / 2		
reaction time		interval	7 steps	1.05	1.02	0.99	1.03						1.29			3.06		
		velocity	4.83	8.10	8.33	8.59	8.25						10.08	7.43		8.33		
FINAL - 2012 Italian National Indoor Championships (Ancona, ITA)													<i>FIDAL - Centro Studi & Ricerche (2012) - www.youtube.com/watch?v=GzCpvpvayL8</i>					
date	25-Feb-12	time	2.68	3.70	4.70	5.70	6.70							8.04		5 / 4		
reaction time		interval	7 steps	1.02	1.00	1.00	1.00						1.34	DQ		3.02		
		velocity	4.85	8.33	8.50	8.50	8.50						9.70	7.46		8.44		
Race 1 - 2011 European Team Championships (Stockholm, SWE)													<i>Blomkvist (2011) - www.sub13.se</i>					
date	19-Jun-11	time	2.58	3.64	4.68	5.70	6.72	7.76	8.80	9.86	10.92	12.00		13.21		1 / 2		
reaction time	0.166	interval		1.06	1.04	1.02	1.02	1.04	1.04	1.06	1.06	1.08	1.21			3.12	3.10	3.20
wind	-1.0 m/s	velocity	5.04	8.02	8.17	8.33	8.33	8.17	8.17	8.02	8.02	7.87	8.68	7.57		8.17	8.23	7.97

Carlsson, Johanna (SWE) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	02-Jul-23	time	2.56	3.68	4.74	5.78	6.83	7.89	8.96	10.06	11.22	12.41		13.91	1 / 5			
reaction time	0.149	interval		1.12	1.06	1.04	1.05	1.06	1.07	1.10	1.16	1.19	1.50		PB	3.22	3.18	3.45
wind	0.6 m/s	velocity	5.08	7.59	8.02	8.17	8.10	8.02	7.94	7.73	7.33	7.14	6.70	7.19		7.92	8.02	7.39
Carmassi, Giada (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 - 2024 Golden Gala • Pietro Mennea (Roma, ITA)													<i>Omega Timing (2024) - diamond league race analysis</i>					
date	30-Aug-24	time	2.52	3.57	4.60	5.62	6.63	7.65	8.67	9.71	10.76	11.85		13.20	1 / 8			
reaction time	0.136	interval		1.05	1.03	1.02	1.01	1.02	1.02	1.04	1.05	1.09	1.35			3.10	3.05	3.18
wind	-0.4 m/s	velocity	5.16	8.10	8.25	8.33	8.42	8.33	8.33	8.17	8.10	7.80	7.44	7.58		8.23	8.36	8.02
FINAL - 2020 Galà dei Castelli (Bellinzona, SU) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	15-Sep-20	time	2.66	3.72	4.76	5.80	6.80	7.82	8.86	9.90	10.96	12.06		13.30	2 / 4			
reaction time		interval		1.06	1.04	1.04	1.00	1.02	1.04	1.04	1.06	1.10	1.24			3.14	3.06	3.20
wind	0.0 m/s	velocity	4.89	8.02	8.17	8.17	8.50	8.33	8.17	8.17	8.02	7.73	8.10	7.52		8.12	8.33	7.97
Carraro, Elena (ITA) (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 Herculis Meeting International d'Athlétisme (Monaco, MON)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	21-Jul-23	time	2.56	3.63	4.68	5.69	6.70	7.72	8.76	9.82	10.91	11.99		13.28	8 / 8			
reaction time	0.172	interval		1.07	1.05	1.01	1.01	1.02	1.04	1.06	1.09	1.08	1.29			3.13	3.07	3.23
wind	0.6 m/s	velocity	5.08	7.94	8.10	8.42	8.42	8.33	8.17	8.02	7.80	7.87	7.79	7.53		8.15	8.31	7.89
Carruthers, Danielle (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 - 2011 IAAF World Championships (Daegu, KOR)													<i>KSSB (2011) - biomechanical analysis of women's 100m hurdle</i>					
date	03-Sep-11	time	2.57	3.59	4.57	5.55	6.51	7.46	8.42	9.39	10.35	11.36		12.47	6 / 2			
reaction time	0.168	interval		1.02	0.98	0.98	0.96	0.95	0.96	0.97	0.96	1.01	1.11		PB	2.98	2.87	2.94
wind	1.1 m/s	velocity	5.06	8.33	8.67	8.67	8.85	8.95	8.85	8.76	8.85	8.42	9.46	8.02		8.56	8.89	8.67
Heat 4 - 2011 IAAF World Championships (Daegu, KOR)													<i>KSSB (2011) - biomechanical analysis of women's 100m hurdle</i>					
date	02-Sep-11	time	2.61	3.65	4.67	5.65	6.65	7.65	8.62	9.65	10.66	11.68		12.79	2 / 1			
reaction time	0.160	interval		1.04	1.02	0.98	1.00	1.00	0.97	1.03	1.01	1.02	1.11			3.04	2.97	3.06
wind	0.0 m/s	velocity	4.98	8.17	8.33	8.67	8.50	8.50	8.76	8.25	8.42	8.33	9.46	7.82		8.39	8.59	8.33
FINAL - 2009 ISTAF (Berlin, GER)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
date	14-Jun-09	time	2.59	3.63	4.64	5.64	6.65	7.67	8.69	9.73	10.81	11.90		13.11	1 / 7			
reaction time	0.167	interval		1.04	1.01	1.00	1.01	1.02	1.02	1.04	1.08	1.09	1.21			3.05	3.05	3.21
wind	-0.1 m/s	velocity	5.02	8.17	8.42	8.50	8.42	8.33	8.33	8.17	7.87	7.80	8.68	7.63		8.36	8.36	7.94
FINAL - 2007 USATF National Championships (Indianapolis, IN)													<i>USATF Men's Hurdle Development (2007)</i>					
date	23-Jun-07	time	2.64	3.69	4.70	5.71	6.74	7.76	8.79	9.81	10.83	11.86		12.98	1 / 7			
reaction time		interval		1.05	1.01	1.01	1.03	1.02	1.03	1.02	1.02	1.03	1.12			3.07	3.08	3.07
wind	-1.3 m/s	velocity	4.92	8.10	8.42	8.42	8.25	8.33	8.25	8.33	8.33	8.25	9.37	7.70		8.31	8.28	8.31
FINAL - 2007 Osaka Grand Prix (Osaka, JPN)													<i>Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles</i>					
date	05-May-07	time	2.48	3.55	4.58	5.58	6.58	7.58	8.58	9.59	10.62	11.65		12.90	1 / 3			
reaction time		interval		1.07	1.03	1.00	1.00	1.00	1.00	1.01	1.03	1.03	1.25			3.10	3.00	3.07
wind	0.0 m/s	velocity	5.24	7.94	8.25	8.50	8.50	8.50	8.50	8.42	8.25	8.25	8.40	7.75		8.23	8.50	8.31
FINAL - 2003 USATF National Championships (Palo Alto, CA)													<i>USATF Women's Sprint Development (2003)</i>					
date	22-Jun-03	time	2.50	3.57	4.57	5.59	6.57	7.57	8.56	9.56	10.59	11.63		12.84	2 / 5			
reaction time		interval		1.07	1.00	1.02	0.98	1.00	0.99	1.00	1.03	1.04	1.21			3.09	2.97	3.07
wind	-0.1 m/s	velocity	5.20	7.94	8.50	8.33	8.67	8.50	8.59	8.50	8.25	8.17	8.68	7.79		8.25	8.59	8.31
Carson, Kim (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 - 1996 USA Olympic Trials (Atlanta, GA)													<i>USATF Women's Sprint Development (1996)</i>					
date	23-Jun-96	time	2.34	3.41	4.43	5.44	6.44	7.44	8.48	9.53	10.62	11.60		13.04	4 / 7			
reaction time		interval		1.07	1.02	1.01	1.00	1.00	1.04	1.05	1.09	0.98	1.44			3.10	3.04	3.12
wind	0.6 m/s	velocity	5.56	7.94	8.33	8.42	8.50	8.50	8.17	8.10	7.80	8.67	7.29	7.67		8.23	8.39	8.17
Carter, Kori (USA) (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 Leonard Hilton Memorial Invitational (Houston, TX)													<i>CAA Hurdle Development (2020)</i>					
date	17-Jan-20	time	2.55	3.62	4.67	5.71	6.76							8.26	3 / 2			
reaction time		interval		1.07	1.05	1.04	1.05						1.50			3.16		
		velocity	5.10	7.94	8.10	8.17	8.10						8.67	7.26		8.07		
FINAL - 2018 USATF National Championships (Des Moines, IA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	23-Jun-18	time	2.50	3.53	4.57	5.60	6.60	7.57	8.57	9.67	10.71	11.77		13.11	2 / 6			
reaction time		interval		1.03	1.04	1.03	1.00	0.97	1.00	1.10	1.04	1.06	1.34			3.10	2.97	3.20
wind	-1.4 m/s	velocity	5.20	8.25	8.17	8.25	8.50	8.76	8.50	7.73	8.17	8.02	7.84	7.63		8.23	8.59	7.97
Cartwright, Denisha (BAH) (1999)		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	08-Aug-24	time	2.39	3.46	4.59	5.71	6.79	7.87	8.94	10.01	11.07	12.13	13.45	4 / 7				
reaction time	0.151	interval		1.07	1.13	1.12	1.08	1.08	1.07	1.07	1.06	1.06	1.32			3.32	3.23	3.19
wind	-0.2 m/s	velocity	5.44	7.94	7.52	7.59	7.87	7.87	7.94	7.94	8.02	8.02	7.61	7.43		7.68	7.89	7.99

Heat 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time	2.39	3.45	4.49	5.49	6.49	7.48	8.50	9.52	10.55	11.60	12.89	7 / 4				
reaction time	0.154	interval		1.06	1.04	1.00	1.00	0.99	1.02	1.02	1.03	1.05	1.29			3.10	3.01	3.10
wind	0.0 m/s	velocity	5.44	8.02	8.17	8.50	8.50	8.59	8.33	8.33	8.25	8.10	7.79	7.76		8.23	8.47	8.23

Castlin, Kristi (USA) (1988)**FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)** *Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date	22-Apr-22	time	2.63	3.67	4.65	5.63	6.61	7.59	8.57	9.57	10.59	11.59	12.77	2 / 7				
reaction time		interval		1.04	0.98	0.98	0.98	0.98	0.98	1.00	1.02	1.00	1.18			3.00	2.94	3.02
wind	0.8 m/s	velocity	4.94	8.17	8.67	8.67	8.67	8.67	8.67	8.50	8.33	8.50	8.52	7.83		8.50	8.67	8.44

Semi Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	20-Jun-21	time	2.56	3.62	4.60	5.58	6.56	7.54	8.53	9.53	10.53	11.56	12.84	8 / 8				
reaction time	0.162	interval		1.06	0.98	0.98	0.98	0.98	0.99	1.00	1.00	1.03	1.28			3.02	2.95	3.03
wind	1.2 m/s	velocity	5.08	8.02	8.67	8.67	8.67	8.67	8.59	8.50	8.50	8.25	7.85	7.79		8.44	8.64	8.42

FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

CAA Hurdle Development (2020)

date	15-Feb-20	time	2.65	3.70	4.73	5.74	6.74						8.12	1 / 5				
reaction time	0.166	interval		1.05	1.03	1.01	1.00						1.38					3.09
		velocity	4.91	8.10	8.25	8.42	8.50						9.42	7.39				8.25

Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

CAA Hurdle Development (2020)

date	15-Feb-20	time	2.62	3.70	4.75	5.79	6.80						8.19	5 / 4				
reaction time	0.136	interval		1.08	1.05	1.04	1.01						1.39					3.17
		velocity	4.96	7.87	8.10	8.17	8.42						9.35	7.33				8.04

FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	27-Jul-19	time	2.60	3.63	4.64	5.64	6.61	7.61	8.58	9.58	10.61	11.62	12.86	7 / 7				
reaction time		interval		1.03	1.01	1.00	0.97	1.00	0.97	1.00	1.03	1.01	1.24					3.04
wind	-1.2 m/s	velocity	5.00	8.25	8.42	8.50	8.76	8.50	8.76	8.50	8.25	8.42	8.47	7.78				8.39

FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)

CAA Hurdle Development (2019)

date	21-May-19	time	2.65	3.67	4.71	5.66	6.72	7.71	8.75	9.75	10.79	11.85	13.10	8 / 7				
reaction time	0.154	interval		1.02	1.04	0.95	1.06	0.99	1.04	1.00	1.04	1.06	1.25					3.01
wind	-1.0 m/s	velocity	4.91	8.33	8.17	8.95	8.02	8.59	8.17	8.50	8.17	8.02	8.40	7.63				8.47

FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)*Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps*

date	19-May-19	time	2.64	3.69	4.72	5.73	6.73	7.75	8.75	9.78	10.81	11.86	13.01	2 / 5				
reaction time	0.145	interval		1.05	1.03	1.01	1.00	1.02	1.00	1.03	1.03	1.05	1.15					3.09
wind	0.4 m/s	velocity	4.92	8.10	8.25	8.42	8.50	8.33	8.50	8.25	8.25	8.10	9.13	7.69				8.25

FINAL - 2017 Weltklasse (Zürich, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	24-Aug-17	time	2.58	3.64	4.68	5.68	6.68	7.68	8.68	9.70	10.74	11.78	13.03	9 / 8				
reaction time	0.138	interval		1.06	1.04	1.00	1.00	1.00	1.00	1.02	1.04	1.04	1.25					3.10
wind	-0.3 m/s	velocity	5.04	8.02	8.17	8.50	8.50	8.50	8.50	8.33	8.17	8.17	8.40	7.67				8.23

FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	09-Jul-17	time	2.56	3.80	5.12									dnf	2 / --			
reaction time	0.128	interval		1.24	1.32													
wind	0.2 m/s	velocity	5.08	6.85	6.44													

FINAL - 2017 Athletissima (Lausanne, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	06-Jul-17	time	2.50	3.60	4.57	5.53	6.50	7.47	8.47	9.43	10.43	11.43	12.61	7 / 5				
reaction time	0.133	interval		1.10	0.97	0.96	0.97	0.97	1.00	0.96	1.00	1.00	1.18					3.03
wind	-0.1 m/s	velocity	5.20	7.73	8.76	8.85	8.76	8.76	8.50	8.85	8.50	8.50	8.90	7.93				8.42

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	3.60	4.60	5.60	6.58	7.56	8.54	9.52	10.52	11.52	12.74	3 / 4				
reaction time	0.165	interval		1.04	1.00	1.00	0.98	0.98	0.98	0.98	1.00	1.00	1.22					3.04
wind	0.1 m/s	velocity	5.08	8.17	8.50	8.50	8.67	8.67	8.67	8.67	8.50	8.50	8.61	7.85				8.39

FINAL - 2017 Bislett Games (Oslo, NOR) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	15-Jun-17	time	2.56	3.62	4.62	5.60	6.58	7.56	8.54	9.52	10.54	11.58	12.75	6 / 2				
reaction time	0.140	interval		1.06	1.00	0.98	0.98	0.98	0.98	0.98	1.02	1.04	1.17					3.04
wind	0.8 m/s	velocity	5.08	8.02	8.50	8.67	8.67	8.67	8.67	8.67	8.33	8.17	8.97	7.84				8.39

FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	27-May-17	time	2.56	3.60	4.62	5.64	6.62	7.60	8.60	9.60	10.60	11.60	12.82	6 / 6				
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reaction time	0.163	interval	1.04	1.02	1.02	0.98	0.98	1.00	1.00	1.00	1.00	1.22			3.08	2.96	3.00											
wind	0.8 m/s	velocity	5.08	8.17	8.33	8.33	8.67	8.67	8.50	8.50	8.50	8.50	8.61	7.80	8.28	8.61	8.50											
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	2.60	3.66	4.70	5.73	6.73	7.73	8.75	9.75	10.77	11.83	13.10	5 / 7														
reaction time		interval	1.06	1.04	1.03	1.00	1.00	1.02	1.00	1.02	1.06	1.27			3.13	3.02	3.08											
wind	1.0 m/s	velocity	5.00	8.02	8.17	8.25	8.50	8.50	8.33	8.50	8.33	8.02	8.27	7.63	8.15	8.44	8.28											
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>															
date	17-Aug-16	time	2.37	3.40	4.43	5.40	6.37	7.37	8.34	9.31	10.31	11.31	12.61	7 / 3														
reaction time	0.152	interval	1.03	1.03	0.97	0.97	1.00	0.97	0.97	1.00	1.00	1.30			3.03	2.94	2.97											
wind	0.0 m/s	velocity	5.49	8.25	8.25	8.76	8.76	8.50	8.76	8.76	8.50	8.50	8.08	7.93	8.42	8.67	8.59											
FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>															
date	22-Jul-16	time	2.54	3.58	4.60	5.58	6.56	7.54	8.50	9.46	10.46	11.46	12.59	9 / 3														
reaction time	0.144	interval	1.04	1.02	0.98	0.98	0.98	0.96	0.96	1.00	1.00	1.13			3.04	2.92	2.96											
wind	0.3 m/s	velocity	5.12	8.17	8.33	8.67	8.67	8.67	8.85	8.85	8.50	8.50	9.29	7.94	8.39	8.73	8.61											
Heat 2 - 2016 London Anniversary Games (London, GBR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>															
date	22-Jul-16	time	2.54	3.58	4.60	5.56	6.52	7.48	8.44	9.44	10.44	11.48	12.67	5 / 3														
reaction time	0.140	interval	1.04	1.02	0.96	0.96	0.96	0.96	0.96	1.00	1.00	1.04	1.19		3.02	2.88	3.04											
wind	0.2 m/s	velocity	5.12	8.17	8.33	8.85	8.85	8.85	8.85	8.50	8.50	8.17	8.82	7.89	8.44	8.85	8.39											
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>															
date	08-Jul-16	time	2.50	3.53	4.53	5.50	6.47	7.40	8.37	9.34	10.34	11.31	12.50	3 / 2														
reaction time	0.175	interval	1.03	1.00	0.97	0.97	0.93	0.97	0.97	1.00	0.97	1.19	PB		3.00	2.87	2.94											
wind	1.2 m/s	velocity	5.20	8.25	8.50	8.76	8.76	9.14	8.76	8.76	8.50	8.76	8.82	8.00	8.50	8.89	8.67											
FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)													<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>															
date	10-May-15	time	2.63	3.71	4.73	5.73	6.72	7.69	8.68	9.70	10.70	11.74	12.92	3 / 4														
reaction time	0.171	interval	1.08	1.02	1.00	0.99	0.97	0.99	1.02	1.00	1.04	1.18			3.10	2.95	3.06											
wind	0.9 m/s	velocity	4.94	7.87	8.33	8.50	8.59	8.76	8.59	8.33	8.50	8.17	8.90	7.74	8.23	8.64	8.33											
FINAL - 2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>															
date	05-Jun-16	time	2.46	3.56	4.56	5.58	6.52	7.48	8.48	9.48	10.48	11.48	12.75	5 / 3														
reaction time	0.164	interval	1.10	1.00	1.02	0.94	0.96	1.00	1.00	1.00	1.00	1.27			3.12	2.90	3.00											
wind	-0.3 m/s	velocity	5.28	7.73	8.50	8.33	9.04	8.85	8.50	8.50	8.50	8.50	8.27	7.84	8.17	8.79	8.50											
Cattaneo, Micol (ITA) (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 European Indoor Championships (Göteborg, SWE)													<i>Blomkvist (2013) - www.elitandslag.se/SprintHäck/KorthHäck.aspx</i>															
date	01-Mar-13	time	2.64	3.71	4.73	5.74	6.78						8.11	7 / 7-6														
reaction time	0.180	interval	1.07	1.02	1.01	1.04							1.33		3.10													
		velocity	4.92	7.94	8.33	8.42	8.17						9.77	7.40	8.23													
Chadwick, Payton (USA) (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 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	2.53	3.57	4.60	5.63	6.67	7.67	8.70	9.70	10.73	11.80	13.03	2 / 7														
reaction time	0.159	interval	1.04	1.03	1.03	1.04	1.00	1.03	1.00	1.03	1.07	1.23			3.10	3.07	3.10											
wind	2.0 m/s	velocity	5.14	8.17	8.25	8.25	8.17	8.50	8.25	8.50	8.25	7.94	8.17	7.67	8.23	8.31	8.23											
FINAL - 2022 Doha Diamond League (Doha, QAT) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	13-May-22	time	2.54	3.56	4.57	5.55	6.55	7.55	8.55	9.55	10.58	11.64	12.86	1 / 7														
reaction time	0.156	interval	1.02	1.01	0.98	1.00	1.00	1.00	1.00	1.00	1.03	1.06	1.22		3.01	3.00	3.09											
wind	3.8 m/s	velocity	5.12	8.33	8.42	8.67	8.50	8.50	8.50	8.50	8.25	8.02	8.24	7.78	8.47	8.50	8.25											
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	09-Sep-21	time	2.50	3.52	4.52	5.50	6.46	7.44	8.40	9.40	10.38	11.42	12.62	7 / 4														
reaction time	0.132	interval	1.02	1.00	0.98	0.96	0.98	0.96	1.00	0.98	1.04	1.20	PB		3.00	2.90	3.02											
wind	0.4 m/s	velocity	5.20	8.33	8.50	8.67	8.85	8.67	8.85	8.50	8.67	8.17	8.38	7.92	8.50	8.79	8.44											
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	13-Jul-21	time	2.52	3.54	4.56	5.54	6.54	7.52	8.50	9.50	10.51	11.53	12.75	3 / 2														
reaction time	0.172	interval	1.02	1.02	0.98	1.00	0.98	0.98	1.00	1.01	1.02	1.22			3.02	2.96	3.03											
wind	1.5 m/s	velocity	5.16	8.33	8.33	8.67	8.50	8.67	8.67	8.50	8.42	8.33	8.24	7.84	8.44	8.61	8.42											
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	20-Jun-21	time	2.50	3.53	4.52	5.52	6.50	7.47	8.45	9.44	10.44	11.47	12.66	7 / 7														
reaction time	0.190	interval	1.03	0.99	1.00	0.98	0.97	0.98	0.99	1.00	1.03	1.19			3.02	2.93	3.02											
wind	0.8 m/s	velocity	5.20	8.25	8.59	8.50	8.67	8.76	8.67	8.59	8.50	8.25	8.45	7.90	8.44	8.70	8.44											
Semi Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	20-Jun-21	time	2.47	3.50	4.50	5.47	6.44	7.42	8.40	9.40	10.40	11.43	12.64	7 / 3														
reaction time	0.175	interval	1.03	1.00	0.97	0.97	0.98	0.98	1.00	1.00	1.03	1.21	PB		3.00	2.93	3.03											

wind	1.3 m/s	velocity	5.26	8.25	8.50	8.76	8.76	8.67	8.67	8.50	8.50	8.25	8.31	7.91	8.50	8.70	8.42	
Heat 3 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	19-Jun-21	time	2.46	3.52	4.54	5.53	6.50	7.47	8.43	9.43	10.43	11.43		12.66	6 / 3			
reaction time	0.182	interval		1.06	1.02	0.99	0.97	0.97	0.96	1.00	1.00	1.00	1.23	PB		3.07	2.90	3.00
wind	1.0 m/s	velocity	5.28	8.02	8.33	8.59	8.76	8.76	8.85	8.50	8.50	8.50	8.17	7.90		8.31	8.79	8.50
FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	25-Sep-20	time	2.53	3.56	4.56	5.56	6.56	7.56	8.53	9.53	10.56	11.60		12.78	5 / 1			
reaction time	0.137	interval		1.03	1.00	1.00	1.00	1.00	0.97	1.00	1.03	1.04	1.18			3.03	2.97	3.07
wind	1.1 m/s	velocity	5.14	8.25	8.50	8.50	8.50	8.50	8.76	8.50	8.25	8.17	8.52	7.82		8.42	8.59	8.31
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	2.52	3.60	4.64	5.64	6.64	7.64	8.66	9.68	10.70	11.72		12.89	2 / 3			
reaction time	0.126	interval		1.08	1.04	1.00	1.00	1.00	1.02	1.02	1.02	1.02	1.17			3.12	3.02	3.06
wind	0.1 m/s	velocity	5.16	7.87	8.17	8.50	8.50	8.50	8.33	8.33	8.33	8.33	8.59	7.76		8.17	8.44	8.33
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)														<i>CAA Hurdle Development (2020)</i>				
date	15-Feb-20	time	2.60	3.63	4.63	5.64	6.64							7.94	3 / 2			
reaction time	0.160	interval		1.03	1.00	1.01	1.00						1.30			3.04		
		velocity	5.00	8.25	8.50	8.42	8.50						10.00	7.56		8.39		
Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)														<i>CAA Hurdle Development (2020)</i>				
date	15-Feb-20	time	2.62	3.65	4.69	5.65	6.67							8.04	7 / 2			
reaction time	0.170	interval		1.03	1.04	0.96	1.02						1.37			3.03		
		velocity	4.96	8.25	8.17	8.85	8.33						9.49	7.46		8.42		
FINAL - 2020 Millrose Games (New York, NY)														<i>PrimeTime Timing (2020) - http://results.nyrrmillrosegames.org/</i>				
date	08-Feb-20	time	2.57	3.62	4.61	5.61	6.59							8.00	8 / 3			
reaction time	0.161	interval		1.05	0.99	1.00	0.98						1.41			3.04		
		velocity	5.06	8.10	8.59	8.50	8.67						9.22	7.50		8.39		
FINAL - 2020 New Balance Indoor Grand Prix (Boston, MA)														<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>				
date	25-Jan-20	time	2.63	3.67	4.71	5.73	6.69							8.13	2 / 6			
reaction time		interval		1.04	1.04	1.02	0.96						1.44			3.10		
		velocity	4.94	8.17	8.17	8.33	8.85						9.03	7.38		8.23		
Heat 1 - 2020 New Balance Indoor Grand Prix (Boston, MA)														<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>				
date	25-Jan-20	time	2.66	3.71	4.74	5.75	6.72							8.07	3 / 3			
reaction time		interval		1.05	1.03	1.01	0.97						1.35			3.09		
		velocity	4.89	8.10	8.25	8.42	8.76						9.63	7.43		8.25		
FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	08-Jun-19	time	2.50	3.54	4.56	5.56	6.56	7.56	8.56	9.66	10.73	11.80		13.05	2 / 8			
reaction time	0.194	interval		1.04	1.02	1.00	1.00	1.00	1.00	1.10	1.07	1.07	1.25			3.06	3.00	3.24
wind	0.6 m/s	velocity	5.20	8.17	8.33	8.50	8.50	8.50	8.50	7.73	7.94	7.94	8.40	7.66		8.33	8.50	7.87
FINAL - 2019 NCAA Indoor Championships (Birmingham, AL) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	9-Mar-19	time	2.53	3.60	4.60	5.58	6.58							7.97	4 / 3			
reaction time	0.165	interval		1.07	1.00	0.98	1.00						1.39			3.05		
		velocity	5.14	7.94	8.50	8.67	8.50						9.35	7.53		8.36		
Chardonnet, Michèle (FRA) (1956)														H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10				
FINAL - 1986 French National Indoor Championships (Lievin, FRA)														<i>Aubert (1986) - indoor - video - haies, etude des performances</i>				
date	26-Jan-86	time	2.67	3.75	4.80	5.84	6.86							8.26	1 / 5			
reaction time		interval		1.08	1.05	1.04	1.02						1.40			3.17		
		velocity	4.87	7.87	8.10	8.17	8.33						9.29	7.26		8.04		
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)														<i>Aubert (1986) - indoor - video - haies, etude des performances</i>				
date	25-Jan-86	time	2.71	3.78	4.84	5.90	6.92							8.42	1 / 2			
reaction time		interval		1.07	1.06	1.06	1.02						1.50			3.19		
		velocity	4.80	7.94	8.02	8.02	8.33						8.67	7.13		7.99		
Heat ? - 1986 French National Indoor Championships (Lievin, FRA)														<i>Aubert (1986) - indoor - video - haies, etude des performances</i>				
date	25-Jan-86	time	2.69	3.78	4.86	5.92	6.96							8.42	1 / 2			
reaction time		interval		1.09	1.08	1.06	1.04						1.46			3.23		
		velocity	4.83	7.80	7.87	8.02	8.17						8.90	7.13		7.89		
Charlton, Devynne (BAH) (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 Golden Gala • Pietro Mennea (Roma, ITA)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	30-Aug-24	time	2.39	3.43	4.41	5.38	6.33	7.31	8.28	9.27				dnf	6 / --			
reaction time	0.151	interval		1.04	0.98	0.97	0.95	0.98	0.97	0.99						2.99	2.90	
wind	-0.4 m/s	velocity	5.44	8.17	8.67	8.76	8.95	8.67	8.76	8.59						8.53	8.79	

FINAL - 2024 Olympic Games (Paris, FRA)

date	10-Aug-24	time	2.46	3.49	4.47	5.48	6.40	7.37	8.35	9.32	10.31	11.33	12.56	8 / 6				
reaction time	0.203	interval		1.03	0.98	1.01	0.92	0.97	0.98	0.97	0.99	1.02	1.23			3.02	2.87	2.98
wind	-0.3 m/s	velocity	5.28	8.25	8.67	8.42	9.24	8.76	8.67	8.76	8.59	8.33	8.17	7.96		8.44	8.89	8.56

Paris 2024 Olympic Games - Results Book (2024)

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

date	09-Aug-24	time	2.36	3.39	4.38	5.35	6.30	7.26	8.22	9.20	10.21	11.23	12.50	7 / 2				
reaction time	0.138	interval		1.03	0.99	0.97	0.95	0.96	0.96	0.98	1.01	1.02	1.27			2.99	2.87	3.01
wind	0.5 m/s	velocity	5.51	8.25	8.59	8.76	8.95	8.85	8.85	8.67	8.42	8.33	7.91	8.00		8.53	8.89	8.47

Paris 2024 Olympic Games - Results Book (2024)

Heat 5 - 2024 Olympic Games (Paris, FRA)

date	07-Aug-24	time	2.41	3.46	4.47	5.46	6.44	7.42	8.39	9.40	10.40	11.44	12.71	2 / 2				
reaction time	0.155	interval		1.05	1.01	0.99	0.98	0.98	0.97	1.01	1.00	1.04	1.27			3.05	2.93	3.05
wind	-0.6 m/s	velocity	5.39	8.10	8.42	8.59	8.67	8.67	8.76	8.42	8.50	8.17	7.91	7.87		8.36	8.70	8.36

Paris 2024 Olympic Games - Results Book (2024)

FINAL - 2024 Prefontaine Classic (Eugene, OR)

date	25-May-24	time	2.42	3.46	4.46	5.45	6.43	7.40	8.38	9.38	10.38	11.40	12.63	3 / 4				
reaction time	0.138	interval		1.04	1.00	0.99	0.98	0.97	0.98	1.00	1.00	1.02	1.23			3.03	2.93	3.02
wind	-0.9 m/s	velocity	5.37	8.17	8.50	8.59	8.67	8.76	8.67	8.50	8.50	8.33	8.17	7.92		8.42	8.70	8.44

Omega Timing (2024) - diamond league race analysis

FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)

date	27-Apr-24	time	2.50	3.50	4.48	5.45	6.42	7.39	8.38	9.39	10.41	11.44	12.64	4 / 2				
reaction time	0.136	interval		1.00	0.98	0.97	0.97	0.97	0.99	1.01	1.02	1.03	1.20			2.95	2.93	3.06
wind	0.3 m/s	velocity	5.20	8.50	8.67	8.76	8.76	8.76	8.59	8.42	8.33	8.25	8.37	7.91		8.64	8.70	8.33

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

FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)

date	20-Apr-24	time	2.39	3.41	4.39	5.36	6.32	7.27	8.24	9.22	10.23	11.23	12.49	6 / 2				
reaction time	0.144	interval		1.02	0.98	0.97	0.96	0.95	0.97	0.98	1.01	1.00	1.26			2.97	2.88	2.99
wind	-0.2 m/s	velocity	5.44	8.33	8.67	8.76	8.85	8.95	8.76	8.67	8.42	8.50	7.98	8.01		8.59	8.85	8.53

Omega Timing (2024) - diamond league race analysis

FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

date	03-Mar-24	time	2.50	3.48	4.48	5.42	6.35						7.65	4 / 1				
reaction time	0.152	interval		0.98	1.00	0.94	0.93						1.30			2.92		
		velocity	5.20	8.67	8.50	9.04	9.14						10.00			7.84		8.73

Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

Heat 3 - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

date	03-Mar-24	time	2.56	3.58	4.58	5.56	6.54						7.93	6 / 1				
reaction time	0.181	interval		1.02	1.00	0.98	0.98						1.39			3.00		
		velocity	5.08	8.33	8.50	8.67	8.67						9.35			7.57		8.50

Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

FINAL - 2024 Villa de Madrid Indoor Meeting (Madrid, ESP) (TV Analysis)

date	23-Feb-24	time	2.47	3.47	4.43	5.39	6.34						7.68	4 / 1				
reaction time	0.139	interval		1.00	0.96	0.96	0.95						1.34			2.92		
		velocity	5.26	8.50	8.85	8.85	8.95						9.70			7.81		8.73

Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

FINAL - 2024 Millrose Games (New York, NY) (TV Analysis)

date	11-Feb-24	time	2.48	3.48	4.46	5.40	6.34						7.67	4 / 1				
reaction time	0.168	interval		1.00	0.98	0.94	0.94						1.33			2.92		
		velocity	5.24	8.50	8.67	9.04	9.04						9.77			7.82		8.73

Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)

date	04-Feb-24	time	2.48	3.49	4.48	5.46	6.43						7.76	5 / 3				
reaction time	0.167	interval		1.01	0.99	0.98	0.97						1.33			2.98		
		velocity	5.24	8.42	8.59	8.67	8.76						9.77			7.73		8.56

Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

FINAL - 2024 Corky Classic (Lubbock, TX) (TV Analysis)

date	20-Jan-24	time	2.36	3.40	4.38	5.38	6.38						7.75	4 / 1				
reaction time		interval		1.04	0.98	1.00	1.00						1.37			3.02		
		velocity	5.51	8.17	8.67	8.50	8.50						9.49			7.74		8.44

Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

FINAL - 2023 Weltklasse (Zürich, SUI)

date	31-Aug-23	time	2.43	3.47	4.48	5.46	6.44	7.42	8.40	9.41	10.44	11.49	12.75	1 / 8				
reaction time	0.152	interval		1.04	1.01	0.98	0.98	0.98	0.98	1.01	1.03	1.05	1.26			3.03	2.94	3.09
wind	-0.2 m/s	velocity	5.35	8.17	8.42	8.67	8.67	8.67	8.67	8.42	8.25	8.10	7.98	7.84		8.42	8.67	8.25

Omega Timing (2023) - diamond league race analysis

FINAL - 2023 World Athletics Championships (Budapest, HUN)

date	24-Aug-23	time	2.51	3.53	4.52	5.51	6.48	7.44	8.41	9.41	10.41	11.43	12.52	6 / 4				
reaction time	0.149	interval		1.02	0.99	0.99	0.97	0.96	0.97	1.00	1.00	1.02	1.09			3.00	2.90	3.02
wind	-0.2 m/s	velocity	5.18	8.33	8.59	8.59	8.76	8.85	8.76	8.50	8.50	8.33	9.22	7.99		8.50	8.79	8.44

Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season

Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

date	23-Aug-23	time	2.50	3.50	4.48	5.44	6.39	7.36	8.34	9.31	10.32	11.34	12.49	6 / 2			
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Henson (2023) - Athlete First: 2023 year end hurdle report

reaction time	0.177	interval	1.00	0.98	0.96	0.95	0.97	0.98	0.97	1.01	1.02	1.15			2.94	2.90	3.00
wind	0.5 m/s	velocity	5.20	8.50	8.67	8.85	8.95	8.76	8.67	8.76	8.42	8.33	8.74	8.01	8.67	8.79	8.50
Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	22-Aug-23	time	2.50	3.49	4.46	5.43	6.39	7.34	8.30	9.28	10.26	11.30		12.44	9 / 2		
reaction time	0.159	interval	0.99	0.97	0.97	0.96	0.95	0.96	0.98	0.98	1.04	1.14		NR	2.93	2.87	3.00
wind	0.1 m/s	velocity	5.20	8.59	8.76	8.76	8.85	8.95	8.85	8.67	8.67	8.17	8.82	8.04	8.70	8.89	8.50
FINAL - 2023 Bauhaus Galan (Stockholm, SWE)														<i>Omega Timing (2023) - diamond league race analysis</i>			
date	02-Jul-23	time	2.40	3.46	4.49	5.48	6.47	7.47	8.47	9.48	10.50	11.56		12.85	3 / 4		
reaction time	0.141	interval	1.06	1.03	0.99	0.99	1.00	1.00	1.01	1.02	1.06	1.29			3.08	2.99	3.09
wind	0.9 m/s	velocity	5.42	8.02	8.25	8.59	8.59	8.50	8.50	8.42	8.33	8.02	7.79	7.78	8.28	8.53	8.25
FINAL - 2023 FBK Games (Hengelo, NED)														<i>Omega Timing (2023) - continental tour race analysis</i>			
date	04-Jun-23	time	2.41	3.45	4.46	5.46	6.45	7.45	8.46	9.49	10.53	11.60		12.93	6 / 6		
reaction time	0.155	interval	1.04	1.01	1.00	0.99	1.00	1.01	1.03	1.04	1.07	1.33			3.05	3.00	3.14
wind	0.2 m/s	velocity	5.39	8.17	8.42	8.50	8.59	8.50	8.42	8.25	8.17	7.94	7.56	7.73	8.36	8.50	8.12
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	08-Sep-22	time	2.45	3.47	4.45	5.43	6.40	7.39	8.37	9.37	10.39	11.41		12.66	2 / 5		
reaction time	0.147	interval	1.02	0.98	0.98	0.97	0.99	0.98	1.00	1.02	1.02	1.25			2.98	2.94	3.04
wind	-0.3 m/s	velocity	5.31	8.33	8.67	8.67	8.76	8.59	8.67	8.50	8.33	8.33	8.04	7.90	8.56	8.67	8.39
FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	02-Sep-22	time	2.44	3.47	4.47	5.47	6.44	7.40	8.40	9.40	10.41	11.41		12.66	1 / 6		
reaction time	0.160	interval	1.03	1.00	1.00	0.97	0.96	1.00	1.00	1.01	1.00	1.25			3.03	2.93	3.01
wind	0.1 m/s	velocity	5.33	8.25	8.50	8.50	8.76	8.85	8.50	8.50	8.42	8.50	8.04	7.90	8.42	8.70	8.47
FINAL - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	07-Aug-22	time	2.48	3.48	4.46	5.42	6.40	7.38	8.36	9.36	10.36	11.40		12.58	7 / 2		
reaction time	0.144	interval	1.00	0.98	0.96	0.98	0.98	0.98	0.98	1.00	1.00	1.04	1.18		2.94	2.94	3.04
wind	-0.2 m/s	velocity	5.24	8.50	8.67	8.85	8.67	8.67	8.67	8.50	8.50	8.17	8.52	7.95	8.67	8.67	8.39
FINAL - 2022 World Athletics Championships (Eugene, OR)														<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>			
date	24-Jul-22	time	2.52	3.51	4.47	5.41	6.35	7.35	8.34	9.34	10.37	11.39		12.53	8 / 7		
reaction time	0.129	interval	0.99	0.96	0.94	0.94	1.00	0.99	1.00	1.03	1.02	1.14			2.89	2.93	3.05
wind	2.5 m/s	velocity	5.16	8.59	8.85	9.04	9.04	8.50	8.59	8.50	8.25	8.33	8.82	7.98	8.82	8.70	8.36
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	24-Jul-22	time	2.43	3.43	4.42	5.38	6.32	7.28	8.26	9.24	10.24	11.26		12.46	3 / 2		
reaction time	0.138	interval	1.00	0.99	0.96	0.94	0.96	0.98	0.98	1.00	1.02	1.20		NR PB	2.95	2.88	3.00
wind	-0.1 m/s	velocity	5.35	8.50	8.59	8.85	9.04	8.85	8.67	8.67	8.50	8.33	8.37	8.03	8.64	8.85	8.50
Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	23-Jul-22	time	2.46	3.48	4.48	5.46	6.44	7.40	8.38	9.38	10.40	11.46		12.69	8 / 2		
reaction time	0.124	interval	1.02	1.00	0.98	0.98	0.96	0.98	1.00	1.02	1.06	1.23			3.00	2.92	3.08
wind	-0.4 m/s	velocity	5.28	8.33	8.50	8.67	8.67	8.85	8.67	8.50	8.33	8.02	8.17	7.88	8.50	8.73	8.28
FINAL - 2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	30-Jun-22	time	2.48	3.50	4.48	5.46	6.43	7.41	8.37	9.37	10.37	11.45		12.65	7 / 5		
reaction time	0.145	interval	1.02	0.98	0.98	0.97	0.98	0.96	1.00	1.00	1.08	1.20			2.98	2.91	3.08
wind	-0.5 m/s	velocity	5.24	8.33	8.67	8.67	8.76	8.67	8.85	8.50	8.50	7.87	8.37	7.91	8.56	8.76	8.28
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	2.45	3.47	4.47	5.45	6.42	7.39	8.38	9.38	10.38	11.41		12.63	7 / 2		
reaction time	0.153	interval	1.02	1.00	0.98	0.97	0.97	0.99	1.00	1.00	1.03	1.22			3.00	2.93	3.03
wind	-0.4 m/s	velocity	5.31	8.33	8.50	8.67	8.76	8.76	8.59	8.50	8.50	8.25	8.24	7.92	8.50	8.70	8.42
FINAL - 2022 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	13-May-22	time	2.45	3.47	4.45	5.43	6.39	7.34	8.34	9.34	10.36	11.40		12.61	7 / 4		
reaction time	0.154	interval	1.02	0.98	0.98	0.96	0.95	1.00	1.00	1.02	1.04	1.21			2.98	2.91	3.06
wind	3.8 m/s	velocity	5.31	8.33	8.67	8.67	8.85	8.95	8.50	8.50	8.33	8.17	8.31	7.93	8.56	8.76	8.33
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	19-Mar-22	time	2.44	3.44	4.44	5.40	6.38							7.81	4 / 2		
reaction time	0.157	interval	1.00	1.00	0.96	0.98							1.43	NR	2.96		
		velocity	5.33	8.50	8.50	8.85	8.67						9.09	7.68	8.61		
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	02-Aug-21	time	2.48	3.50	4.50	5.48	6.46	7.46	8.46	9.46	10.48	11.50		12.74	8 / 6		
reaction time	0.144	interval	1.02	1.00	0.98	0.98	1.00	1.00	1.00	1.02	1.02	1.24			3.00	2.98	3.04
wind	-0.3 m/s	velocity	5.24	8.33	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.33	8.10	7.85	8.50	8.56	8.39

Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	01-Aug-21	time	2.46	3.46	4.46	5.46	6.42	7.38	8.35	9.35	10.35	11.42	12.66	8 / 2			
reaction time	0.134	interval		1.00	1.00	1.00	0.96	0.96	0.97	1.00	1.00	1.07	1.24		3.00	2.89	3.07
wind	-0.8 m/s	velocity	5.28	8.50	8.50	8.50	8.85	8.85	8.76	8.50	8.50	7.94	8.10	7.90	8.50	8.82	8.31

Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	31-Jul-21	time	2.61	3.63	4.63	5.62	6.62	7.59	8.57	9.58	10.61	11.66	12.84	9 / 4			
reaction time	0.135	interval		1.02	1.00	0.99	1.00	0.97	0.98	1.01	1.03	1.05	1.18		3.01	2.95	3.09
wind	0.4 m/s	velocity	4.98	8.33	8.50	8.59	8.50	8.76	8.67	8.42	8.25	8.10	8.52	7.79	8.47	8.64	8.25

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	3.50	4.50	5.50	6.48	7.46	8.46	9.46	10.50	11.54	12.80	2 / 2			
reaction time	0.147	interval		1.02	1.00	1.00	0.98	0.98	1.00	1.00	1.04	1.04	1.26		3.02	2.96	3.08
wind	-0.8 m/s	velocity	5.24	8.33	8.50	8.50	8.67	8.67	8.50	8.50	8.17	8.17	7.98	7.81	8.44	8.61	8.28

FINAL - 2021 USATF Golden Games (Walnut, CA) (TV Analysis)*Henson (2021) - Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season*

date	09-May-21	time	2.43	3.46	4.44	5.42	6.38	7.36	8.34	9.32	10.34	11.36	12.61	1 / 4			
reaction time	0.147	interval		1.03	0.98	0.98	0.96	0.98	0.98	0.98	1.02	1.02	1.25	NR PB	2.99	2.92	3.02
wind	2.0 m/s	velocity	5.35	8.25	8.67	8.67	8.85	8.67	8.67	8.67	8.33	8.33	8.04	7.93	8.53	8.73	8.44

FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	18-Aug-19	time	2.56	3.67	4.70	5.70	6.70	7.70	8.70	9.70	10.71	11.74	12.92	6 / 7			
reaction time	0.150	interval		1.11	1.03	1.00	1.00	1.00	1.00	1.00	1.01	1.03	1.18		3.14	3.00	3.04
wind	-0.2 m/s	velocity	5.08	7.66	8.25	8.50	8.50	8.50	8.50	8.50	8.42	8.25	8.90	7.74	8.12	8.50	8.39

FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)*CAA Hurdle Development (2019)*

date	21-May-19	time	2.62	3.71	4.78	5.84	6.93	8.00	9.09	10.21			14.08	9 / 10			
reaction time	0.172	interval		1.09	1.07	1.06	1.09	1.07	1.09	1.12					3.22	3.25	
wind	-1.0 m/s	velocity	4.96	7.80	7.94	8.02	7.80	7.94	7.80	7.59			7.10		7.92	7.85	

FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	09-Jun-18	time	2.46	3.50	4.50	5.50	6.46	7.43	8.43	9.43	10.43	11.50	12.77	8 / 2			
reaction time		interval		1.04	1.00	1.00	0.96	0.97	1.00	1.00	1.00	1.07	1.27		3.04	2.93	3.07
wind	0.9 m/s	velocity	5.28	8.17	8.50	8.50	8.85	8.76	8.50	8.50	8.50	7.94	8.27	7.83	8.39	8.70	8.31

FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)*Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60m Hurdles Women*

date	03-Mar-18	time	2.59	3.63	4.69	5.71	6.75							8.18	8 / 8		
reaction time	0.158	interval		1.04	1.06	1.02	1.04						1.43			3.12	
		velocity	5.02	8.17	8.02	8.33	8.17						9.09	12.22		8.17	

Semi-Final 3 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date	11-Aug-17	time	2.42	3.47	4.49	5.51	6.52	7.53	8.55	9.56	10.59	11.65	12.95	2 / 6			
reaction time	0.163	interval		1.05	1.02	1.02	1.01	1.01	1.02	1.01	1.03	1.06	1.30		3.09	3.04	3.10
wind	0.2 m/s	velocity	5.37	8.10	8.33	8.33	8.42	8.42	8.33	8.42	8.25	8.02	8.08	7.72	8.25	8.39	8.23

Chatfield, Emelia (HAI) (2001)**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 Olympc Games - Results Book (2024)*

date	08-Aug-24	time	2.49	3.57	4.64	5.69	6.72	7.75	8.79	9.84	10.89	11.95	13.24	3 / 6			
reaction time	0.151	interval		1.08	1.07	1.05	1.03	1.03	1.04	1.05	1.05	1.06	1.29		3.20	3.10	3.16
wind	0.1 m/s	velocity	5.22	7.87	7.94	8.10	8.25	8.25	8.17	8.10	8.10	8.02	7.79	7.55	7.97	8.23	8.07

Heat 2 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympc Games - Results Book (2024)*

date	07-Aug-24	time	2.51	3.59	4.63	5.66	6.67	7.69	8.71	9.73	10.75	11.79	13.06	5 / 8			
reaction time	0.158	interval		1.08	1.04	1.03	1.01	1.02	1.02	1.02	1.02	1.04	1.27		3.15	3.05	3.08
wind	0.0 m/s	velocity	5.18	7.87	8.17	8.25	8.42	8.33	8.33	8.33	8.33	8.17	7.91	7.66	8.10	8.36	8.28

Chausseray, Celia (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	12-Sep-20	time	2.67	3.78	4.79	5.94	6.99	8.00	9.11	10.19	11.24	12.39	13.73	2 / 6			
reaction time	0.208	interval		1.11	1.01	1.15	1.05	1.01	1.11	1.08	1.05	1.15	1.34	PB	3.27	3.17	3.28
wind	1.5 m/s	velocity	4.87	7.66	8.42	7.39	8.10	8.42	7.66	7.87	8.10	7.39	7.50	7.28	7.80	8.04	7.77

Chen Jiamin (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 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)***Shandong Athletics Sport Science (2024)*

date	30-Jun-24	time	2.70	3.74	4.76	5.79	6.84	7.89	8.92	9.94	11.02	12.08	13.23	7 / 3			
reaction time	0.151	interval		1.04	1.02	1.03	1.05	1.05	1.03	1.02	1.08	1.06	1.15		3.09	3.13	3.16
wind	0.2 m/s	velocity	4.81	8.17	8.33	8.25	8.10	8.10	8.25	8.33	7.87	8.02	8.74	7.56	8.25	8.15	8.07

Heat 2 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)*Shandong Athletics Sport Science (2024)*

date	29-Jun-24	time	2.75	3.80	4.87	5.91	6.97	8.02	9.09	10.15	11.24	12.33	13.53	7 / 2			
reaction time	0.179	interval		1.05	1.07	1.04	1.06	1.05	1.07	1.06	1.09	1.09	1.20		3.16	3.18	3.24
wind	-0.5 m/s	velocity	4.73	8.10	7.94	8.17	8.02	8.10	7.94	8.02	7.80	7.80	8.38	7.39	8.07	8.02	7.87

FINAL - 2023 Chinese National Grand Prix 4 (Chongqing, CHN)

Shandong Athletics Sport Science (2023)

date	03-Jun-23	time	2.70	3.73	4.76	5.78	6.84	7.86	8.88	9.93	10.96	12.03		13.19	4 / 1			
reaction time	0.217	interval		1.03	1.03	1.02	1.06	1.02	1.02	1.05	1.03	1.07	1.16			3.08	3.10	3.15
wind	0.3 m/s	velocity	4.81	8.25	8.25	8.33	8.02	8.33	8.33	8.10	8.25	7.94	8.66	7.58		8.28	8.23	8.10

FINAL - 2022 Chinese National Grand Prix (Huangshi, CHN)

Gong (2023) - research on the technical characteristics of outstanding women's 100m hurdlers in china

date	13-Jul-22	time	2.63			5.74			8.82		12.01			13.33	/ 1			
reaction time		interval				3.11			3.08		3.19	1.32				3.11	3.08	3.19
wind	-1.1 m/s	velocity	4.94			8.20			8.28		7.99	7.61	7.50			8.20	8.28	7.99

Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

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

date	31-Jul-21	time	2.60	3.62	4.64	5.67	6.72	7.75	8.77	9.82	10.86	11.94		13.09	3 / 5			
reaction time	0.144	interval		1.02	1.02	1.03	1.05	1.03	1.02	1.05	1.04	1.08	1.15			3.07	3.10	3.17
wind	1.0 m/s	velocity	5.00	8.33	8.33	8.25	8.10	8.25	8.33	8.10	8.17	7.87	8.74	7.64		8.31	8.23	8.04

FINAL - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.63	3.67	4.71	5.72	6.74	7.76	8.77	9.80	10.83	11.89		13.01	7 / 2			
reaction time	0.170	interval		1.04	1.04	1.01	1.02	1.02	1.01	1.03	1.03	1.06	1.12	PB		3.09	3.05	3.12
wind	1.7 m/s	velocity	4.94	8.17	8.17	8.42	8.33	8.33	8.42	8.25	8.25	8.02	8.97	7.69		8.25	8.36	8.17

Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.63	3.69	4.77	5.82	6.86	7.89	8.94	10.01	11.06	12.14		13.34	4 / 1			
reaction time	0.146	interval		1.06	1.08	1.05	1.04	1.03	1.05	1.07	1.05	1.08	1.20			3.19	3.12	3.20
wind	-0.3 m/s	velocity	4.94	8.02	7.87	8.10	8.17	8.25	8.10	7.94	8.10	7.87	8.38	7.50		7.99	8.17	7.97

FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)

CAA Hurdle Development (2021)

date	12-Jun-21	time	2.63	3.65	4.68	5.70	6.72	7.72	8.76	9.79	10.84	11.90		13.04	5 / 2			
reaction time	0.153	interval		1.02	1.03	1.02	1.02	1.00	1.04	1.03	1.05	1.06	1.14	PB		3.07	3.06	3.14
wind	1.0 m/s	velocity	4.94	8.33	8.25	8.33	8.33	8.50	8.17	8.25	8.10	8.02	8.82	7.67		8.31	8.33	8.12

Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)

CAA Hurdle Development (2021)

date	12-Jun-21	time	2.58	3.63	4.67	5.71	6.74	7.77	8.79	9.83	10.88	11.94		13.16	3 / 2			
reaction time	0.145	interval		1.05	1.04	1.04	1.03	1.03	1.02	1.04	1.05	1.06	1.22			3.13	3.08	3.15
wind	2.2 m/s	velocity	5.04	8.10	8.17	8.17	8.25	8.25	8.33	8.17	8.10	8.02	8.24	7.60		8.15	8.28	8.10

FINAL - 2021 East China District Meeting (Zhaoqing, CHN)

CAA Hurdle Development (2021)

date	24-Apr-21	time	2.65	3.70	4.75	5.79	6.84	7.87	8.92	9.98	11.01	12.10		13.26	9 / 3			
reaction time	0.159	interval		1.05	1.05	1.04	1.05	1.03	1.05	1.06	1.03	1.09	1.16			3.14	3.13	3.18
wind	-0.8 m/s	velocity	4.91	8.10	8.10	8.17	8.10	8.25	8.10	8.02	8.25	7.80	8.66	7.54		8.12	8.15	8.02

Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)

CAA Hurdle Development (2021)

date	24-Apr-21	time	2.67	3.75	4.81	5.89	6.96	8.00	9.07	10.14	11.24	12.36		13.56	7 / 3			
reaction time	0.165	interval		1.08	1.06	1.08	1.07	1.04	1.07	1.07	1.10	1.12	1.20			3.22	3.18	3.29
wind	0.6 m/s	velocity	4.87	7.87	8.02	7.87	7.94	8.17	7.94	7.94	7.73	7.59	8.37	7.37		7.92	8.02	7.75

FINAL - 2021 National Grand Prix (Chengdu, CHN)

CAA Hurdle Development (2021)

date	02-Apr-21	time	2.63	3.70	4.74	5.78	6.80	7.82	8.88	9.92	10.97	12.04		13.20	8 / 1			
reaction time	0.201	interval		1.07	1.04	1.04	1.02	1.02	1.06	1.04	1.05	1.07	1.16	PB		3.15	3.10	3.16
wind	0.1 m/s	velocity	4.94	7.94	8.17	8.17	8.33	8.33	8.02	8.17	8.10	7.94	8.66	7.58		8.10	8.23	8.07

Heat 1 - 2021 National Grand Prix (Chengdu, CHN)

CAA Hurdle Development (2021)

date	02-Apr-21	time	2.68	3.76	4.82	5.86	6.96	8.04	9.14	10.26	11.40	12.54		13.82	4 / 3			
reaction time	0.193	interval		1.08	1.06	1.04	1.10	1.08	1.10	1.12	1.14	1.14	1.28			3.18	3.28	3.40
wind	1.0 m/s	velocity	4.85	7.87	8.02	8.17	7.73	7.87	7.73	7.59	7.46	7.46	7.85	7.24		8.02	7.77	7.50

FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)

CAA Hurdle Development (2021)

date	18-Mar-21	time	2.59	3.65	4.69	5.73	6.77							8.14	3 / 2			
reaction time	0.133	interval		1.06	1.04	1.04	1.04							1.37		PB	3.14	
		velocity	5.02	8.02	8.17	8.17	8.17							9.49		7.37	8.12	

Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)

CAA Hurdle Development (2020)

date	15-Sep-20	time	2.80	3.89	5.00	6.08	7.14	8.21	9.30	10.39	11.51	12.66		13.92	9 / 5			
reaction time	0.203	interval		1.09	1.11	1.08	1.06	1.07	1.09	1.09	1.12	1.15	1.26			3.28	3.22	3.36
wind	0.3 m/s	velocity	4.64	7.80	7.66	7.87	8.02	7.94	7.80	7.80	7.59	7.39	7.98	7.18		7.77	7.92	7.59

FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)

CAA Hurdle Development (2019)

date	24-Aug-19	time	2.67	3.71	4.81	5.85	6.91	7.96	9.01	10.09	11.16	12.26		13.46	5 / 1			
reaction time	0.215	interval		1.04	1.10	1.04	1.06	1.05	1.05	1.08	1.07	1.10	1.20			3.18	3.16	3.25
wind	-0.1 m/s	velocity	4.87	8.17	7.73	8.17	8.02	8.10	8.10	7.87	7.94	7.73	8.75	7.43		8.02	8.07	7.85

Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

CAA Hurdle Development (2019)

date	23-Aug-19	time	2.72	3.79	4.86	5.92	6.99	8.06	9.14	10.24	11.34	12.46		13.72	6 / 2			
reaction time	0.215	interval		1.07	1.07	1.06	1.07	1.07	1.08	1.10	1.10	1.12	1.26			3.20	3.22	3.32

wind	0.2 m/s	velocity	4.78	7.94	7.94	8.02	7.94	7.94	7.87	7.73	7.73	7.59	8.33	7.29	7.97	7.92	7.68	
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	02-Aug-19	time	2.70	3.75	4.80	5.83	6.91	7.96	9.03	10.10	11.22	12.34		13.60	6 / 7			
reaction time	0.185	interval	1.05	1.05	1.03	1.08	1.05	1.07	1.07	1.12	1.12	1.26			3.13	3.20	3.31	
wind	0.0 m/s	velocity	4.81	8.10	8.10	8.25	7.87	8.10	7.94	7.94	7.59	7.59	8.33	7.35	8.15	7.97	7.70	
Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	02-Aug-19	time	2.67	3.74	4.78	5.84	6.89	7.96	9.04	10.13	11.21	12.31		13.57	4 / 2			
reaction time	0.146	interval	1.07	1.04	1.06	1.05	1.07	1.08	1.09	1.08	1.10	1.26			3.17	3.20	3.27	
wind	-0.3 m/s	velocity	4.87	7.94	8.17	8.02	8.10	7.94	7.87	7.80	7.87	7.73	8.33	7.37	8.04	7.97	7.80	
FINAL - 2019 Chinese National Championships (Shenyang, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	08-Jul-19	time	2.66	3.70	4.74	5.77	6.77	7.82	8.86	9.91	10.97	12.06		13.25	5 / 1			
reaction time	0.166	interval	1.04	1.04	1.03	1.00	1.05	1.04	1.05	1.06	1.09	1.19			3.11	3.09	3.20	
wind	0.2 m/s	velocity	4.89	8.17	8.17	8.25	8.50	8.10	8.17	8.10	8.02	7.80	8.82	7.55	8.20	8.25	7.97	
Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	08-Jul-19	time	2.72	3.78	4.82	5.86	6.92	7.98	9.06	10.15	11.25	12.36		13.65	6 / 1			
reaction time	0.179	interval	1.06	1.04	1.04	1.06	1.06	1.08	1.09	1.10	1.11	1.29			3.14	3.20	3.30	
wind	0.7 m/s	velocity	4.78	8.02	8.17	8.17	8.02	8.02	7.87	7.80	7.73	7.66	8.14	7.33	8.12	7.97	7.73	
FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	07-Jun-19	time	2.70	3.73	4.80	5.83	6.89	7.94	8.99	10.02	11.11	12.19		13.37	4 / 4			
reaction time	0.193	interval	1.03	1.07	1.03	1.06	1.05	1.05	1.03	1.09	1.08	1.18			3.13	3.16	3.20	
wind	2.3 m/s	velocity	4.81	8.25	7.94	8.25	8.02	8.10	8.10	8.25	7.80	7.87	8.90	7.48	8.15	8.07	7.97	
FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	04-Jun-19	time	2.61	3.69	4.73	5.79	6.85	7.92	9.00	10.11	11.24	12.38		13.60	5 / 4			
reaction time	0.143	interval	1.08	1.04	1.06	1.06	1.07	1.08	1.11	1.13	1.14	1.22			3.18	3.21	3.38	
wind	-1.2 m/s	velocity	4.98	7.87	8.17	8.02	8.02	7.94	7.87	7.66	7.52	7.46	8.61	7.35	8.02	7.94	7.54	
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	30-May-19	time	2.68	3.75	4.80	5.88	6.92	8.04	9.12	10.21	11.31	12.43		13.64	7 / 3			
reaction time	0.180	interval	1.07	1.05	1.08	1.04	1.12	1.08	1.09	1.10	1.12	1.21			3.20	3.24	3.31	
wind	-0.1 m/s	velocity	4.85	7.94	8.10	7.87	8.17	7.59	7.87	7.80	7.73	7.59	8.68	7.33	7.97	7.87	7.70	
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	21-May-19	time	2.67	3.73	4.80	5.87	6.96	8.08	9.15	10.24	11.36	12.46		13.72	1 / 9			
reaction time	0.303	interval	1.06	1.07	1.07	1.09	1.12	1.07	1.09	1.12	1.10	1.26			3.20	3.28	3.31	
wind	-1.0 m/s	velocity	4.87	8.02	7.94	7.94	7.80	7.59	7.94	7.80	7.59	7.73	8.33	7.29	7.97	7.77	7.70	
FINAL - 2019 Asian Athletics Championships (Doha, QAT)															<i>CAA Hurdle Development (2019)</i>			
date	24-Apr-19	time	2.62	3.67	4.69	5.72	6.74	7.76	8.80	9.86	10.96	12.06		13.24	6 / 2			
reaction time	0.150	interval	1.05	1.02	1.03	1.02	1.02	1.04	1.06	1.10	1.10	1.18	PB		3.10	3.08	3.26	
wind	1.3 m/s	velocity	4.96	8.10	8.33	8.25	8.33	8.33	8.17	8.02	7.73	7.73	8.90	7.55	8.23	8.28	7.82	
Heat 1 - 2019 Asian Athletics Championships (Doha, QAT)															<i>CAA Hurdle Development (2019)</i>			
date	23-Apr-19	time	2.65	3.70	4.75	5.80	6.83	7.86	8.89	9.94	11.01	12.11		13.30	9 / 1			
reaction time	0.157	interval	1.05	1.05	1.05	1.03	1.03	1.03	1.05	1.07	1.10	1.19			3.15	3.09	3.22	
wind	1.3 m/s	velocity	4.91	8.10	8.10	8.10	8.25	8.25	8.25	8.10	7.94	7.73	8.82	7.52	8.10	8.25	7.92	
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	13-Apr-19	time	2.68	3.74	4.79	5.83	6.87	7.91	8.94	10.00	11.06	12.14		13.35	9 / 1			
reaction time	0.181	interval	1.06	1.05	1.04	1.04	1.04	1.03	1.06	1.06	1.08	1.21			3.15	3.11	3.20	
wind	0.3 m/s	velocity	4.85	8.02	8.10	8.17	8.17	8.17	8.25	8.02	8.02	7.87	8.68	7.49	8.10	8.20	7.97	
Heat 1 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	13-Apr-19	time	2.64	3.70	4.82	5.87	6.94	8.02	9.09	10.20	11.31	12.44		13.71	6 / 3			
reaction time	0.200	interval	1.06	1.12	1.05	1.07	1.08	1.07	1.11	1.11	1.13	1.27			3.23	3.22	3.35	
wind	0.7 m/s	velocity	4.92	8.02	7.59	8.10	7.94	7.87	7.94	7.66	7.66	7.52	8.27	7.29	7.89	7.92	7.61	
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	09-Apr-19	time	2.71	3.79	4.81	5.87	6.93	7.99	9.04	10.10	11.16	12.29		13.71	4 / 5			
reaction time	0.216	interval	1.08	1.02	1.06	1.06	1.06	1.05	1.06	1.06	1.13	1.42			3.16	3.17	3.25	
wind	0.1 m/s	velocity	4.80	7.87	8.33	8.02	8.02	8.02	8.10	8.02	8.02	7.52	7.39	7.29	8.07	8.04	7.85	
Heat 4 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	08-Apr-19	time	2.62	3.67	4.73	5.79	6.86	7.91	9.00	10.09	11.16	12.27		13.56	8 / 1			
reaction time	0.176	interval	1.05	1.06	1.06	1.07	1.05	1.09	1.09	1.09	1.07	1.11	1.29		3.17	3.21	3.27	
wind	0.1 m/s	velocity	4.96	8.10	8.02	8.02	7.94	8.10	7.80	7.80	7.94	7.66	8.14	7.37	8.04	7.94	7.80	
B-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)															<i>CAA Hurdle Development (2019)</i>			

date	20-Mar-19	time	2.67	3.72	4.79	5.84	6.89							8.32	3 / 1				
reaction time		interval		1.05	1.07	1.05	1.05						1.43	PB			3.17		
		velocity	4.87	8.10	7.94	8.10	8.10						9.09	7.21			8.04		
B-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)																			
date	4-Mar-19	time	2.66	3.74	4.80	5.86	6.94							8.37	3 / 1				
reaction time		interval		1.08	1.06	1.06	1.08						1.43	PB			3.20		
		velocity	4.89	7.87	8.02	8.02	7.87						9.09	7.17			7.97		
A-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)																			
date	28-Feb-19	time	2.67	3.73	4.81	5.87	6.97							8.42	4 / 1				
reaction time		interval		1.06	1.08	1.06	1.10						1.45				3.20		
		velocity	4.87	8.02	7.87	8.02	7.73						8.97	7.13			7.97		
FINAL - 2018 Chinese National Championships (Taiyuan, CHN)																			
date	16-Sep-18	time	2.68	3.74	4.82	5.87	6.92	7.98	9.03	10.11	11.20	12.31		13.53	5 / 4				
reaction time		interval		1.06	1.08	1.05	1.05	1.06	1.05	1.08	1.09	1.11	1.22				3.19	3.16	3.28
wind	-0.2 m/s	velocity	4.85	8.02	7.87	8.10	8.10	8.02	8.10	7.87	7.80	7.66	8.61	7.39			7.99	8.07	7.77
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)																			
date	15-Sep-18	time	2.74	3.80	4.86	5.92	6.97	8.03	9.11	10.18	11.28	12.40		13.63	5 / 1				
reaction time		interval		1.06	1.06	1.06	1.05	1.06	1.08	1.07	1.10	1.12	1.23				3.18	3.19	3.29
wind	-0.6 m/s	velocity	4.74	8.02	8.02	8.02	8.10	8.02	7.87	7.94	7.73	7.59	8.54	7.34			8.02	7.99	7.75
FINAL - 2017 Chinese National Games (Tianjin, CHN)																			
date	04-Sep-17	time	2.67	3.79	4.87	5.93	6.99	8.04	9.11	10.19	11.26	12.41		13.71	3 / 6				
reaction time		interval		1.12	1.08	1.06	1.06	1.05	1.07	1.08	1.07	1.15	1.30				3.26	3.18	3.30
wind	-0.2 m/s	velocity	4.87	7.59	7.87	8.02	8.02	8.10	7.94	7.87	7.94	7.39	8.08	7.29			7.82	8.02	7.73
Chen Mengqiao (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 - 2023 Chinese National Grand Prix 4 (Chongqing, CHN)																			
date	03-Jun-23	time	2.76	3.89	4.99	6.12	7.21	8.31	9.43	10.56	11.71	12.93		14.22	1 / 8				
reaction time	0.211	interval		1.13	1.10	1.13	1.09	1.10	1.12	1.13	1.15	1.22	1.29	PB			3.36	3.31	3.50
wind	0.3 m/s	velocity	4.71	7.52	7.73	7.52	7.80	7.73	7.59	7.52	7.39	6.97	7.79	7.03			7.59	7.70	7.29
Chen Xianying (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 - 2021 National Grand Prix (Chengdu, CHN)																			
date	02-Apr-21	time	2.74	3.90	5.04	6.20	7.40	8.64	9.86	11.12	12.46	13.88		15.48	6 / 5				
reaction time	0.171	interval		1.16	1.14	1.16	1.20	1.24	1.22	1.26	1.34	1.42	1.60				3.46	3.66	4.02
wind	1.0 m/s	velocity	4.74	7.33	7.46	7.33	7.08	6.85	6.97	6.75	6.34	5.99	6.28	6.46			7.37	6.97	6.34
A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)																			
date	13-Mar-21	time	2.72	3.86	5.02	6.16	7.36							9.00	2 / 5				
reaction time	0.172	interval		1.14	1.16	1.14	1.20						1.64				3.44		
		velocity	4.78	7.46	7.33	7.46	7.08						7.93	6.67			7.41		
Heat 2 - 2021 National Indoor Grand Prix (Chengdu, CHN)																			
date	13-Mar-21	time	2.69	3.82	4.95	6.09	7.24							8.84	2 / 3				
reaction time	0.163	interval		1.13	1.13	1.14	1.15						1.60	PB			3.40		
		velocity	4.83	7.52	7.52	7.46	7.39						8.13	6.79			7.50		
Chen Yanqi (CHN) (2006)																			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
National FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)																			
date	02-Sep-23	time	2.67	3.77	4.83	5.90	6.97	8.04	9.14	10.24	11.37	12.48		13.74	9 / 7				
reaction time	0.154	interval		1.10	1.06	1.07	1.07	1.07	1.10	1.10	1.13	1.11	1.26	PB			3.23	3.24	3.34
wind	0.1 m/s	velocity	4.87	7.73	8.02	7.94	7.94	7.94	7.73	7.73	7.52	7.66	7.98	7.28			7.89	7.87	7.63
FINAL - 2023 Chinese National Grand Prix 4 (Chongqing, CHN)																			
date	03-Jun-23	time	2.69	3.77	4.86	5.91	6.98	8.03	9.16	10.28	11.41	12.58		13.84	8 / 7				
reaction time	0.191	interval		1.08	1.09	1.05	1.07	1.05	1.13	1.12	1.13	1.17	1.26	PB			3.22	3.25	3.42
wind	0.3 m/s	velocity	4.83	7.87	7.80	8.10	7.94	8.10	7.52	7.59	7.52	7.26	7.98	7.23			7.92	7.85	7.46
Chen Yinfeng (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 - 2024 Chinese National Championships (Quzhou, CHN)																			
date	16-Sep-24	time	2.74	3.78	4.83	5.87	6.92	7.92	8.99	10.06	11.15	12.24		13.39	7 / 2				
reaction time	0.177	interval		1.04	1.05	1.04	1.05	1.00	1.07	1.07	1.09	1.09	1.15				3.13	3.12	3.25
wind	0.6 m/s	velocity	4.74	8.17	8.10	8.17	8.10	8.50	7.94	7.94	7.80	7.80	8.74	7.47			8.15	8.17	7.85
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)																			
date	30-Jun-24	time	2.62	3.67	4.73	5.78	6.82	7.89	8.96	10.04	11.13	12.24		13.43	5 / 5				
reaction time	0.153	interval		1.05	1.06	1.05	1.04	1.07	1.07	1.08	1.09	1.11	1.19				3.16	3.18	3.28
wind	0.2 m/s	velocity	4.96	8.10	8.02	8.10	8.17	7.94	7.94	7.87	7.80	7.66	8.45	7.45			8.07	8.02	7.77

Heat 3 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)

Shandong Athletics Sport Science (2024)

date	29-Jun-24	time	2.72	3.82	4.87	5.92	6.99	8.04	9.12	10.19	11.29	12.39		13.56		5 / 1			
reaction time	0.177	interval		1.10	1.05	1.05	1.07	1.05	1.08	1.07	1.10	1.10	1.17				3.20	3.20	3.27
wind	-0.4 m/s	velocity	4.78	7.73	8.10	8.10	7.94	8.10	7.87	7.94	7.73	7.73	8.59	7.37			7.97	7.97	7.80

FINAL - 2023 Chinese Indoor National Championships (Tianjin, CHN)

Shandong Athletics Sport Science (2023)

date	16-Mar-23	time	2.64	3.70	4.75	5.82	6.87							8.26		7 / 5			
reaction time	0.166	interval		1.06	1.05	1.07	1.05											3.18	
		velocity	4.92	8.02	8.10	7.94	8.10							9.35	7.26			8.02	

Heat 2 - 2023 Chinese Indoor National Championships (Tianjin, CHN)

Shandong Athletics Sport Science (2023)

date	16-Mar-23	time	2.71	3.80	4.88	5.94	6.99							8.44		7 / 3			
reaction time	0.181	interval		1.09	1.08	1.06	1.05											3.23	
		velocity	4.80	7.80	7.87	8.02	8.10							8.97	7.11			7.89	

FINAL - 2022 Chinese National Grand Prix (Huangshi, CHN)

Gong (2023) - research on the technical characteristics of outstanding women's 100m hurdlers in china

date	13-Jul-22	time	2.65			5.76			8.86			12.11		13.48		1 / 2			
reaction time		interval				3.11			3.10			3.25	1.37					3.11	3.10
wind	-1.1 m/s	velocity	4.91			8.20			8.23			7.85	7.34	7.42				8.20	8.23

FINAL - 2021 Chinese National Games (Xi'an, CHN)

CAA Hurdle Development (2021)

date	22-Sep-21	time	2.56	3.66	4.73	5.77	6.83	7.93	9.00	10.06	11.16	12.26		13.53		9 / 8			
reaction time	0.161	interval		1.10	1.07	1.04	1.06	1.10	1.07	1.06	1.10	1.10	1.27					3.21	3.23
wind	0.1 m/s	velocity	5.08	7.73	7.94	8.17	8.02	7.73	7.94	8.02	7.73	7.73	7.91	7.39				7.94	7.89

FINAL - 2021 Chinese Student Games (Qingdao, CHN)

CAA Hurdle Development (2021)

date	14-Jul-21	time	2.60	3.63	4.73	5.77	6.81	7.87	8.94	10.03	11.10	12.23		13.46		3 / 4			
reaction time		interval		1.03	1.10	1.04	1.04	1.06	1.07	1.09	1.07	1.13	1.23					3.17	3.17
wind	-0.7 m/s	velocity	5.00	8.25	7.73	8.17	8.17	8.02	7.94	7.80	7.94	7.52	8.17	7.43				8.04	8.04

FINAL - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.63	3.70	4.77	5.81	6.82	7.87	8.91	9.98	11.06	12.14		13.33		3 / 7			
reaction time	0.166	interval		1.07	1.07	1.04	1.01	1.05	1.04	1.07	1.08	1.08	1.19	PB				3.18	3.10
wind	1.7 m/s	velocity	4.94	7.94	7.94	8.17	8.42	8.10	8.17	7.94	7.87	7.87	8.45	7.50				8.02	8.23

Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.68	3.75	4.84	5.89	6.94	7.99	9.04	10.13	11.23	12.33		13.56		5 / 2			
reaction time	0.202	interval		1.07	1.09	1.05	1.05	1.05	1.05	1.09	1.10	1.10	1.23					3.21	3.15
wind	-0.3 m/s	velocity	4.85	7.94	7.80	8.10	8.10	8.10	8.10	7.80	7.73	7.73	8.17	7.37				7.94	8.10

FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)

CAA Hurdle Development (2021)

date	12-Jun-21	time	2.66	3.70	4.76	5.80	6.84	7.88	8.93	10.02	11.08	12.18		13.42		2 / 5			
reaction time	0.156	interval		1.04	1.06	1.04	1.04	1.04	1.05	1.09	1.06	1.10	1.24					3.14	3.13
wind	1.0 m/s	velocity	4.89	8.17	8.02	8.17	8.17	8.17	8.10	7.80	8.02	7.73	8.10	7.45				8.12	8.15

Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)

CAA Hurdle Development (2021)

date	12-Jun-21	time	2.58	3.64	4.72	5.76	6.82	7.87	8.95	10.03	11.14	12.26		13.57		8 / 4			
reaction time	0.148	interval		1.06	1.08	1.04	1.06	1.05	1.08	1.08	1.11	1.12	1.31					3.18	3.19
wind	-0.2 m/s	velocity	5.04	8.02	7.87	8.17	8.02	8.10	7.87	7.87	7.66	7.59	7.67	7.37				8.02	7.99

B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)

CAA Hurdle Development (2021)

date	13-Mar-21	time	2.67	3.78	4.84	5.87	6.92							8.34		6 / 2			
reaction time	0.159	interval		1.11	1.06	1.03	1.05							1.42	=PB			3.20	
		velocity	4.87	7.66	8.02	8.25	8.10							9.15	7.19			7.97	

Heat 1 - 2021 National Indoor Grand Prix (Chengdu, CHN)

CAA Hurdle Development (2021)

date	13-Mar-21	time	2.73	3.85	4.92	6.00	7.05							8.47		6 / 2			
reaction time	0.186	interval		1.12	1.07	1.08	1.05							1.42				3.27	
		velocity	4.76	7.59	7.94	7.87	8.10							9.15	7.08			7.80	

FINAL - 2019 Chinese National Grand Prix 3 (Jinhai, CHN)

CAA Hurdle Development (2019)

date	23-May-19	time	2.80	3.94	5.04	6.12	7.22	8.32	9.42	10.56	11.70	12.88		14.21		2 / 8			
reaction time	0.264	interval		1.14	1.10	1.08	1.10	1.10	1.10	1.14	1.14	1.18	1.33					3.32	3.30
wind	0.4 m/s	velocity	4.64	7.46	7.73	7.87	7.73	7.73	7.73	7.46	7.46	7.20	7.89	7.04				7.68	7.73

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)

Henson (2018) - coaching observations

date	16-Sep-18	time	2.67	3.75	4.83	5.91	6.97	8.04	9.13	10.25	11.35	12.46		13.69		1 / 8			
reaction time		interval		1.08	1.08	1.08	1.06	1.07	1.09	1.12	1.10	1.11	1.23					3.24	3.22
wind	-0.2 m/s	velocity	4.87	7.87	7.87	7.87	8.02	7.94	7.80	7.59	7.73	7.66	8.54	7.30				7.87	7.92

Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)

Henson (2018) - coaching observations

date	15-Sep-18	time	2.68	3.81	4.87	5.97	7.03	8.13	9.21	10.31	11.40	12.53		13.73		1 / 5			
reaction time		interval		1.13	1.06	1.10	1.06	1.10	1.08	1.10	1.09	1.13	1.20					3.29	3.24

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
wind	0.0 m/s	velocity	4.85	7.52	8.02	7.73	8.02	7.73	7.87	7.73	7.80	7.52	8.75	7.28		7.75	7.87	7.68
Chen Yuyang (CHN) (2002)																		
FINAL - 2023 Chinese National Grand Prix 3 (Taizhou, CHN) <i>Shandong Athletics Sport Science (2023)</i>																		
date	27-May-23	time	2.72	3.82	4.88	5.94	7.01	8.08	9.18	10.31	11.46	12.63		13.94	8 / 6			
reaction time	0.161	interval		1.10	1.06	1.06	1.07	1.07	1.10	1.13	1.15	1.17	1.31			3.22	3.24	3.45
wind	-1.2 m/s	velocity	4.78	7.73	8.02	8.02	7.94	7.94	7.73	7.52	7.39	7.26	7.67	7.17		7.92	7.87	7.39
FINAL - 2022 Chinese National Grand Prix (Huangshi, CHN) <i>Gong (2023) - research on the technical characteristics of outstanding women's 100m hurdlers in china</i>																		
date	13-Jul-22	time	2.68			5.84			9.05			12.42		13.89	/ 4			
reaction time		interval				3.16			3.21			3.37	1.47			3.16	3.21	3.37
wind	-1.1 m/s	velocity	4.85			8.07			7.94			7.57	6.84	7.20		8.07	7.94	7.57
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN) <i>CAA Hurdle Development (2021)</i>																		
date	25-Jun-21	time	2.77	3.90	5.04	6.17	7.27	8.38	9.52	10.68	11.84	13.00		14.32	6 / 5			
reaction time	0.189	interval		1.13	1.14	1.13	1.10	1.11	1.14	1.16	1.16	1.16	1.32			3.40	3.35	3.48
wind	-1.8 m/s	velocity	4.69	7.52	7.46	7.52	7.73	7.66	7.46	7.33	7.33	7.33	7.61	6.98		7.50	7.61	7.33
FINAL - 2021 National Grand Prix (Chengdu, CHN) <i>CAA Hurdle Development (2021)</i>																		
date	02-Apr-21	time	2.84	3.97	5.09	6.20	7.30	8.42	9.54	10.66	11.78	12.94		14.26	1 / 8			
reaction time	0.253	interval		1.13	1.12	1.11	1.10	1.12	1.12	1.12	1.12	1.16	1.32			3.36	3.34	3.40
wind	0.1 m/s	velocity	4.58	7.52	7.59	7.66	7.73	7.59	7.59	7.59	7.59	7.33	7.61	7.01		7.59	7.63	7.50
Heat 3 - 2021 National Grand Prix (Chengdu, CHN) <i>CAA Hurdle Development (2021)</i>																		
date	02-Apr-21	time	2.78	3.88	4.98	6.06	7.12	8.22	9.28	10.38	11.50	12.66		13.91	3 / 3			
reaction time	0.200	interval		1.10	1.10	1.08	1.06	1.10	1.06	1.10	1.12	1.16	1.25	PB		3.28	3.22	3.38
wind	1.0 m/s	velocity	4.68	7.73	7.73	7.87	8.02	7.73	8.02	7.73	7.59	7.33	8.04	7.19		7.77	7.92	7.54
A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN) <i>CAA Hurdle Development (2021)</i>																		
date	13-Mar-21	time	2.77	3.87	4.96	6.08	7.16							8.65	4 / 3			
reaction time	0.201	interval		1.10	1.09	1.12	1.08						1.49	PB		3.31		
		velocity	4.69	7.73	7.80	7.59	7.87						8.72	6.94		7.70		
Heat 1 - 2021 National Indoor Grand Prix (Chengdu, CHN) <i>CAA Hurdle Development (2021)</i>																		
date	13-Mar-21	time	2.79	3.90	5.00	6.09	7.19							8.66	1 / 4			
reaction time	0.230	interval		1.11	1.10	1.09	1.10						1.47	PB		3.30		
		velocity	4.66	7.66	7.73	7.80	7.73						8.84	6.93		7.73		
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN) <i>CAA Hurdle Development (2020)</i>																		
date	15-Sep-20	time	2.84	3.98	5.12	6.24	7.36	8.50	9.65	10.79	11.93	13.09		14.36	7 / 8			
reaction time	0.205	interval		1.14	1.14	1.12	1.12	1.14	1.15	1.14	1.14	1.16	1.27			3.40	3.41	3.44
wind	-0.6 m/s	velocity	4.58	7.46	7.46	7.59	7.59	7.46	7.39	7.46	7.46	7.33	7.91	6.96		7.50	7.48	7.41
Chen Zhifei (CHN) (2001)																		
U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN) <i>CAA Hurdle Development (2019)</i>																		
date	14-Aug-19	time	2.75	3.89	4.99	6.10	7.22	8.32	9.46	10.61	11.78	13.01		14.33	5 / 3			
reaction time	0.163	interval		1.14	1.10	1.11	1.12	1.10	1.14	1.15	1.17	1.23	1.32	PB		3.35	3.36	3.55
wind	0.5 m/s	velocity	4.73	7.46	7.73	7.66	7.59	7.73	7.46	7.39	7.26	6.91	7.95	6.98		7.61	7.59	7.18
Heat 1 - 2019 Chinese National Championships (Shenyang, CHN) <i>CAA Hurdle Development (2019)</i>																		
date	08-Jul-19	time	2.88	4.08	5.24	6.42	7.57	8.75	9.90	11.09	12.34	13.56		14.92	5 / 6			
reaction time	0.163	interval		1.20	1.16	1.18	1.15	1.18	1.15	1.19	1.25	1.22	1.36			3.54	3.48	3.66
wind	0.5 m/s	velocity	4.51	7.08	7.33	7.20	7.39	7.20	7.39	7.14	6.80	6.97	7.72	6.70		7.20	7.33	6.97
Chernova, Tatyana (RUS) (1988)																		
Heptathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	15-Aug-09	time	2.73	3.81	4.87	5.90	6.95	8.02	9.09	10.17	11.26	12.38		13.58	7 / 2			
reaction time	0.180	interval		1.08	1.06	1.03	1.05	1.07	1.07	1.08	1.09	1.12	1.20			3.17	3.19	3.29
wind	-0.2 m/s	velocity	4.76	7.87	8.02	8.25	8.10	7.94	7.94	7.87	7.80	7.59	8.75	7.36		8.04	7.99	7.75
Cherry, Damu (USA) (1977)																		
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	19-Aug-09	time	2.66	3.68	4.70	5.68	6.67	7.67	8.66	9.66	10.66	11.69		12.76	3 / 3			
reaction time	0.165	interval		1.02	1.02	0.98	0.99	1.00	0.99	1.00	1.00	1.03	1.07			3.02	2.98	3.03
wind	0.1 m/s	velocity	4.89	8.33	8.33	8.67	8.59	8.50	8.59	8.50	8.50	8.25	9.81	7.84		8.44	8.56	8.42
Heat 2 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	18-Aug-09	time	2.69	3.72	4.71	5.70	6.67	7.65	8.64	9.65	10.66	11.67		12.71	4 / 1			
reaction time	0.185	interval		1.03	0.99	0.99	0.97	0.98	0.99	1.01	1.01	1.01	1.04			3.01	2.94	3.03
wind	-0.3 m/s	velocity	4.83	8.25	8.59	8.59	8.76	8.67	8.59	8.42	8.42	8.42	10.10	7.87		8.47	8.67	8.42
FINAL - 2009 ISTAF (Berlin, GER) <i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	14-Jun-09	time	2.65	3.71	4.71	5.70	6.67	7.65	8.65	9.65	10.67	11.69		12.76	/ 1			

reaction time	0.201	interval	1.06	1.00	0.99	0.97	0.98	1.00	1.00	1.02	1.02	1.07			3.05	2.95	3.04
wind	-0.1 m/s	velocity	4.91	8.02	8.50	8.59	8.76	8.67	8.50	8.50	8.33	8.33	9.81	7.84	8.36	8.64	8.39

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	2.48	3.55	4.59	5.61	6.62	7.63	8.64	9.68	10.71	11.78	13.07	/ 1			
reaction time		interval	1.07	1.04	1.02	1.01	1.01	1.01	1.04	1.03	1.07	1.29			3.13	3.03	3.14
wind	0.1 m/s	velocity	5.24	7.94	8.17	8.33	8.42	8.42	8.42	8.17	8.25	7.94	8.14	7.65	8.15	8.42	8.12

FINAL - 2008 Olympic Games (Beijing, CHN)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	19-Aug-08	time	2.63	3.66	4.67	5.64	6.61	7.59	8.56	9.55	10.55	11.58	12.65	7 / 4			
reaction time	0.239	interval	1.03	1.01	0.97	0.97	0.98	0.97	0.99	1.00	1.03	1.07			3.01	2.92	3.02
wind	0.1 m/s	velocity	4.94	8.25	8.42	8.76	8.76	8.67	8.76	8.59	8.50	8.25	9.81	7.91	8.47	8.73	8.44

Semi-Final 2 - 2008 Olympic Games (Beijing, CHN)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	18-Aug-08	time	2.59	3.62	4.59	5.55	6.52	7.52	8.52	9.52	10.52	11.54	12.62	8 / 1			
reaction time	0.189	interval	1.03	0.97	0.96	0.97	1.00	1.00	1.00	1.00	1.02	1.08			2.96	2.97	3.02
wind	0.2 m/s	velocity	5.02	8.25	8.76	8.85	8.76	8.50	8.50	8.50	8.50	8.33	9.72	7.92	8.61	8.59	8.44

FINAL - 2008 USA Olympic Trials (Eugene, OR)*USATF Hurdle Development (2008)*

date	06-Jul-08	time	2.56	3.58	4.55	5.52	6.48	7.45	8.44	9.44	10.44	11.51	12.58	6 / 2			
reaction time		interval	1.02	0.97	0.97	0.96	0.97	0.99	1.00	1.00	1.07	1.07			2.96	2.92	3.07
wind	3.8 m/s	velocity	5.08	8.33	8.76	8.76	8.85	8.76	8.59	8.50	8.50	7.94	9.81	7.95	8.61	8.73	8.31

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

date	23-Jun-07	time	2.60	3.60	4.62	5.62	6.62	7.61	8.61	9.63	10.64	11.70	12.89	/ 5			
reaction time		interval	1.00	1.02	1.00	1.00	0.99	1.00	1.02	1.01	1.06	1.19			3.02	2.99	3.09
wind	-1.3 m/s	velocity	5.00	8.50	8.33	8.50	8.50	8.59	8.50	8.33	8.42	8.02	8.82	7.76	8.44	8.53	8.25

FINAL - 2006 USATF National Championships (Indianapolis, IN)*USATF Women's Hurdle Development (2006)*

date	24-Jun-06	time	2.60	3.64	4.62	5.61	6.57	7.52	8.56	9.54	10.58	11.56	12.64	3 / 2			
reaction time		interval	1.04	0.98	0.99	0.96	0.95	1.04	0.98	1.04	0.98	1.08			3.01	2.95	3.00
wind	-0.4 m/s	velocity	5.00	8.17	8.67	8.59	8.85	8.95	8.17	8.67	8.17	8.67	9.72	7.91	8.47	8.64	8.50

FINAL - 2003 USATF National Championships (Palo Alto, CA)*USATF Women's Sprint Development (2003)*

date	22-Jun-03	time	2.52	3.57	4.57	5.57	6.56	7.54	8.53	9.53	10.53	11.55	12.74	4 / 5			
reaction time		interval	1.05	1.00	1.00	0.99	0.98	0.99	1.00	1.00	1.02	1.19	DV		3.05	2.96	3.02
wind	-0.1 m/s	velocity	5.16	8.10	8.50	8.50	8.59	8.67	8.59	8.50	8.50	8.33	8.82	7.85	8.36	8.61	8.44

Chiba, Momoka (JPN) (1999)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****U18 FINAL** - 2018 National Sports Festival (Fukui, JPN) (76cm)*Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	07-Oct-18	time	2.78	3.88	4.97	6.02	7.10	8.20	9.28	10.36	11.47	12.59	13.84	8 / 6			
reaction time	0.167	interval	1.10	1.09	1.05	1.08	1.10	1.08	1.08	1.11	1.12	1.25	PB		3.24	3.26	3.31
wind	2.0 m/s	velocity	4.68	7.73	7.80	8.10	7.87	7.73	7.87	7.87	7.66	7.59	8.40	7.23	7.87	7.82	7.70

Heat 2 - 2016 Japanese National Junior Championships (Mizuho, JPN)*(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.76	3.87	4.98	6.08	7.19	8.29	9.41	10.54	11.68	12.85	14.05	6 / 3			
reaction time		interval	1.11	1.11	1.10	1.11	1.10	1.12	1.13	1.14	1.17	1.20			3.32	3.33	3.44
wind	1.3 m/s	velocity	4.71	7.66	7.66	7.73	7.66	7.73	7.59	7.52	7.46	7.26	8.75	7.12	7.68	7.66	7.41

Chmelarová, Klára (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** - 2012 Czech Republic National Indoor Championships (Praha, CZE)*Fehér (2012) - Czech Republic indoor national championships - women's 60m hurdles*

date	25-Feb-12	time	2.82	3.98	5.13	6.40	7.64						9.26	6 / 4			
reaction time	0.158	interval	1.16	1.15	1.27	1.24						1.62			3.58		
		velocity	4.61	7.33	7.39	6.69	6.85					8.02	6.48		7.12		

Christofi, Natalia (CYP) (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 FBK Games (Hengelo, NED)*Omega Timing (2024) - continental tour gold race analysis*

date	07-Jul-24	time	2.47	3.55	4.57	5.58	6.62	7.65	8.70	9.75	10.81	11.88	13.18	2 / 6			
reaction time	0.119	interval	1.08	1.02	1.01	1.04	1.03	1.05	1.05	1.06	1.07	1.30			3.11	3.12	3.18
wind	0.3 m/s	velocity	5.26	7.87	8.33	8.42	8.17	8.25	8.10	8.10	8.02	7.94	7.73	7.59	8.20	8.17	8.02

Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	23-Aug-23	time	2.60	3.64	4.64	5.64	6.64	7.67	8.68	9.72	10.76	11.82	13.15	9 / 8			
reaction time	0.155	interval	1.04	1.00	1.00	1.00	1.03	1.01	1.04	1.04	1.04	1.06	1.33		3.04	3.04	3.14
wind	0.5 m/s	velocity	5.00	8.17	8.50	8.50	8.50	8.25	8.42	8.17	8.17	8.02	7.56	7.60	8.39	8.39	8.12

Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	22-Aug-23	time	2.58	3.63	4.65	5.64	6.63	7.60	8.60	9.65	10.68	11.73	12.90	7 / 4			
reaction time	0.147	interval	1.05	1.02	0.99	0.99	0.97	1.00	1.05	1.03	1.05	1.17			3.06	2.96	3.13
wind	0.4 m/s	velocity	5.04	8.10	8.33	8.59	8.59	8.76	8.50	8.10	8.25	8.10	8.59	7.75	8.33	8.61	8.15

Chudzik, Kamila (POL) (1986)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 1** - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	2.74	3.84	4.91	5.98	7.02	8.06	9.13	10.19	11.26	12.33	13.50	7 / 3				
reaction time	0.178	interval		1.10	1.07	1.07	1.04	1.04	1.07	1.06	1.07	1.07	1.17		3.24	3.15	3.20	
wind	-0.4 m/s	velocity	4.74	7.73	7.94	7.94	8.17	8.17	7.94	8.02	7.94	7.94	8.97	7.41	7.87	8.10	7.97	
Claxton, Sarah (GBR) (1979)			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	18-Aug-09	time	2.61	3.62	4.63	5.60	6.59	7.59	8.60	9.62	10.66	11.71	12.86	6 / 4				
reaction time	0.145	interval		1.01	1.01	0.97	0.99	1.00	1.01	1.02	1.04	1.05	1.15		2.99	3.00	3.11	
wind	0.1 m/s	velocity	4.98	8.42	8.42	8.76	8.59	8.50	8.42	8.33	8.17	8.10	9.13	7.78	8.53	8.50	8.20	
FINAL - 2008 Olympic Games (Beijing, CHN)			<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>															
date	19-Aug-08	time	2.59	3.62	4.63	5.63	6.63	7.62	8.62	9.66	10.69	11.77	12.94	2 / 8				
reaction time	0.163	interval		1.03	1.01	1.00	1.00	0.99	1.00	1.04	1.03	1.08	1.17		3.04	2.99	3.15	
wind	0.1 m/s	velocity	5.02	8.25	8.42	8.50	8.50	8.59	8.50	8.17	8.25	7.87	8.97	7.73	8.39	8.53	8.10	
Semi-Final 2 - 2008 Olympic Games (Beijing, CHN)			<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>															
date	18-Aug-08	time	2.57	3.60	4.59	5.58	6.53	7.53	8.53	9.55	10.61	11.66	12.84	3 / 4				
reaction time	0.145	interval		1.03	0.99	0.99	0.95	1.00	1.00	1.02	1.06	1.05	1.18		3.01	2.95	3.13	
wind	0.2 m/s	velocity	5.06	8.25	8.59	8.59	8.95	8.50	8.50	8.33	8.02	8.10	8.90	7.79	8.47	8.64	8.15	
Clay, Liz (AUS) (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)			<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	08-Aug-24	time	2.44	3.51	4.52	5.54	6.55	7.57	8.59	9.61	10.65	11.70	12.99	5 / 5				
reaction time	0.145	interval		1.07	1.01	1.02	1.01	1.02	1.02	1.02	1.04	1.05	1.29		3.10	3.05	3.11	
wind	-0.2 m/s	velocity	5.33	7.94	8.42	8.33	8.42	8.33	8.33	8.33	8.17	8.10	7.79	7.70	8.23	8.36	8.20	
Heat 5 - 2024 Olympic Games (Paris, FRA)			<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	07-Aug-24	time	2.45	3.50	4.52	5.51	6.50	7.51	8.52	9.54	10.58	11.63	12.94	5 / 4				
reaction time	0.143	interval		1.05	1.02	0.99	0.99	1.01	1.01	1.02	1.04	1.05	1.31		3.06	3.01	3.11	
wind	-0.6 m/s	velocity	5.31	8.10	8.33	8.59	8.59	8.42	8.42	8.33	8.17	8.10	7.67	7.73	8.33	8.47	8.20	
FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis)			<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>															
date	07-Jul-24	time	2.55	3.55	4.57	5.58	6.58	7.57	8.61	9.62	10.63	11.68	12.84	8 / 7				
reaction time	0.130	interval		1.00	1.02	1.01	1.00	0.99	1.04	1.01	1.01	1.05	1.16		3.03	3.03	3.07	
wind	1.6 m/s	velocity	5.10	8.50	8.33	8.42	8.50	8.59	8.17	8.42	8.42	8.10	8.66	7.79	8.42	8.42	8.31	
Heat 1 - 2024 FBK Games (Hengelo, NED)			<i>Omega Timing (2024) - continental tour gold race analysis</i>															
date	07-Jul-24	time	2.46	3.49	4.50	5.50	6.50	7.53	8.59	9.64	10.68	11.74	13.01	7 / 3				
reaction time	0.147	interval		1.03	1.01	1.00	1.00	1.03	1.06	1.05	1.04	1.06	1.27		3.04	3.09	3.15	
wind	0.3 m/s	velocity	5.28	8.25	8.42	8.50	8.50	8.25	8.02	8.10	8.17	8.02	7.91	7.69	8.39	8.25	8.10	
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	2.50	3.53	4.53	5.51	6.52	7.52	8.53	9.56	10.59	11.62	12.89	6 / 5				
reaction time	0.149	interval		1.03	1.00	0.98	1.01	1.00	1.01	1.03	1.03	1.03	1.27		3.01	3.02	3.09	
wind	-0.4 m/s	velocity	5.20	8.25	8.50	8.67	8.42	8.50	8.42	8.25	8.25	8.25	7.91	7.76	8.47	8.44	8.25	
FINAL - 2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>															
date	14-Jun-22	time	2.56	3.58	4.58	5.58	6.56	7.54	8.56	9.58	10.62	11.66	12.85	3 / 4				
reaction time	0.122	interval		1.02	1.00	1.00	0.98	0.98	1.02	1.02	1.04	1.04	1.19		3.02	2.98	3.10	
wind	0.2 m/s	velocity	5.08	8.33	8.50	8.50	8.67	8.67	8.33	8.33	8.17	8.17	8.45	7.78	8.44	8.56	8.23	
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>															
date	01-Aug-21	time	2.52	3.52	4.55	5.53	6.52	7.51	8.49	9.49	10.49	11.52	12.71	6 / 3				
reaction time	0.142	interval		1.00	1.03	0.98	0.99	0.99	0.98	1.00	1.00	1.03	1.19	PB	3.01	2.96	3.03	
wind	0.0 m/s	velocity	5.16	8.50	8.25	8.67	8.59	8.59	8.67	8.50	8.50	8.25	8.45	7.87	8.47	8.61	8.42	
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>															
date	31-Jul-21	time	2.51	3.55	4.59	5.62	6.63	7.61	8.61	9.63	10.70	11.74	12.87	3 / 2				
reaction time	0.127	interval		1.04	1.04	1.03	1.01	0.98	1.00	1.02	1.07	1.04	1.13		3.11	2.99	3.13	
wind	0.4 m/s	velocity	5.18	8.17	8.17	8.25	8.42	8.67	8.50	8.33	7.94	8.17	8.89	7.77	8.20	8.53	8.15	
Clay, Raven (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 Bissett Games (Oslo, NOR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	15-Jun-17	time	2.54	3.58	4.62	5.62	6.62	7.64	8.66	9.68	10.72	11.82	13.07	1 / 8				
reaction time	0.144	interval		1.04	1.04	1.00	1.00	1.02	1.02	1.02	1.04	1.10	1.25		3.08	3.04	3.16	
wind	0.8 m/s	velocity	5.12	8.17	8.17	8.50	8.50	8.33	8.33	8.33	8.17	7.73	8.40	7.65	8.28	8.39	8.07	
Clay, Queen (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)			<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	20-Jun-21	time	2.50	3.53	4.53	5.50	6.47	7.47	8.45	9.45	10.47	11.56	12.78	2 / 7				
reaction time	0.174	interval		1.03	1.00	0.97	0.97	1.00	0.98	1.00	1.02	1.09	1.22		3.00	2.95	3.11	
wind	1.3 m/s	velocity	5.20	8.25	8.50	8.76	8.76	8.50	8.67	8.50	8.33	7.80	8.24	7.82	8.50	8.64	8.20	

FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)

date	10-Sep-19	time	2.53	3.56	4.60	5.60	6.60	7.60	8.60	9.60	10.63	11.73		12.95	5 / 4			
reaction time	0.155	interval		1.03	1.04	1.00	1.00	1.00	1.00	1.00	1.03	1.10	1.22			3.07	3.00	3.13
wind	0.1 m/s	velocity	5.14	8.25	8.17	8.50	8.50	8.50	8.50	8.50	8.25	7.73	8.61	7.72		8.31	8.50	8.15

Henson (2020) - Athlete First: 2019 year end hurdle report

FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)

date	27-Jul-19	time	2.51	3.54	4.50	5.50	6.47	7.44	8.40	9.40	10.41	11.44		12.68	2 / 5			
reaction time		interval		1.03	0.96	1.00	0.97	0.97	0.96	1.00	1.01	1.03	1.24			2.99	2.90	3.04
wind	-1.2 m/s	velocity	5.18	8.25	8.85	8.50	8.76	8.76	8.85	8.50	8.42	8.25	8.47	7.89		8.53	8.79	8.39

Henson (2020) - Athlete First: 2019 year end hurdle report

FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)

date	20-Jul-19	time	2.48	3.52	4.48	5.46	6.44	7.42	8.40	9.40	10.42	11.44		12.64	6 / 3			
reaction time	0.131	interval		1.04	0.96	0.98	0.98	0.98	0.98	1.00	1.02	1.02	1.20			2.98	2.94	3.04
wind	0.8 m/s	velocity	5.24	8.17	8.85	8.67	8.67	8.67	8.67	8.50	8.33	8.33	8.75	7.91		8.56	8.67	8.39

Henson (2020) - Athlete First: 2019 year end hurdle report

Heat 1 - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)

date	20-Jul-19	time	2.52	3.52	4.52	5.50	6.50	7.50	8.50	9.52	10.52	11.56		12.80	4 / 2			
reaction time	0.149	interval		1.00	1.00	0.98	1.00	1.00	1.00	1.02	1.00	1.04	1.24			2.98	3.00	3.06
wind	-1.1 m/s	velocity	5.16	8.50	8.50	8.67	8.50	8.50	8.50	8.33	8.50	8.17	8.47	7.81		8.56	8.50	8.33

Henson (2020) - Athlete First: 2019 year end hurdle report

Harrison, Queen (USA) (1988)

FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)

date	21-May-19	time	2.59	3.62	4.64	5.64	6.61	7.61	8.60	9.61	10.62	11.67		12.80	3 / 4			
reaction time	0.162	interval		1.03	1.02	1.00	0.97	1.00	0.99	1.01	1.01	1.05	1.13			3.05	2.96	3.07
wind	-1.0 m/s	velocity	5.02	8.25	8.33	8.50	8.76	8.50	8.59	8.42	8.42	8.10	9.29	7.81		8.36	8.61	8.31

CAA Hurdle Development (2019)

FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)

date	19-May-19	time	2.64	3.67	4.71	5.72	6.72	7.72	8.73	9.73	10.74	11.79		12.92	7 / 4			
reaction time	0.155	interval		1.03	1.04	1.01	1.00	1.00	1.01	1.00	1.01	1.05	1.13			3.08	3.01	3.06
wind	0.4 m/s	velocity	4.92	8.25	8.17	8.42	8.50	8.50	8.42	8.50	8.42	8.10	9.29	7.74		8.28	8.47	8.33

Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps

FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)

date	22-Jul-18	time	2.52	3.54	4.56	5.50	6.48	7.48	8.46	9.44	10.42	11.44		12.63	3 / 6			
reaction time	0.167	interval		1.02	1.02	0.94	0.98	1.00	0.98	0.98	0.98	1.02	1.19			2.98	2.96	2.98
wind	0.6 m/s	velocity	5.16	8.33	8.33	9.04	8.67	8.50	8.67	8.67	8.67	8.33	8.82	7.92		8.56	8.61	8.56

Henson (2020) - Athlete First: 2018 year end hurdle report

FINAL - 2018 Spitzen Leichtathletik (Luzern, SUI) (TV Analysis)

date	09-Jul-18	time	2.56	3.60	4.62	5.60	6.56	7.54	8.52	9.52	10.54	11.58		12.75	5 / 4			
reaction time		interval		1.04	1.02	0.98	0.96	0.98	0.98	1.00	1.02	1.04	1.17			3.04	2.92	3.06
wind	0.9 m/s	velocity	5.08	8.17	8.33	8.67	8.85	8.67	8.67	8.50	8.33	8.17	8.97	7.84		8.39	8.73	8.33

Henson (2020) - Athlete First: 2018 year end hurdle report

FINAL - 2018 USATF National Championships (Des Moines, IA) (TV Analysis)

date	23-Jun-18	time	2.50	3.57	4.57	5.57	6.54	7.52	8.48	9.48	10.48	11.48		12.76	6 / 4			
reaction time		interval		1.07	1.00	1.00	0.97	0.98	0.96	1.00	1.00	1.00	1.28			3.07	2.91	3.00
wind	-1.4 m/s	velocity	5.20	7.94	8.50	8.50	8.76	8.67	8.85	8.50	8.50	8.50	8.20	7.84		8.31	8.76	8.50

Henson (2020) - Athlete First: 2018 year end hurdle report

FINAL - 2018 Bislett Games (Oslo, NOR) (TV Analysis)

date	07-Jun-18	time	2.52	3.56	4.58	5.56	6.52	7.50	8.50	9.50	10.48	11.50		12.71	7 / 3			
reaction time	0.155	interval		1.04	1.02	0.98	0.96	0.98	1.00	1.00	0.98	1.02	1.21			3.04	2.94	3.00
wind	1.1 m/s	velocity	5.16	8.17	8.33	8.67	8.85	8.67	8.50	8.50	8.67	8.33	8.68	7.87		8.39	8.67	8.50

Henson (2020) - Athlete First: 2018 year end hurdle report

FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)

date	20-May-18	time	2.72	3.78	4.79	5.80	6.79	7.78	8.78	9.80	10.81	11.85		13.01	4 / 1			
reaction time	0.213	interval		1.06	1.01	1.01	0.99	0.99	1.00	1.02	1.01	1.04	1.16			3.08	2.98	3.07
wind	-0.6 m/s	velocity	4.78	8.02	8.42	8.42	8.59	8.59	8.50	8.33	8.42	8.17	9.05	7.69		8.28	8.56	8.31

Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad

FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)

date	09-Jul-17	time	2.46	3.46	4.42	5.40	6.38	7.34	8.30	9.30	10.34	11.38		12.65	7 / 4			
reaction time	0.146	interval		1.00	0.96	0.98	0.98	0.96	0.96	1.00	1.04	1.04	1.27			2.94	2.90	3.08
wind	0.2 m/s	velocity	5.28	8.50	8.85	8.67	8.67	8.85	8.85	8.50	8.17	8.17	8.27	7.91		8.67	8.79	8.28

Henson (2020) - Athlete First: 2017 year end hurdle report

FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)

date	27-May-17	time	2.56	3.60	4.60	5.58	6.56	7.52	8.48	9.46	10.44	11.44		12.64	8 / 2			
reaction time	0.172	interval		1.04	1.00	0.98	0.98	0.96	0.96	0.98	0.98	1.00	1.20			3.02	2.90	2.96
wind	0.8 m/s	velocity	5.08	8.17	8.50	8.67	8.67	8.85	8.85	8.67	8.67	8.50	8.75	7.91		8.44	8.79	8.61

Henson (2020) - Athlete First: 2017 year end hurdle report

FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)

date	21-May-17	time	2.63	3.65	4.65	5.62	6.58	7.55	8.53	9.52	10.50	11.52		12.65	4 / 1			
reaction time	0.172	interval		1.02	1.00	0.97	0.96	0.97	0.98	0.99	0.98	1.02	1.13			2.99	2.91	2.99
wind	0.0 m/s	velocity	4.94	8.33	8.50	8.76	8.85	8.76	8.67	8.59	8.67	8.33	9.29	7.91		8.53	8.76	8.53

(2017) - tfdata-store.com/2017/05/22/post-599/

FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)

date	29-Apr-17	time	2.56	3.63	4.63	5.63	6.60	7.60	8.60	9.60	10.66	11.63		12.86	7 / 4			
reaction time		interval		1.07	1.00	1.00	0.97	1.00	1.00	1.00	1.06	0.97	1.23			3.07	2.97	3.03

Henson (2020) - Athlete First: 2017 year end hurdle report

wind	1.0 m/s	velocity	5.08	7.94	8.50	8.50	8.76	8.50	8.50	8.50	8.02	8.76	8.54	7.78	8.31	8.59	8.42
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>		
date	08-Jul-16	time	2.50	3.53	4.50	5.47	6.44	7.41	8.37	9.34	10.35	11.35	12.57	5 / 4			
reaction time	0.154	interval	1.03	0.97	0.97	0.97	0.97	0.96	0.96	0.97	1.01	1.00	1.22		2.97	2.90	2.98
wind	1.2 m/s	velocity	5.20	8.25	8.76	8.76	8.76	8.76	8.85	8.76	8.42	8.50	8.61	7.96	8.59	8.79	8.56
FINAL - 2016 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)															<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>		
date	16-Jun-16	time	2.54	3.64	4.64	5.64	6.60	7.60	8.58	9.58	10.58	11.62	12.87	6 / 3			
reaction time	0.175	interval	1.10	1.00	1.00	0.96	1.00	0.98	1.00	1.00	1.04	1.25		3.10	2.94	3.04	
wind	-0.4 m/s	velocity	5.12	7.73	8.50	8.50	8.85	8.50	8.67	8.50	8.50	8.17	8.40	7.77	8.23	8.67	8.39
FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)															<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>		
date	10-May-15	time	2.62	3.63	4.63	5.61	6.56	7.52	8.55	9.55	10.58	11.62	12.75	5 / 2			
reaction time	0.189	interval	1.01	1.00	0.98	0.95	0.96	1.03	1.00	1.03	1.04	1.13		2.99	2.94	3.07	
wind	0.9 m/s	velocity	4.96	8.42	8.50	8.67	8.95	8.85	8.25	8.50	8.25	8.17	9.29	7.84	8.53	8.67	8.31
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)															<i>Henson (2021) - Athlete First: major championships report</i>		
date	17-Aug-13	time	2.52	3.54	4.54	5.52	6.50	7.50	8.50	9.50	10.50	11.52	12.73	2 / 5			
reaction time	0.174	interval	1.02	1.00	0.98	0.98	1.00	1.00	1.00	1.00	1.02	1.21		3.00	2.98	3.02	
wind	-0.6 m/s	velocity	5.16	8.33	8.50	8.67	8.67	8.50	8.50	8.50	8.50	8.33	8.68	7.86	8.50	8.56	8.44
FINAL - 2011 Windsprint (Sundsvall, SWE)															<i>Blomkvist (2011) - www.sub13.se</i>		
date	31-Jul-11	time	2.67	3.72	4.76	5.77	6.76	7.77	8.75	9.76	10.76	11.78	12.93	/ 1			
reaction time		interval	1.05	1.04	1.01	0.99	1.01	0.98	1.01	1.00	1.02	1.15		3.10	2.98	3.03	
wind	1.4 m/s	velocity	4.87	8.10	8.17	8.42	8.59	8.42	8.67	8.42	8.50	8.33	9.13	7.73	8.23	8.56	8.42
Clemons, Christina (USA) (1990)																	
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>		
date	30-Jun-24	time	2.55	3.57	4.55	5.51	6.52	7.50	8.48	9.47	10.47	11.47	12.61	7 / 7			
reaction time		interval	1.02	0.98	0.96	1.01	0.98	0.98	0.99	1.00	1.00	1.14		2.96	2.97	2.99	
wind	0.7 m/s	velocity	5.10	8.33	8.67	8.85	8.42	8.67	8.67	8.59	8.50	8.50	8.82	7.93	8.61	8.59	8.53
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>		
date	29-Jun-24	time	2.54	3.57	4.55	5.52	6.48	7.45	8.41	9.38	10.38	11.39	12.52	6 / 1			
reaction time		interval	1.03	0.98	0.97	0.96	0.97	0.96	0.97	1.00	1.01	1.13		2.98	2.89	2.98	
wind	0.8 m/s	velocity	5.12	8.25	8.67	8.76	8.85	8.76	8.85	8.76	8.50	8.42	8.89	7.99	8.56	8.82	8.56
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>		
date	28-Jun-24	time	2.55	3.57	4.56	5.51	6.48	7.45	8.43	9.40	10.38	11.41	12.56	4 / 1			
reaction time		interval	1.02	0.99	0.95	0.97	0.97	0.98	0.97	0.98	1.03	1.15		2.96	2.92	2.98	
wind	0.1 m/s	velocity	5.10	8.33	8.59	8.95	8.76	8.76	8.67	8.76	8.67	8.25	8.74	7.96	8.61	8.73	8.56
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)															<i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>		
date	16-Feb-24	time	2.55	3.59	4.57	5.55	6.52						7.90	7 / 4			
reaction time	0.145	interval	1.04	0.98	0.98	0.97						1.38		3.00			
		velocity	5.10	8.17	8.67	8.67	8.76					9.42	7.59		8.50		
Heat 2 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)															<i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>		
date	16-Feb-24	time	2.57	3.62	4.60	5.58	6.55						7.90	6 / 3			
reaction time	0.145	interval	1.05	0.98	0.98	0.97						1.35		3.01			
		velocity	5.06	8.10	8.67	8.67	8.76					9.63	7.59		8.47		
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)															<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>		
date	04-Feb-24	time	2.53	3.55	4.55	5.54	6.52						7.94	8 / 5			
reaction time	0.182	interval	1.02	1.00	0.99	0.98						1.42		3.01			
		velocity	5.14	8.33	8.50	8.59	8.67					9.15	7.56		8.47		
FINAL - 2024 Corky Classic (Lubbock, TX) (TV Analysis)															<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>		
date	20-Jan-24	time	2.50	3.54	4.58	5.58	6.58						7.89	2 / 4			
reaction time		interval	1.04	1.04	1.00	1.00						1.31		3.08			
		velocity	5.20	8.17	8.17	8.50	8.50					9.92	7.60		8.28		
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	2.47	3.50	4.50	5.50	6.47	7.48	8.50	9.53	10.60	11.67	13.02	3 / 6			
reaction time	0.127	interval	1.03	1.00	1.00	0.97	1.01	1.02	1.03	1.07	1.07	1.35		3.03	3.00	3.17	
wind	2.0 m/s	velocity	5.26	8.25	8.50	8.50	8.76	8.42	8.33	8.25	7.94	7.94	7.44	7.68	8.42	8.50	8.04
FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>		
date	22-Apr-22	time	2.54	3.56	4.56	5.54	6.53	7.51	8.49	9.47	10.47	11.49	12.68	7 / 6			
reaction time		interval	1.02	1.00	0.98	0.99	0.98	0.98	0.98	0.98	1.00	1.02	1.19		3.00	2.95	3.00
wind	0.8 m/s	velocity	5.12	8.33	8.50	8.67	8.59	8.67	8.67	8.67	8.50	8.33	8.45	7.89	8.50	8.64	8.50

Invitational FINAL - 2022 Texas Relays (Austin, TX) (TV Analysis)

date	26-Mar-22	time	2.54	3.54	4.50	5.47	6.42	7.37	8.34	9.31	10.31	11.29	12.45	Henson (2022) - Athlete First: 2022 year end hurdle report			
reaction time		interval		1.00	0.96	0.97	0.95	0.95	0.97	0.97	1.00	0.98	1.16	2.93	2.87	2.95	
wind	3.9 m/s	velocity	5.12	8.50	8.85	8.76	8.95	8.95	8.76	8.76	8.50	8.67	8.66	8.03	8.70	8.89	8.64

FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)

date	28-Aug-21	time	2.48	3.52	4.56	5.58	6.58	7.58	8.58	9.60	10.64	11.68	12.96	Henson (2021) - Athlete First: 2021 year end hurdle report			
reaction time	0.150	interval		1.04	1.04	1.02	1.00	1.00	1.00	1.02	1.04	1.04	1.28	3.10	3.00	3.10	
wind	1.7 m/s	velocity	5.24	8.17	8.17	8.33	8.50	8.50	8.50	8.33	8.17	8.17	7.85	7.72	8.23	8.50	8.23

Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

date	01-Aug-21	time	2.46	3.46	4.46	5.46	6.43	7.42	8.42	9.42	10.46	11.52	12.76	Henson (2024) - Athlete First: 2021 year end hurdle report			
reaction time	0.118	interval		1.00	1.00	1.00	0.97	0.99	1.00	1.00	1.04	1.06	1.24	3.00	2.96	3.10	
wind	-0.8 m/s	velocity	5.28	8.50	8.50	8.50	8.76	8.59	8.50	8.50	8.17	8.02	8.10	7.84	8.50	8.61	8.23

Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

date	31-Jul-21	time	2.54	3.57	4.59	5.57	6.55	7.56	8.56	9.59	10.61	11.69	12.91	Henson (2024) - Athlete First: 2021 year end hurdle report			
reaction time		interval		1.03	1.02	0.98	0.98	1.01	1.00	1.03	1.02	1.08	1.22	3.03	2.99	3.13	
wind	-1.1 m/s	velocity	5.12	8.25	8.33	8.67	8.67	8.42	8.50	8.25	8.33	7.87	8.24	7.75	8.42	8.53	8.15

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

date	20-Jun-21	time	2.44	3.44	4.45	5.42	6.37	7.34	8.30	9.27	10.29	11.31	12.53	Henson (2021) - Athlete First: 2021 year end hurdle report			
reaction time	0.139	interval		1.00	1.01	0.97	0.95	0.97	0.96	0.97	1.02	1.02	1.22	2.98	2.88	3.01	
wind	0.8 m/s	velocity	5.33	8.50	8.42	8.76	8.95	8.76	8.85	8.76	8.33	8.33	8.24	7.98	8.56	8.85	8.47

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

date	20-Jun-21	time	2.41	3.43	4.41	5.37	6.33	7.28	8.24	9.23	10.23	11.26	12.51	Henson (2021) - Athlete First: 2021 year end hurdle report			
reaction time	0.142	interval		1.02	0.98	0.96	0.96	0.95	0.96	0.99	1.00	1.03	1.25	PB	2.96	2.87	3.02
wind	1.2 m/s	velocity	5.39	8.33	8.67	8.85	8.85	8.95	8.85	8.59	8.50	8.25	8.04	7.99	8.61	8.89	8.44

Heat 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)

date	19-Jun-21	time	2.46	3.46	4.46	5.46	6.43	7.40	8.36	9.36	10.36	11.40	12.64	Henson (2021) - Athlete First: 2021 year end hurdle report			
reaction time	0.143	interval		1.00	1.00	1.00	0.97	0.97	0.96	1.00	1.00	1.04	1.24	3.00	2.90	3.04	
wind	0.8 m/s	velocity	5.28	8.50	8.50	8.50	8.76	8.76	8.85	8.50	8.50	8.17	8.10	7.91	8.50	8.79	8.39

FINAL - 2020 New Balance Indoor Grand Prix (Boston, MA)

date	25-Jan-20	time	2.57	3.61	4.60	5.60	6.57						7.98	PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/		
reaction time		interval		1.04	0.99	1.00	0.97						1.41	3.03		
		velocity	5.06	8.17	8.59	8.50	8.76						9.22	7.52	8.42	

Heat 1 - 2020 New Balance Indoor Grand Prix (Boston, MA)

date	25-Jan-20	time	2.59	3.65	4.67	5.68	6.66						8.02	PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/		
reaction time		interval		1.06	1.02	1.01	0.98						1.36	3.09		
		velocity	5.02	8.02	8.33	8.42	8.67						9.56	7.48	8.25	

FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)

date	06-Sep-19	time	2.50	3.50	4.52	5.50	6.50	7.50	8.50	9.50	10.54	11.61	12.84	Henson (2020) - Athlete First: 2019 year end hurdle report			
reaction time	0.136	interval		1.00	1.02	0.98	1.00	1.00	1.00	1.00	1.04	1.07	1.23	3.00	3.00	3.11	
wind	0.0 m/s	velocity	5.20	8.50	8.33	8.67	8.50	8.50	8.50	8.50	8.17	7.94	8.54	7.79	8.50	8.50	8.20

FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)

date	27-Jul-19	time	2.50	3.50	4.47	5.47	6.44	7.40	8.38	9.44	10.51	11.61	13.01	Henson (2020) - Athlete First: 2019 year end hurdle report			
reaction time		interval		1.00	0.97	1.00	0.97	0.96	0.98	1.06	1.07	1.10	1.40	2.97	2.91	3.23	
wind	-1.2 m/s	velocity	5.20	8.50	8.76	8.50	8.76	8.85	8.67	8.02	7.94	7.73	7.50	7.69	8.59	8.76	7.89

FINAL - 2019 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)

date	12-Jul-19	time	2.46	3.50	4.48	5.46	6.44	7.42	8.40	9.38	10.38	11.42	12.62	Henson (2020) - Athlete First: 2019 year end hurdle report			
reaction time	0.148	interval		1.04	0.98	0.98	0.98	0.98	0.98	0.98	1.00	1.04	1.20	3.00	2.94	3.02	
wind	0.1 m/s	velocity	5.28	8.17	8.67	8.67	8.67	8.67	8.67	8.67	8.50	8.17	8.75	7.92	8.50	8.67	8.44

FINAL - 2019 Bislett Games (Oslo, NOR) (TV Analysis)

date	13-Jun-19	time	2.56	3.56	4.56	5.54	6.50	7.48	8.46	9.46	10.50	11.52	12.69	Henson (2020) - Athlete First: 2019 year end hurdle report			
reaction time	0.126	interval		1.00	1.00	0.98	0.96	0.98	0.98	1.00	1.04	1.02	1.17	2.98	2.92	3.06	
wind	1.1 m/s	velocity	5.08	8.50	8.50	8.67	8.85	8.67	8.67	8.50	8.17	8.33	8.97	7.88	8.56	8.73	8.33

FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)

date	21-May-19	time	2.53	3.53	4.56	5.55	6.53	7.55	8.52	9.55	10.56	11.62	12.79	CAA Hurdle Development (2019)			
reaction time	0.131	interval		1.00	1.03	0.99	0.98	1.02	0.97	1.03	1.01	1.06	1.17	3.02	2.97	3.10	
wind	-1.0 m/s	velocity	5.14	8.50	8.25	8.59	8.67	8.33	8.76	8.25	8.42	8.02	8.97	7.82	8.44	8.59	8.23

FINAL - 2019 Doha Diamond League (Doha, QAT) (TV Analysis)

date	03-May-19	time	2.52	3.56	4.54	5.52	6.50	7.48	8.48	9.48	10.50	11.56	12.83	Henson (2020) - Athlete First: 2019 year end hurdle report		
reaction time	0.142	interval		1.04	0.98	0.98	0.98	0.98	1.00	1.00	1.02	1.06	1.27	3.00	2.96	3.08

wind	0.9 m/s	velocity	5.16	8.17	8.67	8.67	8.67	8.67	8.50	8.50	8.33	8.02	8.27	7.79	8.50	8.61	8.28	
<i>Manning, Christina (USA) (1990)</i>																		
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	31-Aug-18	time	2.46	3.50	4.48	5.46	6.46	7.48	8.48	9.56	10.66	11.86		13.34	7 / 9			
reaction time	0.118	interval		1.04	0.98	0.98	1.00	1.02	1.00	1.08	1.10	1.20	1.48			3.00	3.02	3.38
wind	0.1 m/s	velocity	5.28	8.17	8.67	8.67	8.50	8.33	8.50	7.87	7.73	7.08	7.09	7.50		8.50	8.44	7.54
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	2.44	3.44	4.42	5.38	6.36	7.32	8.28	9.32	10.36	11.40		12.57	7 / 5			
reaction time	0.136	interval		1.00	0.98	0.96	0.98	0.96	0.96	1.04	1.04	1.04	1.17			2.94	2.90	3.12
wind	0.6 m/s	velocity	5.33	8.50	8.67	8.85	8.67	8.85	8.85	8.17	8.17	8.17	8.97	7.96		8.67	8.79	8.17
FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	13-Jul-18	time	2.44	3.46	4.46	5.44	6.40	7.38	8.36	9.38	10.40	11.44		12.72	3 / 3			
reaction time	0.151	interval		1.02	1.00	0.98	0.96	0.98	0.98	1.02	1.02	1.04	1.28			3.00	2.92	3.08
wind	0.1 m/s	velocity	5.33	8.33	8.50	8.67	8.85	8.67	8.67	8.33	8.33	8.17	8.20	7.86		8.50	8.73	8.28
FINAL - 2018 Spitzzen Leichtathletik (Luzern, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	09-Jul-18	time	2.48	3.52	4.48	5.48	6.48	7.44	8.44	9.44	10.48	11.50		12.71	6 / 3			
reaction time		interval		1.04	0.96	1.00	1.00	0.96	1.00	1.00	1.04	1.02	1.21			3.00	2.96	3.06
wind	0.9 m/s	velocity	5.24	8.17	8.85	8.50	8.50	8.85	8.50	8.50	8.17	8.33	8.68	7.87		8.50	8.61	8.33
FINAL - 2018 USATF National Championships (Des Moines, IA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	23-Jun-18	time	2.40	3.40	4.40	5.37	6.34	7.31	8.27	9.27	10.27	11.31		12.65	4 / 2			
reaction time		interval		1.00	1.00	0.97	0.97	0.97	0.96	1.00	1.00	1.04	1.34			2.97	2.90	3.04
wind	-1.4 m/s	velocity	5.42	8.50	8.50	8.76	8.76	8.76	8.85	8.50	8.50	8.17	7.84	7.91		8.59	8.79	8.39
FINAL - 2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	10-Jun-18	time	2.48	3.48	4.48	5.46	6.44	7.44	8.42	9.42	10.42	11.48		12.75	3 / 5			
reaction time	0.148	interval		1.00	1.00	0.98	0.98	1.00	0.98	1.00	1.00	1.06	1.27			2.98	2.96	3.06
wind	1.3 m/s	velocity	5.24	8.50	8.50	8.67	8.67	8.50	8.67	8.50	8.50	8.02	8.27	7.84		8.56	8.61	8.33
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)														<i>Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60m Hurdles Women</i>				
date	03-Mar-18	time	2.57	3.61	4.57	5.55	6.51							7.79	6 / 2			
reaction time	0.137	interval		1.04	0.96	0.98	0.96						1.28			2.98		
		velocity	5.06	8.17	8.85	8.67	8.85						10.16	12.84		8.56		
FINAL - 2017 Weltklasse (Zürich, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	24-Aug-17	time	2.50	3.50	4.48	5.46	6.44	7.42	8.40	9.40	10.42	11.48		12.67	7 / 3			
reaction time	0.117	interval		1.00	0.98	0.98	0.98	0.98	0.98	1.00	1.02	1.06	1.19			2.96	2.94	3.08
wind	-0.3 m/s	velocity	5.20	8.50	8.67	8.67	8.67	8.67	8.67	8.50	8.33	8.02	8.82	7.89		8.61	8.67	8.28
FINAL - 2017 IAAF World Championships (London, GBR)														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>				
date	12-Aug-17	time	2.40	3.46	4.47	5.46	6.44	7.40	8.40	9.40	10.43	11.49		12.74	7 / 5			
reaction time	0.183	interval		1.06	1.01	0.99	0.98	0.96	1.00	1.00	1.03	1.06	1.25			3.06	2.94	3.09
wind	0.1 m/s	velocity	5.42	8.02	8.42	8.59	8.67	8.85	8.50	8.50	8.25	8.02	8.40	7.85		8.33	8.67	8.25
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>				
date	11-Aug-17	time	2.38	3.42	4.43	5.42	6.40	7.35	8.33	9.33	10.35	11.41		12.71	5 / 1			
reaction time	0.149	interval		1.04	1.01	0.99	0.98	0.95	0.98	1.00	1.02	1.06	1.30			3.04	2.91	3.08
wind	0.5 m/s	velocity	5.46	8.17	8.42	8.59	8.67	8.95	8.67	8.50	8.33	8.02	8.08	7.87		8.39	8.76	8.28
FINAL - 2017 Athletissima (Lausanne, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	06-Jul-17	time	2.46	3.46	4.44	5.43	6.40	7.35	8.33	9.30	10.32	11.35		12.58	2 / 3			
reaction time	0.132	interval		1.00	0.98	0.99	0.97	0.95	0.98	0.97	1.02	1.03	1.23			2.97	2.90	3.02
wind	-0.1 m/s	velocity	5.28	8.50	8.67	8.59	8.76	8.95	8.67	8.76	8.33	8.25	8.54	7.95		8.59	8.79	8.44
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	3.46	4.48	5.46	6.44	7.40	8.36	9.34	10.34	11.38		12.66	7 / 4			
reaction time	0.157	interval		1.00	1.02	0.98	0.98	0.96	0.96	0.98	1.00	1.04	1.28			3.00	2.90	3.02
wind	0.8 m/s	velocity	5.28	8.50	8.33	8.67	8.67	8.85	8.85	8.67	8.50	8.17	8.20	7.90		8.50	8.79	8.44
FINAL - 2017 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	05-May-17	time	2.50	3.54	4.56	5.56	6.58	7.56	8.60	9.64	10.72	11.82		13.05	6 / 4			
reaction time	0.148	interval		1.04	1.02	1.00	1.02	0.98	1.04	1.04	1.08	1.10	1.23			3.06	3.04	3.22
wind	-2.3 m/s	velocity	5.20	8.17	8.33	8.50	8.33	8.67	8.17	8.17	7.87	7.73	8.54	7.66		8.33	8.39	7.92
Clopes, Imma (ESP) (1968)																		
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)														<i>Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas</i>				
date	01-Aug-98	time	2.61	3.69	4.79	5.92	7.01	8.15	9.25	10.42	11.60	12.81		14.29	2 / 6			
reaction time		interval		1.08	1.10	1.13	1.09	1.14	1.10	1.17	1.18	1.21	1.48			3.31	3.33	3.56
wind	0.0 m/s	velocity	4.98	7.87	7.73	7.52	7.80	7.46	7.73	7.26	7.20	7.02	7.09	7.00		7.70	7.66	7.16

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Cockrell, Anna (USA) (1997)																	
FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)		<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	28-May-22	time	2.53	3.56	4.56	5.56	6.56	7.55	8.56	9.56	10.58	11.68	12.84	9 / 9			
reaction time	0.115	interval		1.03	1.00	1.00	1.00	0.99	1.01	1.00	1.02	1.10	1.16		3.03	3.00	3.12
wind	-0.7 m/s	velocity	5.14	8.25	8.50	8.50	8.50	8.59	8.42	8.50	8.33	7.73	8.66	7.79	8.42	8.50	8.17
FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)		<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>															
date	22-Apr-22	time	2.63	3.63	4.63	5.63	6.63	7.63	8.65	9.67	10.70	11.76	12.92	1 / 9			
reaction time		interval		1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.03	1.06	1.16		3.00	3.02	3.11
wind	0.8 m/s	velocity	4.94	8.50	8.50	8.50	8.50	8.50	8.33	8.33	8.25	8.02	8.66	7.74	8.50	8.44	8.20
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)		<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	20-Jun-21	time	2.50	3.51	4.49	5.45	6.42	7.39	8.36	9.35	10.36	11.38	12.58	3 / 5			
reaction time	0.147	interval		1.01	0.98	0.96	0.97	0.97	0.97	0.99	1.01	1.02	1.20		2.95	2.91	3.02
wind	0.8 m/s	velocity	5.20	8.42	8.67	8.85	8.76	8.76	8.76	8.59	8.42	8.33	8.38	7.95	8.64	8.76	8.44
Semi Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)		<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	20-Jun-21	time	2.53	3.53	4.53	5.50	6.47	7.43	8.41	9.39	10.37	11.42	12.59	4 / 2			
reaction time	0.172	interval		1.00	1.00	0.97	0.97	0.96	0.98	0.98	0.98	1.05	1.17		2.97	2.91	3.01
wind	1.3 m/s	velocity	5.14	8.50	8.50	8.76	8.76	8.85	8.67	8.67	8.67	8.10	8.59	7.94	8.59	8.76	8.47
Heat 3 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)		<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	19-Jun-21	time	2.50	3.53	4.53	5.53	6.50	7.46	8.43	9.43	10.43	11.46	12.63	4 / 1			
reaction time	0.163	interval		1.03	1.00	1.00	0.97	0.96	0.97	1.00	1.00	1.03	1.17		3.03	2.90	3.03
wind	1.0 m/s	velocity	5.20	8.25	8.50	8.50	8.76	8.85	8.76	8.50	8.50	8.25	8.59	7.92	8.42	8.79	8.42
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)		<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	12-Jun-21	time	2.53	3.54	4.54	5.51	6.47	7.44	8.41	9.39	10.38	11.41	12.58	7 / 1			
reaction time	0.159	interval		1.01	1.00	0.97	0.96	0.97	0.97	0.98	0.99	1.03	1.17		2.98	2.90	3.00
wind	0.4 m/s	velocity	5.14	8.42	8.50	8.76	8.85	8.76	8.76	8.67	8.59	8.25	8.59	7.95	8.56	8.79	8.50
Semi Final 2 - 2021 NCAA Championships (Eugene, OR) (TV Analysis)		<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	10-Jun-21	time	2.53	3.53	4.50	5.47	6.43	7.40	8.37	9.33	10.33	11.37	12.54	6 / 2			
reaction time	0.138	interval		1.00	0.97	0.97	0.96	0.97	0.97	0.96	1.00	1.04	1.17	PB	2.94	2.90	3.00
wind	-0.5 m/s	velocity	5.14	8.50	8.76	8.76	8.85	8.76	8.76	8.85	8.50	8.17	8.59	7.97	8.67	8.79	8.50
FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)		<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	08-Jun-19	time	2.56	3.60	4.60	5.56	6.53	7.50	8.50	9.50	10.50	11.53	12.80	8 / 5			
reaction time	0.182	interval		1.04	1.00	0.96	0.97	0.97	1.00	1.00	1.00	1.03	1.27		3.00	2.94	3.03
wind	0.6 m/s	velocity	5.08	8.17	8.50	8.85	8.76	8.76	8.50	8.50	8.50	8.25	8.27	7.81	8.50	8.67	8.42
Colle, Florence (FRA) (1965)																	
FINAL - 1988 Olympic Games (Seoul, KOR)		<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>															
date	30-Sep-88	time	2.65	3.69	4.74	5.74	6.74	7.75	8.77	9.78	10.82	11.85	12.98	1 / 5			
reaction time	0.173	interval		1.04	1.05	1.00	1.00	1.01	1.02	1.01	1.04	1.03	1.13		3.09	3.03	3.08
wind	0.2 m/s	velocity	4.91	8.17	8.10	8.50	8.50	8.42	8.33	8.42	8.17	8.25	9.29	7.70	8.25	8.42	8.28
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	29-Sep-88	time	2.65	3.69	4.75	5.77	6.77	7.77	8.77	9.78	10.81	11.84	12.92	2 / 4			
reaction time	0.166	interval		1.04	1.06	1.02	1.00	1.00	1.01	1.01	1.03	1.03	1.08		3.12	3.00	3.07
wind	0.5 m/s	velocity	4.91	8.17	8.02	8.33	8.50	8.50	8.50	8.42	8.25	8.25	9.72	7.74	8.17	8.50	8.31
Compper, Solenn (FRA) (1995)																	
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)		<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	12-Sep-20	time	2.50	3.55	4.56	5.60	6.58	7.60	8.61	9.65	10.74	11.85	13.20	5 / 2			
reaction time	0.212	interval		1.05	1.01	1.04	0.98	1.02	1.01	1.04	1.09	1.11	1.35		3.10	3.01	3.24
wind	1.5 m/s	velocity	5.20	8.10	8.42	8.17	8.67	8.33	8.42	8.17	7.80	7.66	7.44	7.58	8.23	8.47	7.87
Conte, Claudia (ESP) (1999)																	
Heptathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)		<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>															
date	17-Jul-22	time	2.76	3.83	4.92	5.98	7.03	8.07	9.15	10.21	11.27	12.40	13.65	5 / 6			
reaction time	0.136	interval		1.07	1.09	1.06	1.05	1.04	1.08	1.06	1.06	1.13	1.25	PB	3.22	3.17	3.25
wind	1.4 m/s	velocity	4.71	7.94	7.80	8.02	8.10	8.17	7.87	8.02	8.02	7.52	8.04	7.33	7.92	8.04	7.85
Coward, Jackie (USA) (1989)																	
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>															
date	08-Jul-16	time	2.53	3.57	4.57	5.57	6.54	7.51	8.47	9.47	10.49	11.51	12.75	1 / 7			
reaction time	0.168	interval		1.04	1.00	1.00	0.97	0.97	0.96	1.00	1.02	1.02	1.24		3.04	2.90	3.04
wind	1.2 m/s	velocity	5.14	8.17	8.50	8.50	8.76	8.76	8.85	8.50	8.33	8.33	8.47	7.84	8.39	8.79	8.39
Covington, Jaiya (USA) (2003)																	
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)		<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>															
date	29-Jun-24	time	2.67	3.72	4.74	5.77	6.77	7.80	8.84	9.87	10.91	11.99	13.21	9 / 7			

reaction time		interval	1.05	1.02	1.03	1.00	1.03	1.04	1.03	1.04	1.08	1.22			3.10	3.07	3.15	
wind	0.8 m/s	velocity	4.87	8.10	8.33	8.25	8.50	8.25	8.17	8.25	8.17	7.87	8.24	7.57	8.23	8.31	8.10	
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	28-Jun-24	time	2.65	3.70	4.73	5.76	6.80	7.83	8.87	9.90	10.93	11.98		13.14	7 / 6			
reaction time	0.506	interval	1.05	1.03	1.03	1.04	1.03	1.04	1.03	1.03	1.03	1.05	1.16		3.11	3.11	3.11	
wind	1.7 m/s	velocity	4.91	8.10	8.25	8.25	8.17	8.25	8.17	8.25	8.25	8.10	8.66	7.61	8.20	8.20	8.20	
Cunningham, Gabriele (USA) (1998)																		
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	28-Jun-24	time	2.57	3.64	4.67	5.71	6.72	7.73	8.76	9.81	10.85	11.93		13.16	5 / 5			
reaction time	0.506	interval	1.07	1.03	1.04	1.01	1.01	1.03	1.05	1.04	1.08	1.23			3.14	3.05	3.17	
wind	0.1 m/s	velocity	5.06	7.94	8.25	8.17	8.42	8.42	8.25	8.10	8.17	7.87	8.17	7.60	8.12	8.36	8.04	
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	2.53	3.57	4.57	5.57	6.54	7.52	8.50	9.50	10.51	11.52		12.71	1 / 6			
reaction time	0.506	interval	1.04	1.00	1.00	1.00	0.97	0.98	0.98	1.00	1.01	1.01	1.19		3.04	2.93	3.02	
wind	2.8 m/s	velocity	5.14	8.17	8.50	8.50	8.76	8.67	8.67	8.50	8.42	8.42	8.45	7.87	8.39	8.70	8.44	
FINAL - 2022 Gyulai István Memorial (Székesfehérvár, HUN) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	08-Aug-22	time	2.56	3.60	4.60	5.63	6.63	7.65	8.65	9.67	10.73	11.83		13.09	2 / 6			
reaction time	0.160	interval	1.04	1.00	1.03	1.00	1.02	1.00	1.02	1.02	1.06	1.10	1.26		3.07	3.02	3.18	
wind	2.4 m/s	velocity	5.08	8.17	8.50	8.25	8.50	8.33	8.50	8.33	8.02	7.73	7.98	7.64	8.31	8.44	8.02	
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	25-Jun-22	time	2.55	3.57	4.57	5.57	6.57	7.59	8.62	9.65	10.68	11.74		13.00	9 / 7			
reaction time	0.506	interval	1.02	1.00	1.00	1.00	1.02	1.03	1.03	1.03	1.03	1.06	1.26		3.02	3.05	3.12	
wind	-1.4 m/s	velocity	5.10	8.33	8.50	8.50	8.50	8.33	8.25	8.25	8.25	8.02	7.98	7.69	8.44	8.36	8.17	
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	2.47	3.47	4.43	5.42	6.40	7.38	8.33	9.30	10.32	11.36		12.56	5 / 3			
reaction time	0.160	interval	1.00	0.96	0.99	0.98	0.98	0.95	0.97	1.02	1.04	1.20			2.95	2.91	3.03	
wind	2.0 m/s	velocity	5.26	8.50	8.82	8.62	8.67	8.67	8.95	8.76	8.33	8.17	8.37	7.96	8.64	8.76	8.42	
FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	28-May-22	time	2.38	3.50	4.49	5.46	6.44	7.42	8.42	9.42	10.46	11.52		12.75	1 / 6			
reaction time	0.170	interval	1.12	0.99	0.97	0.98	0.98	1.00	1.00	1.04	1.06	1.23			3.08	2.96	3.10	
wind	-0.7 m/s	velocity	5.46	7.59	8.59	8.76	8.67	8.67	8.50	8.50	8.17	8.02	8.17	7.84	8.28	8.61	8.23	
FINAL - 2022 Doha Diamond League (Doha, QAT) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	13-May-22	time	2.47	3.47	4.47	5.44	6.41	7.41	8.40	9.44	10.46	11.51		12.75	8 / 6			
reaction time	0.157	interval	1.00	1.00	0.97	0.97	1.00	0.99	1.04	1.02	1.05	1.24			2.97	2.96	3.11	
wind	3.8 m/s	velocity	5.26	8.50	8.50	8.76	8.76	8.50	8.59	8.17	8.33	8.10	8.10	7.84	8.59	8.61	8.20	
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)													<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>					
date	08-May-22	time	2.58	3.59	4.60	5.62	6.60	7.61	8.61	9.62	10.74	11.84		13.07	2 / 3			
reaction time	0.162	interval	1.01	1.01	1.02	0.98	1.01	1.00	1.01	1.12	1.10	1.23			3.04	2.99	3.23	
wind	-0.1 m/s	velocity	5.04	8.42	8.42	8.33	8.67	8.42	8.50	8.42	7.59	7.73	8.17	7.65	8.39	8.53	7.89	
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	19-Mar-22	time	2.46	3.46	4.46	5.44	6.42							7.87	2 / 3			
reaction time	0.164	interval	1.00	1.00	0.98	0.98							1.45		2.98			
		velocity	5.28	8.50	8.50	8.67	8.67						8.97	7.62	8.56			
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	4.50	5.48	6.46	7.44	8.44	9.46	10.50	11.54		12.79	2 / 6			
reaction time	0.140	interval	1.04	1.00	0.98	0.98	0.98	1.00	1.02	1.04	1.04	1.25			3.02	2.96	3.10	
wind	0.4 m/s	velocity	5.28	8.17	8.50	8.67	8.67	8.67	8.50	8.33	8.17	8.17	8.04	7.82	8.44	8.61	8.23	
FINAL - 2021 Memorial van Damme (Brussels, BEL) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	03-Sep-21	time	2.48	3.52	4.52	5.50	6.50	7.54	8.54	9.58	10.60	11.66		12.89	4 / 5			
reaction time	0.166	interval	1.04	1.00	0.98	1.00	1.04	1.00	1.04	1.02	1.06	1.23			3.02	3.04	3.12	
wind	0.7 m/s	velocity	5.24	8.17	8.50	8.67	8.50	8.17	8.50	8.17	8.33	8.02	8.17	7.76	8.44	8.39	8.17	
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	2.46	3.48	4.48	5.48	6.48	7.46	8.46	9.48	10.54	11.58		12.86	6 / 5			
reaction time	0.169	interval	1.02	1.00	1.00	1.00	0.98	1.00	1.02	1.06	1.04	1.28			3.02	2.98	3.12	
wind	1.7 m/s	velocity	5.28	8.33	8.50	8.50	8.50	8.67	8.50	8.33	8.02	8.17	7.85	7.78	8.44	8.56	8.17	
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	02-Aug-21	time	2.46	3.48	4.50	5.52	6.52	7.52	8.52	9.54	10.62	11.72		13.01	2 / 7			
reaction time	0.172	interval	1.02	1.02	1.02	1.00	1.00	1.00	1.02	1.08	1.10	1.29			3.06	3.00	3.20	
wind	-0.3 m/s	velocity	5.28	8.33	8.33	8.33	8.50	8.50	8.50	8.33	7.87	7.73	7.79	7.69	8.33	8.50	7.97	

Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

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

date	01-Aug-21	time	2.53	3.53	4.49	5.44	6.43	7.42	8.41	9.41	10.44	11.47	12.67	8 / 4			
reaction time	0.165	interval		1.00	0.96	0.95	0.99	0.99	0.99	1.00	1.03	1.03	1.20		2.91	2.97	3.06
wind	-0.2 m/s	velocity	5.14	8.50	8.85	8.95	8.59	8.59	8.59	8.50	8.25	8.25	8.38	7.89	8.76	8.59	8.33

Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

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

date	31-Jul-21	time	2.54	3.57	4.57	5.57	6.59	7.61	8.60	9.60	10.59	11.66	12.83	8 / 3			
reaction time	0.172	interval		1.03	1.00	1.00	1.02	1.02	0.99	1.00	0.99	1.07	1.17		3.03	3.03	3.06
wind	1.0 m/s	velocity	5.12	8.25	8.50	8.50	8.33	8.33	8.59	8.50	8.59	7.94	8.59	7.79	8.42	8.42	8.33

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	3.49	4.50	5.50	6.47	7.44	8.41	9.44	10.47	11.51	12.75	7 / 3			
reaction time	0.171	interval		1.02	1.01	1.00	0.97	0.97	0.97	1.03	1.03	1.04	1.24		3.03	2.91	3.10
wind	0.2 m/s	velocity	5.26	8.33	8.42	8.50	8.76	8.76	8.76	8.25	8.25	8.17	8.10	7.84	8.42	8.76	8.23

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

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

date	20-Jun-21	time	2.45	3.46	4.44	5.40	6.37	7.34	8.30	9.28	10.29	11.30	12.53	8 / 4			
reaction time	0.153	interval		1.01	0.98	0.96	0.97	0.97	0.96	0.98	1.01	1.01	1.23	PB	2.95	2.90	3.00
wind	0.8 m/s	velocity	5.31	8.42	8.67	8.85	8.76	8.76	8.85	8.67	8.42	8.42	8.17	7.98	8.64	8.79	8.50

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

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

date	20-Jun-21	time	2.43	3.46	4.44	5.40	6.37	7.34	8.33	9.32	10.32	11.36	12.61	6 / 4			
reaction time	0.158	interval		1.03	0.98	0.96	0.97	0.97	0.99	0.99	1.00	1.04	1.25	PB	2.97	2.93	3.03
wind	1.2 m/s	velocity	5.35	8.25	8.67	8.85	8.76	8.76	8.59	8.59	8.50	8.17	8.04	7.93	8.59	8.70	8.42

Heat 4 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)

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

date	19-Jun-21	time	2.43	3.46	4.44	5.42	6.40	7.36	8.36	9.36	10.40	11.42	12.67	7 / 2			
reaction time	0.162	interval		1.03	0.98	0.98	0.98	0.96	1.00	1.00	1.04	1.02	1.25	PB	2.99	2.94	3.06
wind	0.1 m/s	velocity	5.35	8.25	8.67	8.67	8.67	8.85	8.50	8.50	8.17	8.33	8.04	7.89	8.53	8.67	8.33

FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

CAA Hurdle Development (2020)

date	15-Feb-20	time	2.57	3.58	4.60	5.58	6.57						7.92	6 / 1			
reaction time	0.170	interval		1.01	1.02	0.98	0.99						1.35	PB	3.01		
		velocity	5.06	8.42	8.33	8.67	8.59						9.63	7.58	8.47		

Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

CAA Hurdle Development (2020)

date	15-Feb-20	time	2.54	3.58	4.60	5.60	6.59						7.97	6 / 2			
reaction time	0.164	interval		1.04	1.02	1.00	0.99						1.38	PB	3.06		
		velocity	5.12	8.17	8.33	8.50	8.59						9.42	7.53	8.33		

FINAL - 2020 Millrose Games (New York, NY)PrimeTime Timing (2020) - <http://results.nyrrmillrosegames.org/>

date	08-Feb-20	time	2.56	3.60	4.62	5.64	6.64						8.08	3 / 5			
reaction time	0.176	interval		1.04	1.02	1.02	1.00						1.44		3.08		
		velocity	5.08	8.17	8.33	8.33	8.50						9.03	7.43	8.28		

Dadic, Ivona (AUT) (1993)

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

Heptathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

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

date	04-Aug-21	time	2.66	3.74	4.83	5.87	6.94	8.02	9.06	10.15	11.26	12.39	13.61	7 / 7			
reaction time	0.140	interval	7 steps	1.08	1.09	1.04	1.07	1.08	1.04	1.09	1.11	1.13	1.22		3.21	3.19	3.33
wind	0.3 m/s	velocity	4.89	7.87	7.80	8.17	7.94	7.87	8.17	7.80	7.66	7.52	8.24	7.35	7.94	7.99	7.66

Dai Yiru (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)

CAA Hurdle Development (2021)

date	22-Sep-21	time	2.50	3.56	4.60	5.60	6.63	7.67	8.73	9.80	10.87	11.94	13.22	3 / 4			
reaction time	0.132	interval		1.06	1.04	1.00	1.03	1.04	1.06	1.07	1.07	1.07	1.28		3.10	3.13	3.21
wind	0.1 m/s	velocity	5.20	8.02	8.17	8.50	8.25	8.17	8.02	7.94	7.94	7.94	7.85	7.56	8.23	8.15	7.94

Semi-Final 3 - 2021 Chinese National Games (Xi'an, CHN)

CAA Hurdle Development (2021)

date	21-Sep-21	time	2.53	3.54	4.58	5.60	6.61	7.62	8.67	9.74	10.83	11.92	13.24	7 / 3			
reaction time	0.147	interval		1.01	1.04	1.02	1.01	1.01	1.05	1.07	1.09	1.09	1.32		3.07	3.07	3.25
wind	0.1 m/s	velocity	5.14	8.42	8.17	8.33	8.42	8.42	8.10	7.94	7.80	7.80	7.61	7.55	8.31	8.31	7.85

FINAL - 2021 Chinese Student Games (Qingdao, CHN)

CAA Hurdle Development (2021)

date	14-Jul-21	time	2.53	3.57	4.60	5.67	6.67	7.73	8.77	9.80	10.90	11.97	13.28	6 / 2			
reaction time		interval		1.04	1.03	1.07	1.00	1.06	1.04	1.03	1.10	1.07	1.31		3.14	3.10	3.20
wind	-0.7 m/s	velocity	5.14	8.17	8.25	7.94	8.50	8.02	8.17	8.25	7.73	7.94	7.67	7.53	8.12	8.23	7.97

FINAL - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.61	3.67	4.69	5.72	6.72	7.74	8.77	9.86	10.96	12.06	13.29	4 / 6			
reaction time	0.163	interval		1.06	1.02	1.03	1.00	1.02	1.03	1.09	1.10	1.10	1.23		3.11	3.05	3.29
wind	1.7 m/s	velocity	4.98	8.02	8.33	8.25	8.50	8.33	8.25	7.80	7.73	7.73	8.17	7.52	8.20	8.36	7.75

Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)

date	25-Jun-21	time	2.63	3.70	4.74	5.77	6.81	7.87	8.92	10.02	11.13	12.24		13.46
reaction time	0.171	interval		1.07	1.04	1.03	1.04	1.06	1.05	1.10	1.11	1.11	1.22	
wind	-1.6 m/s	velocity	4.94	7.94	8.17	8.25	8.17	8.02	8.10	7.73	7.66	7.66	8.24	7.43

CAA Hurdle Development (2021)

5 / 1
3.14 3.15 3.32
8.12 8.10 7.68**FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)**

date	12-Jun-21	time	2.62	3.68	4.74	5.78	6.82	7.87	8.90	10.00	11.12	12.28		13.55
reaction time	0.159	interval		1.06	1.06	1.04	1.04	1.05	1.03	1.10	1.12	1.16	1.27	
wind	1.0 m/s	velocity	4.96	8.02	8.02	8.17	8.17	8.10	8.25	7.73	7.59	7.33	7.91	7.38

CAA Hurdle Development (2021)

8 / 7
3.16 3.12 3.38
8.07 8.17 7.54**Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)**

date	12-Jun-21	time	2.48	3.55	4.63	5.67	6.74	7.76	8.86	9.96	11.06	12.20		13.55
reaction time	0.147	interval		1.07	1.08	1.04	1.07	1.02	1.10	1.10	1.10	1.14	1.35	
wind	-0.2 m/s	velocity	5.24	7.94	7.87	8.17	7.94	8.33	7.73	7.73	7.73	7.46	7.44	7.38

CAA Hurdle Development (2021)

5 / 3
3.19 3.19 3.34
7.99 7.99 7.63**FINAL - 2021 East China District Meeting (Zhaoqing, CHN)**

date	24-Apr-21	time	2.60	3.64	4.67	5.69	6.71	7.72	8.76	9.81	10.86	11.96		13.13
reaction time	0.178	interval		1.04	1.03	1.02	1.02	1.01	1.04	1.05	1.05	1.10	1.17	PB
wind	-0.8 m/s	velocity	5.00	8.17	8.25	8.33	8.33	8.42	8.17	8.10	8.10	7.73	8.59	7.62

CAA Hurdle Development (2021)

5 / 2
3.09 3.07 3.20
8.25 8.31 7.97**Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)**

date	24-Apr-21	time	2.65	3.72	4.76	5.81	6.85	7.89	8.96	10.08	11.16	12.31		13.54
reaction time	0.179	interval		1.07	1.04	1.05	1.04	1.04	1.07	1.12	1.08	1.15	1.23	
wind	0.5 m/s	velocity	4.91	7.94	8.17	8.10	8.17	8.17	7.94	7.59	7.87	7.39	8.17	7.39

CAA Hurdle Development (2021)

6 / 2
3.16 3.15 3.35
8.07 8.10 7.61**FINAL - 2021 National Grand Prix (Chengdu, CHN)**

date	02-Apr-21	time	2.64	3.68	4.72	5.72	6.76	7.78	8.80	9.86	10.96	12.10		13.37
reaction time	0.201	interval		1.04	1.04	1.00	1.04	1.02	1.02	1.06	1.10	1.14	1.27	
wind	0.1 m/s	velocity	4.92	8.17	8.17	8.50	8.17	8.33	8.33	8.02	7.73	7.46	7.91	7.48

CAA Hurdle Development (2021)

3 / 3
3.08 3.08 3.30
8.28 8.28 7.73**Heat 3 - 2021 National Grand Prix (Chengdu, CHN)**

date	02-Apr-21	time	2.64	3.72	4.78	5.82	6.90	7.96	9.02	10.08	11.18	12.26		13.51
reaction time	0.198	interval		1.08	1.06	1.04	1.08	1.06	1.06	1.06	1.10	1.08	1.25	
wind	1.0 m/s	velocity	4.92	7.87	8.02	8.17	7.87	8.02	8.02	8.02	7.73	7.87	8.04	7.40

CAA Hurdle Development (2021)

4 / 2
3.18 3.20 3.24
8.02 7.97 7.87**FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)**

date	18-Mar-21	time	2.60	3.65	4.71	5.74	6.75							8.13
reaction time	0.161	interval		1.05	1.06	1.03	1.01						1.38	PB
		velocity	5.00	8.10	8.02	8.25	8.42						9.42	7.38

CAA Hurdle Development (2021)

4 / 1
3.14
8.12**Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)**

date	15-Sep-20	time	2.64	3.70	4.74	5.79	6.84	7.88	8.96	10.07	11.18	12.36		13.61
reaction time	0.155	interval		1.06	1.04	1.05	1.05	1.04	1.08	1.11	1.11	1.18	1.25	
wind	-0.6 m/s	velocity	4.92	8.02	8.17	8.10	8.10	8.17	7.87	7.66	7.66	7.20	8.04	7.35

CAA Hurdle Development (2020)

2 / 3
3.15 3.17 3.40
8.10 8.04 7.50**FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)**

date	24-Aug-19	time	2.70	3.75	4.82	5.85	6.91	7.96	9.01	10.08	11.17	12.29		13.49
reaction time	0.202	interval		1.05	1.07	1.03	1.06	1.05	1.05	1.07	1.09	1.12	1.20	
wind	-0.1 m/s	velocity	4.81	8.10	7.94	8.25	8.02	8.10	8.10	7.94	7.80	7.59	8.75	7.41

CAA Hurdle Development (2019)

3 / 2
3.15 3.16 3.28
8.10 8.07 7.77**Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)**

date	23-Aug-19	time	2.70	3.77	4.86	5.91	6.99	8.11	9.23	10.39	11.54	12.75		14.02
reaction time	0.197	interval		1.07	1.09	1.05	1.08	1.12	1.12	1.16	1.15	1.21	1.27	
wind	-0.2 m/s	velocity	4.81	7.94	7.80	8.10	7.87	7.59	7.59	7.33	7.39	7.02	8.27	7.13

CAA Hurdle Development (2019)

4 / 4
3.21 3.32 3.52
7.94 7.68 7.24**U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)**

date	14-Aug-19	time	2.54	3.61	4.70	5.75	6.78	7.82	8.88	9.96	11.03	12.13		13.36
reaction time	0.156	interval		1.07	1.09	1.05	1.03	1.04	1.06	1.08	1.07	1.10	1.23	
wind	-0.1 m/s	velocity	5.12	7.94	7.80	8.10	8.25	8.17	8.02	7.87	7.94	7.73	8.54	7.49

CAA Hurdle Development (2019)

6 / 1
3.21 3.13 3.25
7.94 8.15 7.85**U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN)**

date	14-Aug-19	time	2.64	3.70	4.77	5.79	6.86	7.91	9.01	10.11	11.23	12.36		13.62
reaction time	0.168	interval		1.06	1.07	1.02	1.07	1.05	1.10	1.10	1.12	1.13	1.26	
wind	0.0 m/s	velocity	4.92	8.02	7.94	8.33	7.94	8.10	7.73	7.73	7.59	7.52	8.33	7.34

CAA Hurdle Development (2019)

5 / 1
3.15 3.22 3.35
8.10 7.92 7.61**FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)**

date	02-Aug-19	time	2.62	3.65	4.72	5.72	6.74	7.77	8.81	9.88	10.94	12.06		13.24
reaction time	0.178	interval		1.03	1.07	1.00	1.02	1.03	1.04	1.07	1.06	1.12	1.18	PB
wind	0.0 m/s	velocity	4.96	8.25	7.94	8.50	8.33	8.25	8.17	7.94	8.02	7.59	8.90	7.55

CAA Hurdle Development (2019)

4 / 1
3.10 3.09 3.25
8.23 8.25 7.85**Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)**

date	02-Aug-19	time	2.64	3.70	4.77	5.83	6.87	7.92	8.97	10.04	11.13	12.25		13.46
reaction time	0.183	interval		1.06	1.07	1.06	1.04	1.05	1.05	1.07	1.09	1.12	1.21	PB

CAA Hurdle Development (2019)

6 / 1
3.19 3.14 3.28

wind	0.2 m/s	velocity	4.92	8.02	7.94	8.02	8.17	8.10	8.10	7.94	7.80	7.59	8.68	7.43	53 of 267	W100H athlete	7.99	8.12	7.77
FINAL - 2019 Chinese National Championships (Shenyang, CHN)															CAA Hurdle Development (2019)				
date	08-Jul-19	time	2.67	3.79	4.85	5.91	6.96	8.00	9.09	10.17	11.27	12.36		13.58	1 / 7				
reaction time	0.197	interval		1.12	1.06	1.06	1.05	1.04	1.09	1.08	1.10	1.09	1.22	PB		3.24	3.18	3.27	
wind	0.2 m/s	velocity	4.87	7.59	8.02	8.02	8.10	8.17	7.80	7.87	7.73	7.80	8.61	7.36		7.87	8.02	7.80	
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)															CAA Hurdle Development (2019)				
date	08-Jul-19	time	2.72	3.82	4.88	5.92	7.00	8.05	9.12	10.18	11.28	12.38		13.60	3 / 3				
reaction time	0.199	interval		1.10	1.06	1.04	1.08	1.05	1.07	1.06	1.10	1.10	1.22	PB		3.20	3.20	3.26	
wind	1.3 m/s	velocity	4.78	7.73	8.02	8.17	7.87	8.10	7.94	8.02	7.73	7.73	8.61	7.35		7.97	7.97	7.82	
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)															CAA Hurdle Development (2019)				
date	30-May-19	time	2.74	3.82	4.92	5.97	7.00	8.07	9.12	10.24	11.38	12.52		13.74	5 / 5				
reaction time	0.200	interval		1.08	1.10	1.05	1.03	1.07	1.05	1.12	1.14	1.14	1.22	=PB		3.23	3.15	3.40	
wind	-0.1 m/s	velocity	4.74	7.87	7.73	8.10	8.25	7.94	8.10	7.59	7.46	7.46	8.61	7.28		7.89	8.10	7.50	
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)															CAA Hurdle Development (2019)				
date	13-Apr-19	time	2.67	3.75	4.82	5.89	6.95	8.01	9.08	10.17	11.30	12.43		13.74	2 / 7				
reaction time	0.220	interval		1.08	1.07	1.07	1.06	1.06	1.07	1.09	1.13	1.13	1.31	PB		3.22	3.19	3.35	
wind	0.3 m/s	velocity	4.87	7.87	7.94	7.94	8.02	8.02	7.94	7.80	7.52	7.52	8.02	7.28		7.92	7.99	7.61	
Heat 2 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)															CAA Hurdle Development (2019)				
date	13-Apr-19	time	2.68	3.78	4.84	5.90	6.95	8.02	9.10	10.18	11.35	12.52		13.86	7 / 2				
reaction time	0.177	interval		1.10	1.06	1.06	1.05	1.07	1.08	1.08	1.17	1.17	1.34	PB		3.22	3.20	3.42	
wind	0.2 m/s	velocity	4.85	7.73	8.02	8.02	8.10	7.94	7.87	7.87	7.26	7.26	7.84	7.22		7.92	7.97	7.46	
A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)															CAA Hurdle Development (2019)				
date	20-Mar-19	time	2.70	3.77	4.87	5.89	6.96							8.40	5 / 3				
reaction time		interval		1.07	1.10	1.02	1.07						1.44	PB		3.19			
		velocity	4.81	7.94	7.73	8.33	7.94						9.03	7.14		7.99			
A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)															CAA Hurdle Development (2019)				
date	4-Mar-19	time	2.67	3.75	4.82	5.84	6.87							8.41	5 / 2				
reaction time		interval		1.08	1.07	1.02	1.03						1.54	=PB		3.17			
		velocity	4.87	7.87	7.94	8.33	8.25						8.44	7.13		8.04			
A-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)															CAA Hurdle Development (2019)				
date	28-Feb-19	time	2.72	3.82	4.90	5.96	7.02							8.48	3 / 3				
reaction time		interval		1.10	1.08	1.06	1.06						1.46			3.24			
		velocity	4.78	7.73	7.87	8.02	8.02						8.90	7.08		7.87			
Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)															Henson (2018) - coaching observations				
date	15-Sep-18	time	2.75	3.83	4.93	6.01	7.09	8.19	9.31	10.43	11.56	12.76		14.11	8 / 6				
reaction time		interval		1.08	1.10	1.08	1.08	1.10	1.12	1.12	1.13	1.20	1.35			3.26	3.30	3.45	
wind	0.0 m/s	velocity	4.73	7.87	7.73	7.87	7.87	7.73	7.59	7.59	7.52	7.08	7.78	7.09		7.82	7.73	7.39	
Dai, Yuno (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	2.87	4.08	5.28	6.55	7.80	9.05	10.32	11.62	12.90	14.52		16.08	9 / 6				
reaction time		interval		1.21	1.20	1.27	1.25	1.25	1.27	1.30	1.28	1.62	1.56			3.68	3.77	4.20	
wind	-0.4 m/s	velocity	4.53	7.02	7.08	6.69	6.80	6.80	6.69	6.54	6.64	5.25	6.44	6.22		6.93	6.76	6.07	
FINAL - 2021 Shimane High School Championships (Izumo, JPN)															Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis				
date	30-May-21	time	2.90	4.12	5.38	6.67	7.93	9.27	10.58	11.93	13.32	14.92		16.44	1 / 7				
reaction time		interval		1.22	1.26	1.29	1.26	1.34	1.31	1.35	1.39	1.60	1.52			3.77	3.91	4.34	
wind	1.7 m/s	velocity	4.48	6.97	6.75	6.59	6.75	6.34	6.49	6.30	6.12	5.31	6.61	6.08		6.76	6.52	5.88	
Davin, Elisabeth (BEL) (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) - 100/110m Hurdles: Development				
date	08-Aug-10	time	2.72	3.78	4.85	5.88	6.90	7.94	8.99	10.06	11.14	12.21		13.36	1 / 2				
reaction time		interval		1.06	1.07	1.03	1.02	1.04	1.05	1.07	1.08	1.07	1.15			3.16	3.11	3.22	
wind	0.6 m/s	velocity	4.78	8.02	7.94	8.25	8.33	8.17	8.10	7.94	7.87	7.94	9.13	7.49		8.07	8.20	7.92	
Davis, Candice (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 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	2.57	3.62	4.63	5.63	6.63	7.66	8.69	9.72	10.77	11.84		13.13	1 / 2				
reaction time		interval		1.05	1.01	1.00	1.00	1.03	1.03	1.03	1.05	1.07	1.29			3.06	3.06	3.15	
wind	0.1 m/s	velocity	5.06	8.10	8.42	8.50	8.50	8.25	8.25	8.25	8.10	7.94	8.14	7.62		8.33	8.33	8.10	
FINAL - 2008 USA Olympic Trials (Eugene, OR)															USATF Hurdle Development (2008)				
date	06-Jul-08	time	2.58	3.58	4.58	5.57	6.52	7.49	8.49	9.47	10.49	11.52		12.66	1 / 5				
reaction time		interval		1.00	1.00	0.99	0.95	0.97	1.00	0.98	1.02	1.03	1.14			2.99	2.92	3.03	

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

wind	3.8 m/s	velocity	5.04	8.50	8.50	8.59	8.95	8.76	8.50	8.67	8.33	8.25	9.21	7.90	8.53	8.73	8.42
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)														USATF Women's Sprint Development (2003)			
date	22-Jun-03	time	2.58	3.69	4.79	5.87	6.97	8.09	9.24	10.36	11.48	12.59	13.99	4 / 7			
reaction time	0.205	interval	1.11	1.10	1.08	1.10	1.12	1.15	1.12	1.12	1.11	1.40			3.29	3.37	3.35
wind	2.3 m/s	velocity	5.04	7.66	7.73	7.87	7.73	7.59	7.39	7.59	7.59	7.66	7.50	7.15	7.75	7.57	7.61
Davis, Tanya (USA) (1968)																	
FINAL - 1986 IAAF World Junor Championships (Athens, GRE)																	
														Miskos (1986) - IAAF biomechanical research - Athens 1986 - hurdle races			
date	19-Jul-86	time	2.58	3.67	4.68	5.73	6.78	7.83	8.86	10.00	11.13	12.26	13.46	1 / 3			
reaction time	0.217	interval	1.09	1.01	1.05	1.05	1.05	1.03	1.14	1.11	1.13	1.20			3.15	3.13	3.40
wind	-0.7 m/s	velocity	5.04	7.80	8.42	8.10	8.10	8.10	8.25	7.46	7.52	7.52	8.75	7.43	8.10	8.15	7.50
Day, Sharon (USA) (1985)																	
Heptathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)																	
														Graubner (2009) - biomechanical analyses at the 12th IAAF world championships			
date	15-Aug-09	time	2.80	3.90	5.01	6.09	7.17	8.27	9.35	10.47	11.58	12.69	13.90	7 / 4			
reaction time	0.217	interval	1.10	1.11	1.08	1.08	1.10	1.08	1.12	1.11	1.11	1.21			3.29	3.26	3.34
wind	-0.3 m/s	velocity	4.64	7.73	7.66	7.87	7.87	7.73	7.87	7.59	7.66	7.66	8.68	7.19	7.75	7.82	7.63
De Aniceto, Marisa (FRA) (1986)																	
Heptathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)																	
														Graubner (2009) - biomechanical analyses at the 12th IAAF world championships			
date	15-Aug-09	time	2.80	3.92	5.00	6.07	7.12	8.20	9.28	10.38	11.48	12.59	13.78	6 / 6			
reaction time	0.217	interval	1.12	1.08	1.07	1.05	1.08	1.08	1.10	1.10	1.11	1.19			3.27	3.21	3.31
wind	-0.2 m/s	velocity	4.64	7.59	7.87	7.94	8.10	7.87	7.87	7.73	7.73	7.66	8.82	7.26	7.80	7.94	7.70
de Mello, Micaela (BRA) (2000)																	
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)																	
														Henson (2024) - Athlete First: 2024 year end hurdle report			
date	08-Jun-24	time	2.60	3.64	4.65	5.65	6.67	7.67	8.67	9.68	10.71	11.76	12.92	9 / 7			
reaction time	0.217	interval	1.04	1.01	1.00	1.02	1.00	1.00	1.01	1.03	1.05	1.16			3.05	3.02	3.09
wind	-0.5 m/s	velocity	5.00	8.17	8.42	8.50	8.33	8.50	8.50	8.42	8.25	8.10	8.66	7.74	8.36	8.44	8.25
Dehtyareva, Tatyana (RUS) (1981)																	
FINAL - 2011 IAAF World Championships (Daegu, KOR)																	
														KSSB (2011) - biomechanical analysis of women's 100m hurdle			
date	03-Sep-11	time	2.63	3.66	4.68	5.66	6.64	7.63	8.63	9.64	10.66	11.70	12.82	1 / 5			
reaction time	0.161	interval	1.03	1.02	0.98	0.98	0.99	1.00	1.01	1.02	1.04	1.12			3.03	2.97	3.07
wind	1.1 m/s	velocity	4.94	8.25	8.33	8.67	8.67	8.59	8.50	8.42	8.33	8.17	9.37	7.80	8.42	8.59	8.31
Race 1 - 2011 European Team Championships (Stockholm, SWE)																	
														Blomkvist (2011) - www.sub13.se			
date	19-Jun-11	time	2.56	3.60	4.64	5.68	6.68	7.72	8.76	9.80	10.84	11.92	13.16	1 / 1			
reaction time	0.201	interval	1.04	1.04	1.04	1.00	1.04	1.04	1.04	1.04	1.04	1.08	1.24		3.12	3.08	3.16
wind	-1.0 m/s	velocity	5.08	8.17	8.17	8.17	8.50	8.17	8.17	8.17	8.17	7.87	8.47	7.60	8.17	8.28	8.07
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)																	
														Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships			
date	13-Mar-10	time	2.62	3.66	4.67	5.65	6.69						8.05	7 / 8			
reaction time	0.173	interval	1.04	1.01	0.98	1.04							1.36		3.03		
		velocity	4.96	8.17	8.42	8.67	8.17						9.56	7.45	8.42		
Denby, Nichole (USA) (1982)																	
FINAL - 2008 USA Olympic Trials (Eugene, OR)																	
														USATF Hurdle Development (2008)			
date	06-Jul-08	time	2.60	3.58	4.57	5.53	6.50	7.50	8.47	9.47	10.47	11.49	12.62	5 / 4			
reaction time		interval	0.98	0.99	0.96	0.97	1.00	0.97	1.00	1.00	1.02	1.13			2.93	2.94	3.02
wind	3.8 m/s	velocity	5.00	8.67	8.59	8.85	8.76	8.50	8.76	8.50	8.50	8.33	9.29	7.92	8.70	8.67	8.44
FINAL - 2007 USATF National Championships (Indianapolis, IN)																	
														USATF Men's Hurdle Development (2007)			
date	23-Jun-07	time	2.64	3.67	4.70	5.69	6.71	7.72	8.73	9.74	10.76	11.80	12.82	1 / 4			
reaction time		interval	1.03	1.03	0.99	1.02	1.01	1.01	1.01	1.02	1.04	1.02			3.05	3.04	3.07
wind	-1.3 m/s	velocity	4.92	8.25	8.25	8.59	8.33	8.42	8.42	8.42	8.33	8.17	10.29	7.80	8.36	8.39	8.31
Deng Mengying (CHN) (2004)																	
FINAL - 2021 Central China Athletics Meeting (Ji'an, CHN)																	
														CAA Hurdle Development (2021)			
date	11-May-21	time	2.85	4.05	5.25	6.44	7.61	8.79	10.01	11.23	12.44	13.68	15.03	2 / 6			
reaction time		interval	1.20	1.20	1.19	1.17	1.18	1.22	1.22	1.21	1.24	1.35			3.59	3.57	3.67
wind	-0.6 m/s	velocity	4.56	7.08	7.08	7.14	7.26	7.20	6.97	6.97	7.02	6.85	7.44	6.65	7.10	7.14	6.95
Heat 2 - 2021 National Indoor Grand Prix (Chengdu, CHN)																	
														CAA Hurdle Development (2021)			
date	13-Mar-21	time	2.95	4.20	5.44	6.69	7.92						9.52	5 / 5			
reaction time	0.288	interval	1.25	1.24	1.25	1.23							1.60		PB	3.74	
		velocity	4.41	6.80	6.85	6.80	6.91						8.13	6.30	6.82		
Deng Ru (CHN) (1989)																	
FINAL - 2017 Chinese National Games (Tianjin, CHN)																	
														Henson (2017) - coaching observations			
date	04-Sep-17	time	2.76	3.85	4.92	5.97	7.00	8.06	9.12	10.19	11.29	12.39	13.59	8 / 5			
reaction time		interval	1.09	1.07	1.05	1.03	1.06	1.06	1.07	1.10	1.10	1.20			3.21	3.15	3.27

wind	-0.2 m/s	velocity	4.71	7.80	7.94	8.10	8.25	8.02	8.02	7.94	7.73	7.73	8.75	7.36		7.94	8.10	7.80
FINAL - 2014 Chinese National Championships (Suzhou, CHN)																<i>Deng (2016) - research on the 2014 winter training of chinese excellent 100m hurdler Deng Ru</i>		
date	11-Oct-14	time	2.27	3.33	4.41	5.53	6.57	7.69	8.80	9.88	10.96	12.08		13.86	/ 6			
reaction time		interval		1.06	1.08	1.12	1.04	1.12	1.11	1.08	1.08	1.12	1.78			3.26	3.27	3.28
wind	1.6 m/s	velocity	5.73	8.02	7.87	7.59	8.17	7.59	7.66	7.87	7.87	7.59	5.90	7.22		7.82	7.80	7.77
FINAL - 2014 Chinese National Grand Prix (Zhaoqing, CHN)																<i>Deng (2016) - research on the 2014 winter training of chinese excellent 100m hurdler Deng Ru</i>		
date	20-Apr-14	time	2.35	3.43	4.51	5.59	6.63	7.66	8.74	9.81	10.90	12.01		13.57	/ 4			
reaction time		interval		1.08	1.08	1.08	1.04	1.03	1.08	1.07	1.09	1.11	1.56			3.24	3.15	3.27
wind	1.0 m/s	velocity	5.53	7.87	7.87	7.87	8.17	8.25	7.87	7.94	7.80	7.66	6.73	7.37		7.87	8.10	7.80
FINAL - 2012 Chinese National Championships (Kunshan, CHN)																<i>Liu (2013) - study of winter training of chinese hurdler Deng Ru for the 12th national games</i>		
date	24-Sep-12	time	2.36	3.44	4.52	5.60	6.64	7.68	8.76	9.84	10.92	12.04		13.60	/ 7			
reaction time		interval		1.08	1.08	1.08	1.04	1.04	1.08	1.08	1.08	1.12	1.56			3.24	3.16	3.28
wind	1.0 m/s	velocity	5.51	7.87	7.87	7.87	8.17	8.17	7.87	7.87	7.87	7.59	6.73	7.35		7.87	8.07	7.77
FINAL - 2012 Chinese National Grand Prix Final (Fuzhou, CHN)																<i>Liu (2013) - study of winter training of chinese hurdler Deng Ru for the 12th national games</i>		
date	24-Jun-12	time	2.28	3.36	4.44	5.56	6.60	7.72	8.84	9.96	11.04	12.16		13.95	/ 8			
reaction time		interval		1.08	1.08	1.12	1.04	1.12	1.12	1.12	1.08	1.12	1.79			3.28	3.28	3.32
wind	-1.3 m/s	velocity	5.70	7.87	7.87	7.59	8.17	7.59	7.59	7.59	7.87	7.59	5.87	7.17		7.77	7.77	7.68
Deng Xuelin (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 - 2023 Chinese National Grand Prix 4 (Chongqing, CHN)																<i>Shandong Athletics Sport Science (2023)</i>		
date	03-Jun-23	time	2.74	3.80	4.85	5.89	6.92	7.98	9.04	10.11	11.18	12.38		13.61	5 / 3			
reaction time	0.208	interval		1.06	1.05	1.04	1.03	1.06	1.06	1.07	1.07	1.20	1.23			3.15	3.15	3.34
wind	0.3 m/s	velocity	4.74	8.02	8.10	8.17	8.25	8.02	8.02	7.94	7.94	7.08	8.17	7.35		8.10	8.10	7.63
FINAL - 2021 Chinese National Championships (Chongqing, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	25-Jun-21	time	2.72	3.75	4.79	5.82	6.84	7.86	8.89	9.93	10.98	12.06		13.24	2 / 4			
reaction time	0.219	interval		1.03	1.04	1.03	1.02	1.02	1.03	1.04	1.05	1.08	1.18	PB		3.10	3.07	3.17
wind	1.7 m/s	velocity	4.78	8.25	8.17	8.25	8.33	8.33	8.25	8.17	8.10	7.87	8.52	7.55		8.23	8.31	8.04
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	25-Jun-21	time	2.72	3.79	4.87	5.92	6.96	8.00	9.06	10.13	11.21	12.33		13.56	6 / 3			
reaction time	0.209	interval		1.07	1.08	1.05	1.04	1.04	1.06	1.07	1.08	1.12	1.23			3.20	3.14	3.27
wind	-0.3 m/s	velocity	4.78	7.94	7.87	8.10	8.17	8.17	8.02	7.94	7.87	7.59	8.17	7.37		7.97	8.12	7.80
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	24-Apr-21	time	2.69	3.77	4.80	5.84	6.91	7.95	8.99	10.07	11.14	12.23		13.46	7 / 4			
reaction time	0.203	interval		1.08	1.03	1.04	1.07	1.04	1.04	1.08	1.07	1.09	1.23			3.15	3.15	3.24
wind	-0.8 m/s	velocity	4.83	7.87	8.25	8.17	7.94	8.17	8.17	7.87	7.94	7.80	8.17	7.43		8.10	8.10	7.87
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	24-Apr-21	time	2.72	3.79	4.82	5.87	6.91	7.97	9.03	10.11	11.19	12.31		13.54	7 / 1			
reaction time	0.216	interval		1.07	1.03	1.05	1.04	1.06	1.06	1.08	1.08	1.12	1.23			3.15	3.16	3.28
wind	0.5 m/s	velocity	4.78	7.94	8.25	8.10	8.17	8.02	8.02	7.87	7.87	7.59	8.17	7.39		8.10	8.07	7.77
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)																<i>CAA Hurdle Development (2020)</i>		
date	15-Sep-20	time	2.72	3.78	4.82	5.84	6.88	7.92	8.95	10.01	11.07	12.16		13.31	3 / 1			
reaction time	0.166	interval		1.06	1.04	1.02	1.04	1.04	1.03	1.06	1.06	1.09	1.15			3.12	3.11	3.21
wind	-0.6 m/s	velocity	4.78	8.02	8.17	8.33	8.17	8.17	8.25	8.02	8.02	7.80	8.74	7.51		8.17	8.20	7.94
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)																<i>CAA Hurdle Development (2019)</i>		
date	24-Aug-19	time	2.72	3.77	4.82	5.84	6.89	7.95	9.01	10.11	11.21	12.28		13.49	4 / 3			
reaction time	0.230	interval		1.05	1.05	1.02	1.05	1.06	1.06	1.10	1.10	1.07	1.21			3.12	3.17	3.27
wind	-0.1 m/s	velocity	4.78	8.10	8.10	8.33	8.10	8.02	8.02	7.73	7.73	7.94	8.68	7.41		8.17	8.04	7.80
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																<i>CAA Hurdle Development (2019)</i>		
date	23-Aug-19	time	2.75	3.85	4.94	5.97	7.04	8.09	9.14	10.19	11.31	12.50		13.73	7 / 3			
reaction time	0.250	interval		1.10	1.09	1.03	1.07	1.05	1.05	1.05	1.12	1.19	1.23			3.22	3.17	3.36
wind	0.2 m/s	velocity	4.73	7.73	7.80	8.25	7.94	8.10	8.10	8.10	7.59	7.14	8.54	7.28		7.92	8.04	7.59
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)																<i>CAA Hurdle Development (2019)</i>		
date	02-Aug-19	time	2.70	3.75	4.80	5.81	6.85	7.88	8.90	9.94	10.98	12.04		13.25	3 / 2			
reaction time	0.219	interval		1.05	1.05	1.01	1.04	1.03	1.02	1.04	1.04	1.06	1.21	PB		3.11	3.09	3.14
wind	0.0 m/s	velocity	4.81	8.10	8.10	8.42	8.17	8.25	8.33	8.17	8.17	8.02	8.68	7.55		8.20	8.25	8.12
Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)																<i>CAA Hurdle Development (2019)</i>		
date	02-Aug-19	time	2.72	3.78	4.84	5.91	6.94	7.97	9.04	10.08	11.14	12.21		13.43	2 / 1			
reaction time	0.216	interval		1.06	1.06	1.07	1.03	1.03	1.07	1.04	1.06	1.07	1.22			3.19	3.13	3.17
wind	-0.3 m/s	velocity	4.78	8.02	8.02	7.94	8.25	8.25	7.94	8.17	8.02	7.94	8.61	7.45		7.99	8.15	8.04

FINAL - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.73	3.78	4.82	5.87	6.89	7.94	8.97	10.04	11.09	12.17		13.36	CAA Hurdle Development (2019)			
reaction time	0.243	interval		1.05	1.04	1.05	1.02	1.05	1.03	1.07	1.05	1.08	1.19	PB		3.14	3.10	3.20
wind	0.2 m/s	velocity	4.76	8.10	8.17	8.10	8.33	8.10	8.25	7.94	8.10	7.87	8.82	7.49		8.12	8.23	7.97

Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.72	3.79	4.88	5.94	6.98	8.02	9.08	10.12	11.16	12.26		13.46	CAA Hurdle Development (2019)			
reaction time	0.235	interval		1.07	1.09	1.06	1.04	1.04	1.06	1.04	1.04	1.10	1.20			3.22	3.14	3.18
wind	1.3 m/s	velocity	4.78	7.94	7.80	8.02	8.17	8.17	8.02	8.17	8.17	7.73	8.75	7.43		7.92	8.12	8.02

FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)

date	30-May-19	time	2.75	3.82	4.87	5.91	6.97	8.02	9.08	10.14	11.21	12.32		13.48	CAA Hurdle Development (2019)			
reaction time	0.207	interval		1.07	1.05	1.04	1.06	1.05	1.06	1.06	1.07	1.11	1.16			3.16	3.17	3.24
wind	-0.1 m/s	velocity	4.73	7.94	8.10	8.17	8.02	8.10	8.02	8.02	7.94	7.66	9.05	7.42		8.07	8.04	7.87

FINAL - 2019 Chinese National Grand Prix 3 (Jinhai, CHN)

date	23-May-19	time	2.72	3.78	4.82	5.86	6.90	7.94	8.98	10.04	11.12	12.22		13.41	CAA Hurdle Development (2019)			
reaction time	0.222	interval		1.06	1.04	1.04	1.04	1.04	1.04	1.06	1.08	1.10	1.19			3.14	3.12	3.24
wind	0.4 m/s	velocity	4.78	8.02	8.17	8.17	8.17	8.17	8.17	8.02	7.87	7.73	8.82	7.46		8.12	8.17	7.87

FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)

date	09-Apr-19	time	2.76	3.84	4.89	5.94	7.00	8.04	9.09	10.20					CAA Hurdle Development (2019)			
reaction time	0.234	interval		1.08	1.05	1.05	1.06	1.04	1.05	1.11				DQ		3.18	3.15	
wind	0.1 m/s	velocity	4.71	7.87	8.10	8.10	8.02	8.17	8.10	7.66						8.02	8.10	

Heat 2 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)

date	08-Apr-19	time	2.72	3.81	4.87	5.91	6.97	8.04	9.13	10.22	11.31	12.44		13.68	CAA Hurdle Development (2019)			
reaction time	0.232	interval		1.09	1.06	1.04	1.06	1.07	1.09	1.09	1.09	1.13	1.24			3.19	3.22	3.31
wind	-0.2 m/s	velocity	4.78	7.80	8.02	8.17	8.02	7.94	7.80	7.80	7.80	7.52	8.47	7.31		7.99	7.92	7.70

A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)

date	20-Feb-19	time	2.73	3.82	4.89	5.96	7.00							8.46	CAA Hurdle Development (2019)			
reaction time		interval		1.09	1.07	1.07	1.04						1.46			3.23		
		velocity	4.76	7.80	7.94	7.94	8.17						8.90	7.09		7.89		

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)

date	16-Sep-18	time	2.74	3.81	4.83	5.89	6.92	7.96	8.97	10.04	11.08	12.19		13.38	Henson (2018) - coaching observations			
reaction time		interval		1.07	1.02	1.06	1.03	1.04	1.01	1.07	1.04	1.11	1.19	PB		3.15	3.08	3.22
wind	-0.2 m/s	velocity	4.74	7.94	8.33	8.02	8.25	8.17	8.42	7.94	8.17	7.66	8.82	7.47		8.10	8.28	7.92

Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)

date	15-Sep-18	time	2.72	3.79	4.82	5.91	6.93	7.98	9.01	10.06	11.13	12.23		13.45	Henson (2018) - coaching observations			
reaction time		interval		1.07	1.03	1.09	1.02	1.05	1.03	1.05	1.07	1.10	1.22	PB		3.19	3.10	3.22
wind	0.0 m/s	velocity	4.78	7.94	8.25	7.80	8.33	8.10	8.25	8.10	7.94	7.73	8.61	7.43		7.99	8.23	7.92

Devers, Gail (USA) (1966)

			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)																		
date	22-Jun-03	time	2.50	3.50	4.50	5.47	6.45	7.42	8.42	9.40	10.41	11.41		12.61	5 / 1			
reaction time		interval		1.00	1.00	0.97	0.98	0.97	1.00	0.98	1.01	1.00	1.20			2.97	2.95	2.99
wind	-0.1 m/s	velocity	5.20	8.50	8.50	8.76	8.67	8.76	8.50	8.67	8.42	8.50	8.75	7.93		8.59	8.64	8.53

FINAL - 2002 IAAF World Cup (Madrid, ESP)

date	21-Sep-02	time	2.49	3.49	4.46	5.42	6.38	7.38	8.39	9.38	10.40	11.45		12.65	Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas			
reaction time	0.177	interval		1.00	0.97	0.96	0.96	1.00	1.01	0.99	1.02	1.05	1.20			2.93	2.97	3.06
wind	1.5 m/s	velocity	5.22	8.50	8.76	8.85	8.85	8.50	8.42	8.59	8.33	8.10	8.75	7.91		8.70	8.59	8.33

Semi-Final 2 - 2001 IAAF World Championships (Edmonton, CAN)

date	10-Aug-01	time	2.60	3.60	4.56	5.52	6.52	7.52	8.52	9.52	10.52	11.55		12.56	Winckler (2009) - UK Athletics- National Coaching Conference			
reaction time	0.134	interval		1.00	0.96	0.96	1.00	1.00	1.00	1.00	1.00	1.03	1.01			2.92	3.00	3.03
wind	-0.3 m/s	velocity	5.00	8.50	8.85	8.85	8.50	8.50	8.50	8.50	8.50	8.25	10.40	7.96		8.73	8.50	8.42

FINAL - 1999 IAAF World Championships (Sevilla, ESP)

date	28-Aug-99	time	2.50	3.49	4.46	5.44	6.42	7.38	8.34	9.32	10.30	11.29		12.37	Sanchez (1999) - Sevilla '99: análisis de la carreras con villas			
reaction time	0.113	interval		0.99	0.97	0.98	0.98	0.96	0.96	0.98	0.98	0.99	1.08	AR		2.94	2.90	2.95
wind	0.7 m/s	velocity	5.20	8.59	8.76	8.67	8.67	8.85	8.85	8.67	8.67	8.59	9.72	8.08		8.67	8.79	8.64

Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)

date	27-Aug-99	time	2.55	3.56	4.56	5.53	6.51	7.49	8.48	9.48	10.49	11.52		12.70	Sanchez (1999) - Sevilla '99: análisis de la carreras con villas			
reaction time	0.149	interval		1.01	1.00	0.97	0.98	0.98	0.99	1.00	1.01	1.03	1.18			2.98	2.95	3.04
wind	1.0 m/s	velocity	5.10	8.42	8.50	8.76	8.67	8.67	8.59	8.50	8.42	8.25	8.90	7.87		8.56	8.64	8.39

Quarter-Final 3 - 1999 IAAF World Championships (Sevilla, ESP)

date	26-Aug-99	time	2.51	3.51	4.50	5.47	6.46	7.42	8.40	9.39	10.38	11.40		12.53	Sanchez (1999) - Sevilla '99: análisis de la carreras con villas			

reaction time	0.145	interval	1.00	0.99	0.97	0.99	0.96	0.98	0.99	0.99	1.02	1.13			2.96	2.93	3.00
wind	-0.6 m/s	velocity	5.18	8.50	8.59	8.76	8.59	8.85	8.67	8.59	8.59	8.33	9.29	7.98	8.61	8.70	8.50

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

date	26-Aug-99	time	2.60	3.62	4.62	5.61	6.61	7.59	8.58	9.62	10.64	11.71		12.80	4 / 1			
reaction time	0.178	interval	1.02	1.00	0.99	1.00	0.98	0.99	1.04	1.02	1.07	1.09				3.01	2.97	3.13
wind	-0.1 m/s	velocity	5.00	8.33	8.50	8.59	8.50	8.67	8.59	8.17	8.33	7.94	9.63	7.81		8.47	8.59	8.15

FINAL - 1996 Olympic Games (Atlanta, GA)*Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	31-Jul-96	time	2.44	3.46	4.47	5.43	6.44	7.43	8.43	9.46	10.48	11.48		12.66	8 / 4			
reaction time	0.189	interval	1.02	1.01	0.96	1.01	0.99	1.00	1.03	1.02	1.00	1.18				2.99	3.00	3.05
wind	0.2 m/s	velocity	5.33	8.33	8.42	8.85	8.42	8.59	8.50	8.25	8.33	8.50	8.90	7.90		8.53	8.50	8.36

FINAL - 1996 USA Olympic Trials (Atlanta, GA)*USATF Women's Sprint Development (1996)*

date	23-Jun-96	time	2.26	3.28	4.28	5.26	6.24	7.21	8.20	9.20	10.22	11.32		12.62	2 / 1			
reaction time		interval	1.02	1.00	0.98	0.98	0.97	0.99	1.00	1.02	1.10	1.30				3.00	2.94	3.12
wind	0.6 m/s	velocity	5.75	8.33	8.50	8.67	8.67	8.76	8.59	8.50	8.33	7.73	8.08	7.92		8.50	8.67	8.17

FINAL - 1993 IAAF World Championships (Stuttgart, GER)*Graubner (2008) - http://www.fgs.uni-halle.de*

date	20-Aug-93	time	2.62	3.62	4.57	5.52	6.47	7.45	8.44	9.45	10.46	11.48		12.46	3 / 1			
reaction time	0.167	interval	1.00	0.95	0.95	0.95	0.98	0.99	1.01	1.01	1.02	0.98		AR		2.90	2.92	3.04
wind	0.2 m/s	velocity	4.96	8.50	8.95	8.95	8.95	8.67	8.59	8.42	8.42	8.33	10.71	8.03		8.79	8.73	8.39

*Devers-Roberts, Gail (USA) (1966)***Quarter-Final 3 - 1992 Olympic Games (Barcelona, ESP)***Lyle - miscellaneous coaching notes*

date	05-Aug-92	time	2.49	3.51	4.50	5.48	6.45	7.41	8.38	9.38	10.38	11.42		12.76	2 / 1			
reaction time		interval	1.02	0.99	0.98	0.97	0.96	0.97	1.00	1.00	1.04	1.34				2.99	2.90	3.04
wind	-0.7 m/s	velocity	5.22	8.33	8.59	8.67	8.76	8.85	8.76	8.50	8.50	8.17	7.84	7.84		8.53	8.79	8.39

Heat 2 - 1992 Olympic Games (Barcelona, ESP)*Lyle - miscellaneous coaching notes*

date	05-Aug-92	time	2.63	3.66	4.62	5.56	6.51	7.51	8.53	9.58	10.67	11.78		13.19	3 / 3			
reaction time		interval	1.03	0.96	0.94	0.95	1.00	1.02	1.05	1.09	1.11	1.41				2.93	2.97	3.25
wind	0.0 m/s	velocity	4.94	8.25	8.85	9.04	8.95	8.50	8.33	8.10	7.80	7.66	7.45	7.58		8.70	8.59	7.85

FINAL - 1991 IAAF World Championships (Tokyo, JPN)*Numazawa (1991) - analysis of time in the 3rd world athletics championships, women's 100m hurdles*

date	30-Aug-91	time	2.57	3.61	4.61	5.59	6.58	7.56	8.54	9.55	10.55	11.56		12.63	5 / 2			
reaction time	0.148	interval	1.04	1.00	0.98	0.99	0.98	0.98	1.01	1.00	1.01	1.07				3.02	2.95	3.02
wind	-1.7 m/s	velocity	5.06	8.17	8.50	8.67	8.59	8.67	8.67	8.42	8.50	8.42	9.81	7.92		8.44	8.64	8.44

Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	2.64	3.77	4.89	5.96	7.01	8.05	9.13	10.21	11.29	12.37		13.51	7 / 8			
reaction time	0.166	interval	1.13	1.12	1.07	1.05	1.04	1.08	1.08	1.08	1.08	1.14				3.32	3.17	3.24
wind	0.5 m/s	velocity	4.92	7.52	7.59	7.94	8.10	8.17	7.87	7.87	7.87	7.87	9.21	7.40		7.68	8.04	7.87

*di Lazzaro, Elisa Maria (ITA) (1998)***FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)***Henson (2022) - Athlete First: 2022 year end hurdle report*

date	09-Jun-22	time	2.53	3.63	4.63	5.65	6.65	7.67	8.67	9.70	10.73	11.83		13.10	9 / 9			
reaction time	0.143	interval	1.10	1.00	1.02	1.00	1.02	1.00	1.03	1.03	1.10	1.27				3.12	3.02	3.16
wind	0.1 m/s	velocity	5.14	7.73	8.50	8.33	8.50	8.33	8.50	8.25	8.25	7.73	7.91	7.63		8.17	8.44	8.07

Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	31-Jul-21	time	2.61	3.69	4.74	5.75	6.75	7.77	8.80	9.81	10.82	11.86		13.08	5 / 5			
reaction time		interval	1.08	1.05	1.01	1.00	1.02	1.03	1.01	1.01	1.04	1.22				3.14	3.05	3.06
wind	-1.1 m/s	velocity	4.98	7.87	8.10	8.42	8.50	8.33	8.25	8.42	8.42	8.17	8.24	7.65		8.12	8.36	8.33

FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	10-Jun-21	time	2.54	3.58	4.62	5.62	6.60							dnf	8 / --			
reaction time	0.143	interval	1.04	1.04	1.00	0.98										3.08		
wind	-0.8 m/s	velocity	5.12	8.17	8.17	8.50	8.67									8.28		

FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	17-Sep-20	time	2.56	3.62	4.64	5.66	6.68	7.68	8.68	9.70	10.74	11.80		13.05	8 / 6			
reaction time	0.135	interval	1.06	1.02	1.02	1.02	1.00	1.00	1.02	1.04	1.06	1.25		NUR PB		3.10	3.02	3.12
wind	0.1 m/s	velocity	5.08	8.02	8.33	8.33	8.33	8.50	8.50	8.33	8.17	8.02	8.04	7.66		8.23	8.44	8.17

FINAL - 2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	31-May-18	time	2.68	3.76	4.84	5.86	6.92	7.96	9.02	10.08	11.16	12.24		13.52	1 / 8			
reaction time	0.168	interval	1.08	1.08	1.02	1.06	1.04	1.06	1.06	1.08	1.08	1.28				3.18	3.16	3.22
wind	0.0 m/s	velocity	4.85	7.87	7.87	8.33	8.02	8.17	8.02	8.02	7.87	7.87	8.20	7.40		8.02	8.07	7.92

*Dickey, Cheryl (USA) (1966)***FINAL - 1996 USA Olympic Trials (Atlanta, GA)***USATF Women's Sprint Development (1996)*

date	23-Jun-96	time	2.36	3.43	4.40	5.40	6.36	7.33	8.32	9.32	10.33	11.36		12.76	6 / 3			
reaction time		interval	1.07	0.97	1.00	0.96	0.97	0.99	1.00	1.01	1.03	1.40				3.04	2.92	3.04

wind 0.6 m/s velocity 5.51 7.94 8.76 8.50 8.85 8.76 8.59 8.50 8.42 8.25 7.50 7.84 8.39 8.73 8.39

														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Dimitrova, Svetla (BUL) (1970)																					<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>								
FINAL - 2002 European Championships (Munich, GER)																													
date	09-Aug-02	time	2.70	3.78	4.78	5.78	6.80	7.78	8.96					13.75	/ 8														
reaction time	0.220	interval	1.08	1.00	1.00	1.02	0.98	1.18							3.08	3.18													
wind	-0.7 m/s	velocity	4.81	7.87	8.50	8.50	8.33	8.67	7.20					7.27			8.28	8.02											
Heat 5 - 2002 European Championships (Munich, GER)																					<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>								
date	08-Aug-02	time	2.69	3.74	4.75	5.76	6.74	7.78	8.76	9.77	10.81	11.88	13.02	/ 1															
reaction time	0.205	interval	1.05	1.01	1.01	0.98	1.04	0.98	1.01	1.04	1.07	1.14			3.07	3.00	3.12												
wind	1.1 m/s	velocity	4.83	8.10	8.42	8.42	8.67	8.17	8.67	8.42	8.17	7.94	9.21	7.68			8.31	8.50	8.17										
FINAL - 1999 IAAF World Championships (Sevilla, ESP)																					<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>								
date	28-Aug-99	time	2.63	3.65	4.65	5.62	6.61	7.57	8.53	9.53	10.55	11.58	12.75	8 / 5															
reaction time	0.149	interval	1.02	1.00	0.97	0.99	0.96	0.96	1.00	1.02	1.03	1.17			2.99	2.91	3.05												
wind	0.7 m/s	velocity	4.94	8.33	8.50	8.76	8.59	8.85	8.85	8.50	8.33	8.25	8.97	7.84			8.53	8.76	8.36										
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)																					<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>								
date	27-Aug-99	time	2.59	3.63	4.62	5.61	6.57	7.55	8.54	9.54	10.57	11.61	12.79	5 / 4															
reaction time	0.146	interval	1.04	0.99	0.99	0.96	0.98	0.99	1.00	1.03	1.04	1.18			3.02	2.93	3.07												
wind	1.0 m/s	velocity	5.02	8.17	8.59	8.59	8.85	8.67	8.59	8.50	8.25	8.17	8.90	7.82			8.44	8.70	8.31										
FINAL - 1998 European Championships (Budapest, HUN)																					<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>								
date	23-Aug-98	time	2.59	3.61	4.61	5.59	6.53	7.46	8.44	9.45	10.43	11.42	12.56	4 / 1															
reaction time		interval	1.02	1.00	0.98	0.94	0.93	0.98	1.01	0.98	0.99	1.14			3.00	2.85	2.98												
wind	1.5 m/s	velocity	5.02	8.33	8.50	8.67	9.04	9.14	8.67	8.42	8.67	8.59	9.21	7.96			8.50	8.95	8.56										
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	10-Aug-97	time	2.58	3.62	4.60	5.58	6.54	7.51	8.48	9.46	10.44	11.48	12.58	3 / 2															
reaction time	0.136	interval	1.04	0.98	0.98	0.96	0.97	0.97	0.98	0.98	1.04	1.10			3.00	2.90	3.00												
wind	-0.3 m/s	velocity	5.04	8.17	8.67	8.67	8.85	8.76	8.76	8.67	8.67	8.17	9.55	7.95			8.50	8.79	8.50										
Dixon, Vonette (JAM) (1975)																					<i>Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships</i>								
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)																													
date	13-Mar-10	time	2.68	3.68	4.66	5.66	6.64					7.99	6 / 6																
reaction time	0.269	interval	1.00	0.98	1.00	0.98					1.35			2.98															
		velocity	4.85	8.50	8.67	8.50	8.67					9.63	7.51			8.56													
Semi-Final 2 - 2008 Olympic Games (Beijing, CHN)																					<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>								
date	18-Aug-08	time	2.61	3.64	4.64	5.65	6.74	7.77	8.76	9.76	10.75	11.78	12.86	5 / 5															
reaction time	0.237	interval	1.03	1.00	1.01	1.09	1.03	0.99	1.00	0.99	1.03	1.08			3.04	3.11	3.02												
wind	0.2 m/s	velocity	4.98	8.25	8.50	8.42	7.80	8.25	8.59	8.50	8.59	8.25	9.72	7.78			8.39	8.20	8.44										
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)																					<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>								
date	22-Sep-07	time	2.64	3.66	4.68	5.67	6.67	7.68	8.68	9.72	10.74	11.79	12.90	7 / 5															
reaction time	0.212	interval	1.02	1.02	0.99	1.00	1.01	1.00	1.04	1.02	1.05	1.11			3.03	3.01	3.11												
wind	-0.3 m/s	velocity	4.92	8.33	8.33	8.59	8.50	8.42	8.50	8.17	8.33	8.10	9.46	7.75			8.42	8.47	8.20										
Dobrovolná, Kristyna (CZE) (1996)																					<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>								
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE)																													
date	28-Jun-14	time	2.88	4.08	5.29	6.49	7.73	8.96	10.19	11.46	12.72	14.00	15.44	6 / 5															
reaction time	0.152	interval	1.20	1.21	1.20	1.24	1.23	1.23	1.27	1.26	1.28	1.44			3.61	3.70	3.81												
wind	-3.9 m/s	velocity	4.51	7.08	7.02	7.08	6.85	6.91	6.91	6.69	6.75	6.64	7.29	6.48			7.06	6.89	6.69										
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE)																					<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>								
date	28-Jun-14	time	2.93	4.12	5.30	6.49	7.69	8.90	10.11	11.35	12.58	13.85	15.26	5 / 2															
reaction time	0.185	interval	1.19	1.18	1.19	1.20	1.21	1.21	1.24	1.23	1.27	1.41			3.56	3.62	3.74												
wind	-4.5 m/s	velocity	4.44	7.14	7.20	7.14	7.08	7.02	7.02	6.85	6.91	6.69	7.45	6.55			7.16	7.04	6.82										
Dobrynska, Nataliya (UKR) (1982)																					<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>								
Heptathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)																													
date	15-Aug-09	time	2.78	3.85	4.91	5.99	7.07	8.15	9.24	10.36	11.49	12.64	13.85	3 / 3															
reaction time	0.186	interval	1.07	1.06	1.08	1.08	1.08	1.09	1.12	1.13	1.15	1.21			3.21	3.25	3.40												
wind	-0.3 m/s	velocity	4.68	7.94	8.02	7.87	7.87	7.87	7.80	7.59	7.52	7.39	8.68	7.22			7.94	7.85	7.50										
Dokter, Sofie (NED) (2002)																					<i>Paris 2024 Olympic Games - Results Book (2024)</i>								
Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)																													
date	08-Aug-24	time	2.58	3.69	4.77	5.82	6.88	7.93	8.99	10.05	11.14	12.23	13.57	2 / 4															
reaction time	0.169	interval	1.11	1.08	1.05	1.06	1.05	1.06	1.06	1.09	1.09	1.34			3.24	3.17	3.24												
wind	0.1 m/s	velocity	5.04	7.66	7.87	8.10	8.02	8.10	8.02	8.02	7.80	7.80	7.50	7.37			7.87	8.04	7.87										
Heptathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																					<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>								

date	19-Aug-23	time	2.72	3.80	4.89	5.94	7.05	8.12	9.20	10.30	11.40	12.53		13.82	7 / 8			
reaction time	0.158	interval		1.08	1.09	1.05	1.11	1.07	1.08	1.10	1.10	1.13	1.29			3.22	3.26	3.33
wind	-0.2 m/s	velocity	4.78	7.87	7.80	8.10	7.66	7.94	7.87	7.73	7.73	7.52	7.79	7.24		7.92	7.82	7.66

Dong Jiaxin (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 Championships (Quzhou, CHN)														<i>Shandong Athletics Sport Science (2024)</i>			
date	16-Sep-24	time	2.67	3.75	4.80	5.82	6.87	7.92	8.97	10.06	11.18	12.31	13.57	2 / 7			
reaction time	0.184	interval		1.08	1.05	1.02	1.05	1.05	1.05	1.09	1.12	1.13	1.26		3.15	3.15	3.34
wind	0.6 m/s	velocity	4.87	7.87	8.10	8.33	8.10	8.10	8.10	7.80	7.59	7.52	7.98	7.37	8.10	8.10	7.63

FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)

date	30-Jun-24	time	2.62	3.74	4.81	5.84	6.89	7.94	9.01	10.07	11.16	12.30	13.56	3 / 6			
reaction time	0.175	interval		1.12	1.07	1.03	1.05	1.05	1.07	1.06	1.09	1.14	1.26		3.22	3.17	3.29
wind	0.2 m/s	velocity	4.96	7.59	7.94	8.25	8.10	8.10	7.94	8.02	7.80	7.46	7.98	7.37	7.92	8.04	7.75

Heat 1 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)

date	29-Jun-24	time	2.69	3.76	4.80	5.84	6.88	7.94	9.02	10.10	11.22	12.35	13.62	3 / 2			
reaction time	0.162	interval		1.07	1.04	1.04	1.04	1.06	1.08	1.08	1.12	1.13	1.27		3.15	3.18	3.33
wind	0.0 m/s	velocity	4.83	7.94	8.17	8.17	8.17	8.02	7.87	7.87	7.59	7.52	7.91	7.34	8.10	8.02	7.66

FINAL - 2023 Chinese Indoor National Championships (Tianjin, CHN)

date	16-Mar-23	time	2.74	3.82	4.89	5.96	7.00						8.48	2 / 6			
reaction time	0.183	interval		1.08	1.07	1.07	1.04					1.48	PB		3.22		
		velocity	4.74	7.87	7.94	7.94	8.17					8.78	7.08		7.92		

Heat 2 - 2023 Chinese Indoor National Championships (Tianjin, CHN)

date	16-Mar-23	time	2.72	3.82	4.90	6.00	7.07						8.53	2 / 4			
reaction time	0.151	interval		1.10	1.08	1.10	1.07					1.46			3.28		
		velocity	4.78	7.73	7.87	7.73	7.94					8.90	7.03		7.77		

Donkova, Yordanka (BUL) (1961)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 1992 Olympic Games (Barcelona, ESP)														<i>Lyle - miscellaneous coaching notes</i>			
date	05-Aug-92	time	2.61	3.65	4.67	5.66	6.64	7.61	8.59	9.61	10.67	11.74	12.96	3 / 1			
reaction time		interval		1.04	1.02	0.99	0.98	0.97	0.98	1.02	1.06	1.07	1.22		3.05	2.93	3.15
wind	-0.3 m/s	velocity	4.98	8.17	8.33	8.59	8.67	8.76	8.67	8.33	8.02	7.94	8.61	7.72	8.36	8.70	8.10

FINAL - 1988 Olympic Games (Seoul, KOR)

date	30-Sep-88	time	2.54	3.55	4.52	5.50	6.46	7.42	8.38	9.34	10.31	11.32	12.38	5 / 1			
reaction time	0.150	interval		1.01	0.97	0.98	0.96	0.96	0.96	0.96	0.97	1.01	1.06		2.96	2.88	2.94
wind	0.2 m/s	velocity	5.12	8.42	8.76	8.67	8.85	8.85	8.85	8.85	8.76	8.42	9.91	8.08	8.61	8.85	8.67

*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988***Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)**

date	29-Sep-88	time	2.56	3.60	4.58	5.57	6.53	7.49	8.45	9.44	10.45	11.45	12.58	6 / 1			
reaction time	0.171	interval		1.04	0.98	0.99	0.96	0.96	0.96	0.99	1.01	1.00	1.13		3.01	2.88	3.00
wind	0.5 m/s	velocity	5.08	8.17	8.67	8.59	8.85	8.85	8.85	8.59	8.42	8.50	9.29	7.95	8.47	8.85	8.50

*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988***FINAL - 1988 (Stara Zagova, BUL)**

date	20-Aug-88	time	2.50	3.49	4.42	5.34	6.24	7.19	8.16	9.14	10.11	11.14	12.21	1 / 1				
reaction time		interval		0.99	0.93	0.92	0.90	0.95	0.97	0.98	0.97	1.03	1.07		WR	2.84	2.82	2.98
wind	0.7 m/s	velocity	5.20	8.59	9.14	9.24	9.44	8.95	8.76	8.67	8.76	8.25	9.81	8.19	8.98	9.04	8.56	

*Vazel (2016) - Analysis of Keni Harrison's World Record 100m Hurdles Race***FINAL - 1987 European Cup (Prague, TCH)**

date	28-Jun-87	time	2.57	3.59	4.57	5.56	6.52	7.48	8.44	9.44	10.47	11.47	12.53	7 / 2			
reaction time		interval		1.02	0.98	0.99	0.96	0.96	0.96	1.00	1.03	1.00	1.06		2.99	2.88	3.03
wind	-0.9 m/s	velocity	5.06	8.33	8.67	8.59	8.85	8.85	8.85	8.50	8.25	8.50	9.91	7.98	8.53	8.85	8.42

*Sušanka (1987) - hints on computer processing of biomechanical data***FINAL - 1986 Balkan Games (Ljubljana, YUG)**

date	07-Sep-86	time	2.43	3.43	4.39	5.36	6.31	7.26	8.22	9.19	10.16	11.17	12.26	1 / 1				
reaction time		interval		1.00	0.96	0.97	0.95	0.95	0.96	0.97	0.97	1.01	1.09		WR	2.93	2.86	2.95
wind	1.5 m/s	velocity	5.35	8.50	8.85	8.76	8.95	8.95	8.85	8.76	8.76	8.42	9.63	8.16	8.70	8.92	8.64	

*Čoh (1987) Analiza svetovnega rekorda teka na 100m z ovirami Jordanke Donkove***Dostálová, Veronika (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 - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE)														<i>Feher (2015) - Final report the U18 & U20 Czech Republic indoor national championships</i>			
date	14-Feb-15	time	2.98	4.21	5.41	6.66	7.93						9.68	7 / 7			
reaction time	0.369	interval		1.23	1.20	1.25	1.27					1.75			3.68		
		velocity	4.36	6.91	7.08	6.80	6.69					7.43	6.20		6.93		

FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)

date	28-Jun-14	time	2.81	3.98	5.13	6.28	7.42	8.60	9.78	10.98	12.20	13.50	14.87	2 / 6			
reaction time	0.214	interval		1.17	1.15	1.15	1.14	1.18	1.18	1.20	1.22	1.30	1.37		3.47	3.50	3.72
wind	-3.6 m/s	velocity	4.63	7.26	7.39	7.39	7.46	7.20	7.20	7.08	6.97	6.54	7.66	6.72	7.35	7.29	6.85

*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships***Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)***Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.84	3.99	5.12	6.24	7.39	8.51	9.65	10.86	12.03	13.22	14.55	4 / 2					
reaction time	0.371	interval		1.15	1.13	1.12	1.15	1.12	1.14	1.21	1.17	1.19	1.33		3.40	3.41	3.57		
wind	-1.8 m/s	velocity	4.58	7.39	7.52	7.59	7.39	7.59	7.46	7.02	7.26	7.14	7.89	6.87	7.50	7.48	7.14		
Du Juan (CHN) (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 - 1987 Chinese National Games (Guangzhou, CHN)													<i>Xia (1990) - analysis of Liu Huajin's technical features in breaking the Asian 100m hurdles record</i>						
date	25-Nov-87	time	2.57	3.57	4.62	5.66	6.70	7.72	8.76	9.80	10.85	11.97	13.17	1 / 2					
reaction time		interval		1.00	1.05	1.04	1.04	1.02	1.04	1.04	1.05	1.12	1.20	PB		3.09	3.10	3.21	
wind	-0.3 m/s	velocity	5.06	8.50	8.10	8.17	8.17	8.33	8.17	8.17	8.10	7.59	8.75	7.59		8.25	8.23	7.94	
Du Yan (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)													<i>CAA Hurdle Development (2021)</i>						
date	24-Jun-21	time	3.02	4.24	5.47	6.72	7.96	9.21	10.44	11.76	13.03	14.31	15.67	6 / 5					
reaction time	0.259	interval		1.22	1.23	1.25	1.24	1.25	1.23	1.32	1.27	1.28	1.36			3.70	3.72	3.87	
wind	0.6 m/s	velocity	4.30	6.97	6.91	6.80	6.85	6.80	6.91	6.44	6.69	6.64	7.39	6.38		6.89	6.85	6.59	
Duchonová, Andrea (CZE) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)													<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national championships</i>						
date	14-Feb-15	time	2.81	4.00	5.19	6.35	7.50						9.09	1 / 7					
reaction time	0.157	interval		1.19	1.19	1.16	1.15						1.59			3.54			
		velocity	4.63	7.14	7.14	7.33	7.39						8.18			7.20			
Duncan, Alexis (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 - 2016 IAAF World Junior Championships (Bydgoszcz, POL)													<i>(2016.07.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>						
date	24-Jul-16	time	2.57	3.60	4.62	5.61	6.61	7.62	8.65	9.70	10.72	11.78	12.93	6 / 4					
reaction time	0.159	interval		1.03	1.02	0.99	1.00	1.01	1.03	1.05	1.02	1.06	1.15	PB		3.04	3.04	3.13	
wind	2.0 m/s	velocity	5.06	8.25	8.33	8.59	8.50	8.42	8.25	8.10	8.33	8.02	9.13	7.73		8.39	8.39	8.15	
FINAL - 2018 South Eastern Conference Championships (Knoxville, TN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>						
date	13-May-18	time	2.50	3.54	4.57	5.53	6.55	7.53	8.53	9.53	10.56	11.56	12.79	4 / 2					
reaction time		interval		1.04	1.03	0.96	1.02	0.98	1.00	1.00	1.03	1.00	1.23	PB		3.03	3.00	3.03	
wind	1.2 m/s	velocity	5.20	8.17	8.25	8.85	8.33	8.67	8.50	8.50	8.25	8.50	8.54	7.82		8.42	8.50	8.42	
DuPree, Ryanne (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)													<i>USATF Women's Sprint Development (2003)</i>						
date	22-Jun-03	time	2.69	3.82	4.96	6.04	7.14	8.22	9.33	10.43	11.55	12.65	13.98	2 / 6					
reaction time		interval		1.13	1.14	1.08	1.10	1.08	1.11	1.10	1.12	1.10	1.33			3.35	3.29	3.32	
wind	2.3 m/s	velocity	4.83	7.52	7.46	7.87	7.73	7.87	7.66	7.73	7.59	7.73	7.89	7.15		7.61	7.75	7.68	
Dutkiewicz, Pamela (GER) (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 ISTAF Indoor (Berlin, GER) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>						
date	1-Feb-19	time	2.54	3.56	4.56	5.54	6.52						7.89	4 / 1					
reaction time	0.121	interval		1.02	1.00	0.98	0.98						1.37			3.00			
		velocity	5.12	8.33	8.50	8.67	8.67						9.49			8.50			
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)													<i>Henson (2021) - Athlete First: 2018 year end hurdle report</i>						
date	08-Sep-18	time	2.52	3.52	4.52	5.52	6.50	7.50	8.50	9.48	10.50	11.56	12.82	2 / 3					
reaction time	0.163	interval		1.00	1.00	1.00	0.98	1.00	1.00	0.98	1.02	1.06	1.26			3.00	2.98	3.06	
wind	-0.1 m/s	velocity	5.16	8.50	8.50	8.50	8.67	8.50	8.50	8.67	8.33	8.02	8.33	7.80		8.50	8.56	8.33	
FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>						
date	13-Jul-18	time	2.56	3.56	4.58	5.58	6.58	7.56	8.54	9.54	10.56	11.60	12.89	4 / 6					
reaction time	0.168	interval		1.00	1.02	1.00	1.00	0.98	0.98	1.00	1.02	1.04	1.29			3.02	2.96	3.06	
wind	0.1 m/s	velocity	5.08	8.50	8.33	8.50	8.50	8.67	8.67	8.50	8.33	8.17	8.14	7.76		8.44	8.61	8.33	
FINAL - 2018 Spitzen Leichtathletik (Luzern, SUI) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>						
date	09-Jul-18	time	2.56	3.56	4.54	5.52	6.48	7.48	8.46	9.44	10.48	11.50	12.67	2 / 2					
reaction time		interval		1.00	0.98	0.98	0.96	1.00	0.98	0.98	1.04	1.02	1.17			2.96	2.94	3.04	
wind	0.9 m/s	velocity	5.08	8.50	8.67	8.67	8.85	8.50	8.67	8.67	8.17	8.33	8.97	7.89		8.61	8.67	8.39	
FINAL - 2017 IAAF World Championships (London, GBR)													<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>						
date	12-Aug-17	time	2.46	3.51	4.50	5.48	6.45	7.43	8.42	9.44	10.44	11.47	12.72	5 / 3					
reaction time	0.143	interval		1.05	0.99	0.98	0.97	0.98	0.99	1.02	1.00	1.03	1.25			3.02	2.94	3.05	
wind	0.1 m/s	velocity	5.28	8.10	8.59	8.67	8.76	8.67	8.59	8.33	8.50	8.25	8.40	7.86		8.44	8.67	8.36	
Semi-Final 3 - 2017 IAAF World Championships (London, GBR)													<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>						
date	11-Aug-17	time	2.48	3.52	4.53	5.51	6.48	7.47	8.46	9.44	10.42	11.45	12.71	4 / 2					
reaction time	0.156	interval		1.04	1.01	0.98	0.97	0.99	0.99	0.98	0.98	1.03	1.26			3.03	2.95	2.99	
wind	0.2 m/s	velocity	5.24	8.17	8.42	8.67	8.76	8.59	8.59	8.67	8.67	8.25	8.33	7.87		8.42	8.64	8.53	
FINAL - 2017 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)													<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>						
date	21-Jul-17	time	2.62	3.66	4.66	5.66	6.64	7.62	8.60	9.62	10.64	11.66	12.82	8 / 7					
reaction time	0.149	interval		1.04	1.00	1.00	0.98	0.98	0.98	1.02	1.02	1.02	1.16			3.04	2.94	3.06	

wind	-0.2 m/s	velocity	4.96	8.17	8.50	8.50	8.67	8.67	8.67	8.33	8.33	8.33	9.05	7.80	8.39	8.67	8.33
FINAL - 2017 Bislett Games (Oslo, NOR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	15-Jun-17	time	2.54	3.54	4.56	5.54	6.52	7.50	8.54	9.52	10.52	11.54		12.73	4 / 1		
reaction time	0.127	interval		1.00	1.02	0.98	0.98	0.98	1.04	0.98	1.00	1.02	1.19		3.00	3.00	3.00
wind	0.8 m/s	velocity	5.12	8.50	8.33	8.67	8.67	8.67	8.17	8.67	8.50	8.33	8.82	7.86	8.50	8.50	8.50

FINAL - 2016 European Championships (Amsterdam, NED) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>							
date	07-Jul-16	time	2.60		dnf													9 / --		
reaction time	0.145	interval																		
wind	-0.7 m/s	velocity	5.00																	

Dvoráková, Katerina (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 - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE)													<i>Feher (2015) - Final report the U18 & U20 Czech Republic indoor national championships</i>					
date	14-Feb-15	time	2.81	3.94	5.05	6.15	7.26							8.67	5 / 1			
reaction time	0.146	interval		1.13	1.11	1.10	1.11							1.41		3.34		
wind		velocity	4.63	7.52	7.66	7.73	7.66							9.22	6.92	7.63		

FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)													<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	2.84	3.97	5.08	6.18	7.30	8.40	9.52	10.66	11.80	12.98		14.24	4 / 4		
reaction time	0.168	interval		1.13	1.11	1.10	1.12	1.10	1.12	1.14	1.14	1.18	1.26		3.34 3.34 3.46		
wind	-3.6 m/s	velocity	4.58	7.52	7.66	7.73	7.59	7.73	7.59	7.46	7.46	7.20	8.33	7.02	7.63 7.63 7.37		

Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)													<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	2.82	3.95	5.03	6.14	7.23	8.31	9.43	10.53	11.65	12.78		14.04	1 / 1		
reaction time	0.174	interval		1.13	1.08	1.11	1.09	1.08	1.12	1.10	1.12	1.13	1.26		3.32 3.29 3.35		
wind	-1.8 m/s	velocity	4.61	7.52	7.87	7.66	7.80	7.87	7.59	7.73	7.59	7.52	8.33	7.12	7.68 7.75 7.61		

Dyer, Danae (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 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	28-Jun-24	time	2.60	3.62	4.64	5.66	6.70	7.70	8.73	9.76	10.76	11.84		13.02	4 / 5			
reaction time		interval		1.02	1.02	1.02	1.04	1.00	1.03	1.03	1.00	1.08	1.18		3.06 3.07 3.11			
wind	1.7 m/s	velocity	5.00	8.33	8.33	8.33	8.17	8.50	8.25	8.25	8.50	7.87	8.52	7.68	8.33 8.31 8.20			

FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)													<i>CAA Hurdle Development (2020)</i>					
date	01-Feb-20	time	2.65	3.75	4.77	5.82	6.86							8.24	5 / 1			
reaction time		interval		1.10	1.02	1.05	1.04							1.38	PB	3.17		
wind		velocity	4.91	7.73	8.33	8.10	8.17							9.42	7.28	8.04		

Heat 1 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)													<i>CAA Hurdle Development (2020)</i>					
date	01-Feb-20	time	2.67	3.74	4.80	5.84	6.86							8.27	5 / 1			
reaction time		interval		1.07	1.06	1.04	1.02							1.41	PB	3.17		
wind		velocity	4.87	7.94	8.02	8.17	8.33							9.22	7.26	8.04		

Egashira, Ami (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) (76cm)													<i>(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	21-Oct-16	time	2.73	3.82	4.92	6.01	7.09	8.18	9.29	10.42	11.58	12.79		14.12	4 / 2			
reaction time		interval		1.09	1.10	1.09	1.08	1.09	1.11	1.13	1.16	1.21	1.33		3.28 3.28 3.50			
wind	1.3 m/s	velocity	4.76	7.34	7.27	7.34	7.41	7.34	7.21	7.08	6.90	6.61	11.28	7.08	7.32 7.32 6.86			

Ehrhardt, Anneliese (GDR) (1950)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1973 East German National Championships (Dresden, GDR)													<i>Tepper (1978) - Analyse der Trainingsgestaltung und Leistungsentwicklung in den Sprintdisziplinen der M und F</i>					
date	22-Jul-73	time	2.61	3.66	4.66	5.65	6.64	7.62	8.60	9.58	10.56	11.55		12.67	/ 1			
reaction time		interval		1.05	1.00	0.99	0.99	0.98	0.98	0.98	0.98	0.99	1.12		(12.3) 3.04 2.95 2.95			
wind	1.5 m/s	velocity	4.98	8.10	8.50	8.59	8.59	8.67	8.67	8.67	8.67	8.59	9.38	7.89	WR	8.39 8.64 8.64		

FINAL - 1972 Olympic Games (Munich, FRG)													<i>Kay (1972) - BAAB Munich Technical Report</i>				
date	08-Sep-72	time	2.5	3.6	4.6	5.6	6.5	7.5	8.5	9.5	10.4	11.5		12.59	6 / 1		
reaction time		interval		1.10	1.00	1.00	0.90	1.00	1.00	1.00	0.90	1.10	1.09	WR	3.10 2.90 3.00		
wind	-0.6 m/s	velocity	5.20	7.73	8.50	8.50	9.44	8.50	8.50	8.50	9.44	7.73	9.63	7.94	8.23 8.79 8.50		

Ellenwood, Georgia (CAN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	04-Aug-21	time	2.72	3.80	4.86	5.94	7.03	8.05	9.07	10.15	11.20	12.26		13.47	5 / 5			
reaction time	0.158	interval		1.08	1.06	1.08	1.09	1.02	1.02	1.08	1.05	1.06	1.21		3.22 3.13 3.19			
wind	0.3 m/s	velocity	4.78	7.87	8.02	7.87	7.80	8.33	8.33	7.87	8.10	8.02	8.31	7.42	7.92 8.15 7.99			

FINAL - 2020 Millrose Games (New York, NY)													<i>PrimeTime Timing (2020) - http://results.nyrrmillrosegames.org/</i>					
date	08-Feb-20	time	2.71	3.82	4.88	5.92	6.97							8.47	2 / 8			
reaction time	0.234	interval		1.11	1.06	1.04	1.05							1.50	PB	3.21		
wind		velocity	4.80	7.66	8.02	8.17	8.10							8.67	7.08	7.94		

Elloy, Laurence (FRA) (1959)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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reaction time	interval	1.04	1.01	0.99	0.98	1.00	1.02	1.04	1.07	1.13	1.20			3.04	3.00	3.24	
wind	-1.5 m/s	velocity	5.08	8.17	8.42	8.59	8.67	8.50	8.33	8.17	7.94	7.52	8.75	7.67	8.39	8.50	7.87

FINAL - 1991 IAAF World Championships (Tokyo, JPN)*Numazawa (1991) - analysis of time in the 3rd world athletics championships, women's 100m hurdles*

date	30-Aug-91	time	2.62	3.62	4.61	5.59	6.56	7.55	8.51	9.50	10.50	11.50	12.59		4 / 1			
reaction time	0.147	interval	1.00	0.99	0.98	0.97	0.99	0.96	0.99	1.00	1.00	1.09			2.97	2.92	2.99	
wind	-1.7 m/s	velocity	4.96	8.50	8.59	8.67	8.76	8.59	8.85	8.59	8.50	8.50	9.63	7.94		8.59	8.73	8.53

*Narozhilenko, Ludmila (URS) (1964)***FINAL - 1991 USSR National Championships (Kiev, URS)***Stepanov (2004) - speed and (or?) technique: gail devers and others (in Jarver (ed) - the hurdles, 2004)*

date	11-Jul-91	time	2.58	3.57	4.54	5.50	6.44	7.38	8.33	9.30	10.28	11.28	12.28		/ 1			
reaction time		interval	0.99	0.97	0.96	0.94	0.94	0.94	0.95	0.97	0.98	1.00	1.00	PB		2.92	2.83	2.95
wind	1.8 m/s	velocity	5.04	8.59	8.76	8.85	9.04	9.04	8.95	8.76	8.67	8.50	10.50	8.14		8.73	9.01	8.64

FINAL - 1991 European Cup (Frankfurt, GER)*Graubner (2008) - http://www.fgs.uni-halle.de*

date	30-Jun-91	time	2.63	3.64	4.63	5.61	6.59	7.55	8.53	9.51	10.49	11.48	12.55		/ 1			
reaction time		interval	1.01	0.99	0.98	0.98	0.96	0.98	0.98	0.98	0.98	0.99	1.07			2.98	2.92	2.95
wind	-2.1 m/s	velocity	4.94	8.42	8.59	8.67	8.67	8.85	8.67	8.67	8.67	8.59	9.81	7.97		8.56	8.73	8.64

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

date	09-Sep-89	time	2.64	3.66	4.66	5.66	6.66	7.66	8.69	9.70	10.72	11.76	12.80		/ 2			
reaction time		interval	1.02	1.00	1.00	1.00	1.00	1.03	1.01	1.02	1.04	1.04				3.02	3.03	3.07
wind	-0.3 m/s	velocity	4.92	8.33	8.50	8.50	8.50	8.50	8.25	8.42	8.33	8.17	10.10	7.81		8.44	8.42	8.31

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	2.67	3.71	4.71	5.70	6.67	7.65	8.63	9.63	10.63		dnf		5 / --		
reaction time	0.163	interval	1.04	1.00	0.99	0.97	0.98	0.98	1.00	1.00						3.03	2.93
wind	0.4 m/s	velocity	4.87	8.17	8.50	8.59	8.76	8.67	8.67	8.50	8.50					8.42	8.70

Ennis-Hill, Jessica (GBR) (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 London Anniversary Games (London, GBR) (TV Analysis)***Henson (2020) - Athlete First: 2016 year end hurdle report*

date	22-Jul-16	time	2.58	3.60	4.62	5.62	6.62	7.64	8.64	9.70	10.80	11.86	13.04		8 / 8			
reaction time	0.155	interval	1.02	1.02	1.00	1.00	1.02	1.00	1.06	1.10	1.06	1.18				3.04	3.02	3.22
wind	0.3 m/s	velocity	5.04	8.33	8.33	8.50	8.50	8.33	8.50	8.02	7.73	8.02	8.90	7.67		8.39	8.44	7.92

Heat 1 - 2016 London Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	22-Jul-16	time	2.58	3.60	4.60	5.60	6.60	7.60	8.58	9.60	10.60	11.64	12.76		9 / 3			
reaction time	0.152	interval	1.02	1.00	1.00	1.00	1.00	0.98	1.02	1.00	1.04	1.12				3.02	2.98	3.06
wind	0.3 m/s	velocity	5.04	8.33	8.50	8.50	8.50	8.50	8.67	8.33	8.50	8.17	9.38	7.84		8.44	8.56	8.33

*Ennis, Jessica (GBR) (1986)***Heptathlon - Heat 5 - 2012 Olympic Games (London, GBR)***Hollman (2012) - uka 2012 olympic games report: combined events*

date	03-Aug-12	time	2.66	3.68	4.64	5.62	6.60	7.58	8.54	9.52	10.52	11.54	12.54		8 / 1			
reaction time	0.180	interval	1.02	0.96	0.98	0.98	0.98	0.96	0.98	1.00	1.02	1.00	NR			2.96	2.92	3.00
wind	1.3 m/s	velocity	4.89	8.33	8.85	8.67	8.67	8.67	8.85	8.67	8.50	8.33	10.50	7.97		8.61	8.73	8.50

FINAL - 2012 British National Championships (Birmingham, GBR)*Hollman (2012) - uka 2012 olympic games report: combined events*

date	23-Jun-12	time	2.66	3.68	4.82	5.84	6.83	7.82	8.81	9.80	10.80	11.80	12.92		/ 1			
reaction time	0.217	interval	1.02	1.14	1.02	0.99	0.99	0.99	0.99	1.00	1.00	1.12				3.18	2.97	2.99
wind	0.3 m/s	velocity	4.89	8.33	7.46	8.33	8.59	8.59	8.59	8.59	8.50	8.50	9.38	7.74		8.02	8.59	8.53

Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	2.65	3.70	4.72	5.73	6.74	7.74	8.76	9.78	10.82	11.86	12.93		6 / 1			
reaction time	0.155	interval	1.05	1.02	1.01	1.01	1.00	1.02	1.02	1.04	1.04	1.07				3.08	3.03	3.10
wind	-0.4 m/s	velocity	4.91	8.10	8.33	8.42	8.42	8.50	8.33	8.33	8.17	8.17	9.81	7.73		8.28	8.42	8.23

Ennis-London, Delloreen (JAM) (1971)**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	19-Aug-09	time	2.60	3.60	4.58	5.54	6.50	7.47	8.44	9.43	10.44	11.46	12.55		8 / 3			
reaction time	0.142	interval	1.00	0.98	0.96	0.96	0.97	0.97	0.99	1.01	1.02	1.09				2.94	2.90	3.02
wind	0.2 m/s	velocity	5.00	8.50	8.67	8.85	8.85	8.76	8.76	8.59	8.42	8.33	9.63	7.97		8.67	8.79	8.44

Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.60	3.60	4.61	5.58	6.56	7.53	8.51	9.50	10.50	11.52	12.64		4 / 2			
reaction time	0.141	interval	1.00	1.01	0.97	0.98	0.97	0.98	0.99	1.00	1.02	1.12				2.98	2.93	3.01
wind	-0.1 m/s	velocity	5.00	8.50	8.42	8.76	8.67	8.76	8.67	8.59	8.50	8.33	9.37	7.91		8.56	8.70	8.47

Heat 1 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	2.62	3.64	4.66	5.65	6.63	7.62	8.60	9.60	10.59	11.62	12.73		3 / 2			
reaction time	0.159	interval	1.02	1.02	0.99	0.98	0.99	0.98	1.00	0.99	1.03	1.11				3.03	2.95	3.02
wind	0.1 m/s	velocity	4.96	8.33	8.33	8.59	8.67	8.59	8.67	8.50	8.59	8.25	9.46	7.86		8.42	8.64	8.44

FINAL - 2009 ISTAF (Berlin, GER)*Graubner (2008) - http://www.fgs.uni-halle.de*

date	14-Jun-09	time	2.62	3.65	4.68	5.67	6.65	7.68	8.67	9.70	10.75	11.83	12.98		/ 2			
reaction time	0.145	interval	1.03	1.03	0.99	0.98	1.03	0.99	1.03	1.05	1.08	1.15				3.05	3.00	3.16

wind	-0.1 m/s	velocity	4.96	8.25	8.25	8.59	8.67	8.25	8.59	8.25	8.10	7.87	9.13	7.70	8.36	8.50	8.07
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FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)Graubner (2009) - <http://www.fgs.uni-halle.de>

date	13-Sep-08	time	2.59	3.60	4.60	5.59	6.55	7.52	8.50	9.46	10.45	11.45	12.56	7 / 3-2	3.00	2.91	2.95
reaction time	0.148	interval	1.01	1.00	0.99	0.96	0.97	0.98	0.96	0.99	1.00	1.11			8.50	8.76	8.64
wind	0.3 m/s	velocity	5.02	8.42	8.50	8.59	8.85	8.76	8.67	8.85	8.50	9.46	7.96				

FINAL - 2008 Olympic Games (Beijing, CHN)Tsiokanos (2017) - *race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	19-Aug-08	time	2.59	3.59	4.62	5.55	6.52	7.52	8.52	9.47	10.48	11.53	12.66	5 / 5	2.96	2.97	3.01
reaction time	0.151	interval	1.00	1.03	0.93	0.97	1.00	1.00	0.95	1.01	1.05	1.13			8.61	8.59	8.47
wind	0.1 m/s	velocity	5.02	8.50	8.25	9.14	8.76	8.50	8.50	8.95	8.42	8.10	9.29	7.90			

Semi-Final 1 - 2008 Olympic Games (Beijing, CHN)Tsiokanos (2017) - *race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	18-Aug-08	time	2.56	3.58	4.56	5.55	6.54	7.49	8.46	9.47	10.49	11.51	12.67	5 / 2	2.99	2.91	3.05
reaction time	0.145	interval	1.02	0.98	0.99	0.99	0.95	0.97	1.01	1.02	1.02	1.16			8.53	8.76	8.36
wind	0.2 m/s	velocity	5.08	8.33	8.67	8.59	8.59	8.95	8.76	8.42	8.33	8.33	9.05	7.89			

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

date	22-Sep-07	time	2.60	3.63	4.64	5.62	6.60	7.57	8.56	9.56	10.56	11.59	12.72	3 / 3	3.02	2.94	3.03
reaction time	0.159	interval	1.03	1.01	0.98	0.98	0.97	0.99	1.00	1.00	1.03	1.13			8.44	8.67	8.42
wind	-0.3 m/s	velocity	5.00	8.25	8.42	8.67	8.67	8.76	8.59	8.50	8.50	8.25	9.29	7.86			

FINAL - 2007 IAAF World Championships (Osaka, JPN)Ae (2008) - *IAAF biomechanics team - a booklet of biomechanics data*

date	29-Aug-07	time	2.42	3.45	4.41	5.38	6.33	7.28	8.27	9.26	10.27	11.25	12.50	3 / 3	2.96	2.89	2.98
reaction time	0.116	interval	1.03	0.96	0.97	0.95	0.95	0.99	0.99	1.01	0.98	1.25	PB		8.61	8.82	8.56
wind	-0.1 m/s	velocity	5.37	8.25	8.85	8.76	8.95	8.95	8.59	8.59	8.42	8.67	8.40	8.00			

FINAL - 2000 ISTAF (Berlin, GER)Graubner (2009) - <http://www.fgs.uni-halle.de>

date	01-Sep-00	time	2.60	3.64	4.66	5.66	6.65	7.66	8.66	9.66	10.70	11.74	12.88	/ 4	3.06	3.00	3.08
reaction time	0.170	interval	1.04	1.02	1.00	0.99	1.01	1.00	1.00	1.00	1.04	1.04	1.14		8.33	8.50	8.28
wind	-0.2 m/s	velocity	5.00	8.17	8.33	8.50	8.59	8.42	8.50	8.50	8.17	8.17	9.21	7.76			

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

date	28-Aug-99	time	2.54	3.55	4.54	5.53	6.53	7.52	8.54	9.56	10.60	11.68	12.87	2 / 7	2.99	3.01	3.14
reaction time	0.148	interval	1.01	0.99	0.99	1.00	0.99	1.02	1.02	1.02	1.04	1.08	1.19		8.53	8.47	8.12
wind	0.7 m/s	velocity	5.12	8.42	8.59	8.59	8.50	8.59	8.33	8.33	8.17	7.87	8.82	7.77			

Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)Sanchez (1999) - *Sevilla '99: análisis de la carreras con villas*

date	27-Aug-99	time	2.52	3.54	4.53	5.51	6.53	7.53	8.53	9.54	10.56	11.58	12.81	1 / 4	2.99	3.02	3.05
reaction time	0.151	interval	1.02	0.99	0.98	1.02	1.00	1.00	1.01	1.02	1.02	1.23			8.53	8.44	8.36
wind	1.9 m/s	velocity	5.16	8.33	8.59	8.67	8.33	8.50	8.50	8.42	8.33	8.33	8.54	7.81			

Eriksson, Malin (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 - 2012 Windsprint (Sundsvall, SWE)Blomkvist (2012) - www.sub13.se

date	17-Jun-12	time	2.78	3.89	4.97	6.06	7.13	8.23	9.34	10.48	11.61	12.77	14.11	/ 4	3.28	3.28	3.43
reaction time		interval	1.11	1.08	1.09	1.07	1.10	1.11	1.14	1.13	1.16	1.34			7.77	7.77	7.43
wind	0.8 m/s	velocity	4.68	7.66	7.87	7.80	7.94	7.73	7.66	7.46	7.52	7.33	7.84	7.09			

Errandonea, Teresa (ESP) (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 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)Henson (2024) - *Athlete First: 2021 year end hurdle report*

date	31-Jul-21	time	2.61	3.66	4.66	5.66	6.67	7.72	8.76	9.81	10.85	11.95	13.15	2 / 6	3.05	3.10	3.19
reaction time		interval	1.05	1.00	1.00	1.01	1.05	1.04	1.05	1.04	1.10	1.20			8.36	8.23	7.99
wind	-1.1 m/s	velocity	4.98	8.10	8.50	8.50	8.42	8.10	8.17	8.10	8.17	7.73	8.37	7.60			

Eurenus, Isabelle (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	2.86	3.99	5.11	6.23	7.38	8.53	9.70	10.87	12.11	13.49	14.97	/ 8	3.37	3.47	3.79
reaction time		interval	1.13	1.12	1.12	1.15	1.15	1.17	1.17	1.24	1.38	1.48			7.57	7.35	6.73
wind	-0.2 m/s	velocity	4.55	7.52	7.59	7.59	7.39	7.39	7.26	7.26	6.85	6.16	7.09	6.68			

Ewanjé-Épée, Monique (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)Graubner (2008) - <http://www.fgs.uni-halle.de>

date	30-Jun-91	time	2.59	3.64	4.64	5.64	6.64	7.63	8.63	9.62	10.62	11.64	12.79	/ 2	3.05	2.99	3.01
reaction time		interval	1.05	1.00	1.00	1.00	0.99	1.00	0.99	1.00	1.02	1.15			8.36	8.53	8.47
wind	-2.1 m/s	velocity	5.02	8.10	8.50	8.50	8.50	8.59	8.50	8.59	8.50	8.33	9.13	7.82			

FINAL - 1988 Olympic Games (Seoul, KOR)Brüggemann (1990) - *scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	30-Sep-88	time	2.61	3.69	4.82	5.84	6.86	7.88	8.90	9.90	10.94	11.98	13.14	7 / 7	3.23	3.06	3.08
reaction time	0.161	interval	1.08	1.13	1.02	1.02	1.02	1.02	1.00	1.04	1.04	1.16			7.89	8.33	8.28
wind	0.2 m/s	velocity	4.98	7.87	7.52	8.33	8.33	8.33	8.33	8.50	8.17	8.17	9.05	7.61			

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)Brüggemann (1990) - *scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	2.67	3.71	4.75	5.75	6.75	7.75	8.75	9.78	10.79	11.84	12.95	7 / 4			
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reaction time	0.176	interval	1.04	1.04	1.00	1.00	1.00	1.00	1.03	1.01	1.05	1.11	PB	3.08	3.00	3.09	
wind	0.4 m/s	velocity	4.87	8.17	8.17	8.50	8.50	8.50	8.50	8.25	8.42	8.10	9.46	7.72	8.28	8.50	8.25

FINAL - 1986 French National Indoor Championships (Lievin, FRA)*Aubert (1986) - indoor - video - haies, etude des performances*

date	26-Jan-86	time	2.65	3.76	4.80	5.83	6.84						8.20	/3			
reaction time		interval	1.11	1.04	1.03	1.01							1.36		3.18		
		velocity	4.91	7.66	8.17	8.25	8.42						9.56	7.32	8.02		

Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)*Aubert (1986) - indoor - video - haies, etude des performances*

date	25-Jan-86	time	2.62	3.69	4.73	5.74	6.78						8.19	/3			
reaction time		interval	1.07	1.04	1.01	1.04							1.41		3.12		
		velocity	4.96	7.94	8.17	8.42	8.17						9.22	7.33	8.17		

Heat ? - 1986 French National Indoor Championships (Lievin, FRA)*Aubert (1986) - indoor - video - haies, etude des performances*

date	25-Jan-86	time	2.63	3.70	4.74	5.77	6.78						8.19	/3			
reaction time		interval	1.07	1.04	1.03	1.01							1.41		3.14		
		velocity	4.94	7.94	8.17	8.25	8.42						9.22	7.33	8.12		

Felicien, Perdita (CAN) (1980)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)*Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships*

date	13-Mar-10	time	2.61	3.63	4.60	5.58	6.57							7.86	3 / 2			
reaction time	0.156	interval	1.02	0.97	0.98	0.99							1.29		2.97			
		velocity	4.98	8.33	8.76	8.67	8.59						10.08	7.63	8.59			

FINAL - 2009 Seiko Super Grand Prix (Kawasaki, JPN)*Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season*

date	23-Sep-09	time	2.44	3.49	4.50	5.49	6.47	7.45	8.42	9.43	10.46	11.48		12.74	/ 1			
reaction time		interval	1.05	1.01	0.99	0.98	0.98	0.97	1.01	1.03	1.02	1.26				3.05	2.93	3.06
wind	0.3 m/s	velocity	5.33	8.10	8.42	8.59	8.67	8.67	8.76	8.42	8.25	8.33	8.33	7.85		8.36	8.70	8.33

FINAL - 2009 IAAF World Athletic Final (Thessaloniki, GRE)*Winckler (2009) - UK Athletics- National Coaching Conference*

date	12-Sep-09	time	2.23	3.26	4.22	5.19	6.15	7.09	8.11	9.10	10.08	11.05		12.61	7 / 5			
reaction time	0.173	interval	1.03	0.96	0.97	0.96	0.94	1.02	0.99	0.98	0.97	1.56				2.96	2.92	2.94
wind	-0.1 m/s	velocity	5.83	8.25	8.85	8.76	8.85	9.04	8.33	8.59	8.67	8.76	6.73	7.93		8.61	8.73	8.67

FINAL - 2009 Weltklasse (Zurich, SUI)*Winckler (2009) - UK Athletics- National Coaching Conference*

date	28-Aug-09	time	2.46	3.50	4.47	5.44	6.37	7.38	8.36	9.32	10.27	11.29		12.61	/ 3			
reaction time	0.159	interval	1.04	0.97	0.97	0.93	1.01	0.98	0.96	0.95	1.02	1.32				2.98	2.92	2.93
wind	-0.4 m/s	velocity	5.28	8.17	8.76	8.76	9.14	8.42	8.67	8.85	8.95	8.33	7.95	7.93		8.56	8.73	8.70

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

date	19-Aug-09	time	2.62	3.64	4.62	5.60	6.57	7.54	8.51	9.47	10.47	11.50		12.58	4 / 2			
reaction time	0.151	interval	1.02	0.98	0.98	0.97	0.97	0.97	0.96	1.00	1.03	1.08				2.98	2.91	2.99
wind	0.1 m/s	velocity	4.96	8.33	8.67	8.67	8.76	8.76	8.76	8.85	8.50	8.25	9.72	7.95		8.56	8.76	8.53

Heat 5 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	2.67	3.69	4.67	5.67	6.65	7.64	8.62	9.61	10.63	11.66		12.77	3 / 2			
reaction time	0.147	interval	1.02	0.98	1.00	0.98	0.99	0.98	0.99	1.02	1.03	1.11				3.00	2.95	3.04
wind	0.1 m/s	velocity	4.87	8.33	8.67	8.50	8.67	8.59	8.67	8.59	8.33	8.25	9.46	7.83		8.50	8.64	8.39

FINAL - 2009 DN Gala (Stockholm, SWE)*Winckler (2009) - UK Athletics- National Coaching Conference*

date	31-Jul-09	time	2.46	3.50	4.50	5.44	6.38	7.37	8.34	9.32	10.35	11.34		12.65	/ 5			
reaction time		interval	1.04	1.00	0.94	0.94	0.99	0.97	0.98	1.03	0.99	1.31				2.98	2.90	3.00
wind	0.9 m/s	velocity	5.28	8.17	8.50	9.04	9.04	8.59	8.76	8.67	8.25	8.59	8.02	7.91		8.56	8.79	8.50

Heat 1 - 2009 DN Gala (Stockholm, SWE)*Winckler (2009) - UK Athletics- National Coaching Conference*

date	31-Jul-09	time	2.45	3.43	4.39	5.34	6.36	7.34	8.26	9.18	10.18	11.22		12.54	/ 1			
reaction time		interval	0.98	0.96	0.95	1.02	0.98	0.92	0.92	1.00	1.04	1.32				2.89	2.92	2.96
wind	1.8 m/s	velocity	5.31	8.67	8.85	8.95	8.33	8.67	9.24	9.24	8.50	8.17	7.95	7.97		8.82	8.73	8.61

FINAL - 2009 Aviva (London, GBR)*Winckler (2009) - UK Athletics- National Coaching Conference*

date	25-Jul-09	time	2.49	3.52	4.51	5.50	6.43	7.41	8.42	9.45	10.40	11.38		12.66	/ 2			
reaction time	0.128	interval	1.03	0.99	0.99	0.93	0.98	1.01	1.03	0.95	0.98	1.28				3.01	2.92	2.96
wind	-0.7 m/s	velocity	5.22	8.25	8.59	8.59	9.14	8.67	8.42	8.25	8.95	8.67	8.20	7.90		8.47	8.73	8.61

FINAL - 2009 Golden Gala (Rome, ITA)*Winckler (2009) - UK Athletics- National Coaching Conference*

date	10-Jul-09	time	2.34	3.41	4.41	5.38	6.35	7.28	8.28	9.26	10.30	11.29		12.70	/ 4			
reaction time	0.176	interval	1.07	1.00	0.97	0.97	0.93	1.00	0.98	1.04	0.99	1.41				3.04	2.90	3.01
wind	0.4 m/s	velocity	5.56	7.94	8.50	8.76	8.76	9.14	8.50	8.67	8.17	8.59	7.45	7.87		8.39	8.79	8.47

FINAL - 2009 Athletissima (Lausanne, SUI)*Winckler (2009) - UK Athletics- National Coaching Conference*

date	07-Jul-09	time	2.25	3.26	4.28	5.26	6.20	7.20	8.19	9.18	10.22	11.22		12.71	/ 5			
reaction time	0.170	interval	1.01	1.02	0.98	0.94	1.00	0.99	0.99	1.04	1.00	1.49				3.01	2.93	3.03
wind	0.3 m/s	velocity	5.78	8.42	8.33	8.67	9.04	8.50	8.59	8.59	8.17	8.50	7.05	7.87		8.47	8.70	8.42

FINAL - 2009 Bislett Games (Oslo, NOR)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	03-Jul-09	time	2.29	3.29	4.34	5.33	6.29	7.31	8.33	9.28	10.23	11.32	12.85	/ 5			
reaction time	0.226	interval		1.00	1.05	0.99	0.96	1.02	1.02	0.95	0.95	1.09	1.53		3.04	3.00	2.99
wind	-0.8 m/s	velocity	5.68	8.50	8.10	8.59	8.85	8.33	8.33	8.95	8.95	7.80	6.86	7.78	8.39	8.50	8.53
FINAL - 2009 Canadian National Championships (Toronto, CAN)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	27-Jun-09	time	2.68	3.70	4.68	5.66	6.63	7.61	8.61	9.63	10.66	11.68	12.80	/ 1			
reaction time		interval		1.02	0.98	0.98	0.97	0.98	1.00	1.02	1.03	1.02	1.12		2.98	2.95	3.07
wind	-1.4 m/s	velocity	4.85	8.33	8.67	8.67	8.76	8.67	8.50	8.33	8.25	8.33	9.37	7.81	8.56	8.64	8.31
Heat 2 - 2009 Canadian National Championships (Toronto, CAN)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	26-Jun-09	time	2.67	3.69	4.67	5.65	6.62	7.62	8.62	9.62	10.69	11.72	12.89	/ 1			
reaction time		interval		1.02	0.98	0.98	0.97	1.00	1.00	1.00	1.07	1.03	1.17		2.98	2.97	3.10
wind	-2.2 m/s	velocity	4.87	8.33	8.67	8.67	8.76	8.50	8.50	8.50	7.94	8.25	8.97	7.76	8.56	8.59	8.23
FINAL - 2009 Festival of Excellence (Toronto, CAN)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	11-Jun-09	time	2.56	3.55	4.56	5.55	6.51	7.51	8.50	9.50	10.53	11.61	12.88	/ 2			
reaction time		interval		0.99	1.01	0.99	0.96	1.00	0.99	1.00	1.03	1.08	1.27		2.99	2.95	3.11
wind	-1.8 m/s	velocity	5.08	8.59	8.42	8.59	8.85	8.50	8.59	8.50	8.25	7.87	8.27	7.76	8.53	8.64	8.20
FINAL - 2009 Prefontaine Classic (Eugene, OR)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	07-Jun-09	time	2.49	3.50	4.43	5.40	6.40	7.39	8.41	9.38	10.38	11.40	12.78	/ 4			
reaction time		interval		1.01	0.93	0.97	1.00	0.99	1.02	0.97	1.00	1.02	1.38		2.91	3.01	2.99
wind	1.0 m/s	velocity	5.22	8.42	9.14	8.76	8.50	8.59	8.33	8.76	8.50	8.33	7.61	7.82	8.76	8.47	8.53
FINAL - 2009 adidas Track Classic (Carson, CA)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	16-May-09	time	2.30	3.31	4.33	5.34	6.29	7.23	8.24	9.21	10.23	11.26	12.83	/ 2			
reaction time		interval		1.01	1.02	1.01	0.95	0.94	1.01	0.97	1.02	1.03	1.57		3.04	2.90	3.02
wind	-1.1 m/s	velocity	5.65	8.42	8.33	8.42	8.95	9.04	8.42	8.76	8.33	8.25	6.69	7.79	8.39	8.79	8.44
FINAL - 2009 University of Illinois Invitational (Champaign, IL)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	02-May-09	time	2.71	3.71	4.71	5.70	6.68	7.68	8.70	9.73	10.76	11.83	12.99	/ 1			
reaction time		interval		1.00	1.00	0.99	0.98	1.00	1.02	1.03	1.03	1.07	1.16		2.99	3.00	3.13
wind	2.1 m/s	velocity	4.80	8.50	8.50	8.59	8.67	8.50	8.33	8.25	8.25	7.94	9.05	7.70	8.53	8.50	8.15
FINAL - 2009 Drake Relays (Des Moines, IA)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	25-Apr-09	time	2.70	3.70	4.70	5.67	6.64	7.64	8.64	9.67	10.71	11.77	12.88	/ 3			
reaction time		interval		1.00	1.00	0.97	0.97	1.00	1.00	1.03	1.04	1.06	1.11		2.97	2.97	3.13
wind	3.1 m/s	velocity	4.81	8.50	8.50	8.76	8.76	8.50	8.50	8.25	8.17	8.02	9.46	7.76	8.59	8.59	8.15
FINAL - 2009 Kansas Relays (Lawrence, KS)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	18-Apr-09	time	2.71	3.76	4.78	5.80	6.81	7.85	8.88	9.95	11.01	12.13	13.38	/ 5			
reaction time		interval		1.05	1.02	1.02	1.01	1.04	1.03	1.07	1.06	1.12	1.25		3.09	3.08	3.25
wind	-0.2 m/s	velocity	4.80	8.10	8.33	8.33	8.42	8.17	8.25	7.94	8.02	7.59	8.40	7.47	8.25	8.28	7.85
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)														<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>			
date	22-Sep-07	time	2.64	3.67	4.68	5.65	6.63	7.61	8.64	9.66	10.68	11.72	12.83	5 / 4			
reaction time	0.182	interval		1.03	1.01	0.97	0.98	0.98	1.03	1.02	1.02	1.04	1.11		3.01	2.99	3.08
wind	-0.3 m/s	velocity	4.92	8.25	8.42	8.76	8.67	8.67	8.25	8.33	8.33	8.17	9.46	7.79	8.47	8.53	8.28
FINAL - 2007 IAAF World Championships (Osaka, JPN)														<i>Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data</i>			
date	29-Aug-07	time	2.48	3.45	4.43	5.42	6.36	7.30	8.28	9.25	10.25	11.27	12.49	4 / 2			
reaction time	0.132	interval		0.97	0.98	0.99	0.94	0.94	0.98	0.97	1.00	1.02	1.22		2.94	2.86	2.99
wind	-0.1 m/s	velocity	5.24	8.76	8.67	8.59	9.04	9.04	8.67	8.76	8.50	8.33	8.61	8.01	8.67	8.92	8.53
Semi-Final 2 - 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	28-Aug-07	time	2.64	3.66	4.63	5.61	6.56	7.54	8.52	9.52	10.50	11.52	12.61	6 / 2			
reaction time	0.133	interval		1.02	0.97	0.98	0.95	0.98	0.98	1.00	0.98	1.02	1.09		2.97	2.91	3.00
wind	-0.1 m/s	velocity	4.92	8.33	8.76	8.67	8.95	8.67	8.67	8.50	8.67	8.33	9.63	7.93	8.59	8.76	8.50
Heat 3 - 2007 IAAF World Athletic Championships (Osaka, JPN)														<i>Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles</i>			
date	27-Aug-07	time	2.65	3.67	4.67	5.64	6.61	7.58	8.60	9.62	10.62	11.67	12.73	8 / 1			
reaction time	0.143	interval		1.02	1.00	0.97	0.97	0.97	1.02	1.02	1.00	1.05	1.06		2.99	2.96	3.07
wind	-0.8 m/s	velocity	4.91	8.33	8.50	8.76	8.76	8.76	8.33	8.33	8.50	8.10	9.91	7.86	8.53	8.61	8.31
FINAL - 2007 Pan American Games (Rio de Janeiro, BRA)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	25-Jul-07	time	2.62	3.63	4.63	5.62	6.58	7.55	8.52	9.51	10.52	11.54	12.65	/ 2			
reaction time		interval		1.01	1.00	0.99	0.96	0.97	0.97	0.99	1.01	1.02	1.11	CR	3.00	2.90	3.02
wind	0.0 m/s	velocity	4.96	8.42	8.50	8.59	8.85	8.76	8.76	8.59	8.42	8.33	9.46	7.91	8.50	8.79	8.44
Heat 3 - 2007 Pan American Games (Rio de Janeiro, BRA)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	24-Jul-07	time	2.62	3.65	4.62	5.58	6.55	7.52	8.50	9.50	10.52	11.56	12.69	/ 1			

reaction time	0.150	interval	1.03	0.97	0.96	0.97	0.97	0.98	1.00	1.02	1.04	1.13		2.96	2.92	3.06													
wind	0.2 m/s	velocity	4.96	8.25	8.76	8.85	8.76	8.76	8.67	8.50	8.33	8.17	9.29	7.88	8.61	8.73	8.33												
FINAL - 2007 Canadian National Championships (Windsor, CAN)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>															
date	14-Jul-07	time	2.65	3.65	4.62	5.57	6.52	7.45	8.40	9.40	10.39	11.39		12.50	/ 1														
reaction time		interval	1.00	0.97	0.95	0.95	0.93	0.95	1.00	0.99	1.00	1.11			2.92	2.83	2.99												
wind	4.3 m/s	velocity	4.91	8.50	8.76	8.95	8.95	9.14	8.95	8.50	8.59	8.50	9.46	8.00	8.73	9.01	8.53												
FINAL - 2006 Canadian National Championships (Ottawa, CAN)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>															
date	05-Aug-06	time	2.60	3.65	4.62	5.62	6.55	7.60	8.54	9.51	10.52	11.54		12.64	/ 1														
reaction time		interval	1.05	0.97	1.00	0.93	1.05	0.94	0.97	1.01	1.02	1.10			3.02	2.92	3.00												
wind	0.7 m/s	velocity	5.00	8.10	8.76	8.50	9.14	8.10	9.04	8.76	8.42	8.33	9.55	7.91	8.44	8.73	8.50												
Semi-Final 1 - 2004 Olympic Games (Athens, GRE)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>															
date	23-Aug-04	time	2.57	3.55	4.54	5.51	6.45	7.42	8.39	9.37	10.37	11.39		12.49	4 / 1														
reaction time	0.171	interval	0.98	0.99	0.97	0.94	0.97	0.97	0.98	1.00	1.02	1.10			2.94	2.88	3.00												
wind	1.7 m/s	velocity	5.06	8.67	8.59	8.76	9.04	8.76	8.76	8.67	8.50	8.33	9.55	8.01	8.67	8.85	8.50												
FINAL - 2004 Weltklasse (Zurich, SUI)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>															
date	06-Aug-04	time	2.64	3.60	4.60	5.55	6.49	7.49	8.45	9.42	10.42	11.46		12.52	/ 1														
reaction time		interval	0.96	1.00	0.95	0.94	1.00	0.96	0.97	1.00	1.04	1.06			2.91	2.90	3.01												
wind	0.0 m/s	velocity	4.92	8.85	8.50	8.95	9.04	8.50	8.85	8.76	8.50	8.17	9.91	7.99	8.76	8.79	8.47												
FINAL - 2004 Canadian National Championships (Victoria, CAN)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>															
date	10-Jul-04	time	2.58	3.57	4.54	5.49	6.44	7.37	8.36	9.32	10.32	11.34		12.45	/ 1														
reaction time		interval	0.99	0.97	0.95	0.95	0.93	0.99	0.96	1.00	1.02	1.11			2.91	2.87	2.98												
wind	2.1 m/s	velocity	5.04	8.59	8.76	8.95	8.95	9.14	8.59	8.85	8.50	8.33	9.46	8.03	8.76	8.89	8.56												
Heat 1 - 2004 Canadian National Championships (Victoria, CAN)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>															
date	09-Jul-04	time	2.65	3.67	4.65	5.60	6.56	7.54	8.53	9.48	10.48	11.46		12.60	/ 1														
reaction time		interval	1.02	0.98	0.95	0.96	0.98	0.99	0.95	1.00	0.98	1.14			2.95	2.93	2.93												
wind	0.9 m/s	velocity	4.91	8.33	8.67	8.95	8.85	8.67	8.59	8.95	8.50	8.67	9.21	7.94	8.64	8.70	8.70												
FINAL - 2004 Prefontaine Classic (Eugene, OR)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>															
date	19-Jun-04	time	2.59	3.58	4.55	5.51	6.47	7.42	8.39	9.37	10.34	11.37		12.46	/ 1														
reaction time		interval	0.99	0.97	0.96	0.96	0.95	0.97	0.98	0.97	1.03	1.09	NR		2.92	2.88	2.98												
wind	0.7 m/s	velocity	5.02	8.59	8.76	8.85	8.85	8.95	8.76	8.67	8.76	8.25	9.63	8.03	8.73	8.85	8.56												
FINAL - 2004 Modesto Relays (Modesto, CA)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>															
date	08-May-04	time	2.55	3.55	4.53	5.50	6.47	7.44	8.40	9.41	10.41	11.44		12.60	/ 1														
reaction time		interval	1.00	0.98	0.97	0.97	0.97	0.96	1.01	1.00	1.03	1.16			2.95	2.90	3.04												
wind	1.2 m/s	velocity	5.10	8.50	8.67	8.76	8.76	8.76	8.85	8.42	8.50	8.25	9.05	7.94	8.64	8.79	8.39												
FINAL - 2003 IAAF World Championships (Paris, FRA)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>															
date	27-Aug-03	time	2.59	3.60	4.59	5.54	6.51	7.46	8.46	9.44	10.44	11.44		12.53	4 / 1														
reaction time	0.147	interval	1.01	0.99	0.95	0.97	0.95	1.00	0.98	1.00	1.00	1.09	NR		2.95	2.92	2.98												
wind	-0.2 m/s	velocity	5.02	8.42	8.59	8.95	8.76	8.95	8.50	8.67	8.50	8.50	9.63	7.98	8.64	8.73	8.56												
Feng Yun (CHN) (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 1 - 1999 IAAF World Championships (Sevilla, ESP)														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>															
date	27-Aug-99	time	2.52	3.53	4.52	5.53	6.52	7.51	8.53	9.57	10.62	11.68		12.98	5 / 8														
reaction time	0.150	interval	1.01	0.99	1.01	0.99	0.99	1.02	1.04	1.05	1.06	1.30			3.01	3.00	3.15												
wind	1.9 m/s	velocity	5.16	8.42	8.59	8.42	8.59	8.59	8.33	8.17	8.10	8.02	8.08	7.70	8.47	8.50	8.10												
Ferga, Linda (FRA) (1976)														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)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>															
date	08-Aug-02	time	2.66	3.70	4.74	5.74	6.76	7.75	8.78	9.80	10.82	11.88		13.03	/ 2														
reaction time	0.179	interval	1.04	1.04	1.00	1.02	0.99	1.03	1.02	1.02	1.06	1.15			3.08	3.04	3.10												
wind	1.1 m/s	velocity	4.89	8.17	8.17	8.50	8.33	8.59	8.25	8.33	8.33	8.02	9.13	7.67	8.28	8.39	8.23												
FINAL - 2001 European Cup (Bremen, GER)														<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>															
date	24-Jun-01	time	2.69	3.75	4.75	5.80	6.76	7.78	8.80	9.83	10.91	11.94		13.10	/ 2														
reaction time	0.249	interval	1.06	1.00	1.05	0.96	1.02	1.02	1.03	1.08	1.03	1.16			3.11	3.00	3.14												
wind	0.6 m/s	velocity	4.83	8.02	8.50	8.10	8.85	8.33	8.33	8.25	7.87	8.25	9.05	7.63	8.20	8.50	8.12												
FINAL - 1998 European Championships (Budapest, HUN)														<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>															
date	23-Aug-98	time	2.70	3.71	4.75	5.77	6.78	7.77	8.83	9.87	10.92	11.99		13.22	7 / 8														
reaction time		interval	1.01	1.04	1.02	1.01	0.99	1.06	1.04	1.05	1.07	1.23			3.07	3.06	3.16												
wind	1.5 m/s	velocity	4.81	8.42	8.17	8.33	8.42	8.59	8.02	8.17	8.10	7.94	8.54	7.56	8.31	8.33	8.07												
Ferguen, Amina (ALG) (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 Sparkassen Gala (Regensburg, GER)														<i>Buckwitz (2014) - OSP Berlin / DLV frauen hürden report</i>															
date	07-Jun-14	time	2.68	3.74	4.80	5.82	6.86	7.90	8.96	10.02	11.10	12.20		13.47	6 / 4														

reaction time	interval	1.06	1.06	1.02	1.04	1.04	1.06	1.06	1.08	1.10	1.27			3.14	3.14	3.24	
wind	0.1 m/s	velocity	4.85	8.02	8.02	8.33	8.17	8.17	8.02	8.02	7.87	7.73	8.27	7.42	8.12	8.12	7.87

Heat 1 - 2014 Sparkassen Gala (Regensburg, GER)

date	07-Jun-14	time	2.66	3.76	4.84	5.90	6.96	8.04	9.10	10.22	11.28	12.44		13.70	1/2			
reaction time	interval	1.10	1.08	1.06	1.06	1.08	1.06	1.12	1.06	1.16	1.26					3.24	3.20	3.34
wind	-1.6 m/s	velocity	4.89	7.73	7.87	8.02	8.02	7.87	8.02	7.59	8.02	7.33	8.33	7.30		7.87	7.97	7.63

*Buckwitz (2014) - OSP Berlin / DLV frauen hürden report***Fiadanantsoa, Sidonie (MAD) (1999)**

Repechage 3 - 2024 Olympic Games (Paris, FRA)																		
date	08-Aug-24	time	2.47	3.52	4.53	5.53	6.54	7.55	8.57	9.63	10.70	11.81		13.12	7/6			
reaction time	0.144	interval	1.05	1.01	1.00	1.01	1.01	1.02	1.06	1.07	1.11	1.31				3.06	3.04	3.24
wind	-0.2 m/s	velocity	5.26	8.10	8.42	8.50	8.42	8.42	8.33	8.02	7.94	7.66	7.67	7.62		8.33	8.39	7.87

*Paris 2024 Olympic Games - Results Book (2024)***Heat 1 - 2024 Olympic Games (Paris, FRA)**

date	07-Aug-24	time	2.48	3.52	4.53	5.53	6.52	7.52	8.54	9.58	10.63	11.67		12.92	3/5			
reaction time	interval	1.04	1.01	1.00	0.99	1.00	1.02	1.04	1.05	1.04	1.25					3.05	3.01	3.13
wind	-0.1 m/s	velocity	5.24	8.17	8.42	8.50	8.59	8.50	8.33	8.17	8.10	8.17	8.04	7.74		8.36	8.47	8.15

*Paris 2024 Olympic Games - Results Book (2024)***Fitzgerald, Benita (USA) (1961)**

FINAL - 1981 USSR vs. USA (Leningrad, URS)																		
date	11-Jul-81	time	2.66	3.70	4.71	5.74	6.83	7.90	8.93	9.94	11.02	12.09		13.24	1/3			
reaction time	interval	1.04	1.01	1.03	1.09	1.07	1.03	1.01	1.08	1.07	1.15					3.08	3.19	3.16
wind	0.3 m/s	velocity	4.89	8.17	8.42	8.25	7.80	7.94	8.25	8.42	7.87	7.94	9.13	7.55		8.28	7.99	8.07

*Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies***Fleischer, Caroline (NOR) (1996)**

FINAL 2 - 2017 Windsprint (Sundsvall, SWE)																		
date	30-Jul-17	time	2.86	4.04	5.21	6.39	7.90	8.82		12.56	13.86			15.42	1/2			
reaction time	interval	1.18	1.17	1.18	1.51	0.92			3.74	1.30	1.56					3.53		
wind	1.0 m/s	velocity	4.55	7.20	7.26	7.20	5.63	9.24		6.82	6.54	6.73	6.49			7.22		

*(2017) - www.windsprint/Splittider/***FINAL - 2017 Windsprint (Sundsvall, SWE)**

date	30-Jul-17	time	2.85	4.04	5.22	6.42	7.58	8.80	10.04	11.40	12.70	14.02		15.56	1/2			
reaction time	interval	1.19	1.18	1.20	1.16	1.22	1.24	1.36	1.30	1.32	1.54					3.57	3.62	3.98
wind	0.8 m/s	velocity	4.56	7.14	7.20	7.08	7.33	6.97	6.85	6.25	6.54	6.44	6.82	6.43		7.14	7.04	6.41

*(2017) - www.windsprint/Splittider/***Forster, Viktória (SVK) (2002)**

Heat A - 2024 Kamila Skolimowska Memorial (Silesia, POL)																		
date	25-Aug-24	time	2.47	3.56	4.63	5.68	6.69	7.73	8.76	9.82	10.88	11.94		13.26	2/8			
reaction time	0.150	interval	1.09	1.07	1.05	1.01	1.04	1.03	1.06	1.06	1.06	1.32				3.21	3.08	3.18
wind	-0.3 m/s	velocity	5.26	7.80	7.94	8.10	8.42	8.17	8.25	8.02	8.02	8.02	7.61	7.54		7.94	8.28	8.02

*Omega Timing (2024) - diamond league race analysis***Repechage 1 - 2024 Olympic Games (Paris, FRA)**

date	08-Aug-24	time	2.46	3.53	4.56	5.57	6.57	7.57	8.56	9.58	10.59	11.62		12.88	2/3			
reaction time	0.156	interval	1.07	1.03	1.01	1.00	0.99	1.02	1.01	1.03	1.26					3.11	2.99	3.06
wind	0.1 m/s	velocity	5.28	7.94	8.25	8.42	8.50	8.50	8.59	8.33	8.42	8.25	7.98	7.76		8.20	8.53	8.33

*Paris 2024 Olympic Games - Results Book (2024)***Heat 5 - 2024 Olympic Games (Paris, FRA)**

date	07-Aug-24	time	2.48	3.57	4.60	5.62	6.63	7.65	8.67	9.70	10.73	11.79		13.08	7/6			
reaction time	0.156	interval	1.09	1.03	1.02	1.01	1.02	1.02	1.03	1.03	1.06	1.29				3.14	3.05	3.12
wind	-0.6 m/s	velocity	5.24	7.80	8.25	8.33	8.42	8.33	8.33	8.25	8.25	8.02	7.79	7.65		8.12	8.36	8.17

*Paris 2024 Olympic Games - Results Book (2024)***FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)**

date	08-Jun-24	time	2.66	3.73	4.76	5.76	6.74	7.73	8.86	9.90	10.95	12.06		13.25	2/8			
reaction time	0.173	interval	1.07	1.03	1.00	0.98	0.99	1.13	1.04	1.05	1.11	1.19				3.10	3.10	3.20
wind	0.8 m/s	velocity	4.89	7.94	8.25	8.50	8.67	8.59	7.52	8.17	8.10	7.66	8.45	7.55		8.23	8.23	7.97

*Henson (2024) - Athlete First: 2024 year end hurdle report***Heat 3 - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)**

date	03-Mar-24	time	2.60	3.70	4.70	5.74	6.76							8.10	4/4			
reaction time	0.145	interval	1.10	1.00	1.04	1.02							1.34			3.14		
		velocity	5.00	7.73	8.50	8.17	8.33						9.70	7.41		8.12		

*Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record***Foster, Ebony (USA) (1983)**

FINAL - 2006 USATF National Championships (Indianapolis, IN)																		
date	24-Jun-06	time	2.65	3.74	4.77	5.81	6.79	7.77	8.81	9.84	10.86	11.95		13.12	1/8			
reaction time	interval	1.09	1.03	1.04	0.98	0.98	1.04	1.03	1.02	1.09	1.17					3.16	3.00	3.14
wind	-0.4 m/s	velocity	4.91	7.80	8.25	8.17	8.67	8.67	8.17	8.25	8.33	7.80	8.97	7.62		8.07	8.50	8.12

*USATF Women's Hurdle Development (2006)***Foster-Hylton, Brigitte (JAM) (1974)**

FINAL - 2009 IAAF World Championships (Berlin, GER)																		
date	19-Aug-09	time	2.60	3.60	4.59	5.56	6.51	7.46	8.43	9.41	10.39	11.40		12.51	4/1			
reaction time	0.157	interval	1.00	0.99	0.97	0.95	0.95	0.97	0.98	0.98	1.01	1.11				2.96	2.87	2.97
wind	0.2 m/s	velocity	5.00	8.50	8.59	8.76	8.95	8.95	8.76	8.67	8.67	8.42	9.46	7.99		8.61	8.89	8.59

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

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

date	19-Aug-09	time	2.58	3.60	4.59	5.56	6.52	7.48	8.44	9.44	10.44	11.46	12.54	5 / 1			
reaction time	0.108	interval		1.02	0.99	0.97	0.96	0.96	0.96	1.00	1.00	1.02	1.08		2.98	2.88	3.02
wind	0.1 m/s	velocity	5.04	8.33	8.59	8.76	8.85	8.85	8.85	8.50	8.50	8.33	9.72	7.97	8.56	8.85	8.44

Heat 5 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	2.58	3.59	4.57	5.53	6.49	7.46	8.43	9.43	10.45	11.51	12.67	5 / 1			
reaction time	0.134	interval		1.01	0.98	0.96	0.96	0.97	0.97	1.00	1.02	1.06	1.16		2.95	2.90	3.08
wind	0.1 m/s	velocity	5.04	8.42	8.67	8.85	8.85	8.76	8.76	8.50	8.33	8.02	9.05	7.89	8.64	8.79	8.28

FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date	13-Sep-08	time	2.63	3.66	4.65	5.63	6.62	7.60	8.58	9.58	10.61	11.63	12.76	3 / 5 4			
reaction time	0.137	interval		1.03	0.99	0.98	0.99	0.98	0.98	1.00	1.03	1.02	1.13		3.00	2.95	3.05
wind	0.3 m/s	velocity	4.94	8.25	8.59	8.67	8.59	8.67	8.67	8.50	8.25	8.33	9.29	7.84	8.50	8.64	8.36

FINAL - 2008 Olympic Games (Beijing, CHN)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	19-Aug-08	time	2.61	3.63	4.63	5.61	6.59	7.54	8.54	9.52	10.53	11.56	12.66	9 / 6			
reaction time	0.167	interval		1.02	1.00	0.98	0.98	0.95	1.00	0.98	1.01	1.03	1.10		3.00	2.93	3.02
wind	0.1 m/s	velocity	4.98	8.33	8.50	8.67	8.67	8.95	8.50	8.67	8.42	8.25	9.55	7.90	8.50	8.70	8.44

Semi-Final 2 - 2008 Olympic Games (Beijing, CHN)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	18-Aug-08	time	2.61	3.65	4.66	5.66	6.61	7.59	8.59	9.60	10.62	11.66	12.76	4 / 3			
reaction time	0.162	interval		1.04	1.01	1.00	0.95	0.98	1.00	1.01	1.02	1.04	1.10		3.05	2.93	3.07
wind	0.2 m/s	velocity	4.98	8.17	8.42	8.50	8.95	8.67	8.50	8.42	8.33	8.17	9.55	7.84	8.36	8.70	8.31

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	2.49	3.49	4.50	5.49	6.49	7.49	8.49	9.50	10.54	11.60	12.82	9 / 2			
reaction time	0.144	interval		1.00	1.01	0.99	1.00	1.00	1.00	1.01	1.04	1.06	1.22		3.00	3.00	3.11
wind	1.5 m/s	velocity	5.22	8.50	8.42	8.59	8.50	8.50	8.50	8.42	8.17	8.02	8.61	7.80	8.50	8.50	8.20

Fountain, Hyleas (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 - 2009 Seiko Super Grand Prix (Kawasaki, JPN)***Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season*

date	23-Sep-09	time	2.48	3.55	4.57	5.59	6.61	7.63	8.67	9.71	10.77	11.84	13.15	/ 2			
reaction time		interval		1.07	1.02	1.02	1.02	1.02	1.04	1.04	1.06	1.07	1.31		3.11	3.08	3.17
wind	0.3 m/s	velocity	5.24	7.94	8.33	8.33	8.33	8.33	8.17	8.17	8.02	7.94	8.02	7.60	8.20	8.28	8.04

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	2.45	3.52	4.54	5.57	6.59	7.62	8.67	9.73	10.80	11.89	13.22	/ 3			
reaction time		interval		1.07	1.02	1.03	1.02	1.03	1.05	1.06	1.07	1.09	1.33		3.12	3.10	3.22
wind	0.1 m/s	velocity	5.31	7.94	8.33	8.25	8.33	8.25	8.10	8.02	7.94	7.80	7.89	7.56	8.17	8.23	7.92

Fourie, Marione (RSA) (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 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	09-Aug-24	time	2.44	3.49	4.50	5.48	6.47	7.44	8.42	9.43	10.48	11.64	13.01	9 / 6			
reaction time	0.140	interval		1.05	1.01	0.98	0.99	0.97	0.98	1.01	1.05	1.16	1.37		3.04	2.94	3.22
wind	-0.7 m/s	velocity	5.33	8.10	8.42	8.67	8.59	8.76	8.67	8.42	8.10	7.33	7.34	7.69	8.39	8.67	7.92

Repechage 1 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.44	3.49	4.51	5.50	6.49	7.49	8.49	9.49	10.51	11.54	12.79	4 / 1			
reaction time	0.154	interval		1.05	1.02	0.99	0.99	1.00	1.00	1.00	1.02	1.03	1.25		3.06	2.99	3.05
wind	0.1 m/s	velocity	5.33	8.10	8.33	8.59	8.59	8.50	8.50	8.50	8.33	8.25	8.04	7.82	8.33	8.53	8.36

Heat 4 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	07-Aug-24	time	2.48	3.55	4.58	5.59	6.59	7.58	8.57	9.57	10.59	11.62	12.91	4 / 4			
reaction time	0.157	interval		1.07	1.03	1.01	1.00	0.99	0.99	1.00	1.02	1.03	1.29		3.11	2.98	3.05
wind	0.0 m/s	velocity	5.24	7.94	8.25	8.42	8.50	8.59	8.59	8.50	8.33	8.25	7.79	7.75	8.20	8.56	8.36

A FINAL - 2024 Resisprint International (La Chaux-de-Fonds, SUI) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	14-Jul-24	time	2.56	3.60	4.58	5.58	6.56	7.53	8.48	9.45	10.43	11.43	12.50	3 / 3			
reaction time		interval		1.04	0.98	1.00	0.98	0.97	0.95	0.97	0.98	1.00	1.07		3.02	2.90	2.95
wind	1.6 m/s	velocity	5.08	8.17	8.67	8.50	8.67	8.76	8.95	8.76	8.67	8.50	9.39	8.00	8.44	8.79	8.64

FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	07-Jul-24	time	2.55	3.55	4.53	5.48	6.45	7.42	8.37	9.35	10.34	11.36	12.49	7 / 3			
reaction time	0.163	interval		1.00	0.98	0.95	0.97	0.97	0.95	0.98	0.99	1.02	1.13	NR PB	2.93	2.89	2.99
wind	1.6 m/s	velocity	5.10	8.50	8.67	8.95	8.76	8.76	8.95	8.67	8.59	8.33	8.89	8.01	8.70	8.82	8.53

Heat 2 - 2024 FBK Games (Hengelo, NED)*Omega Timing (2024) - continental tour gold race analysis*

date	07-Jul-24	time	2.39	3.46	4.45	5.41	6.39	7.38	8.38	9.36	10.36	11.37	12.60	4 / 1			
reaction time	0.140	interval		1.07	0.99	0.96	0.98	0.99	1.00	0.98	1.00	1.01	1.23		3.02	2.97	2.99
wind	0.3 m/s	velocity	5.44	7.94	8.59	8.85	8.67	8.59	8.50	8.67	8.50	8.42	8.17	7.94	8.44	8.59	8.53

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	23-Aug-23	time	2.60	3.62	4.64	5.64	6.64	7.62	8.64	9.64	10.67	11.74	12.89	8 / 6			
reaction time	0.158	interval		1.02	1.02	1.00	1.00	0.98	1.02	1.00	1.03	1.07	1.15		3.04	3.00	3.10
wind	-0.4 m/s	velocity	5.00	8.33	8.33	8.50	8.50	8.67	8.33	8.50	8.25	7.94	8.74	7.76	8.39	8.50	8.23

Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	22-Aug-23	time	2.56	3.57	4.58	5.56	6.56	7.55	8.53	9.53	10.53	11.56	12.71	2 / 3			
reaction time	0.164	interval		1.01	1.01	0.98	1.00	0.99	0.98	1.00	1.00	1.03	1.15		3.00	2.97	3.03
wind	0.0 m/s	velocity	5.08	8.42	8.42	8.67	8.50	8.59	8.67	8.50	8.50	8.25	8.74	7.87	8.50	8.59	8.42

FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)*Omega Timing (2023) - diamond league race analysis*

date	16-Jul-23	time	2.44	3.49	4.51	5.50	6.47	7.45	8.43	9.43	10.44	11.47	12.73	1 / 9			
reaction time	0.148	interval		1.05	1.02	0.99	0.97	0.98	0.98	1.00	1.01	1.03	1.26		3.06	2.93	3.04
wind	0.9 m/s	velocity	5.33	8.10	8.33	8.59	8.76	8.67	8.67	8.50	8.42	8.25	7.98	7.86	8.33	8.70	8.39

FINAL - 2023 FBK Games (Hengelo, NED)*Omega Timing (2023) - continental tour race analysis*

date	04-Jun-23	time	2.43	3.48	4.50	5.50	6.49	7.50	8.50	9.52	10.54	11.57	12.86	8 / 4			
reaction time	0.143	interval		1.05	1.02	1.00	0.99	1.01	1.00	1.02	1.02	1.03	1.29	=PB	3.07	3.00	3.07
wind	0.2 m/s	velocity	5.35	8.10	8.33	8.50	8.59	8.42	8.50	8.33	8.33	8.25	7.79	7.78	8.31	8.50	8.31

Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	24-Jul-22	time	2.50	3.54	4.62	5.62	6.60	7.58	8.58	9.62	10.64	11.68	12.93	7 / 5			
reaction time	0.128	interval		1.04	1.08	1.00	0.98	0.98	1.00	1.04	1.02	1.04	1.25	PB	3.12	2.96	3.10
wind	-0.1 m/s	velocity	5.20	8.17	7.87	8.50	8.67	8.67	8.50	8.17	8.33	8.17	8.04	7.73	8.17	8.61	8.23

Heat 5 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	23-Jul-22	time	2.56	3.63	4.66	5.66	6.66	7.66	8.66	9.68	10.72	11.74	12.94	6 / 3			
reaction time	0.140	interval		1.07	1.03	1.00	1.00	1.00	1.00	1.02	1.04	1.02	1.20		3.10	3.00	3.08
wind	0.5 m/s	velocity	5.08	7.94	8.25	8.50	8.50	8.50	8.50	8.33	8.17	8.33	8.38	7.73	8.23	8.50	8.28

Fraguas, Raquel (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 - 1998 Spanish National Championships (San Sebastián, ESP)***Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas*

date	01-Aug-98	time	2.65	3.74	4.83	5.95	7.05	8.18	9.36	10.51	11.65	12.85	14.15	6 / 5			
reaction time		interval		1.09	1.09	1.12	1.10	1.13	1.18	1.15	1.14	1.20	1.30		3.30	3.41	3.49
wind	0.0 m/s	velocity	4.91	7.80	7.80	7.59	7.73	7.52	7.20	7.39	7.46	7.08	8.08	7.07	7.73	7.48	7.31

Freeman, Michelle (JAM) (1969)**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	10-Aug-97	time	2.52	3.53	4.52	5.48	6.46	7.43	8.42	9.42	10.44	11.48	12.61	4 / 3			
reaction time	0.145	interval		1.01	0.99	0.96	0.98	0.97	0.99	1.00	1.02	1.04	1.13		2.96	2.94	3.06
wind	-0.3 m/s	velocity	5.16	8.42	8.59	8.85	8.67	8.76	8.59	8.50	8.33	8.17	9.29	7.93	8.61	8.67	8.33

FINAL - 1996 Olympic Games (Atlanta, GA)*Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	31-Jul-96	time	2.44	3.46	4.44	5.44	6.40	7.39	8.38	9.42	10.45	11.49	12.76	4 / 6			
reaction time	0.181	interval		1.02	0.98	1.00	0.96	0.99	0.99	1.04	1.03	1.04	1.27		3.00	2.94	3.11
wind	0.2 m/s	velocity	5.33	8.33	8.67	8.50	8.85	8.59	8.59	8.17	8.25	8.17	8.27	7.84	8.50	8.67	8.20

Fujimori, Kanna (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, CHN)***Kota (2016) - 69th high school championships: JAF scientific committee- biomechanics data*

date	02-Aug-16	time	2.71	3.81	4.90	6.01	7.10	8.18	9.31	10.43	11.57	12.73	13.98	9 / 8			
reaction time	0.142	interval		1.10	1.09	1.11	1.09	1.08	1.13	1.12	1.14	1.16	1.25	=PB	3.30	3.30	3.42
wind	1.5 m/s	velocity	4.80	7.73	7.80	7.66	7.80	7.87	7.52	7.59	7.46	7.33	8.40	7.15	7.73	7.73	7.46

Fujimori, Nana (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)***Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	29-Apr-22	time	2.72	3.81	4.87	5.93	6.98	8.04	9.13	10.26	11.37	12.50	13.65	6 / 2			
reaction time	0.164	interval		1.09	1.06	1.06	1.05	1.06	1.09	1.13	1.11	1.13	1.15		3.21	3.20	3.37
wind	0.3 m/s	velocity	4.78	7.80	8.02	8.02	8.10	8.02	7.80	7.52	7.66	7.52	8.74	7.33	7.94	7.97	7.57

FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	24-Oct-20	time	2.71	3.81	4.89	5.94	7.03	8.10	9.21	10.31	11.43	12.54	13.42	2 / 2			
reaction time		interval		1.10	1.08	1.05	1.09	1.07	1.11	1.10	1.12	1.11	0.88		3.23	3.27	3.33
wind	-1.4 m/s	velocity	4.80	7.73	7.87	8.10	7.80	7.94	7.66	7.73	7.59	7.66	11.42	7.45	7.89	7.80	7.66

FINAL - 2020 Japanese National Championships (Niigata, JPN)*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	03-Oct-20	time	2.68	3.75	4.77	5.82	6.84	7.90	8.94	10.02	11.10	12.22	13.33	5 / 3			
reaction time	0.140	interval		1.07	1.02	1.05	1.02	1.06	1.04	1.08	1.08	1.12	1.11		3.14	3.12	3.28
wind	-0.1 m/s	velocity	4.85	7.94	8.33	8.10	8.33	8.02	8.17	7.87	7.87	7.59	9.05	7.50	8.12	8.17	7.77

FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	20-Sep-20	time	2.69	3.76	4.81	5.84	6.89	7.95	9.00	10.08	11.17	12.29	13.43	4 / 4			
reaction time	0.131	interval		1.07	1.05	1.03	1.05	1.06	1.05	1.08	1.09	1.12	1.14		3.15	3.16	3.29
wind	0.0 m/s	velocity	4.83	7.94	8.10	8.25	8.10	8.02	8.10	7.87	7.80	7.59	8.82	7.45	8.10	8.07	7.75

FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)

date	23-Aug-20	time	2.72	3.79	4.83	5.87	6.92	8.01										
reaction time	0.138	interval		1.07	1.04	1.04	1.05	1.09										3.15
wind	0.3 m/s	velocity	4.78	7.94	8.17	8.17	8.10	7.80										8.10

Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers

	14.03	8 / 9																

FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)

date	01-Sep-19	time	2.70	3.77	4.81	5.85	6.88	7.94	9.00	10.07	11.15	12.25	13.40	7 / 6				
reaction time		interval		1.07	1.04	1.04	1.03	1.06	1.06	1.07	1.08	1.10	1.15					3.15
wind	1.2 m/s	velocity	4.81	7.94	8.17	8.17	8.25	8.02	8.02	7.94	7.87	7.73	9.13	7.46				8.10

*Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps***FINAL - 2019 Japanese National Championships (Fukuoka, JPN)**

date	29-Jun-19	time	2.71	3.77	4.82	5.85	6.90	7.94	9.01	10.08	11.16	12.27	13.41	3 / 8				
reaction time	0.165	interval		1.06	1.05	1.03	1.05	1.04	1.07	1.07	1.08	1.11	1.14					3.14
wind	0.6 m/s	velocity	4.80	8.02	8.10	8.25	8.10	8.17	7.94	7.94	7.87	7.66	9.21	7.46				8.12

*Yamanaka (2019) - research on athlete performance and technique- 2019 data book***FINAL - 2019 Kinami Memorial (Osaka, JPN)**

date	06-May-19	time	2.69	3.77	4.83	5.88	6.93	7.97	9.03	10.08	11.14	12.26	13.39	2 / 6				
reaction time		interval		1.08	1.06	1.05	1.05	1.04	1.06	1.05	1.06	1.12	1.13					PB
wind	0.6 m/s	velocity	4.83	7.87	8.02	8.10	8.10	8.17	8.02	8.10	8.02	7.59	9.29	7.47				7.99

*Matsubayashi (2019) - research on athlete performance and technique- 2019 data book***A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)**

date	28-Apr-19	time	2.69	3.78	4.84	5.89	6.94	7.97	9.05	10.12	11.22	12.34	13.49	8 / 5				
reaction time		interval		1.09	1.06	1.05	1.05	1.03	1.08	1.07	1.10	1.12	1.15					PB
wind	0.6 m/s	velocity	4.83	7.80	8.02	8.10	8.10	8.25	7.87	7.94	7.73	7.59	9.13	7.41				7.97

*Kobayashi (2019) - research on athlete performance and technique- 2019 data book***FINAL - 2018 Fuse Sprint (Tottori, JPN)**

date	03-Jun-18	time	2.68	3.77	4.84	5.90	6.95	8.03	9.10	10.20	11.31	12.44	13.66	/ 6				
reaction time		interval		1.09	1.07	1.06	1.05	1.08	1.07	1.10	1.11	1.13	1.22					3.22
wind	0.6 m/s	velocity	4.85	7.80	7.94	8.02	8.10	7.87	7.94	7.73	7.66	7.52	8.61	7.32				7.92

*Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad***FINAL - 2017 Fuse Sprint (Tottori, JPN)**

date	04-Jun-17	time	2.74	3.81	4.89	5.95	6.99	8.04	9.11	10.18	11.27	12.40	13.59	9 / 5				
reaction time		interval		1.07	1.08	1.06	1.04	1.05	1.07	1.07	1.09	1.13	1.19					3.21
wind	3.7 m/s	velocity	4.74	7.94	7.87	8.02	8.17	8.10	7.94	7.94	7.80	7.52	8.82	7.36				7.94

*(2017) - tfdata-store.com/2017/06/04/post-848/***Heat 3 - 2017 Fuse Sprint (Tottori, JPN)**

date	04-Jun-17	time	2.75	3.85	4.94	6.01	7.09	8.19	9.29	10.41	11.56	12.69	13.89	2 / 5				
reaction time		interval		1.10	1.09	1.07	1.08	1.10	1.10	1.12	1.15	1.13	1.20					3.26
wind	1.3 m/s	velocity	4.73	7.73	7.80	7.94	7.87	7.73	7.73	7.59	7.39	7.52	8.75	7.20				7.82

*(2017) - tfdata-store.com/2017/06/04/post-848/***Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)**

date	07-May-17	time	2.71	3.82	4.89	5.95	7.02	8.09	9.19	10.29	11.40	12.53	13.73	8 / 5				
reaction time		interval		1.11	1.07	1.06	1.07	1.07	1.10	1.10	1.11	1.13	1.20					3.24
wind	-0.2 m/s	velocity	4.80	7.66	7.94	8.02	7.94	7.94	7.73	7.73	7.66	7.52	8.75	7.28				7.87

*(2017) - tfdata-store.com/2017/05/08/post-413/***FINAL - 2017 Michitaka Memorial (Osaka, JPN)**

date	07-May-17	time	2.77	3.87	4.97	6.04	7.12	8.21	9.30	10.41	11.53	12.69	13.96	1 / 6				
reaction time		interval		1.10	1.10	1.07	1.08	1.09	1.09	1.11	1.12	1.16	1.27					3.27
wind	-0.6 m/s	velocity	4.69	7.73	7.73	7.94	7.87	7.80	7.80	7.66	7.59	7.33	8.27	7.16				7.80

*(2017) - tfdata-store.com/2017/05/08/post-413/***Semi-Final 2 - 2016 Japanese National Junior Championships (Mizuho, JPN)**

date	21-Oct-16	time	2.69	3.77	4.84	5.91	6.99	8.08	9.16	10.25	11.36	12.51	13.72	4 / 1				
reaction time		interval		1.08	1.07	1.07	1.08	1.09	1.08	1.09	1.11	1.15	1.21					3.22
wind	1.0 m/s	velocity	4.83	7.87	7.94	7.94	7.87	7.80	7.87	7.80	7.66	7.39	8.68	7.29				7.92

*(2016.10.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en***Heat 1 - 2016 Japanese National Junior Championships (Mizuho, JPN)**

date	21-Oct-16	time	2.76	3.85	4.93	5.99	7.06	8.14	9.22	10.32	11.45	12.58	13.82	2 / 1				
reaction time		interval		1.09	1.08	1.06	1.07	1.08	1.08	1.10	1.13	1.13	1.24					3.23
wind	1.7 m/s	velocity	4.71	7.80	7.87	8.02	7.94	7.87	7.87	7.73	7.52	7.52	8.47	7.24				7.89

*(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en***FINAL - 2016 Kanto Student Championships (Sagamihara, JPN)**

date	17-Sep-16	time	2.71	3.81	4.88	5.94	6.99	8.05	9.12	10.22	11.32	12.42	13.64	5 / 1				
reaction time		interval		1.10	1.07	1.06	1.05	1.06	1.07	1.10	1.10	1.10	1.22					3.23
wind	3.2 m/s	velocity	4.80	7.73	7.94	8.02	8.10	8.02	7.94	7.73	7.73	7.73	8.61	7.33				7.89

*(2016.09.17) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en***FINAL - 2014 Japanese National High School Championships (Kofu, JPN)**

date	03-Aug-14	time	2.70	3.83	4.91	5.97	7.05	8.12	9.21	10.32	11.46	12.61	13.88	5 / 3				
reaction time		interval		1.13	1.08	1.06	1.08	1.07	1.09	1.11	1.14	1.15	1.27					3.27
wind	-0.9 m/s	velocity	4.81	7.52	7.87	8.02	7.87	7.94	7.80	7.66	7.46	7.39	8.27	7.20				7.80

*Yanagiya (2014) - research on athlete performance and technique- 2014 data book***Fujimori, Shiori (JPN)****Heat 1 - 2016 Japanese National Junior Championships (Mizuho, JPN)***(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.72	3.92	5.05	6.16	7.28	8.40	9.52	10.63	11.78	12.94		14.18	7 / 3						
reaction time		interval		1.20	1.13	1.11	1.12	1.12	1.12	1.11	1.15	1.16	1.24			3.44	3.36	3.42			
wind	1.7 m/s	velocity	4.78	7.08	7.52	7.66	7.59	7.59	7.59	7.66	7.39	7.33	8.47	7.05		7.41	7.59	7.46			
Fujiwara, Karen (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)			<i>Kishima (2022) - national high school championships biomechanics data collection</i>																		
date	07-Aug-22	time	2.69	3.79	4.88	5.97	7.07	8.15	9.25	10.37	11.52	12.69		14.00	3 / 5						
reaction time	0.173	interval		1.10	1.09	1.09	1.10	1.08	1.10	1.12	1.15	1.17	1.31			3.28	3.28	3.44			
wind	-1.5 m/s	velocity	4.83	7.73	7.80	7.80	7.73	7.87	7.73	7.59	7.39	7.26	7.67	7.14		7.77	7.77	7.41			
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	2.67	3.76	4.85	5.91	6.99	8.05	9.12	10.20	11.30	12.41		13.66	3 / 4						
reaction time	0.185	interval		1.09	1.09	1.06	1.08	1.06	1.07	1.08	1.10	1.11	1.25			3.24	3.21	3.29			
wind	1.8 m/s	velocity	4.87	7.80	7.80	8.02	7.87	8.02	7.94	7.87	7.73	7.66	8.04	7.32		7.87	7.94	7.75			
FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)			<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																		
date	26-Jun-21	time	2.66	3.78	4.86	5.92	6.99	8.06	9.13	10.26	11.39	12.53		13.83	4 / 3						
reaction time	0.177	interval		1.12	1.08	1.06	1.07	1.07	1.07	1.13	1.13	1.14	1.30	PB		3.26	3.21	3.40			
wind	0.2 m/s	velocity	4.89	7.59	7.87	8.02	7.94	7.94	7.94	7.52	7.52	7.46	7.73	7.23		7.82	7.94	7.50			
U18 FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (76cm)			<i>Enomoto (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	06-Oct-19	time	2.63	3.73	4.81	5.89	6.96	8.03	9.13	10.23	11.35	12.48		13.81	5 / 3						
reaction time	0.147	interval		1.10	1.08	1.08	1.07	1.07	1.10	1.10	1.12	1.13	1.33			3.26	3.24	3.35			
wind	1.6 m/s	velocity	4.94	7.73	7.87	7.87	7.94	7.94	7.73	7.73	7.59	7.52	7.89	7.24		7.82	7.87	7.61			
Fujiwara, Miho (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)			<i>Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis</i>																		
date	30-May-21	time	3.05	4.42	5.80	7.22	8.65	10.07	11.55	13.00	14.45	15.92		17.44	2 / 8						
reaction time		interval		1.37	1.38	1.42	1.43	1.42	1.48	1.45	1.45	1.47	1.52			4.17	4.33	4.37			
wind	1.7 m/s	velocity	4.26	6.20	6.16	5.99	5.94	5.99	5.74	5.86	5.86	5.78	6.61	5.73		6.12	5.89	5.84			
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	3.05	4.43	5.85	7.33	8.82	10.30	11.78	13.28	14.78	16.32		17.89	2 / 6						
reaction time		interval		1.38	1.42	1.48	1.49	1.48	1.48	1.50	1.50	1.54	1.57			4.28	4.45	4.54			
wind	0.4 m/s	velocity	4.26	6.16	5.99	5.74	5.70	5.74	5.74	5.67	5.67	5.52	6.40	5.59		5.96	5.73	5.62			
Fujiwara, Miku (JPN) (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 Japanese National Championships (Osaka, JPN)			<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																		
date	27-Jun-21	time	2.67	3.74	4.82	5.88	6.94	8.00	9.07	10.15	11.24	12.36		13.58	2 / 7						
reaction time	0.140	interval		1.07	1.08	1.06	1.06	1.06	1.07	1.08	1.09	1.12	1.22			3.21	3.19	3.29			
wind	0.0 m/s	velocity	4.87	7.94	7.87	8.02	8.02	8.02	7.94	7.87	7.80	7.59	8.24	7.36		7.94	7.99	7.75			
FINAL - 2021 Fuse Sprint (Tottori, JPN)			<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																		
date	06-Jun-21	time	2.64	3.68	4.73	5.74	6.77	7.80	8.83	9.88	10.95	12.05		13.26	2 / 7						
reaction time	0.134	interval		1.04	1.05	1.01	1.03	1.03	1.03	1.05	1.07	1.10	1.21			3.10	3.09	3.22			
wind	1.8 m/s	velocity	4.92	8.17	8.10	8.42	8.25	8.25	8.25	8.10	7.94	7.73	8.31	7.54		8.23	8.25	7.92			
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)			<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																		
date	01-Jun-21	time	2.67	3.70	4.76	5.79	6.84	7.87	8.94	10.01	11.09	12.18		13.37	3 / 5						
reaction time	0.146	interval		1.03	1.06	1.03	1.05	1.03	1.07	1.07	1.08	1.09	1.19			3.12	3.15	3.24			
wind	0.3 m/s	velocity	4.87	8.25	8.02	8.25	8.10	8.25	7.94	7.94	7.87	7.80	8.45	7.48		8.17	8.10	7.87			
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>																		
date	24-Oct-20	time	2.63	3.70	4.75	5.79	6.82	7.87	8.92	9.99	11.04	12.11		13.65	8 / 5						
reaction time		interval		1.07	1.05	1.04	1.03	1.05	1.05	1.07	1.05	1.07	1.54			3.16	3.13	3.19			
wind	-1.4 m/s	velocity	4.94	7.94	8.10	8.17	8.25	8.10	8.10	7.94	8.10	7.94	6.53	7.33		8.07	8.15	7.99			
FINAL - 2020 Japanese National Championships (Niigata, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>																		
date	03-Oct-20	time	2.67	3.74	4.81	5.88	6.94	8.01	9.09	10.19	11.30	12.42		13.66	2 / 8						
reaction time	0.134	interval		1.07	1.07	1.07	1.06	1.07	1.08	1.10	1.11	1.12	1.24			3.21	3.21	3.33			
wind	-0.1 m/s	velocity	4.87	7.94	7.94	7.94	8.02	7.94	7.87	7.73	7.66	7.59	8.10	7.32		7.94	7.94	7.66			
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>																		
date	20-Sep-20	time	2.71	3.81	4.87	5.93	6.99	8.04	9.11	10.21	11.33	12.47		13.46	2 / 5						
reaction time	0.124	interval		1.10	1.06	1.06	1.06	1.05	1.07	1.10	1.12	1.14	0.99			3.22	3.18	3.36			
wind	0.0 m/s	velocity	4.80	7.73	8.02	8.02	8.02	8.10	7.94	7.73	7.59	7.46	10.15	7.43		7.92	8.02	7.59			
Race 2 - 2020 World Athletics Trials (Fuji, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>																		
date	06-Sep-20	time	2.65	3.73	4.77	5.82	6.84	7.89	8.94	9.98	11.07	12.16		13.36	1 / 1						
reaction time		interval		1.08	1.04	1.05	1.02	1.05	1.05	1.04	1.09	1.09	1.20	PB		3.17	3.12	3.22			
wind	1.3 m/s	velocity	4.91	7.87	8.17	8.10	8.33	8.10	8.10	8.17	7.80	7.80	8.38	7.49		8.04	8.17	7.92			
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	2.74	3.85	4.94	6.02	7.08	8.17	9.26	10.36	11.48	12.61	13.82	1 / 4			
reaction time		interval		1.11	1.09	1.08	1.06	1.09	1.09	1.10	1.12	1.13	1.21		3.28	3.24	3.35
wind	1.3 m/s	velocity	4.74	7.66	7.80	7.87	8.02	7.80	7.80	7.73	7.59	7.52	8.68	7.24	7.77	7.87	7.61
FINAL - 2017 Fuse Sprint (Tottori, JPN)														(2017) - tfd-data-store.com/2017/06/04/post-848/			
date	04-Jun-17	time	2.74	3.85	4.94	6.03	7.12	8.20	9.30	10.39	11.49	12.60	13.77	7 / 6			
reaction time		interval		1.11	1.09	1.09	1.09	1.08	1.10	1.09	1.10	1.11	1.17		3.29	3.27	3.30
wind	3.7 m/s	velocity	4.74	7.66	7.80	7.80	7.80	7.87	7.73	7.80	7.73	7.66	8.97	7.26	7.75	7.80	7.73
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)														(2017) - tfd-data-store.com/2017/05/08/post-413/			
date	07-May-17	time	2.77	3.89	5.00	6.10	7.21	8.31	9.41	10.53	11.65	12.77	13.97	3 / 6			
reaction time		interval		1.12	1.11	1.10	1.11	1.10	1.10	1.12	1.12	1.12	1.20		3.33	3.31	3.36
wind	-0.2 m/s	velocity	4.69	7.59	7.66	7.73	7.66	7.73	7.73	7.59	7.59	7.59	8.75	7.16	7.66	7.70	7.59
FINAL - 2017 Michitaka Memorial (Osaka, JPN)														(2017) - tfd-data-store.com/2017/05/08/post-413/			
date	07-May-17	time	2.78	3.92	5.03	6.15	7.26	8.38	9.50	10.65	11.78	12.95	14.19	2 / 9			
reaction time		interval		1.14	1.11	1.12	1.11	1.12	1.12	1.15	1.13	1.17	1.24		3.37	3.35	3.45
wind	-0.6 m/s	velocity	4.68	7.46	7.66	7.59	7.66	7.59	7.59	7.39	7.52	7.26	8.47	7.05	7.57	7.61	7.39
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	2.72	3.83	4.93	6.02	7.09	8.17	9.23	10.31	11.37	12.45	13.63	2 / 4			
reaction time		interval		1.11	1.10	1.09	1.07	1.08	1.06	1.08	1.06	1.08	1.18		3.30	3.21	3.22
wind	1.1 m/s	velocity	4.78	7.66	7.73	7.80	7.94	7.87	8.02	7.87	8.02	7.87	8.90	7.34	7.73	7.94	7.92
FINAL - 2015 Japanese National Championships (Niigata, JPN)														Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions			
date	27-Jun-15	time	2.65	3.73	4.80	5.86	6.92	7.98	9.03	10.10	11.18	12.29	13.46	8 / 4			
reaction time	0.133	interval		1.08	1.07	1.06	1.06	1.06	1.05	1.07	1.08	1.11	1.17		3.21	3.17	3.26
wind	-0.2 m/s	velocity	4.91	7.87	7.94	8.02	8.02	8.02	8.10	7.94	7.87	7.66	8.97	7.43	7.94	8.04	7.82
Fujiwara, Rika (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 Tokai Student Autumn Championships (Gifu, JPN)														(2016.10.10) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en			
date	09-Oct-16	time	2.75	3.88	4.99	6.09	7.17	8.28	9.41	10.53	11.67	12.84	14.18	6 / 1			
reaction time		interval		1.13	1.11	1.10	1.08	1.11	1.13	1.12	1.14	1.17	1.34		3.34	3.32	3.43
wind	1.3 m/s	velocity	4.73	7.52	7.66	7.73	7.87	7.66	7.52	7.59	7.46	7.26	7.84	7.05	7.63	7.68	7.43
Fujiwara, Rui (JPN) (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 - 2016 Japanese National Junior Championships (Mizuho, JPN)														(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en			
date	21-Oct-16	time	2.78	3.89	4.99	6.10	7.21	8.33	9.46	10.62	11.78	12.97	14.28	2 / 2			
reaction time		interval		1.11	1.10	1.11	1.11	1.12	1.13	1.16	1.16	1.19	1.31		3.32	3.36	3.51
wind	0.9 m/s	velocity	4.68	7.66	7.73	7.66	7.66	7.59	7.52	7.33	7.33	7.14	8.02	7.00	7.68	7.59	7.26
FINAL - 2016 Japanese National High School Championships (Okayama, JPN)														Kota (2016) - 69th high school championships: JAF scientific committee- biomechanics data			
date	02-Aug-16	time	2.73	3.82	4.88	5.95	7.03	8.09	9.16	10.25	11.33	12.45	13.68	8 / 3			
reaction time	0.146	interval		1.09	1.06	1.07	1.08	1.06	1.07	1.09	1.08	1.12	1.23	PB	3.22	3.21	3.29
wind	1.5 m/s	velocity	4.76	7.80	8.02	7.94	7.87	8.02	7.94	7.80	7.87	7.59	8.54	7.31	7.92	7.94	7.75
Fukube, Mako (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 3 - 2024 Olympic Games (Paris, FRA)														Paris 2024 Olympic Games - Results Book (2024)			
date	09-Aug-24	time	2.39	3.44	4.46	5.46	6.46	7.46	8.47	9.50	10.54	11.60	12.89	3 / 5			
reaction time	0.143	interval		1.05	1.02	1.00	1.00	1.00	1.01	1.03	1.04	1.06	1.29		3.07	3.01	3.13
wind	-0.7 m/s	velocity	5.44	8.10	8.33	8.50	8.50	8.50	8.42	8.25	8.17	8.02	7.79	7.76	8.31	8.47	8.15
Heat 1 - 2024 Olympic Games (Paris, FRA)														Paris 2024 Olympic Games - Results Book (2024)			
date	07-Aug-24	time	2.43	3.49	4.50	5.49	6.49	7.49	8.49	9.52	10.55	11.59	12.85	2 / 4			
reaction time	0.150	interval		1.06	1.01	0.99	1.00	1.00	1.00	1.03	1.03	1.04	1.26		3.06	3.00	3.10
wind	-0.1 m/s	velocity	5.35	8.02	8.42	8.59	8.50	8.50	8.50	8.25	8.25	8.17	7.98	7.78	8.33	8.50	8.23
FINAL - 2023 Japanese National Championships (Osaka, JPN)														Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season			
date	03-Jun-23	time	2.62	3.66	4.69	5.67	6.68	7.68	8.70	9.73	10.79	11.84	12.99	7 / 4			
reaction time	0.164	interval		1.04	1.03	0.98	1.01	1.00	1.02	1.03	1.06	1.05	1.15		3.05	3.03	3.14
wind	-1.2 m/s	velocity	4.96	8.17	8.25	8.67	8.42	8.50	8.33	8.25	8.02	8.10	8.74	7.70	8.36	8.42	8.12
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)														Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season			
date	21-May-23	time	2.56	3.61	4.63	5.64	6.66	7.67	8.67	9.70	10.73	11.78	12.91	5 / 3			
reaction time	0.128	interval		1.05	1.02	1.01	1.02	1.01	1.00	1.03	1.03	1.05	1.13		3.08	3.03	3.11
wind	0.4 m/s	velocity	5.08	8.10	8.33	8.42	8.33	8.42	8.50	8.25	8.25	8.10	8.89	7.75	8.28	8.42	8.20
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)														Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season			
date	29-Apr-23	time	2.61	3.67	4.70	5.71	6.73	7.74	8.77	9.79	10.83	11.88	13.02	6 / 3			
reaction time	0.123	interval		1.06	1.03	1.01	1.02	1.01	1.03	1.02	1.04	1.05	1.14		3.10	3.06	3.11
wind	0.6 m/s	velocity	4.98	8.02	8.25	8.42	8.33	8.42	8.25	8.33	8.17	8.10	8.82	7.68	8.23	8.33	8.20
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)														Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season			

date	24-Jul-22	time	2.61	3.64	4.64	5.63	6.63	7.62	8.63	9.64	10.66	11.70		12.82	1 / 8			
reaction time	0.119	interval		1.03	1.00	0.99	1.00	0.99	1.01	1.01	1.02	1.04	1.12	NR PB		3.02	3.00	3.07
wind	0.9 m/s	velocity	4.98	8.25	8.50	8.59	8.50	8.59	8.42	8.42	8.33	8.17	8.97	7.80		8.44	8.50	8.31
Heat 5 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	23-Jul-22	time	2.53	3.56	4.60	5.60	6.60	7.60	8.63	9.66	10.70	11.76		12.96	7 / 4			
reaction time	0.108	interval		1.03	1.04	1.00	1.00	1.00	1.03	1.03	1.04	1.06	1.20			3.07	3.03	3.13
wind	0.7 m/s	velocity	5.14	8.25	8.17	8.50	8.50	8.50	8.25	8.25	8.17	8.02	8.37	7.72		8.31	8.42	8.15
FINAL - 2022 Japanese National Championships (Osaka, JPN)														<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>				
date	11-Jun-22	time	2.63	3.70	4.77	5.78	6.79	7.82	8.83	9.86	10.90	11.95		13.10	4 / 1			
reaction time	0.136	interval		1.07	1.07	1.01	1.01	1.03	1.01	1.03	1.04	1.05	1.15			3.15	3.05	3.12
wind	0.8 m/s	velocity	4.94	7.94	7.94	8.42	8.42	8.25	8.42	8.25	8.17	8.10	8.74	7.63		8.10	8.36	8.17
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)														<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>				
date	08-May-22	time	2.59	3.65	4.67	5.68	6.69	7.72	8.74	9.78	10.84	11.91		13.05	7 / 2			
reaction time	0.122	interval		1.06	1.02	1.01	1.01	1.03	1.02	1.04	1.06	1.07	1.14	PB		3.09	3.06	3.17
wind	-0.1 m/s	velocity	5.02	8.02	8.33	8.42	8.42	8.25	8.33	8.17	8.02	7.94	8.82	7.66		8.25	8.33	8.04
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)														<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>				
date	29-Apr-22	time	2.62	3.69	4.74	5.78	6.81	7.85	8.92	9.98	11.04	12.10		13.21	5 / 2			
reaction time	0.143	interval		1.07	1.05	1.04	1.03	1.04	1.07	1.06	1.06	1.06	1.11			3.16	3.14	3.18
wind	-2.8 m/s	velocity	4.96	7.94	8.10	8.17	8.25	8.17	7.94	8.02	8.02	8.02	9.05	7.57		8.07	8.12	8.02
FINAL - 2020 Athlete Night Games (Fukui, JPN)														<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>				
date	29-Aug-20	time	2.67	3.75	4.82	5.86	6.87	7.92	8.96	10.03	11.10	12.19		13.36	/ 6			
reaction time		interval		1.08	1.07	1.04	1.01	1.05	1.04	1.07	1.07	1.09	1.17			3.19	3.10	3.23
wind	2.1 m/s	velocity	4.87	7.87	7.94	8.17	8.42	8.10	8.17	7.94	7.94	7.80	8.59	7.49		7.99	8.23	7.89
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)														<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>				
date	23-Aug-20	time	2.67	3.73	4.78	5.81	6.83	7.89	8.94	10.00	11.07	12.16		13.33	9 / 6			
reaction time	0.123	interval		1.06	1.05	1.03	1.02	1.06	1.05	1.06	1.07	1.09	1.17			3.14	3.13	3.22
wind	0.3 m/s	velocity	4.87	8.02	8.10	8.25	8.33	8.02	8.10	8.02	7.94	7.80	8.59	7.50		8.12	8.15	7.92
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)														<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>				
date	01-Sep-19	time	2.59	3.62	4.65	5.67	6.68	7.70	8.72	9.80	10.87	11.95		13.15	6 / 2			
reaction time		interval		1.03	1.03	1.02	1.01	1.02	1.02	1.08	1.07	1.08	1.20			3.08	3.05	3.23
wind	1.2 m/s	velocity	5.02	8.25	8.25	8.33	8.42	8.33	8.33	7.87	7.94	7.87	8.75	7.60		8.28	8.36	7.89
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)														<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>				
date	29-Jun-19	time	2.64	3.69	4.70	5.78	6.83	7.85	8.90	9.96	11.03	12.11		13.30	4 / 6			
reaction time	0.150	interval		1.05	1.01	1.08	1.05	1.02	1.05	1.06	1.07	1.08	1.19			3.14	3.12	3.21
wind	0.6 m/s	velocity	4.92	8.10	8.42	7.87	8.10	8.33	8.10	8.02	7.94	7.87	8.82	7.52		8.12	8.17	7.94
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	3.65	4.68	5.70	6.72	7.75	8.78	9.83	10.91	12.00		13.19	7 / 4			
reaction time	0.139	interval		1.05	1.03	1.02	1.02	1.03	1.03	1.05	1.08	1.09	1.19			3.10	3.08	3.22
wind	3.5 m/s	velocity	5.00	8.10	8.25	8.33	8.33	8.25	8.25	8.10	7.87	7.80	8.82	7.58		8.23	8.28	7.92
FINAL - 2019 Kinami Memorial (Osaka, JPN)														<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>				
date	06-May-19	time	2.64	3.71	4.75	5.78	6.82	7.86	8.90	9.96	11.03	12.11		13.31	9 / 4			
reaction time		interval		1.07	1.04	1.03	1.04	1.04	1.04	1.06	1.07	1.08	1.20	PB		3.14	3.12	3.21
wind	0.6 m/s	velocity	4.92	7.94	8.17	8.25	8.17	8.17	8.17	8.02	7.94	7.87	8.75	7.51		8.12	8.17	7.94
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	2.66	3.75	4.80	5.84	6.89	7.94	8.99	10.06	11.14	12.25		13.47	7 / 4			
reaction time		interval		1.09	1.05	1.04	1.05	1.05	1.05	1.07	1.08	1.11	1.22			3.18	3.15	3.26
wind	0.6 m/s	velocity	4.89	7.80	8.10	8.17	8.10	8.10	8.10	7.94	7.87	7.66	8.61	7.42		8.02	8.10	7.82
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>				
date	24-Jun-18	time	2.70	3.78	4.87	5.94	6.98	8.03	9.08	10.15	11.25	12.36		13.56	9 / 7			
reaction time	0.144	interval		1.08	1.09	1.07	1.04	1.05	1.05	1.07	1.10	1.11	1.20			3.24	3.14	3.28
wind	1.1 m/s	velocity	4.81	7.87	7.80	7.94	8.17	8.10	8.10	7.94	7.73	7.66	8.75	7.37		7.87	8.12	7.77
FINAL - 2018 Fuse Sprint (Tottori, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>				
date	03-Jun-18	time	2.66	3.73	4.78	5.83	6.87	7.90	8.95	10.00	11.07	12.13		13.34	/ 3			
reaction time		interval		1.07	1.05	1.05	1.04	1.03	1.05	1.05	1.07	1.06	1.21	PB		3.17	3.12	3.18
wind	0.6 m/s	velocity	4.89	7.94	8.10	8.10	8.17	8.25	8.10	8.10	7.94	8.02	8.68	7.50		8.04	8.17	8.02
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>				
date	29-Apr-18	time	2.64	3.68	4.72	5.73	6.76	7.80	8.83	9.85	10.91	11.99		13.16	2 / 4			
reaction time		interval		1.04	1.04	1.01	1.03	1.04	1.03	1.02	1.06	1.08	1.17			3.09	3.10	3.16
wind	3.6 m/s	velocity	4.92	8.17	8.17	8.42	8.25	8.17	8.25	8.33	8.02	7.87	8.97	7.60		8.25	8.23	8.07

FINAL - 2017 Japanese National Championships (Osaka, JPN)(2017) - [tfdata-store.com/2017/07/19/post-1068/](https://www.tfd-data-store.com/2017/07/19/post-1068/)

date	25-Jun-17	time	2.68	3.74	4.80	5.86	6.91	7.95	9.01	10.08	11.15	12.25	13.45	7 / 4				
reaction time	0.140	interval		1.06	1.06	1.06	1.05	1.04	1.06	1.07	1.07	1.10	1.20			3.18	3.15	3.24
wind	0.4 m/s	velocity	4.85	8.02	8.02	8.02	8.10	8.17	8.02	7.94	7.94	7.73	8.75	7.43		8.02	8.10	7.87

Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)(2017) - [tfdata-store.com/2017/06/08/post-920/](https://www.tfd-data-store.com/2017/06/08/post-920/)

date	26-May-17	time	2.70	3.78	4.83	5.87	6.91	7.94	9.00	10.07	11.15	12.25	13.46	7 / 1				
reaction time	0.151	interval		1.08	1.05	1.04	1.04	1.03	1.06	1.07	1.08	1.10	1.21	PB		3.17	3.13	3.25
wind	1.9 m/s	velocity	4.81	7.87	8.10	8.17	8.17	8.25	8.02	7.94	7.87	7.73	8.68	7.43		8.04	8.15	7.85

B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)(2017) - [tfdata-store.com/2017/05/01/458/](https://www.tfd-data-store.com/2017/05/01/458/)

date	29-Apr-17	time	2.72	3.81	4.87	5.92	6.98	8.06	9.14	10.21	11.29	12.40	13.58	6 / 3				
reaction time		interval		1.09	1.06	1.05	1.06	1.08	1.08	1.07	1.08	1.11	1.18			3.20	3.22	3.26
wind	4.1 m/s	velocity	4.78	7.80	8.02	8.10	8.02	7.87	7.87	7.94	7.87	7.66	8.90	7.36		7.97	7.92	7.82

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	2.72	3.79	4.85	5.91	6.95	8.01	9.08	10.17	11.27	12.39	13.59	5 / 3				
reaction time	0.146	interval		1.07	1.06	1.06	1.04	1.06	1.07	1.09	1.10	1.12	1.20			3.19	3.17	3.31
wind	-0.2 m/s	velocity	4.78	7.94	8.02	8.02	8.17	8.02	7.94	7.80	7.73	7.59	8.75	7.36		7.99	8.04	7.70

Fukumoto, Tomoho (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	2.78	3.97	5.13	6.30	7.45	8.63	9.87	11.08	12.35	13.67	15.18	6 / 3				
reaction time		interval		1.19	1.16	1.17	1.15	1.18	1.24	1.21	1.27	1.32	1.51			3.52	3.57	3.80
wind	-0.4 m/s	velocity	4.68	7.14	7.33	7.26	7.39	7.20	6.85	7.02	6.69	6.44	6.66	6.59		7.24	7.14	6.71

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	3.93	5.12	6.27	7.42	8.60	9.78	10.97	12.18	13.42	14.74	3 / 1				
reaction time		interval		1.15	1.19	1.15	1.15	1.18	1.18	1.19	1.21	1.24	1.32			3.49	3.51	3.64
wind	1.7 m/s	velocity	4.68	7.39	7.14	7.39	7.39	7.20	7.20	7.14	7.02	6.85	7.61	6.78		7.31	7.26	7.01

FINAL - 2020 Shimane High School Championships (Izumo, JPN)Shimizu (2020) - [shimane high school championships 2020 - biomechanics data analysis](#)

date	11-Jul-20	time	2.78	3.93	5.08	6.23	7.40	8.57	9.75	10.97	12.20	13.47	14.89	3 / 1				
reaction time		interval		1.15	1.15	1.15	1.17	1.17	1.18	1.22	1.23	1.27	1.42			3.45	3.52	3.72
wind	0.4 m/s	velocity	4.68	7.39	7.39	7.39	7.26	7.26	7.20	6.97	6.91	6.69	7.08	6.72		7.39	7.24	6.85

Funck, Annette (GER) (1977)**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	2.60	3.63	4.66	5.68	6.69	7.73	8.77	9.83	10.89	11.96	13.14	4				
reaction time	0.111	interval		1.03	1.03	1.02	1.01	1.04	1.04	1.06	1.06	1.07	1.18	PB		3.08	3.09	3.19
wind	0.9 m/s	velocity	5.00	8.25	8.25	8.33	8.42	8.17	8.17	8.02	8.02	7.94	8.90	7.61		8.28	8.25	7.99

Thimm, Annette (GER) (1977)**FINAL - 2002 German National Indoor Championships (Sindelfingen, GER)**Hücklekemkes (2002) - [explosive starten vielfältig erlernen](#)

date	16-Feb-02	time	2.78	3.88	4.94	5.98	7.04						8.41	6				
reaction time	0.199	interval		1.10	1.06	1.04	1.06						1.37			3.20		
wind		velocity	4.68	7.73	8.02	8.17	8.02						9.49	7.13		7.97		

Fune, Hailey (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 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)**Henson (2024) - [Athlete First: 2024 year end hurdle report](#)

date	29-Jun-24	time	2.73	3.82	4.89	5.94	6.99	8.04	9.07	10.14	11.21	12.33	13.58	2 / 7				
reaction time		interval		1.09	1.07	1.05	1.05	1.05	1.03	1.07	1.07	1.12	1.25			3.21	3.13	3.26
wind	1.0 m/s	velocity	4.76	7.80	7.94	8.10	8.10	8.10	8.25	7.94	7.94	7.59	8.04	7.36		7.94	8.15	7.82

Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)Henson (2024) - [Athlete First: 2024 year end hurdle report](#)

date	28-Jun-24	time	2.63	3.68	4.75	5.85	6.90	7.93	8.96	10.00	11.08	12.13	13.37	8 / 7				
reaction time		interval		1.05	1.07	1.10	1.05	1.03	1.03	1.04	1.08	1.05	1.24			3.22	3.11	3.17
wind	1.7 m/s	velocity	4.94	8.10	7.94	7.73	8.10	8.25	8.25	8.17	7.87	8.10	8.10	7.48		7.92	8.20	8.04

Furuhashi, Kana (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 2 - 2016 Japanese National Junior Championships (Mizuho, JPN)**(2016.10.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	21-Oct-16	time	2.73	3.82	4.90	6.00	7.09	8.19	9.26	10.35	11.48	12.64	13.89	3 / 2				
reaction time		interval		1.09	1.08	1.10	1.09	1.10	1.07	1.09	1.13	1.16	1.25			3.27	3.26	3.38
wind	1.0 m/s	velocity	4.76	7.80	7.87	7.73	7.80	7.73	7.94	7.80	7.52	7.33	8.40	7.20		7.80	7.82	7.54

Heat 2 - 2016 Japanese National Junior Championships (Mizuho, JPN)(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	21-Oct-16	time	2.70	3.81	4.90	6.00	7.11	8.19	9.29	10.42	11.56	12.73	13.96	2 / 1				
reaction time		interval		1.11	1.09	1.10	1.11	1.08	1.10	1.13	1.14	1.17	1.23			3.30	3.29	3.44
wind	1.3 m/s	velocity	4.81	7.66	7.80	7.73	7.66	7.87	7.73	7.52	7.46	7.26	8.54	7.16		7.73	7.75	7.41

FINAL - 2016 Japanese National High School Championships (Okayama, JPN)Kota (2016) - [69th high school championships: JAF scientific committee- biomechanics data](#)

date	02-Aug-16	time	2.75	3.87	4.98	6.08	7.15	8.20	9.31	10.41	11.52	12.66	13.88	2 / 5				
reaction time	0.150	interval		1.12	1.11	1.10	1.07	1.05	1.11	1.10	1.11	1.14	1.22			3.33	3.23	3.35

wind	1.5 m/s	velocity	4.73	7.59	7.66	7.73	7.94	8.10	7.66	7.73	7.66	7.46	8.61	7.20	7.66	7.89	7.61
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FINAL - 2016 Tokai High School Meeting (Gifu, JPN)(2016.06.18) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	18-Jun-16	time	2.69	3.81	4.91	6.00	7.09	8.20	9.31	10.43	11.56	12.69	13.91	4 / 1			
reaction time		interval		1.12	1.10	1.09	1.09	1.11	1.11	1.12	1.13	1.13	1.22		3.31	3.31	3.38
wind	0.9 m/s	velocity	4.83	7.59	7.73	7.80	7.80	7.66	7.66	7.59	7.52	7.52	8.61	7.19	7.70	7.70	7.54

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	2.75	3.85	4.98	6.10	7.21	8.33	9.45	10.58	11.72	12.89	14.11	3 / 1			
reaction time		interval		1.10	1.13	1.12	1.11	1.12	1.12	1.13	1.14	1.17	1.22		3.35	3.35	3.44
wind	-1.5 m/s	velocity	4.73	7.73	7.52	7.59	7.66	7.59	7.59	7.52	7.46	7.26	8.61	7.09	7.61	7.61	7.41

Fust, Katja (GER) (1974)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 1993 European Junior Championships (San Sebastian, ESP)*Hücklekemkes (1997) - geschwindigkeitstabellen vereinfachen die auswertung von hürdensprints*

date	01-Aug-93	time	2.78	3.84	4.92	5.96	7.04	8.08	9.16	10.20	11.28	12.34	13.55	/ 2			
reaction time		interval		1.06	1.08	1.04	1.08	1.04	1.08	1.04	1.08	1.06	1.21		3.18	3.20	3.18
wind	1.3 m/s	velocity	4.68	8.02	7.87	8.17	7.87	8.17	7.87	8.17	7.87	8.02	8.68	7.38	8.02	7.97	8.02

Heat 2 - 1993 European Junior Championships (San Sebastian, ESP)*Hücklekemkes (1997) - geschwindigkeitstabellen vereinfachen die auswertung von hürdensprints*

date	31-Jul-93	time	2.74	3.84	4.90	5.96	7.00	8.10	9.18	10.20	11.28	12.38	13.70	/ 2			
reaction time		interval		1.10	1.06	1.06	1.04	1.10	1.08	1.02	1.08	1.10	1.32		3.22	3.22	3.20
wind	0.4 m/s	velocity	4.74	7.73	8.02	8.02	8.17	7.73	7.87	8.33	7.87	7.73	7.95	7.30	7.92	7.92	7.97

Galertová, Alena (CZE) (1992)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)*Fehér (2014) - Final report from the Czech Republic national championships*

date	02-Aug-14	time	2.86	4.06	5.22	6.38	7.53	8.68	9.82	10.97	12.13	13.31	14.63	1 / 8			
reaction time	0.186	interval		1.20	1.16	1.16	1.15	1.15	1.14	1.15	1.16	1.18	1.32		3.52	3.44	3.49
wind	0.4 m/s	velocity	4.55	7.08	7.33	7.33	7.39	7.39	7.46	7.39	7.33	7.20	7.95	6.84	7.24	7.41	7.31

Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)*Fehér (2014) - Final report from the Czech Republic national championships*

date	02-Aug-14	time	2.82	3.98	5.12	6.23	7.34	8.47	9.60	10.73	11.89	13.08	14.39	2 / 5			
reaction time	0.189	interval		1.16	1.14	1.11	1.11	1.13	1.13	1.13	1.16	1.19	1.31		3.41	3.37	3.48
wind	0.2 m/s	velocity	4.61	7.33	7.46	7.66	7.66	7.52	7.52	7.52	7.33	7.14	8.02	6.95	7.48	7.57	7.33

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	2.88	4.00	5.13	6.20	7.30	8.42	9.57	10.73	11.88	13.03	14.35	8 / 7			
reaction time	0.220	interval		1.12	1.13	1.07	1.10	1.12	1.15	1.16	1.15	1.15	1.32		3.32	3.37	3.46
wind	0.3 m/s	velocity	4.51	7.59	7.52	7.94	7.73	7.59	7.39	7.33	7.39	7.39	7.95	6.97	7.68	7.57	7.37

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	2.83	3.97	5.08	6.15	7.28	8.37	9.50	10.61	11.70	12.89	14.14	5 / 2			
reaction time	0.197	interval		1.14	1.11	1.07	1.13	1.09	1.13	1.11	1.09	1.19	1.25		3.32	3.35	3.39
wind	-1.8 m/s	velocity	4.59	7.46	7.66	7.94	7.52	7.80	7.52	7.66	7.80	7.14	8.40	7.07	7.68	7.61	7.52

Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)*Fehér (2012) - Czech Republic indoor national championships - women's 60m hurdles*

date	25-Feb-12	time	2.88	4.05	5.21	6.35	7.53						9.14	7 / 6			
reaction time	0.196	interval		1.17	1.16	1.14	1.18						1.61		3.47		
		velocity	4.51	7.26	7.33	7.46	7.20						8.07	6.56	7.35		

Gao Miao (CHN) (2001)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heptathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)*CAA Hurdle Development (2021)*

date	24-Jun-21	time	2.88	4.04	5.19	6.32	7.49	8.65	9.84	11.03	12.23	13.43	14.73	3 / 3			
reaction time	0.213	interval		1.16	1.15	1.13	1.17	1.16	1.19	1.19	1.20	1.20	1.30		3.44	3.52	3.59
wind	0.3 m/s	velocity	4.51	7.33	7.39	7.52	7.26	7.33	7.14	7.14	7.08	7.08	7.73	6.79	7.41	7.24	7.10

Heptathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)*CAA Hurdle Development (2019)*

date	23-Aug-19	time	2.87	3.99	5.11	6.24	7.41	8.56	9.73	10.93	12.13	13.36	14.62	5 / 4			
reaction time	0.218	interval		1.12	1.12	1.13	1.17	1.15	1.17	1.20	1.20	1.23	1.26		3.37	3.49	3.63
wind	?? m/s	velocity	4.53	7.59	7.59	7.52	7.26	7.39	7.26	7.08	7.08	6.91	8.33	6.84	7.57	7.31	7.02

Heptathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	08-Jul-19	time	2.75	3.91	5.04	6.17	7.32	8.44	9.61	10.79	11.98	13.19	14.48	1 / 2			
reaction time	0.154	interval		1.16	1.13	1.13	1.15	1.12	1.17	1.18	1.19	1.21	1.29		3.42	3.44	3.58
wind	0.8 m/s	velocity	4.73	7.33	7.52	7.52	7.39	7.59	7.26	7.20	7.14	7.02	8.14	6.91	7.46	7.41	7.12

Gao Yirong (CHN) (2004)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2024 Chinese National Championships (Quzhou, CHN)*Shandong Athletics Sport Science (2024)*

date	16-Sep-24	time	2.74	3.82	4.89	5.92	6.96	8.00	9.06	10.13	11.20	12.28	13.50	6 / 5			
reaction time	0.237	interval		1.08	1.07	1.03	1.04	1.04	1.06	1.07	1.07	1.08	1.22		3.18	3.14	3.22
wind	0.6 m/s	velocity	4.74	7.87	7.94	8.25	8.17	8.17	8.02	7.94	7.94	7.87	8.24	7.41	8.02	8.12	7.92

FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)*Shandong Athletics Sport Science (2024)*

date	30-Jun-24	time	2.68	3.74	4.77	5.84	6.91	7.98	9.04	10.14	11.27	12.41	13.66	1 / 8			
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reaction time	0.183	interval	1.06	1.03	1.07	1.07	1.07	1.06	1.10	1.13	1.14	1.25			3.16	3.20	3.37
wind	0.2 m/s	velocity	4.85	8.02	8.25	7.94	7.94	7.94	8.02	7.73	7.52	7.46	8.04	7.32	8.07	7.97	7.57

Heat 3 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)

Shandong Athletics Sport Science (2024)

date	29-Jun-24	time	2.67	3.76	4.82	5.88	6.92	7.97	9.04	10.11	11.21	12.33		13.60	8 / 2			
reaction time	0.160	interval	1.09	1.06	1.06	1.04	1.05	1.07	1.07	1.10	1.12	1.27				3.21	3.16	3.29
wind	-0.4 m/s	velocity	4.87	7.80	8.02	8.02	8.17	8.10	7.94	7.94	7.73	7.59	7.91	7.35		7.94	8.07	7.75

National FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)

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

date	02-Sep-23	time	2.67	3.74	4.80	5.87	6.94	7.98	9.07	10.17	11.27	12.44		13.70	8 / 6			
reaction time	0.161	interval	1.07	1.06	1.07	1.07	1.04	1.09	1.10	1.10	1.10	1.17	1.26			3.20	3.20	3.37
wind	0.1 m/s	velocity	4.87	7.94	8.02	7.94	7.94	8.17	7.80	7.73	7.73	7.26	7.98	7.30		7.97	7.97	7.57

FINAL - 2023 Chinese National Grand Prix 3 (Taizhou, CHN)

Shandong Athletics Sport Science (2023)

date	27-May-23	time	2.70	3.80	4.90	5.96	7.04	8.10	9.18	10.29	11.39	12.57		13.83	2 / 3			
reaction time	0.177	interval	1.10	1.10	1.06	1.08	1.06	1.08	1.11	1.10	1.18	1.26		PB		3.26	3.22	3.39
wind	-1.2 m/s	velocity	4.81	7.73	7.73	8.02	7.87	8.02	7.87	7.66	7.73	7.20	7.98	7.23		7.82	7.92	7.52

FINAL - 2023 Chinese Indoor National Championships (Tianjin, CHN)

Shandong Athletics Sport Science (2023)

date	16-Mar-23	time	2.78	3.87	4.97	6.07	7.14							8.64	1 / 8			
reaction time	0.179	interval	1.09	1.10	1.10	1.07						1.50		=PB		3.29		
		velocity	4.68	7.80	7.73	7.73	7.94					8.67		6.94		7.75		

Heat 2 - 2023 Chinese Indoor National Championships (Tianjin, CHN)

Shandong Athletics Sport Science (2023)

date	16-Mar-23	time	2.73	3.84	4.94	6.06	7.15							8.64	1 / 5			
reaction time	0.180	interval	1.11	1.10	1.12	1.09						1.49		PB		3.33		
		velocity	4.76	7.66	7.73	7.59	7.80					8.72		6.94		7.66		

Ge Ge (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 - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.85	3.98	5.14	6.28	7.39	8.56	9.72	10.93	12.14	13.40		14.80	8 / 6			
reaction time	0.298	interval	1.13	1.16	1.14	1.11	1.17	1.16	1.21	1.21	1.26	1.40				3.43	3.44	3.68
wind	-1.6 m/s	velocity	4.56	7.52	7.33	7.46	7.66	7.26	7.33	7.02	7.02	6.75	7.18	6.76		7.43	7.41	6.93

U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)

CAA Hurdle Development (2019)

date	14-Aug-19	time	2.67	3.79	4.91	6.02	7.11	8.24	9.37	10.49	11.59	12.76		14.06	3 / 4			
reaction time	0.188	interval	1.12	1.12	1.11	1.09	1.13	1.13	1.12	1.10	1.17	1.30		PB		3.35	3.35	3.39
wind	-0.1 m/s	velocity	4.87	7.59	7.59	7.66	7.80	7.52	7.52	7.59	7.73	7.26	8.08	7.11		7.61	7.61	7.52

U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN)

CAA Hurdle Development (2019)

date	14-Aug-19	time	2.76	3.90	5.02	6.09	7.19	8.31	9.45	10.58	11.71	12.88		14.14	6 / 3			
reaction time	0.190	interval	1.14	1.12	1.07	1.10	1.12	1.14	1.13	1.13	1.17	1.26		PB		3.33	3.36	3.43
wind	-0.2 m/s	velocity	4.71	7.46	7.59	7.94	7.73	7.59	7.46	7.52	7.52	7.26	8.33	7.07		7.66	7.59	7.43

Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)

CAA Hurdle Development (2019)

date	02-Aug-19	time	2.79	3.92	5.07	6.22	7.34	8.47	9.64	10.81	11.98	13.21		14.56	5 / 8			
reaction time	0.215	interval	1.13	1.15	1.15	1.12	1.13	1.17	1.17	1.17	1.23	1.35				3.43	3.42	3.57
wind	0.2 m/s	velocity	4.66	7.52	7.39	7.39	7.59	7.52	7.26	7.26	7.26	6.91	7.78	6.87		7.43	7.46	7.14

Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)

CAA Hurdle Development (2019)

date	08-Jul-19	time	2.78	3.91	5.00	6.10	7.20	8.33	9.46	10.62	11.78	13.00		14.34	5 / 5			
reaction time	0.211	interval	1.13	1.09	1.10	1.10	1.13	1.13	1.16	1.16	1.22	1.34				3.32	3.36	3.54
wind	0.7 m/s	velocity	4.68	7.52	7.80	7.73	7.73	7.52	7.52	7.33	7.33	6.97	7.84	6.97		7.68	7.59	7.20

B-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)

CAA Hurdle Development (2019)

date	24-Feb-19	time	2.72	3.83	4.94	6.04	7.16							8.65	2 / 2			
reaction time		interval	1.11	1.11	1.10	1.12						1.49		PB		3.32		
		velocity	4.78	7.66	7.66	7.73	7.59					8.72		6.94		7.68		

George, Phylcia (CAN) (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 1 - 2017 IAAF World Championships (London, GBR)

Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles

date	11-Aug-17	time	2.47	3.53	4.54	5.54	6.52	7.52	8.56	9.59	10.64	11.72		13.04	8 / 5			
reaction time	0.117	interval	1.06	1.01	1.00	0.98	1.00	1.04	1.03	1.05	1.08	1.32				3.07	3.02	3.16
wind	0.5 m/s	velocity	5.26	8.02	8.42	8.50	8.67	8.50	8.17	8.25	8.10	7.87	7.95	7.67		8.31	8.44	8.07

FINAL - 2017 Doha Diamond League (Doha, QAT) (TV Analysis)

Henson (2020) - Athlete First: 2017 year end hurdle report

date	05-May-17	time	2.60	3.66	4.70	5.70	6.70	7.72	8.74	9.78	10.82	11.90		13.14	1 / 6			
reaction time	0.162	interval	1.06	1.04	1.00	1.00	1.02	1.02	1.04	1.04	1.08	1.24				3.10	3.04	3.16
wind	-2.3 m/s	velocity	5.00	8.02	8.17	8.50	8.50	8.33	8.33	8.17	8.17	7.87	8.47	7.61		8.23	8.39	8.07

FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)

Henson (2021) - Athlete First: 2016 year end hurdle report

date	09-Sep-16	time	2.56	3.62	4.62	5.62	6.62	7.62	8.64	9.66	10.68	11.76		12.97	3 / 6			
reaction time	0.120	interval	1.06	1.00	1.00	1.00	1.00	1.02	1.02	1.02	1.02	1.08	1.21			3.06	3.02	3.12

wind	0.1 m/s	velocity	5.08	8.02	8.50	8.50	8.50	8.50	8.33	8.33	8.33	7.87	8.68	7.71		8.33	8.44	8.17	
FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	01-Sep-16	time	2.56	3.58	4.58	5.58	6.58	7.58	8.58	9.62	10.66	11.72		12.93		2 / 7			
reaction time	0.102	interval		1.02	1.00	1.00	1.00	1.00	1.00	1.04	1.04	1.06	1.21			3.02	3.00	3.14	
wind	0.4 m/s	velocity	5.08	8.33	8.50	8.50	8.50	8.50	8.50	8.17	8.17	8.02	8.68	7.73		8.44	8.50	8.12	

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	17-Aug-16	time	2.40	3.43	4.43	5.40	6.40	7.40	8.41	9.43	10.46	11.51		12.89		9 / 8			
reaction time	0.143	interval		1.03	1.00	0.97	1.00	1.00	1.01	1.02	1.03	1.05	1.38			3.00	3.01	3.10	
wind	0.0 m/s	velocity	5.42	8.25	8.50	8.76	8.50	8.50	8.42	8.33	8.25	8.10	7.61	7.76		8.50	8.47	8.23	

FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)														<i>Henson (2021) - Athlete First: major championships report</i>					
date	07-Aug-12	time	2.52	3.54	4.52	5.48	6.44	7.42	8.40	9.40	10.42	11.46		12.65		3 / 6 5			
reaction time	0.152	interval		1.02	0.98	0.96	0.96	0.98	0.98	1.00	1.02	1.04	1.19	=PB		2.96	2.92	3.06	
wind	-0.2 m/s	velocity	5.16	8.33	8.67	8.85	8.85	8.67	8.67	8.50	8.33	8.17	8.82	7.91		8.61	8.73	8.33	

Gerevini, Sveva (ITA) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	08-Aug-24	time	2.58	3.67	4.70	5.74	6.78	7.83	8.88	9.92	10.96	12.03		13.40		9 / 7		
reaction time	0.156	interval		1.09	1.03	1.04	1.04	1.05	1.05	1.04	1.04	1.07	1.37			3.16	3.14	3.15
wind	-0.1 m/s	velocity	5.04	7.80	8.25	8.17	8.17	8.10	8.10	8.17	8.17	7.94	7.34	7.46		8.07	8.12	8.10

Gilchrist, Danielle (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 - 2005 USATF National Junior Championships (Carson, CA)														<i>USATF Women's Sprint Development (2005)</i>				
date	23-Jun-05	time	2.75	3.87	4.95	6.10	7.21	8.33	9.44	10.58	11.70	12.85		14.17		2 / 5		
reaction time		interval		1.12	1.08	1.15	1.11	1.12	1.11	1.14	1.12	1.15	1.32	PB		3.35	3.34	3.41
wind	-0.7 m/s	velocity	4.73	7.59	7.87	7.39	7.66	7.59	7.66	7.46	7.59	7.39	7.95	7.06		7.61	7.63	7.48

Girard, Patricia (FRA) (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	09-Aug-02	time	2.62	3.66	4.68	5.70	6.70	7.72	8.74	9.78	10.84	11.90		13.03		1 / 4		
reaction time	0.143	interval		1.04	1.02	1.02	1.00	1.02	1.02	1.04	1.06	1.06	1.13			3.08	3.04	3.16
wind	-0.7 m/s	velocity	4.96	8.17	8.33	8.33	8.50	8.33	8.33	8.17	8.02	8.02	9.29	7.67		8.28	8.39	8.07

Semi-Final 1 - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	2.59	3.63	4.66	5.64	6.63	7.64	8.64	9.64	10.67	11.72		12.82		1 / 1		
reaction time	0.139	interval		1.04	1.03	0.98	0.99	1.01	1.00	1.00	1.03	1.05	1.10			3.05	3.00	3.08
wind	0.0 m/s	velocity	5.02	8.17	8.25	8.67	8.59	8.42	8.50	8.50	8.25	8.10	9.55	7.80		8.36	8.50	8.28

Heat 1 - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	08-Aug-02	time	2.64	3.67	4.69	5.71	6.73	7.74	8.77	9.79	10.83	11.87		13.00		1 / 1		
reaction time	0.149	interval		1.03	1.02	1.02	1.02	1.01	1.03	1.02	1.04	1.04	1.13			3.07	3.06	3.10
wind	0.5 m/s	velocity	4.92	8.25	8.33	8.33	8.33	8.42	8.25	8.33	8.17	8.17	9.29	7.69		8.31	8.33	8.23

FINAL - 1999 IAAF World Championships (Sevilla, ESP)														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	28-Aug-99	time	2.59	3.60	4.61	5.60	6.58	7.59	8.61	9.63	10.68	11.75		12.97		1 / 8		
reaction time	0.154	interval		1.01	1.01	0.99	0.98	1.01	1.02	1.02	1.05	1.07	1.22			3.01	3.01	3.14
wind	0.7 m/s	velocity	5.02	8.42	8.42	8.59	8.67	8.42	8.33	8.33	8.10	7.94	8.61	7.71		8.47	8.47	8.12

Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	27-Aug-99	time	2.51	3.51	4.50	5.47	6.42	7.40	8.40	9.43	10.46	11.50		12.76		3 / 3		
reaction time	0.120	interval		1.00	0.99	0.97	0.95	0.98	1.00	1.03	1.03	1.04	1.26			2.96	2.93	3.10
wind	1.9 m/s	velocity	5.18	8.50	8.59	8.76	8.95	8.67	8.50	8.25	8.25	8.17	8.33	7.84		8.61	8.70	8.23

FINAL - 1998 European Championships (Budapest, HUN)														<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>				
date	23-Aug-98	time	2.58	3.59	4.58	5.59	6.60	7.58	8.56	9.57	10.60	11.64		12.89		1 / 5		
reaction time		interval		1.01	0.99	1.01	1.01	0.98	0.98	1.01	1.03	1.04	1.25			3.01	2.97	3.08
wind	1.5 m/s	velocity	5.04	8.42	8.59	8.42	8.42	8.67	8.67	8.42	8.25	8.17	8.40	7.76		8.47	8.59	8.28

FINAL - 1997 European Cup (Munich, GER)														<i>Jung (2003) - http://www.fgs.uni-halle.de</i>				
date	22-Jun-97	time	2.65	3.68	4.69	5.70	6.71	7.71	8.74	9.76	10.79	11.86		13.03		1 / 2		
reaction time		interval		1.03	1.01	1.01	1.01	1.00	1.03	1.02	1.03	1.07	1.17			3.05	3.04	3.12
wind	0.7 m/s	velocity	4.91	8.25	8.42	8.42	8.42	8.50	8.25	8.33	8.25	7.94	8.97	7.67		8.36	8.39	8.17

Girard-Leno, Patricia (FRA) (1968)														<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>				
FINAL - 1996 Olympic Games (Atlanta, GA)																		
date	31-Jul-96	time	2.36	3.40	4.39	5.39	6.38	7.37	8.37	9.35	10.40	11.44		12.65		5 / 3		
reaction time	0.133	interval		1.04	0.99	1.00	0.99	0.99	1.00	0.98	1.05	1.04	1.21			3.03	2.98	3.07
wind	0.2 m/s	velocity	5.51	8.17	8.59	8.50	8.59	8.59	8.50	8.67	8.10	8.17	8.68	7.91		8.42	8.56	8.31

Glasco, Alexis (USA) (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 NCAA Championships (Austin, TX) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	10-Jun-23	time	2.50	3.49	4.50	5.49	6.49	7.47	8.47	9.47	10.51	11.53		12.74		3 / 6		

reaction time	interval	0.99	1.01	0.99	1.00	0.98	1.00	1.00	1.00	1.04	1.02	1.21		2.99	2.98	3.06	
wind	3.8 m/s	velocity	5.20	8.59	8.42	8.59	8.50	8.67	8.50	8.50	8.17	8.33	8.31	7.85	8.53	8.56	8.33

FINAL - 2023 UNF East Coast Relays (Jacksonville, FL)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	29-Apr-23	time	2.63	3.63	4.63	5.66	6.64	7.62	8.62	9.63	10.64	11.72		12.83		3 / 4		
reaction time	0.144	interval	1.00	1.00	1.03	0.98	0.98	1.00	1.01	1.01	1.04	1.11				3.03	2.96	3.10
wind	3.2 m/s	velocity	4.94	8.50	8.50	8.25	8.67	8.67	8.50	8.42	8.42	7.87	9.05	7.79		8.42	8.61	8.23

Golding-Clarke, Lacena (JAM) (1975)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)***Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships*

date	13-Mar-10	time	2.60	3.63	4.65	5.65	6.64							8.02		8 / 7	
reaction time	0.159	interval		1.03	1.02	1.00	0.99						1.38			3.05	
		velocity	5.00	8.25	8.33	8.50	8.59						9.42	7.48		8.36	

Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.54	3.54	4.54	5.52	6.50	7.48	8.48	9.51	10.56	11.60		12.76		3 / 4		
reaction time	0.144	interval	1.00	1.00	0.98	0.98	0.98	1.00	1.03	1.05	1.04	1.16				2.98	2.96	3.12
wind	0.3 m/s	velocity	5.12	8.50	8.50	8.67	8.67	8.67	8.50	8.25	8.10	8.17	9.05	7.84		8.56	8.61	8.17

Heat 2 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	2.53	3.55	4.56	5.55	6.57	7.57	8.59	9.61	10.66	11.73		12.90		6 / 2		
reaction time	0.135	interval	1.02	1.01	0.99	1.02	1.00	1.02	1.02	1.02	1.05	1.07	1.17			3.02	3.04	3.14
wind	-0.3 m/s	velocity	5.14	8.33	8.42	8.59	8.33	8.50	8.33	8.33	8.10	7.94	8.97	7.75		8.44	8.39	8.12

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

date	14-Jun-09	time	2.58	3.60	4.63	5.62	6.64	7.65	8.67	9.71	10.76	11.84		13.00		/ 3		
reaction time	0.174	interval	1.02	1.03	0.99	1.02	1.01	1.02	1.04	1.05	1.08	1.16				3.04	3.05	3.17
wind	-0.1 m/s	velocity	5.04	8.33	8.25	8.59	8.33	8.42	8.33	8.17	8.10	7.87	9.05	7.69		8.39	8.36	8.04

FINAL - 2004 Olympic Games (Athens, GRE)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	24-Aug-04	time	2.54	3.54	4.53	5.49	6.48	7.45	8.45	9.45	10.49	11.54		12.73		2 / 5		
reaction time	0.195	interval		1.00	0.99	0.96	0.99	0.97	1.00	1.00	1.04	1.05	1.19			2.95	2.96	3.09
wind	0.3 m/s	velocity	5.12	8.50	8.59	8.85	8.59	8.76	8.50	8.50	8.17	8.10	8.82	7.86		8.64	8.61	8.25

Gomis, Sandra (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 - 2016 Meeting Paris (Saint-Denis, FRA) (TV Analysis)***Henson (2020) - Athlete First: 2016 year end hurdle report*

date	27-Aug-16	time	2.54	3.60	4.64	5.64	6.64	7.70	8.74	9.82	10.86	11.98		13.18		9 / 8		
reaction time	0.161	interval		1.06	1.04	1.00	1.00	1.06	1.04	1.08	1.04	1.12	1.20			3.10	3.10	3.24
wind	0.2 m/s	velocity	5.12	8.02	8.17	8.50	8.50	8.02	8.17	7.87	8.17	7.59	8.75	7.59		8.23	8.23	7.87

Gong Qiudan (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 Grand Prix Final (Rizhao, CHN)***Shandong Athletics Sport Science (2024)*

date	30-Jun-24	time	2.73	3.85	4.93	6.01	7.07	8.16	9.22	10.29	11.36	12.46		13.65		2 / 7		
reaction time	0.179	interval		1.12	1.08	1.08	1.06	1.09	1.06	1.07	1.07	1.10	1.19			3.28	3.21	3.24
wind	0.2 m/s	velocity	4.76	7.59	7.87	7.87	8.02	7.80	8.02	7.94	7.94	7.73	8.45	7.33		7.77	7.94	7.87

Heat 1 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)*Shandong Athletics Sport Science (2024)*

date	29-Jun-24	time	2.72	3.82	4.92	6.00	7.07	8.14	9.23	10.36	11.46	12.58		13.75		5 / 3		
reaction time	0.175	interval		1.10	1.10	1.08	1.07	1.07	1.09	1.13	1.10	1.12	1.17			3.28	3.23	3.35
wind	0.0 m/s	velocity	4.78	7.73	7.73	7.87	7.94	7.94	7.80	7.52	7.73	7.59	8.59	7.27		7.77	7.89	7.61

FINAL - 2023 Chinese National Grand Prix 4 (Chongqing, CHN)*Shandong Athletics Sport Science (2023)*

date	03-Jun-23	time	2.78	3.89	4.97	6.05	7.12	8.21	9.29	10.38	11.48	12.61		13.80		7 / 6		
reaction time	0.249	interval		1.11	1.08	1.08	1.07	1.09	1.08	1.09	1.10	1.13	1.19			3.27	3.24	3.32
wind	0.3 m/s	velocity	4.68	7.66	7.87	7.87	7.94	7.80	7.87	7.80	7.73	7.52	8.45	7.25		7.80	7.87	7.68

FINAL - 2023 Chinese National Grand Prix 3 (Taizhou, CHN)*Shandong Athletics Sport Science (2023)*

date	27-May-23	time	2.75	3.86	4.96	6.05	7.13	8.21	9.30	10.43	11.55	12.66		13.86		7 / 4		
reaction time	0.181	interval		1.11	1.10	1.09	1.08	1.08	1.09	1.13	1.12	1.11	1.20			3.30	3.25	3.36
wind	-1.2 m/s	velocity	4.73	7.66	7.73	7.80	7.87	7.87	7.80	7.52	7.59	7.66	8.38	7.22		7.73	7.85	7.59

Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)*CAA Hurdle Development (2021)*

date	25-Jun-21	time	2.75	3.90	5.10	6.24	7.39	8.54	9.69	10.88	12.04	13.20		14.52		7 / 5		
reaction time	0.198	interval		1.15	1.20	1.14	1.15	1.15	1.15	1.19	1.16	1.16	1.32			3.49	3.45	3.51
wind	-1.6 m/s	velocity	4.73	7.39	7.08	7.46	7.39	7.39	7.39	7.14	7.33	7.33	7.61	6.89		7.31	7.39	7.26

Heat 2 - 2021 National Grand Prix (Chengdu, CHN)*CAA Hurdle Development (2021)*

date	02-Apr-21	time	2.74	3.90	5.06	6.20	7.34	8.46	9.60	10.76	11.90	13.08		14.35		5 / 3		
reaction time	0.164	interval		1.16	1.16	1.14	1.14	1.12	1.14	1.16	1.14	1.18	1.27			3.46	3.40	3.48
wind	0.4 m/s	velocity	4.74	7.33	7.33	7.46	7.46	7.59	7.46	7.33	7.46	7.20	7.91	6.97		7.37	7.50	7.33

A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)*CAA Hurdle Development (2021)*

date	13-Mar-21	time	2.72	3.88	5.04	6.16	7.28							8.76		1 / 4	
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reaction time	0.182	interval	1.16	1.16	1.12	1.12							1.48	PB		3.44
		velocity	4.78	7.33	7.33	7.59	7.59						8.78	6.85		7.41

Heat 1 - 2021 National Indoor Grand Prix (Chengdu, CHN)

date	13-Mar-21	time	2.77	3.90	5.05	6.16	7.27								8.76	CAA Hurdle Development (2021)	5 / 5
reaction time	0.194	interval	1.13	1.15	1.11	1.11							1.49			3.39	
		velocity	4.69	7.52	7.39	7.66	7.66						8.72	6.85		7.52	

Gotou, Wakana (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)																	
date	01-Aug-24	time	2.72	3.79	4.86	5.96	7.03	8.10	9.19	10.29	11.39	12.52	13.78	4 / 5			
reaction time	0.169	interval	1.07	1.07	1.10	1.07	1.07	1.09	1.10	1.10	1.10	1.13	1.26		3.24	3.23	3.33
wind	1.0 m/s	velocity	4.78	7.94	7.94	7.73	7.94	7.94	7.80	7.73	7.73	7.52	7.98	7.26	7.87	7.89	7.66

Grabuste, Aiga (LAT) (1988)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)																	
date	15-Aug-09	time	2.76	3.86	4.94	6.02	7.09	8.16	9.24	10.34	11.44	12.56	13.78	5 / 8			
reaction time	0.181	interval	1.10	1.08	1.08	1.07	1.07	1.08	1.10	1.10	1.12	1.22		3.26	3.22	3.32	
wind	-0.4 m/s	velocity	4.71	7.73	7.87	7.87	7.94	7.94	7.87	7.73	7.73	7.59	8.61	7.26	7.82	7.92	7.68

Graudyn, Yuliya (RUS) (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 1 - 1999 IAAF World Championships (Sevilla, ESP)																	
date	27-Aug-99	time	2.58	3.61	4.62	5.63	6.61	7.59	8.57	9.60	10.62	11.67	12.95	8 / 7			
reaction time	0.135	interval	1.03	1.01	1.01	0.98	0.98	0.98	1.03	1.02	1.05	1.28		3.05	2.94	3.10	
wind	1.9 m/s	velocity	5.04	8.25	8.42	8.42	8.67	8.67	8.67	8.25	8.33	8.10	8.20	7.72	8.36	8.67	8.23

Grauvogel, Louisa (GER) (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 ISTAF Indoor (Berlin, GER) (TV Analysis)																
date	1-Feb-19	time	2.62	3.66	4.70	5.72	6.74						8.12	1 / 5		
reaction time	0.138	interval	1.04	1.04	1.02	1.02						1.38	PB		3.10	
		velocity	4.96	8.17	8.17	8.33	8.33					9.42	7.39		8.23	

Graversgaard, Mette (DEN) (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 FBK Games (Hengelo, NED)																	
date	07-Jul-24	time	2.50	3.57	4.61	5.62	6.64	7.69	8.77	9.84	10.92	12.02	13.33	3 / 6			
reaction time	0.148	interval	1.07	1.04	1.01	1.02	1.05	1.08	1.07	1.08	1.10	1.31		3.12	3.15	3.25	
wind	0.3 m/s	velocity	5.20	7.94	8.17	8.42	8.33	8.10	7.87	7.94	7.87	7.73	7.67	7.50	8.17	8.10	7.85

	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 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)																
date	03-Mar-24	time	2.58	3.64	4.66	5.66	6.70						8.10	5 / 3		
reaction time	0.152	interval	1.06	1.02	1.00	1.04						1.40		3.08		
		velocity	5.04	8.02	8.33	8.50	8.17					9.29	7.41	8.28		

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Villa de Madrid Indoor Meeting (Madrid, ESP) (TV Analysis)																
date	23-Feb-24	time	2.57	3.60	4.62	5.64	6.68						8.10	8 / 7		
reaction time	0.137	interval	1.03	1.02	1.02	1.04						1.42		3.07		
		velocity	5.06	8.25	8.33	8.33	8.17					9.15	7.41	8.31		

	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)																	
date	23-Aug-23	time	2.60	3.64	4.66	5.64	6.66	7.66	8.65	9.66	10.70	11.78	12.94	9 / 7			
reaction time	0.163	interval	1.04	1.02	0.98	1.02	1.00	0.99	1.01	1.04	1.08	1.16		3.04	3.01	3.13	
wind	-0.4 m/s	velocity	5.00	8.17	8.33	8.67	8.33	8.50	8.59	8.42	8.17	7.87	8.66	7.73	8.39	8.47	8.15

	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)																	
date	22-Aug-23	time	2.60	3.63	4.65	5.65	6.63	7.62	8.62	9.63	10.65	11.67	12.87	5 / 5			
reaction time	0.166	interval	1.03	1.02	1.00	0.98	0.99	1.00	1.01	1.02	1.02	1.20		3.05	2.97	3.05	
wind	0.1 m/s	velocity	5.00	8.25	8.33	8.50	8.67	8.59	8.50	8.42	8.33	8.33	8.38	7.77	8.36	8.59	8.36

	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)																	
date	04-Jun-23	time	2.48	3.55	4.58	5.61	6.63	7.65	8.69	9.73	10.79	11.86	13.18	3 / 9			
reaction time	0.132	interval	1.07	1.03	1.03	1.02	1.02	1.04	1.04	1.06	1.07	1.32		3.13	3.08	3.17	
wind	0.2 m/s	velocity	5.24	7.94	8.25	8.25	8.33	8.33	8.17	8.17	8.02	7.94	7.61	7.59	8.15	8.28	8.04

	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)																	
date	21-Aug-22	time	2.56	3.60	4.62	5.62	6.61	7.61	8.61	9.61	10.69	11.77	12.99	2 / 6			
reaction time	0.154	interval	1.04	1.02	1.00	0.99	1.00	1.00	1.00	1.08	1.08	1.22		3.06	2.99	3.16	
wind	-0.1 m/s	velocity	5.08	8.17	8.33	8.50	8.59	8.50	8.50	8.50	7.87	7.87	8.24	7.70	8.33	8.53	8.07

	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)																	
date	24-Jul-22	time	2.52	3.62	4.63	5.65	6.66	7.66	8.68	9.72	10.75	11.82	13.05	8 / 7			
reaction time	0.134	interval	1.10	1.01	1.02	1.01	1.00	1.02	1.04	1.03	1.07	1.23		3.13	3.03	3.14	
wind	-0.1 m/s	velocity	5.16	7.73	8.42	8.33	8.42	8.50	8.33	8.17	8.25	7.94	8.17	7.66	8.15	8.42	8.12

Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	23-Jul-22	time	2.56	3.63	4.63	5.65	6.67	7.67	8.67	9.70	10.78	11.83	13.04	3 / 3			
reaction time	0.130	interval		1.07	1.00	1.02	1.02	1.00	1.00	1.03	1.08	1.05	1.21		3.09	3.02	3.16
wind	-0.3 m/s	velocity	5.08	7.94	8.50	8.33	8.33	8.50	8.50	8.25	7.87	8.10	8.31	7.67	8.25	8.44	8.07

FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	25-Sep-20	time	2.53	3.63	4.66	5.73	6.76	7.76	8.80	9.86	10.93	12.00	13.25	3 / 6			
reaction time	0.140	interval		1.10	1.03	1.07	1.03	1.00	1.04	1.06	1.07	1.07	1.25		3.20	3.07	3.20
wind	1.1 m/s	velocity	5.14	7.73	8.25	7.94	8.25	8.50	8.17	8.02	7.94	7.94	8.04	7.55	7.97	8.31	7.97

FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	17-Sep-20	time	2.62	3.66	4.70	5.72	6.74	7.78	8.82	9.86	10.94	12.06	13.30	1 / 8			
reaction time	0.160	interval		1.04	1.04	1.02	1.02	1.04	1.04	1.04	1.08	1.12	1.24		3.10	3.10	3.24
wind	0.1 m/s	velocity	4.96	8.17	8.17	8.33	8.33	8.17	8.17	8.17	7.87	7.59	8.10	7.52	8.23	8.23	7.87

FINAL - 2020 Memorial Van Damme (Brussels, BEL) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	04-Sep-20	time	2.50	3.57	4.60	5.67	6.70	7.73	8.76	9.80	10.87	11.97	13.26	6 / 2			
reaction time	0.145	interval		1.07	1.03	1.07	1.03	1.03	1.03	1.04	1.07	1.10	1.29		3.17	3.09	3.21
wind	-0.2 m/s	velocity	5.20	7.94	8.25	7.94	8.25	8.25	8.25	8.17	7.94	7.73	7.79	7.54	8.04	8.25	7.94

FINAL - 2020 Bauhaus Galan (Stockholm, SWE) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	23-Aug-20	time	2.57	3.63	4.67	5.70	6.73	7.73	8.77	9.77	10.86	11.93	13.13	3 / 3			
reaction time	0.145	interval		1.06	1.04	1.03	1.03	1.00	1.04	1.00	1.09	1.07	1.20	NR PB	3.13	3.07	3.16
wind	1.4 m/s	velocity	5.06	8.02	8.17	8.25	8.25	8.50	8.17	8.50	7.80	7.94	8.37	7.62	8.15	8.31	8.07

Grigoryeva, Natalya (URS) (1962)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 1991 IAAF World Championships (Tokyo, JPN)***Numazawa (1991) - analysis of time in the 3rd world athletics championships, women's 100m hurdles*

date	30-Aug-91	time	2.55	3.57	4.56	5.54	6.51	7.49	8.48	9.48	10.51	11.56	12.69	6 / 3			
reaction time	0.162	interval		1.02	0.99	0.98	0.97	0.98	0.99	1.00	1.03	1.05	1.13		2.99	2.94	3.08
wind	-1.7 m/s	velocity	5.10	8.33	8.59	8.67	8.76	8.67	8.59	8.50	8.25	8.10	9.29	7.88	8.53	8.67	8.28

FINAL - 1988 Olympic Games (Seoul, KOR)*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	30-Sep-88	time	2.59	3.61	4.61	5.59	6.57	7.57	8.56	9.57	10.58	11.62	12.79	8 / 4			
reaction time	0.179	interval		1.02	1.00	0.98	0.98	1.00	0.99	1.01	1.01	1.04	1.17		3.00	2.97	3.06
wind	0.2 m/s	velocity	5.02	8.33	8.50	8.67	8.67	8.50	8.59	8.42	8.42	8.17	8.97	7.82	8.50	8.59	8.33

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	2.65	3.67	4.67	5.67	6.65	7.63	8.63	9.63	10.63	11.71	12.81	3 / 3			
reaction time	0.176	interval		1.02	1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.08	1.10		3.02	2.96	3.08
wind	0.4 m/s	velocity	4.91	8.33	8.50	8.50	8.67	8.67	8.50	8.50	8.50	7.87	9.55	7.81	8.44	8.61	8.28

FINAL - 1987 European Cup (Prague, TCH)*Sušanka (1987) - hints on computer processing of biomechanical data*

date	28-Jun-87	time	2.68	3.73	4.72	5.72	6.75	7.76	8.76	9.80	10.88	11.92	13.11	6 / 4			
reaction time		interval		1.05	0.99	1.00	1.03	1.01	1.00	1.04	1.08	1.04	1.19		3.04	3.04	3.16
wind	-0.9 m/s	velocity	4.85	8.10	8.59	8.50	8.25	8.42	8.50	8.17	7.87	8.17	8.82	7.63	8.39	8.39	8.07

Grimm, Vanessa (GER) (1997)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)***Henson (2024) - Athlete First: 2023 year end hurdle report*

date	19-Aug-23	time	2.82	3.90	5.02	6.08	7.15	8.28	9.40	10.52	11.64	12.75	14.00	3 / 4			
reaction time	0.187	interval		1.08	1.12	1.06	1.07	1.13	1.12	1.12	1.11	1.25		3.26	3.32	3.35	
wind	-1.1 m/s	velocity	4.61	7.87	7.59	8.02	7.94	7.52	7.59	7.59	7.59	7.66	8.04	7.14	7.82	7.68	7.61

Heptathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	04-Aug-21	time	2.80	3.91	4.95	6.04	7.11	8.23	9.31	10.41	11.50	12.66	13.88	6 / 5			
reaction time	0.176	interval		1.11	1.04	1.09	1.07	1.12	1.08	1.10	1.09	1.16	1.22		3.24	3.27	3.35
wind	0.2 m/s	velocity	4.64	7.66	8.17	7.80	7.94	7.59	7.87	7.73	7.80	7.33	8.24	7.20	7.87	7.80	7.61

Grimont, Corinne (FRA) (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 ? - 1986 French National Indoor Championships (Lievin, FRA)***Aubert (1986) - indoor - video - haies, etude des performances*

date	25-Jan-86	time	2.82	3.87	4.93	5.97	6.99						8.51	1 / 4			
reaction time		interval		1.05	1.06	1.04	1.02					1.52			3.15		
		velocity	4.61	8.10	8.02	8.17	8.33					8.55	7.05		8.10		

Heat ? - 1986 French National Indoor Championships (Lievin, FRA)*Aubert (1986) - indoor - video - haies, etude des performances*

date	25-Jan-86	time	2.73	3.80	4.88	5.92	6.98						8.38	1 / 4			
reaction time		interval		1.07	1.08	1.04	1.06					1.40			3.19		
		velocity	4.76	7.94	7.87	8.17	8.02					9.29	7.16		7.99		

Groot, Mira (NED) (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 - 2024 FBK Games (Hengelo, NED)***Omega Timing (2024) - continental tour gold race analysis*

date	07-Jul-24	time	2.53	3.63	4.69	5.73	6.76	7.81	8.86	9.92	11.00	12.11	13.42	1 / 8			
reaction time	0.152	interval		1.10	1.06	1.04	1.03	1.05	1.05	1.06	1.08	1.11	1.31		3.20	3.13	3.25
wind	0.3 m/s	velocity	5.14	7.73	8.02	8.17	8.25	8.10	8.10	8.02	7.87	7.66	7.67	7.45	7.97	8.15	7.85

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Gubina, Yekaterina (RUS) (1985)																		
FINAL - 2012 Windsprint (Sundsvall, SWE)																		
	Blomkvist (2012) - www.sub13.se																	
date	17-Jun-12	time	2.81	3.87	4.92	5.96	6.99	8.04	9.09	10.14	11.22	12.30		13.47	1/2			
reaction time		interval		1.06	1.05	1.04	1.03	1.05	1.05	1.05	1.08	1.08	1.17			3.15	3.13	3.21
wind	0.8 m/s	velocity	4.63	8.02	8.10	8.17	8.25	8.10	8.10	8.10	7.87	7.87	8.97	7.42		8.10	8.15	7.94
Gunnell, Sally (GBR) (1966)																		
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)																		
	Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988																	
date	29-Sep-88	time	2.72	3.81	4.87	5.91	6.95	7.95	8.97	9.99	11.01	12.04		13.13	2 / 6			
reaction time	0.182	interval		1.09	1.06	1.04	1.04	1.00	1.02	1.02	1.02	1.03	1.09			3.19	3.06	3.07
wind	0.4 m/s	velocity	4.78	7.80	8.02	8.17	8.17	8.50	8.33	8.33	8.33	8.25	9.63	7.62		7.99	8.33	8.31
Guo Jinglei (CHN) (2000)																		
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																		
	CAA Hurdle Development (2019)																	
date	23-Aug-19	time	2.77	3.95	5.07	6.19	7.31	8.44	9.59	10.89	12.16	13.48		14.97	2 / 5			
reaction time	0.196	interval		1.18	1.12	1.12	1.12	1.13	1.15	1.30	1.27	1.32	1.49			3.42	3.40	3.89
wind	0.2 m/s	velocity	4.69	7.20	7.59	7.59	7.59	7.52	7.39	6.54	6.69	6.44	7.05	6.68		7.46	7.50	6.56
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)																		
	CAA Hurdle Development (2019)																	
date	14-Aug-19	time	2.62	3.72	4.81	5.87	6.94	8.02	9.09	10.19	11.32	12.43		13.76	7 / 2			
reaction time	0.161	interval		1.10	1.09	1.06	1.07	1.08	1.07	1.10	1.13	1.11	1.33	PB		3.25	3.22	3.34
wind	-0.1 m/s	velocity	4.96	7.73	7.80	8.02	7.94	7.87	7.94	7.73	7.52	7.66	7.89	7.27		7.85	7.92	7.63
U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN)																		
	CAA Hurdle Development (2019)																	
date	14-Aug-19	time	2.69	3.81	4.91	5.97	7.07	8.16	9.26	10.39	11.54	12.69		13.97	5 / 2			
reaction time	0.168	interval		1.12	1.10	1.06	1.10	1.09	1.10	1.13	1.15	1.15	1.28	PB		3.28	3.29	3.43
wind	-0.2 m/s	velocity	4.83	7.59	7.73	8.02	7.73	7.80	7.73	7.52	7.39	7.39	8.20	7.16		7.77	7.75	7.43
Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)																		
	CAA Hurdle Development (2019)																	
date	02-Aug-19	time	2.82	3.92	5.05	6.17	7.29	8.42	9.54	10.69	11.84	13.01		14.34	7 / 7			
reaction time	0.172	interval		1.10	1.13	1.12	1.12	1.13	1.12	1.15	1.15	1.17	1.33			3.35	3.37	3.47
wind	-0.3 m/s	velocity	4.61	7.73	7.52	7.59	7.59	7.52	7.59	7.39	7.39	7.26	7.89	6.97		7.61	7.57	7.35
Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)																		
	CAA Hurdle Development (2019)																	
date	08-Jul-19	time	2.80	3.92	5.02	6.10	7.18	8.28	9.40	10.52	11.66	12.82		14.14	3 / 4			
reaction time	0.195	interval		1.12	1.10	1.08	1.08	1.10	1.12	1.12	1.14	1.16	1.32			3.30	3.30	3.42
wind	0.7 m/s	velocity	4.64	7.59	7.73	7.87	7.87	7.73	7.59	7.59	7.46	7.33	7.95	7.07		7.73	7.73	7.46
Heat 4 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																		
	CAA Hurdle Development (2019)																	
date	13-Apr-19	time	2.73	3.85	4.94	6.02	7.13	8.22	9.34	10.48	11.63	12.80		14.17	8 / 2			
reaction time	0.183	interval		1.12	1.09	1.08	1.11	1.09	1.12	1.14	1.15	1.17	1.37			3.29	3.32	3.46
wind	0.1 m/s	velocity	4.76	7.59	7.80	7.87	7.66	7.80	7.59	7.46	7.39	7.26	7.66	7.06		7.75	7.68	7.37
A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)																		
	CAA Hurdle Development (2019)																	
date	4-Mar-19	time	2.72	3.82	4.92	6.02	7.12							8.68	2 / 4			
reaction time		interval		1.10	1.10	1.10	1.10						1.56			3.30		
		velocity	4.78	7.73	7.73	7.73	7.73						8.33	6.91		7.73		
Hall, Anna (USA) (2001)																		
Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)																		
	Paris 2024 Olympic Games - Results Book (2024)																	
date	08-Aug-24	time	2.54	3.61	4.64	5.67	6.70	7.76	8.82	9.88	10.95	12.04		13.36	7 / 6			
reaction time	0.186	interval		7 steps	1.07	1.03	1.03	1.03	1.06	1.06	1.06	1.07	1.09	1.32		3.13	3.15	3.22
wind	-0.1 m/s	velocity	5.12	7.94	8.25	8.25	8.25	8.02	8.02	8.02	7.94	7.80	7.61	7.49		8.15	8.10	7.92
Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																		
	Henson (2024) - Athlete First: 2023 year end hurdle report																	
date	19-Aug-23	time	2.68	3.70	4.68	5.68	6.68	7.67	8.70	9.70	10.73	11.83		12.97	5 / 2			
reaction time	0.187	interval		7 steps	1.02	0.98	1.00	1.00	0.99	1.03	1.00	1.03	1.10	1.14		3.00	3.02	3.13
wind	0.4 m/s	velocity	4.85	8.33	8.67	8.50	8.50	8.59	8.25	8.50	8.25	7.73	8.82	7.71		8.50	8.44	8.15
Heptathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																		
	Henson (2024) - Athlete First: 2022 year end hurdle report																	
date	17-Jul-22	time	2.68	3.71	4.73	5.75	6.77	7.81	8.81	9.92	10.97	12.03		13.20	8 / 3			
reaction time	0.150	interval		1.03	1.02	1.02	1.02	1.04	1.00	1.11	1.05	1.06	1.17			3.07	3.06	3.22
wind	0.7 m/s	velocity	4.85	8.25	8.33	8.33	8.33	8.17	8.50	7.66	8.10	8.02	8.59	7.58		8.31	8.33	7.92
Hall, Dior (USA) (1996)																		
FINAL - 2019 NCAA Indoor Championships (Birmingham, AL) (TV Analysis)																		
	Henson (2020) - Athlete First: 2019 year end hurdle report																	
date	9-Mar-19	time	2.48	3.54	4.56	5.58	6.62							8.11	2 / 6			
reaction time	0.155	interval		1.06	1.02	1.02	1.04						1.49			3.10		
		velocity	5.24	8.02	8.33	8.33	8.17						8.72	7.40		8.23		
Hallin, Ellinore (SWE) (1987)																		
Pentathlon - Heat 1 - 2013 European Indoor Championships (Göteborg, SWE)																		
	Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx																	

date 01-Mar-13 time 2.74 3.82 4.88 5.96 7.00
 reaction time 0.172 interval 1.08 1.06 1.08 1.04
 velocity 4.74 7.87 8.02 7.87 8.17

8.43 6 / 2
 1.43 3.22
 9.09 7.12 7.92

FINAL - 2011 Windsprint (Sundsvall, SWE)

date 31-Jul-11 time 2.81 3.95 5.03 6.14
 reaction time interval 1.14 1.08 1.11
 wind 1.4 m/s velocity 4.63 7.46 7.87 7.66

14.06 *Blomkvist (2011) - www.sub13.se*
 / 6
 3.33
 7.11 7.66

Hamáčková, Barbora (CZE) (1992)**FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)**

date 02-Aug-14 time 2.77 3.89 4.96 6.03 7.09 8.18 9.24 10.33 11.44 12.57
 reaction time 0.209 interval 1.12 1.07 1.07 1.06 1.09 1.06 1.09 1.11 1.13 1.25
 wind 0.4 m/s velocity 4.69 7.59 7.94 7.94 8.02 7.80 8.02 7.80 7.66 7.52 8.40 7.24

Feher (2014) - Final report from the Czech Republic national championships

13.82 7 / 4
 3.26 3.21 3.33
 7.82 7.94 7.66

Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)

date 02-Aug-14 time 2.76 3.88 4.96 6.01 7.07 8.13 9.21 10.27 11.38 12.51
 reaction time 0.184 interval 1.12 1.08 1.05 1.06 1.06 1.08 1.06 1.11 1.13 1.29
 wind 0.2 m/s velocity 4.71 7.59 7.87 8.10 8.02 8.02 7.87 8.02 7.66 7.52 8.14 7.25

Feher (2014) - Final report from the Czech Republic national championships

13.80 3 / 3
 =PB 3.25 3.20 3.30
 7.85 7.97 7.73

FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)

date 25-Feb-12 time 2.82 4.02 5.13 6.25 7.41
 reaction time 0.190 interval 1.20 1.11 1.12 1.16
 velocity 4.61 7.08 7.66 7.59 7.33

Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles

8.98 1 / 7
 1.57 3.43
 8.28 6.68 7.43

Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)

date 25-Feb-12 time 2.85 4.02 5.17 6.28 7.40
 reaction time 0.204 interval 1.17 1.15 1.11 1.12
 velocity 4.56 7.26 7.39 7.66 7.59

Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles

8.96 2 / 5
 1.56 3.43
 8.33 6.70 7.43

Han Zhirou (CHN) (2002)**U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (76cm)**

date 14-Aug-19 time 2.73 3.82 4.92 6.01 7.11 8.24 9.35 10.50 11.68 12.86
 reaction time 0.174 interval 1.09 1.10 1.09 1.10 1.13 1.11 1.15 1.18 1.18 1.34
 wind 0.0 m/s velocity 4.76 7.80 7.73 7.80 7.73 7.52 7.66 7.39 7.20 7.20 7.84 7.04

CAA Hurdle Development (2019)

14.20 5 / 2
 3.28 3.34 3.51
 7.77 7.63 7.26

Hao Ling (CHN) (1996)**Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)**

date 15-Sep-18 time 2.80 3.94 5.02 6.10 7.19 8.31 9.43 10.58 11.76 12.98
 reaction time interval 1.14 1.08 1.08 1.09 1.12 1.12 1.15 1.18 1.22 1.36
 wind -0.6 m/s velocity 4.64 7.46 7.87 7.87 7.80 7.59 7.59 7.39 7.20 6.97 7.72 6.97

Henson (2018) - coaching observations

14.34 3 / 7
 3.30 3.33 3.55
 7.73 7.66 7.18

Harala, Lotta (FIN) (1992)**Semi-Final 2 - 2024 Olympic Games (Paris, FRA)**

date 09-Aug-24 time 2.46 3.53 4.57 5.60 6.61 7.62 8.63 9.65 10.69 11.75
 reaction time 0.169 interval 1.07 1.04 1.03 1.01 1.01 1.01 1.02 1.04 1.06 1.30
 wind 0.4 m/s velocity 5.28 7.94 8.17 8.25 8.42 8.42 8.42 8.33 8.17 8.02 7.73 7.66

Paris 2024 Olympic Games - Results Book (2024)

13.05 2 / 8
 3.14 3.03 3.12
 8.12 8.42 8.17

Repechage 3 - 2024 Olympic Games (Paris, FRA)

date 08-Aug-24 time 2.43 3.49 4.50 5.51 6.49 7.48 8.49 9.50 10.53 11.57
 reaction time 0.161 interval 1.06 1.01 1.01 0.98 0.99 1.01 1.01 1.03 1.04 1.29
 wind -0.2 m/s velocity 5.35 8.02 8.42 8.42 8.67 8.59 8.42 8.42 8.25 8.17 7.79 7.78

Paris 2024 Olympic Games - Results Book (2024)

12.86 6 / 1
 3.08 2.98 3.08
 8.28 8.56 8.28

Heat 5 - 2024 Olympic Games (Paris, FRA)

date 07-Aug-24 time 2.44 3.49 4.51 5.51 6.50 7.51 8.52 9.55 10.60 11.66
 reaction time 0.168 interval 1.05 1.02 1.00 0.99 1.01 1.01 1.03 1.05 1.06 1.31
 wind -0.6 m/s velocity 5.33 8.10 8.33 8.50 8.59 8.42 8.42 8.25 8.10 8.02 7.67 7.71

Paris 2024 Olympic Games - Results Book (2024)

12.97 4 / 5
 3.07 3.01 3.14
 8.31 8.47 8.12

FINAL - 2020 Galà dei Castelli (Bellinzona, SUI) (TV Analysis)

date 15-Sep-20 time 2.56 3.60 4.64 5.66 6.66 7.68 8.70 9.74 10.80 11.88
 reaction time interval 1.04 1.04 1.02 1.00 1.02 1.02 1.04 1.06 1.08 1.31
 wind 0.0 m/s velocity 5.08 8.17 8.17 8.33 8.50 8.33 8.33 8.17 8.02 7.87 7.67 7.58

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

13.19 6 / 3
 3.10 3.04 3.18
 8.23 8.39 8.02

FINAL - 2020 Bauhaus Galan (Stockholm, SWE) (TV Analysis)

date 23-Aug-20 time 2.57 3.63 4.63 5.66 6.66 7.66 8.70 9.73 10.76 11.86
 reaction time 0.154 interval 1.06 1.00 1.03 1.00 1.00 1.04 1.03 1.03 1.10 1.21
 wind 1.4 m/s velocity 5.06 8.02 8.50 8.25 8.50 8.50 8.17 8.25 8.25 7.73 8.31 7.65

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

13.07 2 / 2
 =PB 3.09 3.04 3.16
 8.25 8.39 8.07

FINAL - 2020 Finnish National Championships (Turku, FIN) (TV Analysis)

date 14-Aug-20 time 2.56 3.63 4.66 5.70 6.70 7.70 8.73 9.76 10.80 11.83
 reaction time 0.131 interval 1.07 1.03 1.04 1.00 1.00 1.03 1.03 1.04 1.03 1.32
 wind 1.0 m/s velocity 5.08 7.94 8.25 8.17 8.50 8.50 8.25 8.25 8.17 8.25 7.61 7.60

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

13.15 5 / 4
 3.14 3.03 3.10
 8.12 8.42 8.23

FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	11-Aug-20	time	2.56	3.62	4.62	5.64	6.64	7.66	8.68	9.70	10.76	11.82	13.10	7 / 6				
reaction time	0.190	interval		1.06	1.00	1.02	1.00	1.02	1.02	1.02	1.06	1.06	1.28	PB	3.08	3.04	3.14	
wind	1.2 m/s	velocity	5.08	8.02	8.50	8.33	8.50	8.33	8.33	8.33	8.02	8.02	7.85	7.63	8.28	8.39	8.12	

FINAL - 2020 Motonet GP (Jyräskylä, FIN) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	08-Jul-20	time	2.56	3.66	4.70	5.73	6.76	7.80	8.83	9.86	10.93	12.03	13.29	3 / 4				
reaction time		interval		1.10	1.04	1.03	1.03	1.04	1.03	1.03	1.07	1.10	1.26		3.17	3.10	3.20	
wind	0.7 m/s	velocity	5.08	7.73	8.17	8.25	8.25	8.17	8.25	8.25	7.94	7.73	7.98	7.52	8.04	8.23	7.97	

Harper Nelson, Dawn (USA) (1984)**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	3.58	4.56	5.56	6.56	7.58	8.59	9.62	10.70	11.78	13.08	1 / 8				
reaction time	0.154	interval		1.04	0.98	1.00	1.00	1.02	1.01	1.03	1.08	1.08	1.30		3.02	3.03	3.19	
wind	0.1 m/s	velocity	5.12	8.17	8.67	8.50	8.50	8.33	8.43	8.24	7.87	7.87	8.08	7.65	8.44	8.42	7.99	

FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	13-Jul-18	time	2.52	3.52	4.52	5.52	6.52	7.52	8.52	9.54	10.56	11.60	12.86	2 / 4				
reaction time	0.170	interval		1.00	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.26		3.00	3.00	3.08	
wind	0.1 m/s	velocity	5.16	8.50	8.50	8.50	8.50	8.50	8.50	8.33	8.33	8.17	8.33	7.78	8.50	8.50	8.28	

FINAL - 2018 USATF National Championships (Des Moines, IA) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	23-Jun-18	time	2.43	3.52	4.53	5.52	6.50	7.50	8.48	9.50	10.51	11.57	12.93	7 / 5				
reaction time		interval		1.09	1.01	0.99	0.98	1.00	0.98	1.02	1.01	1.06	1.36		3.09	2.96	3.09	
wind	-1.4 m/s	velocity	5.35	7.80	8.42	8.59	8.67	8.50	8.67	8.33	8.42	8.02	7.72	7.73	8.25	8.61	8.25	

FINAL - 2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	10-Jun-18	time	2.56	3.56	4.56	5.56	6.54	7.52	8.54	9.56	10.56	11.60	12.80	7 / 6				
reaction time	0.173	interval		1.00	1.00	1.00	0.98	0.98	1.02	1.02	1.00	1.04	1.20		3.00	2.98	3.06	
wind	1.3 m/s	velocity	5.08	8.50	8.50	8.50	8.67	8.67	8.33	8.33	8.50	8.17	8.75	7.81	8.50	8.56	8.33	

FINAL - 2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	31-May-18	time	2.60	3.66	4.68	5.70	6.72	7.72	8.72	9.76	10.80	11.84	13.09	7 / 6				
reaction time	0.177	interval		1.06	1.02	1.02	1.02	1.00	1.00	1.04	1.04	1.04	1.25		3.10	3.02	3.12	
wind	0.0 m/s	velocity	5.00	8.02	8.33	8.33	8.33	8.50	8.50	8.17	8.17	8.17	8.40	7.64	8.23	8.44	8.17	

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	3.56	4.60	5.60	6.60	7.60	8.62	9.62	10.66	11.70	12.94	8 / 8				
reaction time	0.140	interval		1.04	1.04	1.00	1.00	1.02	1.00	1.04	1.04	1.04	1.24		3.08	3.02	3.08	
wind	0.9 m/s	velocity	5.16	8.17	8.17	8.50	8.50	8.50	8.33	8.50	8.17	8.17	8.47	7.73	8.28	8.44	8.28	

FINAL - 2018 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	04-May-18	time	2.48	3.56	4.56	5.62	6.62	7.66	8.72	9.76	10.84	11.86	13.21	6 / 8				
reaction time	0.152	interval		1.08	1.00	1.06	1.00	1.04	1.06	1.04	1.08	1.02	1.35		3.14	3.10	3.14	
wind	0.5 m/s	velocity	5.24	7.87	8.50	8.02	8.50	8.17	8.02	8.17	7.87	8.33	7.78	7.57	8.12	8.23	8.12	

FINAL - 2017 Weltklasse (Zürich, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	24-Aug-17	time	2.52	3.54	4.56	5.56	6.56	7.56	8.56	9.56	10.60	11.66	12.93	4 / 6				
reaction time	0.135	interval		1.02	1.02	1.00	1.00	1.00	1.00	1.00	1.04	1.06	1.27		3.04	3.00	3.10	
wind	-0.3 m/s	velocity	5.16	8.33	8.33	8.50	8.50	8.50	8.50	8.50	8.17	8.02	8.27	7.73	8.39	8.50	8.23	

FINAL - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date	12-Aug-17	time	2.47	3.51	4.51	5.49	6.47	7.45	8.40	9.39	10.39	11.41	12.63	6 / 2				
reaction time	0.167	interval		1.04	1.00	0.98	0.98	0.98	0.95	0.99	1.00	1.02	1.22		3.02	2.91	3.01	
wind	0.1 m/s	velocity	5.26	8.17	8.50	8.67	8.67	8.67	8.95	8.59	8.50	8.33	8.61	7.92	8.44	8.76	8.47	

Semi-Final 3 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date	11-Aug-17	time	2.42	3.47	4.48	5.46	6.44	7.41	8.37	9.36	10.36	11.38	12.63	7 / 1				
reaction time	0.109	interval		1.05	1.01	0.98	0.98	0.97	0.96	0.99	1.00	1.02	1.25		3.04	2.91	3.01	
wind	0.2 m/s	velocity	5.37	8.10	8.42	8.67	8.67	8.76	8.85	8.59	8.50	8.33	8.40	7.92	8.39	8.76	8.47	

FINAL - 2017 Athletissima (Lausanne, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	06-Jul-17	time	2.46	3.50	4.50	5.50	6.50	7.50	8.48	9.48	10.50	11.50	12.75	1 / 6				
reaction time	0.116	interval		1.04	1.00	1.00	1.00	1.00	0.98	1.00	1.02	1.00	1.25		3.04	2.98	3.02	
wind	-0.1 m/s	velocity	5.28	8.17	8.50	8.50	8.50	8.50	8.67	8.50	8.33	8.50	8.40	7.84	8.39	8.56	8.44	

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

date	04-Jul-17	time	2.52	3.52	4.54	5.52	6.50	7.48	8.46	9.44	10.46	11.52	12.74	2 / 5				
reaction time	0.161	interval		1.00	1.02	0.98	0.98	0.98	0.98	0.98	1.02	1.06	1.22		3.00	2.94	3.06	
wind	0.1 m/s	velocity	5.16	8.50	8.33	8.67	8.67	8.67	8.67	8.67	8.33	8.02	8.61	7.85	8.50	8.67	8.33	

FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	27-May-17	time	2.50	3.54	4.54	5.52	6.50	7.48	8.46	9.44	10.44	11.44	12.66	3 / 3				
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reaction time	0.154	interval	1.04	1.00	0.98	0.98	0.98	0.98	0.98	1.00	1.00	1.22			3.02	2.94	2.98	
wind	0.8 m/s	velocity	5.20	8.17	8.50	8.67	8.67	8.67	8.67	8.67	8.50	8.50	8.61	7.90	8.44	8.67	8.56	
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	2.53	3.56	4.56	5.56	6.56	7.56	8.53	9.53	10.53	11.56	12.79	3 / 3				
reaction time		interval	1.03	1.00	1.00	1.00	1.00	1.00	0.97	1.00	1.00	1.03	1.23		3.03	2.97	3.03	
wind	1.0 m/s	velocity	5.14	8.25	8.50	8.50	8.50	8.50	8.76	8.50	8.50	8.25	8.54	7.82	8.42	8.59	8.42	
FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	01-Sep-16	time	2.48	3.48	4.52	5.50	6.50	7.48	8.46	9.44	10.44	11.48	12.73	7 / 3				
reaction time	0.148	interval	1.00	1.04	0.98	1.00	0.98	0.98	0.98	0.98	1.00	1.04	1.25		3.02	2.96	3.02	
wind	0.4 m/s	velocity	5.24	8.50	8.17	8.67	8.50	8.67	8.67	8.67	8.50	8.17	8.40	7.86	8.44	8.61	8.44	
FINAL - 2016 Meeting Paris (Saint-Denis, FRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	27-Aug-16	time	2.52	3.52	4.52	5.52	6.50	7.48	8.46	9.44	10.46	11.46	12.65	3 / 2				
reaction time	0.132	interval	1.00	1.00	1.00	0.98	0.98	0.98	0.98	1.02	1.00	1.19			3.00	2.94	3.00	
wind	0.2 m/s	velocity	5.16	8.50	8.50	8.50	8.67	8.67	8.67	8.67	8.33	8.50	8.82	7.91	8.50	8.67	8.50	
FINAL - 2016 Athletissima (Luasanne, SUI) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	25-Aug-16	time	2.54	3.56	4.56	5.56	6.54	7.52	8.52	9.52	10.52	11.52	12.71	8 / 2				
reaction time	0.145	interval	1.02	1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.00	1.19			3.02	2.96	3.00	
wind	0.7 m/s	velocity	5.12	8.33	8.50	8.50	8.67	8.67	8.50	8.50	8.50	8.50	8.82	7.87	8.44	8.61	8.50	
FINAL - 2016 Bislett Games (Oslo, NOR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	09-Jun-16	time	2.50	3.54	4.54	5.52	6.52	7.50	8.50	9.52	10.52	11.54	12.75	3 / 2				
reaction time	0.161	interval	1.04	1.00	0.98	1.00	0.98	1.00	1.02	1.00	1.02	1.21			3.02	2.98	3.04	
wind	-0.4 m/s	velocity	5.20	8.17	8.50	8.67	8.50	8.67	8.50	8.33	8.50	8.33	8.68	7.84	8.44	8.56	8.39	
FINAL - 2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	05-Jun-16	time	2.50	3.53	4.53	5.56	6.53	7.53	8.50	9.48	10.50	11.53	12.78	2 / 4				
reaction time	0.151	interval	1.03	1.00	1.03	0.97	1.00	0.97	0.98	1.02	1.03	1.25			3.06	2.94	3.03	
wind	-0.3 m/s	velocity	5.20	8.25	8.50	8.25	8.76	8.50	8.76	8.67	8.33	8.25	8.40	7.82	8.33	8.67	8.42	
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	28-May-16	time	2.52	3.56	4.56	5.58	6.58	7.56	8.56	9.58	10.62	11.70	13.01	4 / 8				
reaction time		interval	1.04	1.00	1.02	1.00	0.98	1.00	1.02	1.04	1.08	1.31			3.06	2.98	3.14	
wind	0.7 m/s	velocity	5.16	8.17	8.50	8.33	8.50	8.67	8.50	8.33	8.17	7.87	8.02	7.69	8.33	8.56	8.12	
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)													<i>Henson (2021) - Athlete First: major championships report</i>					
date	17-Aug-13	time	2.52	3.52	4.50	5.48	6.44	7.40	8.38	9.36	10.38	11.40	12.59	5 / 4				
reaction time	0.194	interval	1.00	0.98	0.98	0.96	0.96	0.98	0.98	1.02	1.02	1.19			2.96	2.90	3.02	
wind	-0.6 m/s	velocity	5.16	8.50	8.67	8.67	8.85	8.85	8.67	8.67	8.33	8.33	8.82	7.94	8.61	8.79	8.44	
<i>Harper, Dawn (USA) (1984)</i>																		
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)													<i>Henson (2021) - Athlete First: major championships report</i>					
date	07-Aug-12	time	2.48	3.48	4.44	5.40	6.36	7.32	8.28	9.24	10.22	11.22	12.37	4 / 2				
reaction time	0.156	interval	1.00	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.98	1.00	1.15	PB	2.92	2.88	2.94	
wind	-0.2 m/s	velocity	5.24	8.50	8.85	8.85	8.85	8.85	8.85	8.85	8.67	8.50	9.13	8.08	8.73	8.85	8.67	
FINAL - 2011 IAAF World Championships (Daegu, KOR)													<i>KSSB (2011) - biomechanical analysis of women's 100m hurdle</i>					
date	03-Sep-11	time	2.60	3.60	4.57	5.52	6.47	7.43	8.41	9.39	10.37	11.37	12.47	8 / 3				
reaction time	0.164	interval	1.00	0.97	0.95	0.95	0.96	0.98	0.98	0.98	0.98	1.00	1.10	PB	2.92	2.89	2.96	
wind	1.1 m/s	velocity	5.00	8.50	8.76	8.95	8.95	8.85	8.67	8.67	8.67	8.50	9.55	8.02	8.73	8.82	8.61	
FINAL - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	19-Aug-09	time	2.58	3.58	4.60	5.61	6.60	7.59	8.58	9.60	10.63	11.68	12.81	5 / 7				
reaction time	0.164	interval	1.00	1.02	1.01	0.99	0.99	0.99	1.02	1.03	1.05	1.13			3.03	2.97	3.10	
wind	0.2 m/s	velocity	5.04	8.50	8.33	8.42	8.59	8.59	8.59	8.33	8.25	8.10	9.29	7.81	8.42	8.59	8.23	
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	19-Aug-09	time	2.54	3.55	4.52	5.48	6.43	7.38	8.36	9.33	10.34	11.37	12.48	4 / 1				
reaction time	0.161	interval	1.01	0.97	0.96	0.95	0.95	0.98	0.97	1.01	1.03	1.11	PB		2.94	2.88	3.01	
wind	0.3 m/s	velocity	5.12	8.42	8.76	8.85	8.95	8.95	8.67	8.76	8.42	8.25	9.46	8.01	8.67	8.85	8.47	
Heat 1 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	18-Aug-09	time	2.58	3.59	4.58	5.58	6.56	7.54	8.54	9.55	10.55	11.58	12.70	1 / 1				
reaction time	0.143	interval	1.01	0.99	1.00	0.98	0.98	1.00	1.01	1.00	1.03	1.12			3.00	2.96	3.04	
wind	0.1 m/s	velocity	5.04	8.42	8.59	8.50	8.67	8.67	8.50	8.42	8.50	8.25	9.38	7.87	8.50	8.61	8.39	
FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
date	13-Sep-08	time	2.60	3.62	4.61	5.60	6.57	7.54	8.52	9.51	10.54	11.58	12.67	8 / 4 3				
reaction time	0.182	interval	1.02	0.99	0.99	0.97	0.97	0.98	0.99	1.03	1.04	1.09			3.00	2.92	3.06	
wind	0.3 m/s	velocity	5.00	8.33	8.59	8.59	8.76	8.76	8.67	8.59	8.25	8.17	9.63	7.89	8.50	8.73	8.33	

FINAL - 2008 Olympic Games (Beijing, CHN)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	19-Aug-08	time	2.55	3.59	4.53	5.51	6.50	7.46	8.45	9.44	10.43	11.44		12.54	6 / 1			
reaction time	0.193	interval		1.04	0.94	0.98	0.99	0.96	0.99	0.99	0.99	1.01	1.10	PB		2.96	2.94	2.99
wind	0.1 m/s	velocity	5.10	8.17	9.04	8.67	8.59	8.85	8.59	8.59	8.59	8.42	9.55	7.97		8.61	8.67	8.53

Semi-Final 2 - 2008 Olympic Games (Beijing, CHN)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	18-Aug-08	time	2.58	3.58	4.55	5.54	6.52	7.48	8.45	9.45	10.49	11.52		12.66	7 / 2			
reaction time	0.191	interval		1.00	0.97	0.99	0.98	0.96	0.97	1.00	1.04	1.03	1.14			2.96	2.91	3.07
wind	0.2 m/s	velocity	5.04	8.50	8.76	8.59	8.67	8.85	8.76	8.50	8.17	8.25	9.21	7.90		8.61	8.76	8.31

FINAL - 2008 USA Olympic Trials (Eugene, OR)*USATF Hurdle Development (2008)*

date	06-Jul-08	time	2.58	3.57	4.55	5.50	6.45	7.39	8.34	9.39	10.46	11.46		12.62	2 / 3			
reaction time		interval		0.99	0.98	0.95	0.95	0.94	0.95	1.05	1.07	1.00	1.16			2.92	2.84	3.12
wind	3.8 m/s	velocity	5.04	8.59	8.67	8.95	8.95	9.04	8.95	8.10	7.94	8.50	9.05	7.92		8.73	8.98	8.17

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

date	23-Jun-07	time	2.65	3.69	4.70	5.71	6.72	7.74	8.79	9.81	10.86	11.95		13.07	/ 8			
reaction time		interval		1.04	1.01	1.01	1.01	1.02	1.05	1.02	1.05	1.09	1.12			3.06	3.08	3.16
wind	-1.3 m/s	velocity	4.91	8.17	8.42	8.42	8.42	8.33	8.10	8.33	8.10	7.80	9.37	7.65		8.33	8.28	8.07

FINAL - 2006 USATF National Championships (Indianapolis, IN)*USATF Women's Hurdle Development (2006)*

date	24-Jun-06	time	2.67	3.69	4.72	5.72	6.72	7.71	8.74	9.75	10.78	11.88		13.02	7 / 7			
reaction time		interval		1.02	1.03	1.00	1.00	0.99	1.03	1.01	1.03	1.10	1.14			3.05	3.02	3.14
wind	-0.4 m/s	velocity	4.87	8.33	8.25	8.50	8.50	8.59	8.25	8.42	8.25	7.73	9.21	7.68		8.36	8.44	8.12

FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)*USATF Women's Sprint Development (2003)*

date	22-Jun-03	time	2.60	3.69	4.72	5.76	6.79	7.81	8.86	9.91	10.98	12.03		13.28	5 / 1			
reaction time		interval		1.09	1.03	1.04	1.03	1.02	1.05	1.05	1.07	1.05	1.25			3.16	3.10	3.17
wind	2.3 m/s	velocity	5.00	7.80	8.25	8.17	8.25	8.33	8.10	8.10	7.94	8.10	8.40	7.53		8.07	8.23	8.04

Harrison, Kendra (Keni) (USA) (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 Weltklasse (Zürich, SUI)***Omega Timing (2024) - diamond league race analysis*

date	05-Sep-24	time	2.45	3.51	4.49	5.46	6.42	7.37	8.34	9.32	10.32	11.33		12.57	1 / 7			
reaction time	0.147	interval		1.06	0.98	0.97	0.96	0.95	0.97	0.98	1.00	1.01	1.24			3.01	2.88	2.99
wind	0.8 m/s	velocity	5.31	8.02	8.67	8.76	8.85	8.95	8.76	8.67	8.50	8.42	8.10	7.96		8.47	8.85	8.53

FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)*Omega Timing (2024) - diamond league race analysis*

date	30-Aug-24	time	2.48	3.53	4.50	5.49	6.45	7.43	8.41	9.40	10.40	11.43		12.70	9 / 6			
reaction time	0.161	interval		1.05	0.97	0.99	0.96	0.98	0.98	0.99	1.00	1.03	1.27			3.01	2.92	3.02
wind	-0.4 m/s	velocity	5.24	8.10	8.76	8.59	8.85	8.67	8.67	8.59	8.50	8.25	7.91	7.87		8.47	8.73	8.44

FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)*Omega Timing (2024) - diamond league race analysis*

date	25-Aug-24	time	2.44	3.46	4.43	5.41	6.39	7.36	8.33	9.29	10.28	11.28		12.52	3 / 8			
reaction time	0.153	interval		1.02	0.97	0.98	0.98	0.97	0.97	0.96	0.99	1.00	1.24			2.97	2.92	2.95
wind	-0.5 m/s	velocity	5.33	8.33	8.76	8.67	8.67	8.76	8.76	8.85	8.59	8.50	8.10	7.99		8.59	8.73	8.64

Heat A - 2024 Kamila Skolimowska Memorial (Silesia, POL)*Omega Timing (2024) - diamond league race analysis*

date	25-Aug-24	time	2.44	3.46	4.43	5.41	6.37	7.34	8.31	9.28	10.25	11.25		12.49	7 / 3			
reaction time	0.186	interval		1.02	0.97	0.98	0.96	0.97	0.97	0.97	0.97	1.00	1.24			2.97	2.90	2.94
wind	-0.3 m/s	velocity	5.33	8.33	8.76	8.67	8.85	8.76	8.76	8.76	8.76	8.50	8.10	8.01		8.59	8.79	8.67

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

date	30-Jun-24	time	2.57	3.60	4.57	5.52	6.46	7.41	8.35	9.33	10.31	11.30		12.39	3 / 6			
reaction time		interval		1.03	0.97	0.95	0.94	0.95	0.94	0.98	0.98	0.99	1.09			2.95	2.83	2.95
wind	0.7 m/s	velocity	5.06	8.25	8.76	8.95	9.04	8.95	9.04	8.67	8.67	8.59	9.22	8.07		8.64	9.01	8.64

Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	29-Jun-24	time	2.57	3.62	4.61	5.56	6.51	7.47	8.42	9.41	10.38	11.38		12.52	7 / 2			
reaction time		interval		1.05	0.99	0.95	0.95	0.96	0.95	0.99	0.97	1.00	1.14			2.99	2.86	2.96
wind	0.8 m/s	velocity	5.06	8.10	8.59	8.95	8.95	8.85	8.95	8.59	8.76	8.50	8.82	7.99		8.53	8.92	8.61

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

date	28-Jun-24	time	2.59	3.63	4.60	5.57	6.51	7.45	8.41	9.39	10.38	11.38		12.49	3 / 1			
reaction time		interval		1.04	0.97	0.97	0.94	0.94	0.96	0.98	0.99	1.00	1.11			2.98	2.84	2.97
wind	0.2 m/s	velocity	5.02	8.17	8.76	8.76	9.04	9.04	8.85	8.67	8.59	8.50	9.05	8.01		8.56	8.98	8.59

FINAL - 2023 Prefontaine Classic (Eugene, OR)*Omega Timing (2023) - diamond league race analysis*

date	17-Sep-23	time	2.45	3.48	4.47	5.42	6.37	7.31	8.28	9.24	10.22	11.20		12.44	6 / 3			
reaction time	0.166	interval		1.03	0.99	0.95	0.95	0.94	0.97	0.96	0.98	0.98	1.24			2.97	2.86	2.92
wind	1.8 m/s	velocity	5.31	8.25	8.59	8.95	8.95	9.04	8.76	8.85	8.67	8.67	8.10	8.04		8.59	8.92	8.73

FINAL - 2023 Weltklasse (Zürich, SUI)*Omega Timing (2023) - diamond league race analysis*

date	31-Aug-23	time	2.42	3.46	4.46	5.44	6.40	7.36	8.33	9.32	10.33	11.34		12.59	5 / 3			
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reaction time	0.145	interval	1.04	1.00	0.98	0.96	0.96	0.97	0.99	1.01	1.01	1.25		3.02	2.89	3.01		
wind	-0.2 m/s	velocity	5.37	8.17	8.50	8.67	8.85	8.85	8.76	8.59	8.42	8.42	8.04	7.94	8.44	8.82	8.47	
FINAL - 2023 World Athletics Championships (Budapest, HUN) <i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>																		
date	24-Aug-23	time	2.58	3.60	4.57	5.52	6.47	7.42	8.39	9.37	10.35	11.38	12.46		4 / 3			
reaction time	0.155	interval	1.02	0.97	0.95	0.95	0.95	0.97	0.98	0.98	1.03	1.08			2.94	2.87	2.99	
wind	-0.2 m/s	velocity	5.04	8.33	8.76	8.95	8.95	8.95	8.76	8.67	8.67	8.25	9.31	8.03		8.67	8.89	8.53
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis) <i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																		
date	23-Aug-23	time	2.50	3.48	4.45	5.39	6.32	7.25	8.21	9.18	10.15	11.15	12.33		7 / 1			
reaction time	0.142	interval	0.98	0.97	0.94	0.94	0.93	0.93	0.96	0.97	0.97	1.00	1.18			2.89	2.82	2.94
wind	0.5 m/s	velocity	5.20	8.67	8.76	9.04	9.14	9.14	8.85	8.76	8.76	8.50	8.52	8.11		8.82	9.04	8.67
Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis) <i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																		
date	22-Aug-23	time	2.50	3.47	4.44	5.39	6.31	7.26	8.21	9.15	10.12	11.11	12.24		4 / 1			
reaction time	0.155	interval	0.97	0.97	0.95	0.92	0.95	0.95	0.95	0.94	0.97	0.99	1.13			2.89	2.82	2.90
wind	0.1 m/s	velocity	5.20	8.76	8.76	8.95	9.24	8.95	8.95	9.04	8.76	8.59	8.89	8.17		8.82	9.04	8.79
FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON) <i>Omega Timing (2023) - diamond league race analysis</i>																		
date	21-Jul-23	time	2.42	3.44	4.42	5.36	6.30	7.24	8.18	9.13	10.10	11.09	12.31		4 / 2			
reaction time	0.165	interval	1.02	0.98	0.94	0.94	0.94	0.94	0.95	0.97	0.99	1.22			2.94	2.82	2.91	
wind	0.6 m/s	velocity	5.37	8.33	8.67	9.04	9.04	9.04	9.04	8.95	8.76	8.59	8.24	8.12		8.67	9.04	8.76
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL) <i>Omega Timing (2023) - diamond league race analysis</i>																		
date	16-Jul-23	time	2.44	3.46	4.44	5.40	6.35	7.29	8.23	9.18	10.15	11.13	12.35		4 / 2			
reaction time	0.161	interval	1.02	0.98	0.96	0.95	0.94	0.94	0.95	0.97	0.98	1.22			2.96	2.83	2.90	
wind	0.9 m/s	velocity	5.33	8.33	8.67	8.85	8.95	9.04	9.04	8.95	8.76	8.67	8.24	8.10		8.61	9.01	8.79
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis) <i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																		
date	08-Jul-23	time	2.55	3.55	4.55	5.51	6.46	7.41	8.36	9.32	10.32	11.30	12.42		6 / 2			
reaction time		interval	1.00	1.00	0.96	0.95	0.95	0.95	0.96	1.00	0.98	1.12			2.96	2.85	2.94	
wind	0.4 m/s	velocity	5.10	8.50	8.50	8.85	8.95	8.95	8.95	8.85	8.50	8.67	8.97	8.05		8.61	8.95	8.67
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	2.53	3.57	4.52	5.45	6.40	7.34	8.28	9.24	10.21	11.20	12.29		5 / 1			
reaction time	0.151	interval	1.04	0.95	0.93	0.95	0.94	0.94	0.96	0.97	0.99	1.09			2.92	2.83	2.92	
wind	2.8 m/s	velocity	5.14	8.17	8.95	9.14	8.95	9.04	9.04	8.85	8.76	8.59	9.22	8.14		8.73	9.01	8.73
FINAL - 2023 USATF Los Angeles Grand Prix (Westwood, CA) (TV Analysis) <i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																		
date	27-May-23	time	2.57	3.57	4.54	5.48	6.42	7.38	8.34	9.30	10.26	11.26	12.35		6 / 2			
reaction time	0.207	interval	1.00	0.97	0.94	0.94	0.96	0.96	0.96	0.96	1.00	1.09			2.91	2.86	2.92	
wind	-0.2 m/s	velocity	5.06	8.50	8.76	9.04	9.04	8.85	8.85	8.85	8.85	8.50	9.22	8.10		8.76	8.92	8.73
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis) <i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																		
date	08-Sep-22	time	2.47	3.60	4.67	5.67	6.67	7.67	8.64	9.64	10.67	11.71	13.02		7 / 8			
reaction time	0.163	interval	1.13	1.07	1.00	1.00	1.00	0.97	1.00	1.03	1.04	1.31			3.20	2.97	3.07	
wind	-0.3 m/s	velocity	5.26	7.52	7.94	8.50	8.50	8.50	8.76	8.50	8.25	8.17	7.67	7.68		7.97	8.59	8.31
FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis) <i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																		
date	02-Sep-22	time	2.44	3.45	4.44	5.37	6.32	7.30	8.25	9.21	10.18	11.18	12.40		5 / 3			
reaction time	0.163	interval	1.01	0.99	0.93	0.95	0.98	0.95	0.96	0.97	1.00	1.22			2.93	2.88	2.93	
wind	0.1 m/s	velocity	5.33	8.42	8.59	9.14	8.95	8.67	8.95	8.85	8.76	8.50	8.24	8.06		8.70	8.85	8.70
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	3.50	4.50	5.47	6.44	7.42	8.39	9.37	10.34	11.36	12.59		6 / 6			
reaction time	0.171	interval	1.03	1.00	0.97	0.97	0.98	0.97	0.98	0.97	1.02	1.23			3.00	2.92	2.97	
wind	-0.9 m/s	velocity	5.26	8.25	8.50	8.76	8.76	8.67	8.76	8.67	8.76	8.33	8.17	7.94		8.50	8.73	8.59
FINAL - 2022 Gyulai István Memorial (Székesfehérvár, HUN) (TV Analysis) <i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																		
date	08-Aug-22	time	2.47	3.50	4.50	5.46	6.43	7.40	8.34	9.32	10.30	11.32	12.49		4 / 2			
reaction time	0.140	interval	1.03	1.00	0.96	0.97	0.97	0.94	0.98	0.98	1.02	1.17			2.99	2.88	2.98	
wind	2.4 m/s	velocity	5.26	8.25	8.50	8.85	8.76	8.76	9.04	8.67	8.67	8.33	8.59	8.01		8.53	8.85	8.56
FINAL - 2022 World Athletics Championships (Eugene, OR) (TV Analysis) <i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																		
date	24-Jul-22	time	2.45	3.47	4.47	5.40	6.36	7.30	8.26	9.27			dnf		3 / --			
reaction time	0.145	interval	1.02	1.00	0.93	0.96	0.94	0.96	1.01				DQ			2.95	2.86	
wind	2.5 m/s	velocity	5.31	8.33	8.50	9.14	8.85	9.04	8.85	8.42						8.64	8.92	
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis) <i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																		
date	24-Jul-22	time	2.46	3.48	4.43	5.36	6.30	7.23	8.15	9.13	10.10	11.08	12.27		6 / 2			
reaction time	0.155	interval	1.02	0.95	0.93	0.94	0.93	0.92	0.98	0.97	0.98	1.19			2.90	2.79	2.93	
wind	0.9 m/s	velocity	5.28	8.33	8.95	9.14	9.04	9.14	9.24	8.67	8.76	8.67	8.45	8.15		8.79	9.14	8.70

Heat 6 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

date	23-Jul-22	time	2.50	3.53	4.53	5.50	6.46	7.40	8.36	9.36	10.33	11.36	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
reaction time	0.182	interval		1.03	1.00	0.97	0.96	0.94	0.96	1.00	0.97	1.03	1.24		3.00	2.86	3.00
wind	-0.4 m/s	velocity	5.20	8.25	8.50	8.76	8.85	9.04	8.85	8.50	8.76	8.25	8.10	7.94	8.50	8.92	8.50

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

date	25-Jun-22	time	2.53	3.53	4.51	5.45	6.40	7.35	8.31	9.28	10.26	11.24	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
reaction time		interval		1.00	0.98	0.94	0.95	0.95	0.96	0.97	0.98	0.98	1.10		2.92	2.86	2.93
wind	-1.4 m/s	velocity	5.14	8.50	8.67	9.04	8.95	8.95	8.85	8.76	8.67	8.67	9.14	8.10	8.73	8.92	8.70

FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)

date	28-May-22	time	2.50	3.53	4.51	5.52	6.52	7.50	8.52	9.52	10.53	11.57	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
reaction time	0.144	interval		1.03	0.98	1.01	1.00	0.98	1.02	1.00	1.01	1.04	1.21		3.02	3.00	3.05
wind	-0.7 m/s	velocity	5.20	8.25	8.67	8.42	8.50	8.67	8.33	8.50	8.42	8.17	8.31	7.82	8.44	8.50	8.36

FINAL - 2022 Doha Diamond League (Doha, QAT) (TV Analysis)

date	13-May-22	time	2.50	3.53	4.51	5.45	6.40	7.34	8.29	9.25	10.23	11.25	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
reaction time	0.159	interval		1.03	0.98	0.94	0.95	0.94	0.95	0.96	0.98	1.02	1.18		2.95	2.84	2.96
wind	3.8 m/s	velocity	5.20	8.25	8.67	9.04	8.95	9.04	8.95	8.85	8.67	8.33	8.52	8.05	8.64	8.98	8.61

FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)

date	08-May-22	time	2.53	3.60	4.62	5.60	6.58	7.58	8.56	9.55	10.56	11.61	<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>				
reaction time	0.156	interval		1.07	1.02	0.98	0.98	1.00	0.98	0.99	1.01	1.05	1.15		3.07	2.96	3.05
wind	-0.1 m/s	velocity	5.14	7.94	8.33	8.67	8.67	8.50	8.67	8.59	8.42	8.10	8.74	7.84	8.31	8.61	8.36

FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)

date	22-Apr-22	time	2.50	3.54	4.54	5.50	6.46	7.42	8.38	9.36	10.38	11.38	<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
reaction time		interval		1.04	1.00	0.96	0.96	0.96	0.96	0.98	1.02	1.00	1.18		3.00	2.88	3.00
wind	0.8 m/s	velocity	5.20	8.17	8.50	8.85	8.85	8.85	8.85	8.67	8.33	8.50	8.52	7.96	8.50	8.85	8.50

Invitational FINAL - 2022 Texas Relays (Austin, TX) (TV Analysis)

date	26-Mar-22	time	2.54	3.52	4.45	5.40	6.34	7.27	8.24	9.21	10.18	11.18	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
reaction time		interval		0.98	0.93	0.95	0.94	0.93	0.97	0.97	0.97	1.00	1.14		2.86	2.84	2.94
wind	3.9 m/s	velocity	5.12	8.67	9.14	8.95	9.04	9.14	8.76	8.76	8.76	8.50	8.82	8.12	8.92	8.98	8.67

FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

date	02-Aug-21	time	2.44	3.48	4.46	5.42	6.38	7.36	8.30	9.28	10.26	11.28	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
reaction time	0.158	interval		1.04	0.98	0.96	0.96	0.98	0.94	0.98	0.98	1.02	1.24		2.98	2.88	2.98
wind	-0.3 m/s	velocity	5.33	8.17	8.67	8.85	8.85	8.67	9.04	8.67	8.67	8.33	8.10	7.99	8.56	8.85	8.56

Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

date	01-Aug-21	time	2.49	3.49	4.50	5.45	6.38	7.34	8.29	9.25	10.28	11.30	<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
reaction time	0.153	interval		1.00	1.01	0.95	0.93	0.96	0.95	0.96	1.03	1.02	1.21		2.96	2.84	3.01
wind	0.0 m/s	velocity	5.22	8.50	8.42	8.95	9.14	8.85	8.95	8.85	8.25	8.33	8.31	7.99	8.61	8.98	8.47

Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

date	31-Jul-21	time	2.51	3.52	4.52	5.51	6.49	7.46	8.44	9.44	10.46	11.54	<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
reaction time	0.152	interval		1.01	1.00	0.99	0.98	0.97	0.98	1.00	1.02	1.08	1.20		3.00	2.93	3.10
wind	0.4 m/s	velocity	5.18	8.42	8.50	8.59	8.67	8.76	8.67	8.50	8.33	7.87	8.37	7.85	8.50	8.70	8.23

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

date	20-Jun-21	time	2.45	3.45	4.43	5.39	6.34	7.30	8.26	9.22	10.22	11.24	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
reaction time	0.186	interval		1.00	0.98	0.96	0.95	0.96	0.96	0.96	1.00	1.02	1.23		2.94	2.87	2.98
wind	0.8 m/s	velocity	5.31	8.50	8.67	8.85	8.95	8.85	8.85	8.85	8.50	8.33	8.17	8.02	8.67	8.89	8.56

Semi Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)

date	20-Jun-21	time	2.43	3.46	4.44	5.40	6.36	7.32	8.27	9.25	10.23	11.26	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
reaction time	0.211	interval		1.03	0.98	0.96	0.96	0.96	0.95	0.98	0.98	1.03	1.24		2.97	2.87	2.99
wind	1.3 m/s	velocity	5.35	8.25	8.67	8.85	8.85	8.85	8.95	8.67	8.67	8.25	8.10	8.00	8.59	8.89	8.53

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

date	19-Jun-21	time	2.56	3.58	4.54	5.50	6.46	7.42	8.38	9.36	10.36	11.39	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
reaction time	0.291	interval		1.02	0.96	0.96	0.96	0.96	0.96	0.98	1.00	1.03	1.10		2.94	2.88	3.01
wind	-0.3 m/s	velocity	5.08	8.33	8.85	8.85	8.85	8.85	8.85	8.67	8.50	8.25	9.14	8.01	8.67	8.85	8.47

FINAL - 2021 USATF Golden Games (Walnut, CA) (TV Analysis)

date	09-May-21	time	2.50	3.50	4.46	5.41	6.36	7.31	8.29	9.26	10.24	11.26	<i>Henson (2021) - Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season</i>				
reaction time	0.185	interval		1.00	0.96	0.95	0.95	0.95	0.98	0.97	0.98	1.02	1.22		2.91	2.88	2.97
wind	2.0 m/s	velocity	5.20	8.50	8.85	8.95	8.95	8.95	8.67	8.76	8.67	8.33	8.24	8.01	8.76	8.85	8.59

FINAL - 2020 Millrose Games (New York, NY)

date	08-Feb-20	time	2.53	3.56	4.52	5.51	6.48						<i>PrimeTime Timing (2020) - http://results.nyrrmillrosegames.org/</i>		
reaction time	0.201	interval		1.03	0.96	0.99	0.97						1.42	2.98	

	velocity	5.14	8.25	8.85	8.59	8.76							9.15	7.59		8.56			
FINAL - 2019 IAAF World Championships (Doha, QAT)																			
CAA Hurdle Development (2019)																			
date	06-Oct-19	time	2.41	3.46	4.44	5.39	6.38	7.32	8.29	9.26	10.25	11.25		12.46		6 / 2			
reaction time	0.140	interval		1.05	0.98	0.95	0.99	0.94	0.97	0.97	0.99	1.00	1.21				2.98	2.90	2.96
wind	0.3 m/s	velocity	5.39	8.10	8.67	8.95	8.59	9.04	8.76	8.76	8.59	8.50	8.31	8.03			8.56	8.79	8.61
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)																			
Henson (2020) - Athlete First: 2019 year end hurdle report																			
date	06-Oct-19	time	2.38	3.38	4.36	5.34	6.30	7.26	8.24	9.22	10.22	11.26		12.58		5 / 1			
reaction time	0.155	interval		1.00	0.98	0.98	0.96	0.96	0.98	0.98	1.00	1.04	1.32				2.96	2.90	3.02
wind	0.8 m/s	velocity	5.46	8.50	8.67	8.67	8.85	8.85	8.67	8.67	8.50	8.17	7.61	7.95			8.61	8.79	8.44
Heat 4 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)																			
Henson (2021) - Athlete First: 2019 year end hurdle report																			
date	05-Oct-19	time	2.36	3.36	4.34	5.30	6.26	7.22	8.20	9.20	10.22	11.26		12.55		4 / 1			
reaction time	0.131	interval		1.00	0.98	0.96	0.96	0.96	0.98	1.00	1.02	1.04	1.29				2.94	2.90	3.06
wind	0.3 m/s	velocity	5.51	8.50	8.67	8.85	8.85	8.85	8.67	8.50	8.33	8.17	7.79	7.97			8.67	8.79	8.33
FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)																			
Henson (2020) - Athlete First: 2019 year end hurdle report																			
date	06-Sep-19	time	2.50	3.52	4.53	5.50	6.49	7.47	8.45	9.45	10.47	11.52		12.73		4 / 2			
reaction time	0.141	interval		1.02	1.01	0.97	0.99	0.98	0.98	1.00	1.02	1.05	1.21				3.00	2.95	3.07
wind	0.0 m/s	velocity	5.20	8.33	8.42	8.76	8.59	8.67	8.67	8.50	8.33	8.10	8.68	7.86			8.50	8.64	8.31
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)																			
Henson (2020) - Athlete First: 2019 year end hurdle report																			
date	18-Aug-19	time	2.50	3.53	4.53	5.50	6.47	7.44	8.41	9.41	10.41	11.44		12.66		2 / 2			
reaction time	0.172	interval		1.03	1.00	0.97	0.97	0.97	0.97	1.00	1.00	1.03	1.22				3.00	2.91	3.03
wind	-0.2 m/s	velocity	5.20	8.25	8.50	8.76	8.76	8.76	8.76	8.50	8.50	8.25	8.61	7.90			8.50	8.76	8.42
FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)																			
Henson (2020) - Athlete First: 2019 year end hurdle report																			
date	27-Jul-19	time	2.53	3.50	4.47	5.44	6.38	7.34	8.30	9.27	10.24	11.24		12.44		3 / 1			
reaction time		interval		0.97	0.97	0.97	0.94	0.96	0.96	0.97	0.97	1.00	1.20				2.91	2.86	2.94
wind	-1.2 m/s	velocity	5.14	8.76	8.76	8.76	9.04	8.85	8.85	8.76	8.76	8.50	8.75	8.04			8.76	8.92	8.67
FINAL - 2019 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)																			
Henson (2020) - Athlete First: 2019 year end hurdle report																			
date	12-Jul-19	time	2.54	3.54	4.52	5.48	6.44	7.38	8.32	9.30	10.28	11.26		12.43		4 / 1			
reaction time	0.126	interval		1.00	0.98	0.96	0.96	0.94	0.94	0.98	0.98	0.98	1.17				2.94	2.84	2.94
wind	0.1 m/s	velocity	5.12	8.50	8.67	8.85	8.85	9.04	9.04	8.67	8.67	8.67	8.97	8.05			8.67	8.98	8.67
FINAL - 2019 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)																			
Henson (2020) - Athlete First: 2019 year end hurdle report																			
date	30-May-19	time	2.52	3.54	4.52	5.48	6.46	7.44	8.42	9.40	10.38	11.38		12.52		5 / 1			
reaction time	0.137	interval		1.02	0.98	0.96	0.98	0.98	0.98	0.98	0.98	1.00	1.14				2.96	2.94	2.96
wind	1.3 m/s	velocity	5.16	8.33	8.67	8.85	8.67	8.67	8.67	8.67	8.67	8.50	9.21	7.99			8.61	8.67	8.61
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)																			
Henson (2021) - Athlete First: 2018 year end hurdle report																			
date	08-Sep-18	time	2.44	3.46	4.44	5.40	6.36	7.34	8.30	9.28	10.26	11.28		12.52		3 / 2			
reaction time	0.174	interval		1.02	0.98	0.96	0.96	0.98	0.96	0.98	0.98	1.02	1.24				2.96	2.90	2.98
wind	-0.1 m/s	velocity	5.33	8.33	8.67	8.85	8.85	8.67	8.85	8.67	8.67	8.33	8.47	7.99			8.61	8.79	8.56
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	4.56	5.52	6.52	7.48	8.46	9.44	10.42	11.44		12.63		4 / 2			
reaction time	0.205	interval		1.02	1.00	0.96	1.00	0.96	0.98	0.98	0.98	1.02	1.19				2.98	2.94	2.98
wind	0.1 m/s	velocity	5.12	8.33	8.50	8.85	8.50	8.85	8.67	8.67	8.67	8.33	8.82	7.92			8.56	8.67	8.56
FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)																			
Henson (2020) - Athlete First: 2018 year end hurdle report																			
date	22-Jul-18	time	2.44	3.46	4.44	5.40	6.36	7.28	8.24	9.20	10.18	11.18		12.36		6 / 1			
reaction time	0.169	interval		1.02	0.98	0.96	0.96	0.92	0.96	0.96	0.98	1.00	1.18				2.96	2.84	2.94
wind	0.6 m/s	velocity	5.33	8.33	8.67	8.85	8.85	9.24	8.85	8.85	8.67	8.50	8.90	8.09			8.61	8.98	8.67
FINAL - 2018 USATF National Championships (Des Moines, IA) (TV Analysis)																			
Henson (2020) - Athlete First: 2018 year end hurdle report																			
date	23-Jun-18	time	2.40	3.40	4.38	5.37	6.34	7.31	8.24	9.21	10.16	11.16		12.46		5 / 1			
reaction time		interval		1.00	0.98	0.99	0.97	0.97	0.93	0.97	0.95	1.00	1.30				2.97	2.87	2.92
wind	-1.4 m/s	velocity	5.42	8.50	8.67	8.59	8.76	8.76	9.14	8.76	8.95	8.50	8.08	8.03			8.59	8.89	8.73
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)																			
Henson (2020) - Athlete First: 2018 year end hurdle report																			
date	12-May-18	time	2.44	3.46	4.44	5.40	6.36	7.32	8.30	9.34	10.36	11.34		12.56		5 / 3			
reaction time	0.152	interval		1.02	0.98	0.96	0.96	0.96	0.98	1.04	1.02	0.98	1.22				2.96	2.90	3.04
wind	0.9 m/s	velocity	5.33	8.33	8.67	8.85	8.85	8.85	8.67	8.17	8.33	8.67	8.61	7.96			8.61	8.79	8.39
FINAL - 2018 Doha Diamond League (Doha, QAT) (TV Analysis)																			
Henson (2020) - Athlete First: 2018 year end hurdle report																			
date	04-May-18	time	2.48	3.50	4.50	5.48	6.44	7.40	8.36	9.34	10.32	11.32		12.53		5 / 1			
reaction time	0.154	interval		1.02	1.00	0.98	0.96	0.96	0.96	0.98	0.98	1.00	1.21				3.00	2.88	2.96
wind	0.5 m/s	velocity	5.24	8.33	8.50	8.67	8.85	8.85	8.85	8.67	8.67	8.50	8.68	7.98			8.50	8.85	8.61
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR) Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60m Hurdles Women																			

date	03-Mar-18	time	2.61	3.63	4.58	5.54	6.49								7.70	5 / 1				
reaction time	0.168	interval		1.02	0.95	0.96	0.95							1.21	CR / AR			2.93		
		velocity	4.98	8.33	8.95	8.85	8.95							10.74	12.99			8.70		
FINAL - 2017 IAAF World Championships (London, GBR) <i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>																				
date	12-Aug-17	time	2.40	3.44	4.46	5.48	6.49	7.50	8.48	9.47	10.46	11.49			12.74	3 / 4				
reaction time	0.146	interval		1.04	1.02	1.02	1.01	1.01	0.98	0.99	0.99	1.03	1.25					3.08	3.00	3.01
wind	0.1 m/s	velocity	5.42	8.17	8.33	8.33	8.42	8.42	8.67	8.59	8.59	8.25	8.40	7.85				8.28	8.50	8.47
Semi-Final 3 - 2017 IAAF World Championships (London, GBR) <i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>																				
date	11-Aug-17	time	2.40	3.52	4.57	5.60	6.59	7.56	8.55	9.53	10.53	11.58			12.86	6 / 3				
reaction time	0.148	interval		1.12	1.05	1.03	0.99	0.97	0.99	0.98	1.00	1.05	1.28					3.20	2.95	3.03
wind	0.2 m/s	velocity	5.42	7.59	8.10	8.25	8.59	8.76	8.59	8.67	8.50	8.10	8.20	7.78				7.97	8.64	8.42
FINAL - 2017 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis) <i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																				
date	21-Jul-17	time	2.52	3.56	4.54	5.50	6.46	7.44	8.40	9.38	10.38	11.40			12.51	4 / 1				
reaction time	0.161	interval		1.04	0.98	0.96	0.96	0.96	0.98	0.96	0.98	1.00	1.02	1.11				2.98	2.90	3.00
wind	-0.2 m/s	velocity	5.16	8.17	8.67	8.85	8.85	8.67	8.85	8.67	8.50	8.33	9.46	7.99				8.56	8.79	8.50
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	2.42	3.42	4.40	5.36	6.32	7.30	8.26	9.22	10.24	11.24			12.39	5 / 1				
reaction time	0.131	interval		1.00	0.98	0.96	0.96	0.98	0.96	0.96	1.02	1.00	1.15					2.94	2.90	2.98
wind	0.2 m/s	velocity	5.37	8.50	8.67	8.85	8.85	8.67	8.85	8.85	8.33	8.50	9.13	8.07				8.67	8.79	8.56
FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis) <i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																				
date	04-Jul-17	time	2.38	3.40	4.38	5.34	6.30	7.26	8.20	9.14	10.10	11.08			12.39	5 / 1				
reaction time	0.152	interval		1.02	0.98	0.96	0.96	0.96	0.94	0.94	0.96	0.98	1.31					2.96	2.86	2.88
wind	0.1 m/s	velocity	5.46	8.33	8.67	8.85	8.85	8.85	9.04	9.04	8.85	8.67	8.02	8.07				8.61	8.92	8.85
FINAL - 2017 Doha Diamond League (Doha, QAT) (TV Analysis) <i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																				
date	05-May-17	time	2.50	3.54	4.52	5.50	6.46	7.44	8.42	9.40	10.40	11.40			12.59	5 / 1				
reaction time	0.128	interval		1.04	0.98	0.98	0.96	0.98	0.98	0.98	1.00	1.00	1.19					3.00	2.92	2.98
wind	-2.3 m/s	velocity	5.20	8.17	8.67	8.67	8.85	8.67	8.67	8.67	8.50	8.50	8.82	7.94				8.50	8.73	8.56
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	3.55	4.53	5.53	6.50	7.45	8.41	9.37	10.35	11.35			12.56	4 / 1				
reaction time		interval		1.05	0.98	1.00	0.97	0.95	0.96	0.96	0.98	1.00	1.21					3.03	2.88	2.94
wind	1.0 m/s	velocity	5.20	8.10	8.67	8.50	8.76	8.95	8.85	8.85	8.67	8.50	8.68	7.96				8.42	8.85	8.67
FINAL - 2017 Karlsruhe Indoor (Karlsruhe, GER) <i>(2017.02.10) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																				
date	04-Feb-17	time	2.50	3.52	4.51	5.47	6.44								7.76	5 / 1				
reaction time	0.152	interval		1.02	0.99	0.96	0.97								1.32			2.97		
		velocity	5.20	8.33	8.59	8.85	8.76								9.85	12.89		8.59		
FINAL - 2017 Rod McCravy Memorial (Lexington, KY) <i>(2017.01.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																				
date	21-Jan-17	time	2.58	3.57	4.52	5.48	6.42								7.75	5 / 1				
reaction time		interval		0.99	0.95	0.96	0.94								1.33	PB		2.90		
		velocity	5.04	8.59	8.95	8.85	9.04								9.77	12.90		8.79		
FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis) <i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																				
date	01-Sep-16	time	2.48	3.48	4.48	5.48	6.46	7.44	8.42	9.40	10.38	11.38			12.63	5 / 1				
reaction time	0.168	interval		1.00	1.00	1.00	0.98	0.98	0.98	0.98	0.98	1.00	1.25					3.00	2.94	2.96
wind	0.4 m/s	velocity	5.24	8.50	8.50	8.50	8.67	8.67	8.67	8.67	8.67	8.50	8.40	7.92				8.50	8.67	8.61
FINAL - 2016 Meeting Paris (Saint-Denis, FRA) (TV Analysis) <i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																				
date	27-Aug-16	time	2.46	3.48	4.48	5.44	6.40	7.36	8.32	9.28	10.26	11.24			12.44	5 / 1				
reaction time	0.178	interval		1.02	1.00	0.96	0.96	0.96	0.96	0.96	0.98	0.98	1.20					2.98	2.88	2.92
wind	0.2 m/s	velocity	5.28	8.33	8.50	8.85	8.85	8.85	8.85	8.85	8.67	8.67	8.75	8.04				8.56	8.85	8.73
FINAL - 2016 Athletissima (Luusanne, SUI) (TV Analysis) <i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																				
date	25-Aug-16	time	2.48	3.50	4.48	5.44	6.40	7.36	8.32	9.28	10.26	11.26			12.42	5 / 1				
reaction time	0.148	interval		1.02	0.98	0.96	0.96	0.96	0.96	0.96	0.98	1.00	1.16					2.96	2.88	2.94
wind	0.7 m/s	velocity	5.24	8.33	8.67	8.85	8.85	8.85	8.85	8.85	8.67	8.50	9.05	8.05				8.61	8.85	8.67
FINAL - 2016 London Anniversary Games (London, GBR) <i>Vazel (2016) - Analysis of Keni Harrison's World Record 100m Hurdles Race</i>																				
date	22-Jul-16	time	2.49	3.49	4.45	5.40	6.33	7.27	8.21	9.15	10.11	11.10			12.20	4 / 1				
reaction time	0.143	interval		1.00	0.96	0.95	0.93	0.94	0.94	0.94	0.96	0.99	1.10					2.91	2.81	2.89
wind	0.3 m/s	velocity	5.22	8.50	8.85	8.95	9.14	9.04	9.04	9.04	8.85	8.59	9.55	8.20				8.76	9.07	8.82
Heat 2 - 2016 London Anniversary Games (London, GBR) <i>Brice (2017) - critical determinants of sprint hurdle performance</i>																				
date	22-Jul-16	time	2.55	3.56	4.55	5.53	6.47	7.42	8.38	9.34	10.33	11.33			12.40	/ 1				
reaction time	0.156	interval		1.01	0.99	0.98	0.94	0.95	0.96	0.96	0.99	1.00	1.07					2.98	2.85	2.95
wind	0.2 m/s	velocity	5.10	8.42	8.59	8.67	9.04	8.95	8.85	8.85	8.59	8.50	9.81	8.06				8.56	8.95	8.64

FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)

date	08-Jul-16	time	2.47	3.50	4.50	5.47	6.44	7.41	8.37	9.37	10.37	11.37	12.62	2 / 6			
reaction time	0.229	interval		1.03	1.00	0.97	0.97	0.97	0.96	1.00	1.00	1.00	1.25	3.00	2.90	3.00	
wind	1.2 m/s	velocity	5.26	8.25	8.50	8.76	8.76	8.76	8.85	8.50	8.50	8.50	8.40	7.92	8.50	8.79	8.50

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

FINAL - 2016 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)

date	16-Jun-16	time	2.46	3.48	4.48	5.46	6.42	7.38	8.38	9.38	10.38	11.38	12.66	5 / 1			
reaction time	0.185	interval		1.02	1.00	0.98	0.96	0.96	1.00	1.00	1.00	1.00	1.28	3.00	2.92	3.00	
wind	-0.4 m/s	velocity	5.28	8.33	8.50	8.67	8.85	8.85	8.50	8.50	8.50	8.50	8.20	7.90	8.50	8.73	8.50

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

FINAL - 2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis)

date	05-Jun-16	time	2.46	3.48	4.46	5.43	6.40	7.33	8.30	9.27	10.27	11.27	12.46	6 / 1			
reaction time	0.212	interval		1.02	0.98	0.97	0.97	0.93	0.97	0.97	1.00	1.00	1.19	2.97	2.87	2.97	
wind	-0.3 m/s	velocity	5.28	8.33	8.67	8.76	8.76	9.14	8.76	8.76	8.50	8.50	8.82	8.03	8.59	8.89	8.59

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

FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)

date	28-May-16	time	2.42	3.42	4.38	5.32	6.26	7.22	8.14	9.10	10.06	11.02	12.24	6 / 1			
reaction time		interval		1.00	0.96	0.94	0.94	0.96	0.92	0.96	0.96	0.96	1.22	AR PB	2.90	2.82	2.88
wind	0.7 m/s	velocity	5.37	8.50	8.85	9.04	9.04	8.85	9.24	8.85	8.85	8.85	8.61	8.17	8.79	9.04	8.85

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

Harrison, Michelle (CAN) (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)																	
date	08-Aug-24	time	2.54	3.63	4.68	5.71	6.73	7.76	8.80	9.85	10.92	11.98	13.30	7 / 7			
reaction time	0.155	interval		1.09	1.05	1.03	1.02	1.03	1.04	1.05	1.07	1.06	1.32	3.17	3.09	3.18	
wind	0.4 m/s	velocity	5.12	7.80	8.10	8.25	8.33	8.25	8.17	8.10	7.94	8.02	7.61	7.52	8.04	8.25	8.02

Paris 2024 Olympic Games - Results Book (2024)

Heat 5 - 2024 Olympic Games (Paris, FRA)

date	07-Aug-24	time	2.52	3.60	4.64	5.67	6.70	7.75	8.79	9.85	10.92	12.03	13.40	8 / 8			
reaction time	0.142	interval		1.08	1.04	1.03	1.03	1.05	1.04	1.06	1.07	1.11	1.37	3.15	3.12	3.24	
wind	-0.6 m/s	velocity	5.16	7.87	8.17	8.25	8.25	8.10	8.17	8.02	7.94	7.66	7.34	7.46	8.10	8.17	7.87

Paris 2024 Olympic Games - Results Book (2024)

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

date	23-Aug-23	time	2.67	3.67	4.69	5.70	6.70	7.72	8.72	9.74	10.78	11.82	13.05	2 / 8			
reaction time	0.158	interval		1.00	1.02	1.01	1.00	1.02	1.00	1.02	1.04	1.04	1.23	3.03	3.02	3.10	
wind	-0.4 m/s	velocity	4.87	8.50	8.33	8.42	8.50	8.33	8.50	8.33	8.17	8.17	8.17	7.66	8.42	8.44	8.23

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

Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

date	22-Aug-23	time	2.63	3.63	4.63	5.63	6.62	7.62	8.61	9.63	10.63	11.67	12.88	8 / 6			
reaction time	0.152	interval		1.00	1.00	1.00	0.99	1.00	0.99	1.02	1.00	1.04	1.21	3.00	2.98	3.06	
wind	0.1 m/s	velocity	4.94	8.50	8.50	8.50	8.59	8.50	8.59	8.33	8.50	8.17	8.31	7.76	8.50	8.56	8.33

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

FINAL - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)

date	07-Aug-22	time	2.60	3.62	4.64	5.66	6.68	7.66	8.66	9.70	10.76	11.82	25.13	2 / 8			
reaction time	0.126	interval		1.02	1.02	1.02	1.02	0.98	1.00	1.04	1.06	1.06	13.31	3.06	3.00	3.16	
wind	-0.2 m/s	velocity	5.00	8.33	8.33	8.33	8.33	8.67	8.50	8.17	8.02	8.02	0.76	3.98	8.33	8.50	8.07

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

Heat 3 - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)

date	05-Aug-22	time	2.60	3.63	4.63	5.60	6.60	7.60	8.58	9.60	10.63	11.67	12.85	6 / 3			
reaction time	0.137	interval		1.03	1.00	0.97	1.00	1.00	0.98	1.02	1.03	1.04	1.18	3.00	2.98	3.09	
wind	2.4 m/s	velocity	5.00	8.25	8.50	8.76	8.50	8.50	8.67	8.33	8.25	8.17	8.52	7.78	8.50	8.56	8.25

Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season

Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

date	24-Jul-22	time	2.60	3.60	4.60	5.56	6.53	7.53	8.53	9.53	10.53	11.57	12.74	4 / 4			
reaction time	0.106	interval		1.00	1.00	0.96	0.97	1.00	1.00	1.00	1.00	1.04	1.17	PB	2.96	2.97	3.04
wind	0.3 m/s	velocity	5.00	8.50	8.50	8.85	8.76	8.50	8.50	8.50	8.50	8.17	8.59	7.85	8.61	8.59	8.39

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

Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

date	23-Jul-22	time	2.60	3.63	4.63	5.63	6.63	7.63	8.63	9.63	10.66	11.70	12.95	2 / 2			
reaction time	0.137	interval		1.03	1.00	1.00	1.00	1.00	1.00	1.00	1.03	1.04	1.25	3.03	3.00	3.07	
wind	-0.3 m/s	velocity	5.00	8.25	8.50	8.50	8.50	8.50	8.50	8.50	8.25	8.17	8.04	7.72	8.42	8.50	8.31

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

FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)

date	14-Feb-20	time	2.70	3.79	4.83	5.87	6.92						8.31	5 / 3			
reaction time		interval		1.09	1.04	1.04	1.05						1.39	3.17			
		velocity	4.81	7.80	8.17	8.17	8.10						9.35	7.22	8.04		

CAA Hurdle Development (2020)

Hatton, Lucy (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 - 2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis)																	
date	05-Jun-16	time	2.63	3.70	4.73	5.76	6.80	7.83	8.86	9.93	11.00	12.06	13.36	9 / 8			
reaction time	0.232	interval		1.07	1.03	1.03	1.04	1.03	1.03	1.07	1.07	1.06	1.30	3.13	3.10	3.20	
wind	-0.3 m/s	velocity	4.94	7.94	8.25	8.25	8.17	8.25	8.25	7.94	7.94	8.02	8.08	7.49	8.15	8.23	7.97

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Hawkins, Chari (USA) (1991)																		
Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	08-Aug-24	time	2.49	3.56	4.59	5.64	6.69	7.71	8.74	9.76	10.81	11.87		13.16	8 / 5			
reaction time	0.155	interval		1.07	1.03	1.05	1.05	1.02	1.03	1.02	1.05	1.06	1.29			3.15	3.10	3.13
wind	-0.1 m/s	velocity	5.22	7.94	8.25	8.10	8.10	8.33	8.25	8.33	8.10	8.02	7.79	7.60		8.10	8.23	8.15
Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>					
date	19-Aug-23	time	2.65	3.70	4.70	5.70	6.70	7.70	8.72	9.74	10.80	11.86		13.04	7 / 3			
reaction time	0.168	interval		1.05	1.00	1.00	1.00	1.00	1.02	1.02	1.06	1.06	1.18	PB		3.05	3.02	3.14
wind	0.4 m/s	velocity	4.91	8.10	8.50	8.50	8.50	8.50	8.33	8.33	8.02	8.02	8.52	7.67		8.36	8.44	8.12
Hayashi, Miki (JPN) (2005)																		
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)													<i>Takashima (2023) - national high school sports festival - biomechanics data</i>					
date	06-Aug-23	time	2.67	3.72	4.76	5.78	6.82	7.88	8.93	10.03	11.14	12.28		13.53	6 / 1			
reaction time	0.194	interval		1.05	1.04	1.02	1.04	1.06	1.05	1.10	1.11	1.14	1.25			3.11	3.15	3.35
wind	0.8 m/s	velocity	4.87	8.10	8.17	8.33	8.17	8.02	8.10	7.73	7.66	7.46	8.04	7.39		8.20	8.10	7.61
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)													<i>Kishima (2022) - national high school championships biomechanics data collection</i>					
date	07-Aug-22	time	2.62	3.71	4.78	5.84	6.90	7.96	9.03	10.14	11.24	12.40		13.65	4 / 1			
reaction time	0.125	interval		1.09	1.07	1.06	1.06	1.06	1.07	1.11	1.10	1.16	1.25			3.22	3.19	3.37
wind	-1.5 m/s	velocity	4.96	7.80	7.94	8.02	8.02	8.02	7.94	7.66	7.73	7.33	8.04	7.33		7.92	7.99	7.57
Hayes, Joanna (USA) (1976)																		
FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
date	13-Sep-08	time	2.68	3.75	4.78	5.80	6.82	7.82	8.81	9.84	10.84	11.92		13.06	2 / 3 7			
reaction time	0.156	interval		1.07	1.03	1.02	1.02	1.00	0.99	1.03	1.00	1.08	1.14			3.12	3.01	3.11
wind	0.3 m/s	velocity	4.85	7.94	8.25	8.33	8.33	8.50	8.59	8.25	8.50	7.87	9.21	7.66		8.17	8.47	8.20
FINAL - 2008 USA Olympic Trials (Eugene, OR)													<i>USATF Hurdle Development (2008)</i>					
date	22-Jun-03	time	2.61	3.60	4.55	5.48	6.47	7.57	8.60	9.64	10.71	11.79		12.96	7 / 7			
reaction time		interval		0.99	0.95	0.93	0.99	1.10	1.03	1.04	1.07	1.08	1.17			2.87	3.12	3.19
wind	-0.1 m/s	velocity	4.98	8.59	8.95	9.14	8.59	7.73	8.25	8.17	7.94	7.87	8.97	7.72		8.89	8.17	7.99
FINAL - 2004 Olympic Games (Athens, GRE)													<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>					
date	24-Aug-04	time	2.52	3.53	4.50	5.45	6.42	7.36	8.32	9.29	10.27	11.28		12.37	4 / 1			
reaction time	0.169	interval		1.01	0.97	0.95	0.97	0.94	0.96	0.97	0.98	1.01	1.09	OR / PB		2.93	2.87	2.96
wind	0.3 m/s	velocity	5.16	8.42	8.76	8.95	8.76	9.04	8.85	8.76	8.67	8.42	9.63	8.08		8.70	8.89	8.61
Hazel, Louise (GBR) (1985)																		
Heptathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	15-Aug-09	time	2.70	3.75	4.82	5.89	6.94	8.00	9.07	10.14	11.24	12.39		13.60	6 / 1			
reaction time	0.184	interval		1.05	1.07	1.07	1.05	1.06	1.07	1.07	1.10	1.15	1.21			3.19	3.18	3.32
wind	-0.1 m/s	velocity	4.81	8.10	7.94	7.94	8.10	8.02	7.94	7.94	7.73	7.39	8.68	7.35		7.99	8.02	7.68
He Jiamin (CHN) (2001)																		
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)													<i>CAA Hurdle Development (2019)</i>					
date	23-Aug-19	time	2.90	4.09	5.29	6.47	7.66	8.88	10.08	11.30	12.56	13.86		15.33	2 / 6			
reaction time	0.216	interval		1.19	1.20	1.18	1.19	1.22	1.20	1.22	1.26	1.30	1.47			3.57	3.61	3.78
wind	-0.2 m/s	velocity	4.48	7.14	7.08	7.20	7.14	6.97	7.08	6.97	6.75	6.54	7.14	6.52		7.14	7.06	6.75
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)													<i>CAA Hurdle Development (2019)</i>					
date	14-Aug-19	time	2.74	3.89	5.00	6.13	7.24	8.39	9.53	10.67	11.83	13.00		14.33	2 / 6			
reaction time	0.164	interval		1.15	1.11	1.13	1.11	1.15	1.14	1.14	1.16	1.17	1.33			3.39	3.40	3.47
wind	-0.1 m/s	velocity	4.74	7.39	7.66	7.52	7.66	7.39	7.46	7.46	7.33	7.26	7.89	6.98		7.52	7.50	7.35
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN)													<i>CAA Hurdle Development (2019)</i>					
date	14-Aug-19	time	2.74	3.87	5.00	6.12	7.23	8.34	9.47	10.58	11.74	12.93		14.20	6 / 3			
reaction time	0.190	interval		1.13	1.13	1.12	1.11	1.11	1.13	1.11	1.16	1.19	1.27	PB		3.38	3.35	3.46
wind	0.0 m/s	velocity	4.74	7.52	7.52	7.59	7.66	7.66	7.52	7.66	7.33	7.14	8.27	7.04		7.54	7.61	7.37
He Xinyi (CHN) (2000)																		
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN)													<i>CAA Hurdle Development (2019)</i>					
date	14-Aug-19	time	2.75	3.89	5.01	6.16	7.29	8.46	9.64	10.87	12.10	13.37		14.79	3 / 5			
reaction time	0.179	interval		1.14	1.12	1.15	1.13	1.17	1.18	1.23	1.23	1.27	1.42	=PB		3.41	3.48	3.73
wind	0.0 m/s	velocity	4.73	7.46	7.59	7.39	7.52	7.26	7.20	6.91	6.91	6.69	7.39	6.76		7.48	7.33	6.84
Helsby, Ashley (GBR) (1990)																		
FINAL - 2010 Windsprint (Sundsvall, SWE)													<i>Blomkvist (2010) - 100/110m Hurdles: Development</i>					
date	08-Aug-10	time	2.67	3.75	4.81	5.86	6.90	7.95	9.04	10.14	11.28	12.49		14.01	/ 3			
reaction time		interval		1.08	1.06	1.05	1.04	1.05	1.09	1.10	1.14	1.21	1.52			3.19	3.18	3.45
wind	0.6 m/s	velocity	4.87	7.87	8.02	8.10	8.17	8.10	7.80	7.73	7.46	7.02	6.91	7.14		7.99	8.02	7.39
Hemphill, Megu (JPN) (1996)																		

Heptathlon - Heat 3 - 2022 Japanese Multi-Event National Championships (Akita, JPN)*Takefu (2023) - performance analysis of heptathletes in the 2022 season*

date	04-Jun-22	time	2.72	3.79	4.83	5.87	6.92	7.96	9.00	10.06	11.13	12.21	13.45	6 / 1	
reaction time		interval		1.07	1.04	1.04	1.05	1.04	1.04	1.06	1.07	1.08	1.24	3.15 3.13 3.21	
wind	0.4 m/s	velocity	4.78	7.94	8.17	8.17	8.10	8.17	8.17	8.02	7.94	7.87	8.10	7.43	8.10 8.15 7.94

Heptathlon - Heat 1 - 2022 Michitaka Kinami Memorial (Osaka, JPN)*Takefu (2023) - performance analysis of heptathletes in the 2022 season*

date	30-Apr-22	time	2.75	3.85	4.92	5.97	7.03	8.08	9.15	10.23	11.34	12.47	13.76	3 / 1	
reaction time	0.159	interval		1.10	1.07	1.05	1.06	1.05	1.07	1.08	1.11	1.13	1.29	3.22 3.18 3.32	
wind	-0.6 m/s	velocity	4.73	7.73	7.94	8.10	8.02	8.10	7.94	7.87	7.66	7.52	7.79	7.27	7.92 8.02 7.68

Heptathlon - Heat 3 - 2020 Japanese Multi-Event National Championships (Nagano, JPN)*Matsubayashi (2020) - research athlete performance technique- 2020 databook*

date	26-Sep-20	time	2.74	3.85	4.91	5.97	7.01	8.06	9.10	10.17	11.24	12.33	13.54	4 / 1	
reaction time		interval		1.11	1.06	1.06	1.04	1.05	1.04	1.07	1.07	1.09	1.21	3.23 3.13 3.23	
wind	0.1 m/s	velocity	4.74	7.66	8.02	8.02	8.17	8.10	8.17	7.94	7.94	7.80	8.31	7.39	7.89 8.15 7.89

Race 2 - 2020 World Athletics Trials (Fuji, JPN)*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	06-Sep-20	time	2.69	3.77	4.82	5.84	6.87	7.89	8.93	9.98	11.05	12.15	13.37	1 / 2	
reaction time		interval		1.08	1.05	1.02	1.03	1.02	1.04	1.05	1.07	1.10	1.22	3.15 3.09 3.22	
wind	1.3 m/s	velocity	4.83	7.87	8.10	8.33	8.25	8.33	8.17	8.10	7.94	7.73	8.24	7.48	8.10 8.25 7.92

FINAL - 2020 Athlete Night Games (Fukui, JPN)*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	29-Aug-20	time	2.68	3.78	4.84	5.89	6.93	7.98	9.04	10.11	11.19	12.32	13.58	1 / 7	
reaction time		interval		1.10	1.06	1.05	1.04	1.05	1.06	1.07	1.08	1.13	1.26	3.21 3.15 3.28	
wind	2.1 m/s	velocity	4.85	7.73	8.02	8.10	8.17	8.10	8.02	7.94	7.87	7.52	7.98	7.36	7.94 8.10 7.77

Heptathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)*Matsubayashi (2018) - research on athlete performance and technique*

date	16-Jun-18	time	2.74	3.82	4.88	5.94	7.02	8.06	9.12	10.21	11.29	12.41	13.68	4 / 1	
reaction time		interval		1.08	1.06	1.06	1.08	1.04	1.06	1.09	1.08	1.12	1.27	3.20 3.18 3.29	
wind	1.6 m/s	velocity	4.74	7.87	8.02	8.02	7.87	8.17	8.02	7.80	7.87	7.59	8.27	7.31	7.97 8.02 7.75

Heptathlon - Heat 3 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN)*Matsubayashi (2018) - research on athlete performance and technique- 2018 data book*

date	21-Apr-18	time	2.84	4.03	5.21	6.39	7.55	8.70	9.86	11.04	12.24	13.47	14.84	4 / 3	
reaction time		interval		1.19	1.18	1.18	1.16	1.15	1.16	1.18	1.20	1.23	1.37	3.55 3.47 3.61	
wind	-4.5 m/s	velocity	4.58	7.14	7.20	7.20	7.33	7.39	7.33	7.20	7.08	6.91	7.66	6.74	7.18 7.35 7.06

Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)*(2017) - tfdata-store.com/2017/06/08/post-920/*

date	26-May-17	time	2.73	3.82	4.87	5.91	6.95	7.98	9.02	10.09	11.18	12.28	13.53	5 / 2	
reaction time	0.155	interval		1.09	1.05	1.04	1.04	1.03	1.04	1.07	1.09	1.10	1.25	3.18 3.11 3.26	
wind	1.9 m/s	velocity	4.76	7.80	8.10	8.17	8.17	8.25	8.17	7.94	7.80	7.73	8.40	7.39	8.02 8.20 7.82

FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)*(2017) - tfdata-store.com/2017/05/01/458/*

date	29-Apr-17	time	2.71	3.81	4.88	5.92	6.98	8.02	9.05	10.10	11.16	12.23	13.40	2 / 4	
reaction time		interval		1.10	1.07	1.04	1.06	1.04	1.03	1.05	1.06	1.07	1.17	3.21 3.13 3.18	
wind	2.0 m/s	velocity	4.80	7.73	7.94	8.17	8.02	8.17	8.25	8.10	8.02	7.94	8.97	7.46	7.94 8.15 8.02

FINAL - 2016 National Sports Festival (Kitakami, JPN)*(2016.11.14) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	10-Oct-16	time	2.69	3.76	4.80	5.84	6.87	7.90	8.92	9.97	11.04	12.13	13.35	7 / 1	
reaction time	0.129	interval		1.07	1.04	1.04	1.03	1.03	1.02	1.05	1.07	1.09	1.22	3.15 3.08 3.21	
wind	2.8 m/s	velocity	4.83	7.94	8.17	8.17	8.25	8.25	8.33	8.10	7.94	7.80	8.61	7.49	8.10 8.28 7.94

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	3.77	4.81	5.86	6.88	7.91	8.96	10.01	11.08	12.17	13.38	2 / 1	
reaction time	0.138	interval		1.08	1.04	1.05	1.02	1.03	1.05	1.05	1.07	1.09	1.21	PB	3.17 3.10 3.21
wind	1.1 m/s	velocity	4.83	7.87	8.17	8.10	8.33	8.25	8.10	8.10	7.94	7.80	8.68	7.47	8.04 8.23 7.94

Division 1 FINAL - 2016 Kanto Collegiate Championships (Yokohama, JPN)*(2016.05.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	20-May-16	time	2.73	3.82	4.88	5.93	6.99	8.05	9.10	10.17	11.25	12.33	13.53	4 / 1	
reaction time	0.146	interval		1.09	1.06	1.05	1.06	1.06	1.05	1.07	1.08	1.08	1.20	3.20 3.17 3.23	
wind	-0.4 m/s	velocity	4.76	7.80	8.02	8.10	8.02	8.02	8.10	7.94	7.87	7.87	8.75	7.39	7.97 8.04 7.89

FINAL - 2015 Japanese National Championships (Niigata, JPN)*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	27-Jun-15	time	2.69	3.77	4.81	5.85	6.89	7.93	8.98	10.05	11.14	12.26	13.52	3 / 5	
reaction time	0.145	interval		1.08	1.04	1.04	1.04	1.04	1.05	1.07	1.09	1.12	1.26	3.16 3.13 3.28	
wind	-0.2 m/s	velocity	4.83	7.87	8.17	8.17	8.17	8.17	8.10	7.94	7.80	7.59	8.33	7.40	8.07 8.15 7.77

FINAL - 2014 Japanese National High School Championships (Kofu, JPN)*Yanagiya (2014) - research on athlete performance and technique- 2014 data book*

date	03-Aug-14	time	2.75	3.87	4.95	6.00	7.07	8.12	9.19	10.27	11.35	12.46	13.72	6 / 1	
reaction time		interval		1.12	1.08	1.05	1.07	1.05	1.07	1.08	1.08	1.11	1.26	3.25 3.19 3.27	
wind	-0.9 m/s	velocity	4.73	7.59	7.87	8.10	7.94	8.10	7.94	7.87	7.87	7.66	8.33	7.29	7.85 7.99 7.80

Hentschke, Nadine (GER) (1982)**FINAL - 2002 German National Indoor Championships (Sindelfingen, GER)***Hücklekemkes (2002) - explosive starten vielfältig erlernen*

date	16-Feb-02	time	2.62	3.68	4.70	5.73	6.75						8.09	1 / 2
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reaction time	0.161	interval	1.06	1.02	1.03	1.02								1.34		3.11		
wind		velocity	4.96	8.02	8.33	8.25	8.33							9.70	7.42	8.20		
Herman, Elvira (BLR) (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	01-Aug-21	time	2.62	3.64	4.62	5.58	6.54	7.50	8.49	9.48	10.50	11.51		12.71	9 / 5			
reaction time	0.129	interval	1.02	0.98	0.96	0.96	0.96	0.99	0.99	1.02	1.01	1.20				2.96	2.91	3.02
wind	-0.2 m/s	velocity	4.96	8.33	8.67	8.85	8.85	8.85	8.59	8.59	8.33	8.42	8.37	7.87		8.61	8.76	8.44
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																		
<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																		
date	31-Jul-21	time	2.62	3.66	4.70	5.72	6.71	7.68	8.66	9.70	10.74	11.75		12.95	4 / 4			
reaction time	0.144	interval	1.04	1.04	1.02	0.99	0.97	0.98	1.04	1.04	1.01	1.20				3.10	2.94	3.09
wind	0.4 m/s	velocity	4.96	8.17	8.17	8.33	8.59	8.76	8.67	8.17	8.17	8.42	8.38	7.72		8.23	8.67	8.25
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	2.58	3.60	4.58	5.57	6.54	7.51	8.49	9.47	10.47	11.49		12.67	3 / 2			
reaction time	0.152	interval	1.02	0.98	0.99	0.97	0.97	0.98	0.98	1.00	1.02	1.18				2.99	2.92	3.00
wind	0.2 m/s	velocity	5.04	8.33	8.67	8.59	8.76	8.76	8.67	8.67	8.50	8.33	8.52	7.89		8.53	8.73	8.50
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	2.60	3.66	4.64	5.64	6.62	7.60	8.60	9.60	10.62	11.64		12.85	3 / 3			
reaction time	0.132	interval	1.06	0.98	1.00	0.98	0.98	1.00	1.00	1.02	1.02	1.21				3.04	2.96	3.04
wind	-0.8 m/s	velocity	5.00	8.02	8.67	8.50	8.67	8.67	8.50	8.50	8.33	8.33	8.31	7.78		8.39	8.61	8.39
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	2.56	3.60	4.63	5.61	6.61	7.61	8.61	9.61	10.64	11.67		12.96	3 / 3			
reaction time	0.142	interval	1.04	1.03	0.98	1.00	1.00	1.00	1.00	1.03	1.03	1.29				3.05	3.00	3.06
wind	-0.2 m/s	velocity	5.08	8.17	8.25	8.67	8.50	8.50	8.50	8.50	8.25	8.25	7.79	7.72		8.36	8.50	8.33
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)																		
<i>CAA Hurdle Development (2019)</i>																		
date	06-Oct-19	time	2.63	3.67	4.67	5.65	6.62	7.62	8.60	9.60	10.61	11.64		12.78	6 / 4			
reaction time	0.144	interval	1.04	1.00	0.98	0.97	1.00	0.98	1.00	1.01	1.03	1.14				3.02	2.95	3.04
wind	0.6 m/s	velocity	4.94	8.17	8.50	8.67	8.76	8.50	8.67	8.50	8.42	8.25	8.82	7.82		8.44	8.64	8.39
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																		
date	10-Sep-19	time	2.56	3.63	4.63	5.63	6.60	7.60	8.60	9.63	10.63	11.65		12.92	4 / 3			
reaction time	0.145	interval	1.07	1.00	1.00	0.97	1.00	1.00	1.03	1.00	1.02	1.27				3.07	2.97	3.05
wind	0.1 m/s	velocity	5.08	7.94	8.50	8.50	8.76	8.50	8.50	8.25	8.50	8.33	8.27	7.74		8.31	8.59	8.36
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	2.63	3.70	4.72	5.72	6.74	7.74	8.77	9.79	10.82	11.87		13.12	7 / 7			
reaction time	0.119	interval	1.07	1.02	1.00	1.02	1.00	1.03	1.02	1.03	1.05	1.25				3.09	3.05	3.10
wind	0.0 m/s	velocity	4.94	7.94	8.33	8.50	8.33	8.50	8.25	8.33	8.25	8.10	8.40	7.62		8.25	8.36	8.23
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																		
date	20-Jul-19	time	2.60	3.66	4.68	5.68	6.66	7.66	8.68	9.72	10.76	11.80		13.02	1 / 7			
reaction time	0.129	interval	1.06	1.02	1.00	0.98	1.00	1.02	1.04	1.04	1.04	1.22				3.08	3.00	3.12
wind	0.8 m/s	velocity	5.00	8.02	8.33	8.50	8.67	8.50	8.33	8.17	8.17	8.61	7.68			8.28	8.50	8.17
FINAL - 2019 Bislett Games (Oslo, NOR) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																		
date	13-Jun-19	time	2.64	3.68	4.68	5.68	6.68	7.66	8.64	9.64	10.66	11.68		12.84	6 / 3			
reaction time	0.145	interval	1.04	1.00	1.00	1.00	0.98	0.98	1.00	1.02	1.02	1.16				3.04	2.96	3.04
wind	1.1 m/s	velocity	4.92	8.17	8.50	8.50	8.50	8.67	8.67	8.50	8.33	8.33	9.05	7.79		8.39	8.61	8.39
FINAL - 2019 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																		
date	30-May-19	time	2.64	3.68	4.68	5.68	6.68	7.68	8.68	9.70	10.72	11.76		12.94	3 / 5			
reaction time	0.132	interval	1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.18				3.04	3.00	3.08
wind	1.3 m/s	velocity	4.92	8.17	8.50	8.50	8.50	8.50	8.50	8.33	8.33	8.17	8.90	7.73		8.39	8.50	8.28
FINAL - 2019 Doha Diamond League (Doha, QAT) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																		
date	03-May-19	time	2.58	3.62	4.64	5.64	6.58	7.58	8.58	9.60	10.62	11.66		12.88	3 / 6			
reaction time	0.136	interval	1.04	1.02	1.00	0.94	1.00	1.00	1.02	1.02	1.04	1.22				3.06	2.94	3.08
wind	0.9 m/s	velocity	5.04	8.17	8.33	8.50	9.04	8.50	8.50	8.33	8.33	8.17	8.61	7.76		8.33	8.67	8.28
FINAL - 2019 ISTAF Indoor (Berlin, GER) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																		
date	1-Feb-19	time	2.60	3.62	4.62	5.60	6.58							7.97	5 / 3			
reaction time	0.142	interval	1.02	1.00	0.98	0.98							1.39			3.00		
		velocity	5.00	8.33	8.50	8.67	8.67						9.35	7.53		8.50		
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)																		
<i>Henson (2021) - Athlete First: 2018 year end hurdle report</i>																		
date	08-Sep-18	time	2.60	3.64	4.66	5.64	6.62	7.62	8.62	9.62	10.62	11.66		12.91	6 / 4			
reaction time	0.173	interval	1.04	1.02	0.98	0.98	1.00	1.00	1.00	1.00	1.04	1.25				3.04	2.98	3.04
wind	-0.1 m/s	velocity	5.00	8.17	8.33	8.67	8.67	8.50	8.50	8.50	8.50	8.17	8.40	7.75		8.39	8.56	8.39

FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)

date	22-Jul-18	time	2.60	3.62	4.64	5.62	6.60	7.60	8.60	9.60	10.60	11.60	12.78	1 / 9			
reaction time	0.147	interval		1.02	1.02	0.98	0.98	1.00	1.00	1.00	1.00	1.00	1.18		3.02	2.98	3.00
wind	0.6 m/s	velocity	5.00	8.33	8.33	8.67	8.67	8.50	8.50	8.50	8.50	8.50	8.90	7.82	8.44	8.56	8.50

Henson (2020) - Athlete First: 2018 year end hurdle report

FINAL - 2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)

date	31-May-18	time	2.56	3.62	4.60	5.60	6.58	7.56	8.54	9.54	10.64	11.70	12.97	2 / 5			
reaction time	0.155	interval		1.06	0.98	1.00	0.98	0.98	0.98	1.00	1.10	1.06	1.27		3.04	2.94	3.16
wind	0.0 m/s	velocity	5.08	8.02	8.67	8.50	8.67	8.67	8.67	8.50	7.73	8.02	8.27	7.71	8.39	8.67	8.07

Henson (2020) - Athlete First: 2018 year end hurdle report

Semi-Final 2 - 2017 IAAF World Championships (London, GBR)

date	11-Aug-17	time	2.55	3.61	4.63	5.66	6.70	7.73	8.75	9.76	10.80	11.85	13.16	8 / 6			
reaction time	0.129	interval		1.06	1.02	1.03	1.04	1.03	1.02	1.01	1.04	1.05	1.31		3.11	3.09	3.10
wind	0.5 m/s	velocity	5.10	8.02	8.33	8.25	8.17	8.25	8.33	8.42	8.17	8.10	8.02	7.60	8.20	8.25	8.23

Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles

FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)

date	24-Jul-16	time	2.66	3.69	4.69	5.67	6.65	7.63	8.64	9.63	10.66	11.68	12.85	4 / 1			
reaction time	0.160	interval		1.03	1.00	0.98	0.98	0.98	1.01	0.99	1.03	1.02	1.17	AJR	3.01	2.97	3.04
wind	2.0 m/s	velocity	4.89	8.25	8.50	8.67	8.67	8.67	8.42	8.59	8.25	8.33	8.97	7.78	8.47	8.59	8.39

(2016.07.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en**Hicks, Jada (USA) (2000)**

date	14-Feb-20	time	2.67	3.74	4.82	5.86	6.93							8.35	1 / 5		
reaction time		interval		1.07	1.08	1.04	1.07						1.42			3.19	
		velocity	4.87	7.94	7.87	8.17	7.94						9.15	7.19		7.99	

FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)

CAA Hurdle Development (2020)

Higa, Kazuki (JPN) (1998)

date	21-Oct-16	time	2.80	3.93	5.03	6.13	7.24	8.35	9.45	10.57	11.73	12.87	14.09	6 / 3			
reaction time		interval		1.13	1.10	1.10	1.11	1.11	1.10	1.12	1.16	1.14	1.22		3.33	3.32	3.42
wind	1.5 m/s	velocity	4.64	7.52	7.73	7.73	7.66	7.66	7.73	7.59	7.33	7.46	8.61	7.10	7.66	7.68	7.46

(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en**Heat 4 - 2016 Japanese National Junior Championships (Mizuho, JPN)****Hightower, Stephanie (USA) (1958)**

date	11-Jul-81	time	2.65	3.68	4.70	5.72	6.78	7.85	8.87	9.89	10.94	11.97	13.09	1 / 2			
reaction time		interval		1.03	1.02	1.02	1.06	1.07	1.02	1.02	1.05	1.03	1.12		3.07	3.15	3.10
wind	0.3 m/s	velocity	4.91	8.25	8.33	8.33	8.02	7.94	8.33	8.33	8.10	8.25	9.38	7.64	8.31	8.10	8.23

FINAL - 1981 USSR vs. USA (Leningrad, URS)

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

Hildebrand, Nadine (GER) (1987)

date	15-Jun-17	time	2.54	3.56	4.60	5.64	6.66	7.66	8.68	9.68	10.76	11.82	13.01	2 / 7			
reaction time	0.140	interval		1.02	1.04	1.04	1.02	1.00	1.02	1.00	1.08	1.06	1.19		3.10	3.04	3.14
wind	0.8 m/s	velocity	5.12	8.33	8.17	8.17	8.33	8.50	8.33	8.50	7.87	8.02	8.82	7.69	8.23	8.39	8.12

Henson (2020) - Athlete First: 2017 year end hurdle report

FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)

date	09-Sep-16	time	2.52	3.56	4.56	5.56	6.56	7.54	8.54	9.56	10.58	11.62	12.83	7 / 3			
reaction time	0.141	interval		1.04	1.00	1.00	1.00	0.98	1.00	1.02	1.02	1.04	1.21		3.04	2.98	3.08
wind	0.1 m/s	velocity	5.16	8.17	8.50	8.50	8.50	8.67	8.50	8.33	8.33	8.17	8.68	7.79	8.39	8.56	8.28

Henson (2021) - Athlete First: 2016 year end hurdle report

FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)

date	01-Sep-16	time	2.56	3.62	4.62	5.64	6.66	7.66	8.66	9.68	10.74	11.78	12.99	1 / 9			
reaction time	0.149	interval		1.06	1.00	1.02	1.02	1.00	1.00	1.02	1.06	1.04	1.21		3.08	3.02	3.12
wind	0.4 m/s	velocity	5.08	8.02	8.50	8.33	8.33	8.50	8.50	8.33	8.02	8.17	8.68	7.70	8.28	8.44	8.17

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

FINAL - 2016 Meeting Paris (Saint-Denis, FRA) (TV Analysis)

date	27-Aug-16	time	2.52	3.60	4.64	5.64	6.64	7.66	8.68	9.70	10.76	11.82	13.04	8 / 7			
reaction time	0.142	interval		1.08	1.04	1.00	1.00	1.02	1.02	1.02	1.06	1.06	1.22		3.12	3.04	3.14
wind	0.2 m/s	velocity	5.16	7.87	8.17	8.50	8.50	8.33	8.33	8.33	8.02	8.02	8.61	7.67	8.17	8.39	8.12

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

Hjørnevik, Martine (NOR) (2001)

date	04-Sep-22	time	2.76	3.84	4.92	5.96	7.00	8.08	9.12	10.24	11.32	12.44	13.70	2 / 8			
reaction time	0.166	interval		1.08	1.08	1.04	1.04	1.08	1.04	1.12	1.08	1.12	1.26		3.20	3.16	3.32
wind	-0.3 m/s	velocity	4.71	7.87	7.87	8.17	8.17	7.87	8.17	7.59	7.87	7.59	7.98	7.30	7.97	8.07	7.68

Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season

Hlavatá, Karolina (CZE) (1994)

date	02-Aug-14	time	2.74	3.80	4.87	5.97	7.05	8.12	9.23	10.32	11.44	12.61	13.82	8 / 5			
reaction time	0.186	interval		1.06	1.07	1.10	1.08	1.07	1.11	1.09	1.12	1.17	1.21		3.23	3.26	3.38
wind	0.4 m/s	velocity	4.74	8.02	7.94	7.73	7.87	7.94	7.66	7.80	7.59	7.26	8.68	7.24	7.89	7.82	7.54

Feher (2014) - Final report from the Czech Republic national championships

Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)

Feher (2014) - Final report from the Czech Republic national championships

date	02-Aug-14	time	2.82	3.95	5.09	6.22	7.35	8.47	9.59	10.71	11.88	13.07		14.29	5 / 3			
reaction time	0.148	interval		1.13	1.14	1.13	1.13	1.12	1.12	1.12	1.17	1.19	1.22			3.40	3.37	3.48
wind	-1.0 m/s	velocity	4.61	7.52	7.46	7.52	7.52	7.59	7.59	7.59	7.26	7.14	8.61	7.00		7.50	7.57	7.33
Hlavonová, Michaela (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)														<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	2.88	4.13	5.45	6.72	8.11	9.42	10.84	12.15	13.55	14.89		16.45	2 / 7			
reaction time	0.140	interval		1.25	1.32	1.27	1.39	1.31	1.42	1.31	1.40	1.34	1.56			3.84	4.12	4.05
wind	-4.5 m/s	velocity	4.51	6.80	6.44	6.69	6.12	6.49	5.99	6.49	6.07	6.34	6.73	6.08		6.64	6.19	6.30
Hofmann, Franziska (GER) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Sparkassen Gala (Regensburg, GER)														<i>Buckwitz (2014) - OSP Berlin / DLV frauen hürden report</i>				
date	07-Jun-14	time	2.64	3.68	4.70	5.69	6.68	7.70	8.72	9.74	10.80	11.90		13.02	4 / 1			
reaction time		interval		1.04	1.02	0.99	0.99	1.02	1.02	1.02	1.06	1.10	1.12	PB		3.05	3.03	3.18
wind	0.1 m/s	velocity	4.92	8.17	8.33	8.59	8.59	8.33	8.33	8.33	8.02	7.73	9.38	7.68		8.36	8.42	8.02
Heat 2 - 2014 Sparkassen Gala (Regensburg, GER)														<i>Buckwitz (2014) - OSP Berlin / DLV frauen hürden report</i>				
date	07-Jun-14	time	2.66	3.70	4.74	5.75	6.76	7.76	8.80	9.86	10.92	12.00		13.22	/ 1			
reaction time		interval		1.04	1.04	1.01	1.01	1.00	1.04	1.06	1.06	1.08	1.22			3.09	3.05	3.20
wind	-0.5 m/s	velocity	4.89	8.17	8.17	8.42	8.42	8.50	8.17	8.02	8.02	7.87	8.61	7.56		8.25	8.36	7.97
Hofmanová, Martina (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)														<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	2.85	4.06	5.25	6.45	7.68	8.93	10.18	11.50	12.78	14.01		15.33	2 / 4			
reaction time	0.167	interval		1.21	1.19	1.20	1.23	1.25	1.25	1.32	1.28	1.23	1.32			3.60	3.73	3.83
wind	-3.9 m/s	velocity	4.56	7.02	7.14	7.08	6.91	6.80	6.80	6.44	6.64	6.91	7.95	6.52		7.08	6.84	6.66
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE)														<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	2.79	3.96	5.11	6.31	7.50	8.72	9.95	11.22	12.47	13.76		15.14	6 / 3			
reaction time	0.155	interval		1.17	1.15	1.20	1.19	1.22	1.23	1.27	1.25	1.29	1.38			3.52	3.64	3.81
wind	-1.5 m/s	velocity	4.66	7.26	7.39	7.08	7.14	6.97	6.91	6.69	6.80	6.59	7.61	6.61		7.24	7.01	6.69
Holder, Nikkita (CAN) (1987)			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)														<i>KSSB (2011) - biomechanical analysis of women's 100m hurdle</i>				
date	03-Sep-11	time	2.65	3.68	4.74	5.72	6.74	7.72	8.73	9.75	10.77	11.81		12.93	2 / 6			
reaction time	0.172	interval		1.03	1.06	0.98	1.02	0.98	1.01	1.02	1.02	1.04	1.12			3.07	3.01	3.08
wind	1.1 m/s	velocity	4.91	8.25	8.02	8.67	8.33	8.67	8.42	8.33	8.33	8.17	9.38	7.73		8.31	8.47	8.28
Horiike, Kaho (JPN) (1996)			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/post-920/</i>				
date	26-May-17	time	2.72	3.80	4.89	5.93	7.01	8.07	9.13	10.18	11.27	12.37		13.59	6 / 3			
reaction time	0.173	interval		1.08	1.09	1.04	1.08	1.06	1.06	1.05	1.09	1.10	1.22			3.21	3.20	3.24
wind	1.9 m/s	velocity	4.78	7.87	7.80	8.17	7.87	8.02	8.02	8.10	7.80	7.73	8.61	7.36		7.94	7.97	7.87
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)														<i>(2017) - tfdata-store.com/2017/05/01/458/</i>				
date	29-Apr-17	time	2.68	3.78	4.86	5.93	7.03	8.11	9.17	10.25	11.33	12.44		13.58	1 / 6			
reaction time		interval		1.10	1.08	1.07	1.10	1.08	1.06	1.08	1.08	1.11	1.14			3.25	3.24	3.27
wind	2.0 m/s	velocity	4.85	7.73	7.87	7.94	7.73	7.87	8.02	7.87	7.87	7.66	9.21	7.36		7.85	7.87	7.80
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	2.72	3.81	4.89	5.96	7.05	8.15	9.26	10.35	11.46	12.59		13.79	8 / 5			
reaction time	0.165	interval		1.09	1.08	1.07	1.09	1.10	1.11	1.09	1.11	1.13	1.20			3.24	3.30	3.33
wind	-0.2 m/s	velocity	4.78	7.80	7.87	7.94	7.80	7.73	7.66	7.80	7.66	7.52	8.75	7.25		7.87	7.73	7.66
Howell, Jackie (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 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)														<i>CAA Hurdle Development (2020)</i>				
date	15-Feb-20	time	2.67	4.02										dnf	2 / --			
reaction time	0.141	interval		1.35														
		velocity	4.87	6.30														
Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)														<i>CAA Hurdle Development (2020)</i>				
date	15-Feb-20	time	2.67	3.73	4.77	5.78	6.79							8.17	4 / 3			
reaction time	0.154	interval		1.06	1.04	1.01	1.01						1.38			3.11		
		velocity	4.87	8.02	8.17	8.42	8.42						9.42	7.34		8.20		
Hsieh His-En (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 - 2019 Asian Athletics Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>				
date	24-Apr-19	time	2.64	3.68	4.74	5.78	6.81	7.86	8.89	9.96	11.02	12.13		13.37	8 / 6			
reaction time	0.146	interval		1.04	1.06	1.04	1.03	1.05	1.03	1.07	1.06	1.11	1.24	PB		3.14	3.11	3.24
wind	1.3 m/s	velocity	4.92	8.17	8.02	8.17	8.25	8.10	8.25	7.94	8.02	7.66	8.47	7.48		8.12	8.20	7.87
Heat 1 - 2019 Asian Athletics Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>				
date	23-Apr-19	time		3.74	4.77	5.81	6.86	7.89	8.95	9.99	11.07	12.16		13.39	3 / 3			

reaction time	0.157	interval		1.03	1.04	1.05	1.03	1.06	1.04	1.08	1.09	1.23	PB		3.14	3.21		
wind	1.3 m/s	velocity		8.25	8.17	8.10	8.25	8.02	8.17	7.87	7.80	8.54	7.47		8.12	7.94		
Hughes, Amber (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 FBK Games (Hengelo, NED) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	07-Jul-24	time	2.65	3.68	4.70	5.68	6.67	7.66	8.68	9.70	10.73	11.78		12.98	1 / 8			
reaction time	0.169	interval		1.03	1.02	0.98	0.99	0.99	1.02	1.02	1.03	1.05	1.20			3.03	3.00	3.10
wind	1.6 m/s	velocity	4.91	8.25	8.33	8.67	8.59	8.59	8.33	8.33	8.25	8.10	8.37	7.70		8.42	8.50	8.23
Heat 1 - 2024 FBK Games (Hengelo, NED)													<i>Omega Timing (2024) - continental tour gold race analysis</i>					
date	07-Jul-24	time	2.49	3.61	4.64	5.62	6.63	7.64	8.67	9.69	10.73	11.78		13.04	4 / 4			
reaction time	0.160	interval		1.12	1.03	0.98	1.01	1.01	1.03	1.02	1.04	1.05	1.26			3.13	3.05	3.11
wind	0.3 m/s	velocity	5.22	7.59	8.25	8.67	8.42	8.42	8.25	8.33	8.17	8.10	7.98	7.67		8.15	8.36	8.20
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	29-Jun-24	time	2.64	3.69	4.69	5.69	6.69	7.69	8.68	9.67	10.67	11.69		12.85	5 / 5			
reaction time		interval		1.05	1.00	1.00	1.00	1.00	0.99	0.99	1.00	1.02	1.16			3.05	2.99	3.01
wind	0.8 m/s	velocity	4.92	8.10	8.50	8.50	8.50	8.50	8.59	8.59	8.50	8.33	8.66	7.78		8.36	8.53	8.47
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	28-Jun-24	time	2.65	3.69	4.69	5.67	6.65	7.63	8.61	9.61	10.61	11.63		12.73	4 / 3			
reaction time		interval		1.04	1.00	0.98	0.98	0.98	0.98	1.00	1.00	1.02	1.10			3.02	2.94	3.02
wind	0.2 m/s	velocity	4.91	8.17	8.50	8.67	8.67	8.67	8.67	8.50	8.50	8.33	9.14	7.86		8.44	8.67	8.44
FINAL - 2024 Seashore Doha Meeting (Doha, QAT) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	10-May-24	time	2.58	3.60	4.58	5.55	6.52	7.47	8.44	9.41	10.40	11.41		12.54	5 / 4			
reaction time	0.150	interval		1.02	0.98	0.97	0.97	0.95	0.97	0.97	0.99	1.01	1.13	PB		2.97	2.89	2.97
wind	1.7 m/s	velocity	5.04	8.33	8.67	8.76	8.76	8.95	8.76	8.76	8.59	8.42	8.89	7.97		8.59	8.82	8.59
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)													<i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>					
date	16-Feb-24	time	2.65	3.69	4.67	5.64	6.61							7.99	1 / 5			
reaction time	0.164	interval		1.04	0.98	0.97	0.97						1.38			2.99		
		velocity	4.91	8.17	8.67	8.76	8.76						9.42	7.51		8.53		
Heat 2 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)													<i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>					
date	16-Feb-24	time	2.65	3.68	4.68	5.64	6.62							7.98	5 / 4			
reaction time	0.168	interval		1.03	1.00	0.96	0.98						1.36			2.99		
		velocity	4.91	8.25	8.50	8.85	8.67						9.56	7.52		8.53		
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	2.57	3.57	4.59	5.58	6.55	7.54	8.52	9.52	10.51	11.51		12.64	2 / 4			
reaction time	0.147	interval		1.00	1.02	0.99	0.97	0.99	0.98	1.00	0.99	1.00	1.13			3.01	2.94	2.99
wind	2.8 m/s	velocity	5.06	8.50	8.33	8.59	8.76	8.59	8.67	8.50	8.59	8.50	8.89	7.91		8.47	8.67	8.53
FINAL - 2019 Doha Diamond League (Doha, QAT) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	03-May-19	time	2.56	3.60	4.64	5.68	6.68	7.68	8.70	9.70	10.74	11.78		12.97	9 / 8			
reaction time	0.141	interval		1.04	1.04	1.04	1.00	1.00	1.02	1.00	1.04	1.04	1.19			3.12	3.02	3.08
wind	0.9 m/s	velocity	5.08	8.17	8.17	8.17	8.50	8.50	8.33	8.50	8.17	8.17	8.82	7.71		8.17	8.44	8.28
Humphrey, Brittley (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 South Eastern Conference Championships (Knoxville, TN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	13-May-18	time	2.46	3.53	4.56	5.56	6.56	7.60	8.60	9.63	10.66	11.73		13.02	1 / 5			
reaction time		interval		1.07	1.03	1.00	1.00	1.04	1.00	1.03	1.03	1.07	1.29	PB		3.10	3.04	3.13
wind	1.2 m/s	velocity	5.28	7.94	8.25	8.50	8.50	8.17	8.50	8.25	8.25	7.94	8.14	7.68		8.23	8.39	8.15
Humphrey, Jacqueline (USA) (1965)			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	29-Sep-88	time	2.67	3.79	4.89	5.96	7.03	8.10	9.16	10.23	11.29	12.39		13.59	1 / 7			
reaction time	0.181	interval		1.12	1.10	1.07	1.07	1.07	1.06	1.07	1.06	1.10	1.20			3.29	3.20	3.23
wind	0.4 m/s	velocity	4.87	7.59	7.73	7.94	7.94	7.94	8.02	7.94	8.02	7.73	8.75	7.36		7.75	7.97	7.89
Huntington, Maria (FIN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	04-Aug-21	time	2.71	3.74	4.79	5.79	6.80	7.82	8.85	9.86	10.91	12.01		13.20	6 / 2			
reaction time	0.190	interval		1.03	1.05	1.00	1.01	1.02	1.03	1.01	1.05	1.10	1.19			3.08	3.06	3.16
wind	0.3 m/s	velocity	4.80	8.25	8.10	8.50	8.42	8.33	8.25	8.42	8.10	7.73	8.45	7.58		8.28	8.33	8.07
Huo Xuanyi (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 Championships (Shenyang, CHN)													<i>CAA Hurdle Development (2019)</i>					
date	08-Jul-19	time	2.86	4.01	5.16	6.30	7.42	8.56	9.72	10.90	12.08	13.30		14.63	4 / 5			
reaction time	0.188	interval		1.15	1.15	1.14	1.12	1.14	1.16	1.18	1.18	1.22	1.33			3.44	3.42	3.58
wind	0.5 m/s	velocity	4.55	7.39	7.39	7.46	7.59	7.46	7.33	7.20	7.20	6.97	7.89	6.84		7.41	7.46	7.12

FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)

CAA Hurdle Development (2019)

date	30-May-19	time	2.88	4.02	5.15	6.32	7.46	8.61	9.78	10.97	12.16	13.39		14.73	2 / 8			
reaction time	0.183	interval		1.14	1.13	1.17	1.14	1.15	1.17	1.19	1.19	1.23	1.34			3.44	3.46	3.61
wind	-0.1 m/s	velocity	4.51	7.46	7.52	7.26	7.46	7.39	7.26	7.14	7.14	6.91	7.84	6.79		7.41	7.37	7.06

B-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)

CAA Hurdle Development (2019)

date	4-Mar-19	time	2.83	3.95	5.19	6.35	7.49							8.99	4 / 4			
reaction time		interval		1.12	1.24	1.16	1.14						1.50			3.52		
		velocity	4.59	7.59	6.85	7.33	7.46						8.67	6.67		7.24		

Hurske, Reetta (FIN) (1995)**Repechage 2 - 2024 Olympic Games (Paris, FRA)**

Paris 2024 Olympic Games - Results Book (2024)

date	08-Aug-24	time	2.45	3.50	4.50	5.50	6.48	7.48	8.48	9.49	10.52	11.56		12.83	6 / 3			
reaction time	0.145	interval		1.05	1.00	1.00	0.98	1.00	1.00	1.01	1.03	1.04	1.27			3.05	2.98	3.08
wind	0.4 m/s	velocity	5.31	8.10	8.50	8.50	8.67	8.50	8.50	8.42	8.25	8.17	7.91	7.79		8.36	8.56	8.28

Heat 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time	2.46	3.51	4.51	5.51	6.50	7.50	8.51	9.54	10.59	11.65		12.96	7 / 6			
reaction time	0.139	interval		1.05	1.00	1.00	0.99	1.00	1.01	1.03	1.05	1.06	1.31			3.05	3.00	3.14
wind	0.8 m/s	velocity	5.28	8.10	8.50	8.50	8.59	8.50	8.42	8.25	8.10	8.02	7.67	7.72		8.36	8.50	8.12

FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)

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

date	08-Jun-24	time	2.54	3.57	4.57	5.57	6.57	7.55	8.57	9.59	10.63	11.68		12.84	9 / 6			
reaction time	0.145	interval		1.03	1.00	1.00	1.00	0.98	1.02	1.02	1.04	1.05	1.16			3.03	3.00	3.11
wind	0.8 m/s	velocity	5.12	8.25	8.50	8.50	8.50	8.67	8.33	8.33	8.17	8.10	8.66	7.79		8.42	8.50	8.20

FINAL - 2024 Villa de Madrid Indoor Meeting (Madrid, ESP) (TV Analysis)

Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

date	23-Feb-24	time	2.52	3.55	4.56	5.54	6.56							7.99	2 / 5			
reaction time	0.130	interval		1.03	1.01	0.98	1.02						1.43			3.02		
		velocity	5.16	8.25	8.42	8.67	8.33						9.09	7.51		8.44		

Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

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

date	23-Aug-23	time	2.53	3.57	4.59	5.61	6.61	7.64	8.67	9.70	10.74	11.82		13.05	9 / 7			
reaction time	0.137	interval		1.04	1.02	1.02	1.00	1.03	1.03	1.03	1.04	1.08	1.23			3.08	3.06	3.15
wind	-0.7 m/s	velocity	5.14	8.17	8.33	8.33	8.50	8.25	8.25	8.25	8.17	7.87	8.17	7.66		8.28	8.33	8.10

Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

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

date	22-Aug-23	time	2.53	3.54	4.56	5.57	6.56	7.56	8.57	9.60	10.64	11.71		12.92	1 / 5			
reaction time	0.140	interval		1.01	1.02	1.01	0.99	1.00	1.01	1.03	1.04	1.07	1.21			3.04	3.00	3.14
wind	0.1 m/s	velocity	5.14	8.42	8.33	8.42	8.59	8.50	8.42	8.25	8.17	7.94	8.31	7.74		8.39	8.50	8.12

FINAL - 2023 Doha Diamond League (Doha, QAT) (TV Analysis)

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

date	05-May-23	time	2.54	3.56	4.56	5.54	6.52	7.58	8.60	9.64	10.68	11.74		12.92	6 / 6			
reaction time	0.132	interval		1.02	1.00	0.98	0.98	1.06	1.02	1.04	1.04	1.06	1.18			3.00	3.06	3.14
wind	1.1 m/s	velocity	5.12	8.33	8.50	8.67	8.67	8.02	8.33	8.17	8.17	8.02	8.52	7.74		8.50	8.33	8.12

Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

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

date	24-Jul-22	time	2.53	3.60	4.60	5.60	6.60	7.60	8.62	9.63	10.70	11.82		13.15	2 / 8			
reaction time	0.113	interval		1.07	1.00	1.00	1.00	1.00	1.02	1.01	1.07	1.12	1.33			3.07	3.02	3.20
wind	0.3 m/s	velocity	5.14	7.94	8.50	8.50	8.50	8.50	8.33	8.42	7.94	7.59	7.56	7.60		8.31	8.44	7.97

Heat 6 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

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

date	23-Jul-22	time	2.50	3.54	4.56	5.58	6.60	7.63	8.66	9.70	10.73	11.80		13.09	7 / 4			
reaction time	0.129	interval		1.04	1.02	1.02	1.02	1.03	1.03	1.04	1.03	1.07	1.29			3.08	3.08	3.14
wind	-0.4 m/s	velocity	5.20	8.17	8.33	8.33	8.33	8.25	8.25	8.17	8.25	7.94	7.79	7.64		8.28	8.28	8.12

FINAL - 2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)

Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season

date	14-Jun-22	time	2.54	3.58	4.60	5.60	6.60	7.60	8.62	9.64	10.68	11.74		13.01	8 / 5			
reaction time	0.169	interval		1.04	1.02	1.00	1.00	1.00	1.02	1.02	1.04	1.06	1.27			3.06	3.02	3.12
wind	0.2 m/s	velocity	5.12	8.17	8.33	8.50	8.50	8.50	8.33	8.33	8.17	8.02	7.91	7.69		8.33	8.44	8.17

Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

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

date	31-Jul-21	time	2.57	3.60	4.63	5.66	6.70	7.74	8.75	9.78	10.82	11.90		13.10	4 / 6			
reaction time	0.125	interval		1.03	1.03	1.03	1.04	1.04	1.01	1.03	1.04	1.08	1.20			3.09	3.09	3.15
wind	1.0 m/s	velocity	5.06	8.25	8.25	8.25	8.17	8.17	8.42	8.25	8.17	7.87	8.38	7.63		8.25	8.25	8.10

FINAL - 2020 Finnish National Championships (Turku, FIN) (TV Analysis)

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

date	14-Aug-20	time	2.56	3.60	4.63	5.66	6.66	7.66	8.66	9.70	10.73	11.80		13.02	3 / 3			
reaction time	0.175	interval		1.04	1.03	1.03	1.00	1.00	1.00	1.04	1.03	1.07	1.22			3.10	3.00	3.14
wind	1.0 m/s	velocity	5.08	8.17	8.25	8.25	8.50	8.50	8.50	8.17	8.25	7.94	8.24	7.68		8.23	8.50	8.12

FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)

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

date	11-Aug-20	time	2.54	3.58	4.62	5.66	6.66	7.66	8.70	9.72	10.78	11.86		13.11	2 / 7			
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reaction time	0.168	interval	1.04	1.04	1.04	1.00	1.00	1.04	1.02	1.06	1.08	1.25		3.12	3.04	3.16	
wind	1.2 m/s	velocity	5.12	8.17	8.17	8.17	8.50	8.50	8.17	8.33	8.02	7.87	8.04	7.63	8.17	8.39	8.07

FINAL - 2020 Motonet GP (Jyräskylä, FIN) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	08-Jul-20	time	2.56	3.60	4.63	5.63	6.63	7.63	8.63	9.66	10.70	11.73		12.91	6 / 2			
reaction time	0.128	interval	1.04	1.03	1.00	1.00	1.00	1.00	1.03	1.04	1.03	1.18				3.07	3.00	3.10
wind	0.7 m/s	velocity	5.08	8.17	8.25	8.50	8.50	8.50	8.50	8.25	8.17	8.25	8.52	7.75		8.31	8.50	8.23

Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)*CAA Hurdle Development (2019)*

date	06-Oct-19	time	2.57	3.62	4.64	5.64	6.65	7.65	8.68	9.71	10.78	11.85		13.24	8 / 5			
reaction time	0.128	interval	1.05	1.02	1.00	1.01	1.00	1.00	1.03	1.03	1.07	1.07	1.39			3.07	3.04	3.17
wind	0.6 m/s	velocity	5.06	8.10	8.33	8.50	8.42	8.50	8.25	8.25	7.94	7.94	7.23	7.55		8.31	8.39	8.04

Huven, Destiny (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	28-Jun-24	time	2.58	3.63	4.63	5.62	6.60	7.58	8.59	9.61	10.61	11.63		12.77	7 / 4			
reaction time	0.128	interval	1.05	1.00	0.99	0.98	0.98	1.01	1.02	1.00	1.02	1.14	PB			3.04	2.97	3.04
wind	0.2 m/s	velocity	5.04	8.10	8.50	8.59	8.67	8.67	8.42	8.33	8.50	8.33	8.82	7.83		8.39	8.59	8.39

FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	08-Jun-24	time	2.57	3.63	4.67	5.67	6.64	7.66	8.66	9.67	10.68	11.70		12.85	2 / 5			
reaction time	0.128	interval	1.06	1.04	1.00	0.97	1.02	1.00	1.01	1.01	1.02	1.15				3.10	2.99	3.04
wind	-0.5 m/s	velocity	5.06	8.02	8.17	8.50	8.76	8.33	8.50	8.42	8.42	8.33	8.74	7.78		8.23	8.53	8.39

FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	11-Jun-22	time	2.52	3.57	4.60	5.60	6.61	7.60	8.59	9.61	10.63	11.66		12.92	2 / 6			
reaction time	0.128	interval	1.05	1.03	1.00	1.01	0.99	0.99	1.02	1.02	1.03	1.26				3.08	2.99	3.07
wind	-0.2 m/s	velocity	5.16	8.10	8.25	8.50	8.42	8.59	8.59	8.33	8.33	8.25	7.98	7.74		8.28	8.53	8.31

Hysková, Dominika (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) (76cm)***Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	3.07	4.27	5.50	6.73	7.95	9.17	10.42	11.65	12.89	14.20		15.64	7 / 5			
reaction time	0.243	interval	1.20	1.23	1.23	1.22	1.22	1.25	1.23	1.24	1.31	1.44				3.66	3.69	3.78
wind	-1.8 m/s	velocity	4.23	7.08	6.91	6.91	6.97	6.97	6.80	6.91	6.85	6.49	7.29	6.39		6.97	6.91	6.75

Ibaraki, Rin (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)***Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data*

date	02-Aug-18	time	2.64	3.74	4.84	5.93	7.00	8.10	9.19	10.28	11.40	12.51		13.69	5 / 4			
reaction time	0.128	interval	1.10	1.10	1.09	1.07	1.10	1.09	1.09	1.12	1.11	1.18	PB			3.29	3.26	3.32
wind	-0.3 m/s	velocity	4.92	7.73	7.73	7.80	7.94	7.73	7.80	7.80	7.59	7.66	8.90	7.30		7.75	7.82	7.68

FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)*Kota (2017) - 70th high school championships: JAF scientific committee- biomechanics data*

date	02-Aug-17	time	2.70	3.80	4.93	6.05	7.14	8.28	9.40	10.57	11.70	12.85		14.03	3 / 3			
reaction time	0.144	interval	1.10	1.13	1.12	1.09	1.14	1.12	1.17	1.13	1.15	1.18				3.35	3.35	3.45
wind	-2.9 m/s	velocity	4.81	7.73	7.52	7.59	7.80	7.46	7.59	7.26	7.52	7.39	8.90	7.13		7.61	7.61	7.39

Idlette, Lavonne (DOM) (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 Seiko Golden Grand Prix (Kawasaki, JPN)***Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	10-May-15	time	2.65	3.72	4.75	5.77	6.76	7.76	8.78	9.81	10.84	11.90		13.05	/ 5			
reaction time	0.194	interval	1.07	1.03	1.02	0.99	1.00	1.02	1.03	1.03	1.06	1.15				3.12	3.01	3.12
wind	0.9 m/s	velocity	4.91	7.94	8.25	8.33	8.59	8.50	8.33	8.25	8.25	8.02	9.13	7.66		8.17	8.47	8.17

Imura, Kumiko (JPN) (1981)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2008 Miko 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	6.71	7.75	8.80	9.86	10.94	12.04		13.36	/ 1			
reaction time	0.128	interval	1.09	1.05	1.05	1.04	1.04	1.05	1.06	1.08	1.10	1.32				3.19	3.13	3.24
wind	-0.1 m/s	velocity	5.24	7.80	8.10	8.10	8.17	8.17	8.10	8.02	7.87	7.73	7.95	7.49		7.99	8.15	7.87

FINAL - 2007 Seiko Super Grand Prix (Yokohama, JPN)*Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles*

date	30-Sep-07	time	2.57	3.65	4.71	5.75	6.77	7.81	8.85	9.93	11.00	12.11		13.48	/ 2			
reaction time	0.128	interval	1.08	1.06	1.04	1.02	1.04	1.04	1.08	1.07	1.11	1.37				3.18	3.10	3.26
wind	-0.8 m/s	velocity	5.06	7.87	8.02	8.17	8.33	8.17	8.17	7.87	7.94	7.66	7.66	7.42		8.02	8.23	7.82

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	2.50	3.57	4.62	5.68	6.73	7.79	8.87	9.95	11.04	12.15		13.50	/ 6			
reaction time	0.128	interval	1.07	1.05	1.06	1.05	1.06	1.08	1.08	1.09	1.11	1.35				3.18	3.19	3.28
wind	0.0 m/s	velocity	5.20	7.94	8.10	8.02	8.10	8.02	7.87	7.87	7.80	7.66	7.78	7.41		8.02	7.99	7.77

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	2.53	3.59	4.62	5.62	6.62	7.62	8.62	9.64	10.68	11.74		13.02	/ 2			
reaction time	0.128	interval	1.06	1.03	1.00	1.00	1.00	1.00	1.02	1.04	1.06	1.28	PB			3.09	3.00	3.12
wind	1.4 m/s	velocity	5.14	8.02	8.25	8.50	8.50	8.50	8.50	8.33	8.17	8.02	8.20	7.68		8.25	8.50	8.17

FINAL - 2006 Mikio Oda Memorial (Hiroshima, JPN)*Akirabun (2007) - speed analysis of the 100m and hurdles with a laser system*

date	29-Apr-06	time	2.47	3.53	4.56	5.58	6.58	7.59	8.61	9.63	10.68	11.74		13.04	/ 2			
reaction time		interval		1.06	1.03	1.02	1.00	1.01	1.02	1.02	1.05	1.06	1.30	PB		3.11	3.03	3.13
wind	1.9 m/s	velocity	5.26	8.02	8.25	8.33	8.50	8.42	8.33	8.33	8.10	8.02	8.08	7.67		8.20	8.42	8.15

Ingelmo, Sandra (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	01-Aug-98	time	2.64	3.72	4.82	5.89	6.98	8.08	9.25	10.38	11.54	12.70		14.04	3 / 3			
reaction time		interval		1.08	1.10	1.07	1.09	1.10	1.17	1.13	1.16	1.16	1.34			3.25	3.36	3.45
wind	0.0 m/s	velocity	4.92	7.87	7.73	7.94	7.80	7.73	7.26	7.52	7.33	7.33	7.84	7.12		7.85	7.59	7.39

Inoussa, Farydah (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 - 2013 Windsprint (Sundsvall, SWE)***(2013) - www.ssg.se/windsprint/Splittider/*

date	28-Jul-13	time	2.83	4.00	5.13	6.28	7.42	8.56	9.70	10.89	12.12	13.35		14.71	7 / 6			
reaction time		interval		1.17	1.13	1.15	1.14	1.14	1.14	1.19	1.23	1.23	1.36			3.45	3.42	3.65
wind	1.2 m/s	velocity	4.59	7.26	7.52	7.39	7.46	7.46	7.46	7.14	6.91	6.91	7.72	6.80		7.39	7.46	6.99

Ishibashi, Nozomi (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	2.90	4.13	5.38	6.60	7.85	9.08	10.35	11.65	12.98	14.32		15.70	4 / 3			
reaction time		interval		1.23	1.25	1.22	1.25	1.23	1.27	1.30	1.33	1.34	1.38			3.70	3.75	3.97
wind	1.7 m/s	velocity	4.48	6.91	6.80	6.97	6.80	6.91	6.69	6.54	6.39	6.34	7.28	6.37		6.89	6.80	6.42

Ishino, Mami (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 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	2.48	3.55	4.57	5.58	6.60	7.62	8.65	9.69	10.75	11.83		13.15	5 / 2			
reaction time		interval		1.07	1.02	1.01	1.02	1.02	1.03	1.04	1.06	1.08	1.32	PB		3.10	3.07	3.18
wind	1.9 m/s	velocity	5.24	7.94	8.33	8.42	8.33	8.33	8.25	8.17	8.02	7.87	7.95	7.60		8.23	8.31	8.02

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	2.51	3.59	4.62	5.65	6.68	7.71	8.75	9.80	10.87	11.96		13.28	/ 4			
reaction time		interval		1.08	1.03	1.03	1.03	1.03	1.04	1.05	1.07	1.09	1.32			3.14	3.10	3.21
wind	0.1 m/s	velocity	5.18	7.87	8.25	8.25	8.25	8.25	8.17	8.10	7.94	7.80	7.95	7.53		8.12	8.23	7.94

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	2.60	3.67	4.71	5.75	6.78	7.81	8.86	9.91	10.97	12.06		13.39	/ 2			
reaction time		interval		1.07	1.04	1.04	1.03	1.03	1.05	1.05	1.06	1.09	1.33			3.15	3.11	3.20
wind	1.8 m/s	velocity	5.00	7.94	8.17	8.17	8.25	8.25	8.10	8.10	8.02	7.80	7.89	7.47		8.10	8.20	7.97

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	2.53	3.63	4.70	5.77	6.82	7.87	8.94	10.01	11.11	12.22		13.59	/ 3			
reaction time		interval		1.10	1.07	1.07	1.05	1.05	1.07	1.07	1.10	1.11	1.37			3.24	3.17	3.28
wind	-1.5 m/s	velocity	5.14	7.73	7.94	7.94	8.10	8.10	7.94	7.94	7.73	7.66	7.66	7.36		7.87	8.04	7.77

Heat 4 - 2007 IAAF World Championships (Osaka, JPN) Kawakami (2010) - improving women's 100m hurdle of japanese hurdler- analysis of race patterns based on touchdown times

date	27-Aug-07	time	2.71	3.74	4.76	5.79	6.82	7.84	8.89	9.94	11.01	12.09		13.29	3 / 8			
reaction time	0.172	interval		1.03	1.02	1.03	1.03	1.02	1.05	1.05	1.07	1.08	1.20			3.08	3.10	3.20
wind	0.4 m/s	velocity	4.80	8.25	8.33	8.25	8.25	8.33	8.10	8.10	7.94	7.87	8.75	7.52		8.28	8.23	7.97

FINAL - 2006 Japanese National Championships (Kobe, JPN)*Akirabun (2007) - speed analysis of the 100m and hurdles with a laser system*

date	01-Jul-06	time	2.52	3.59	4.63	5.67	6.70	7.72	8.77	9.84	10.91	11.99		13.30	/ 1			
reaction time		interval		1.07	1.04	1.04	1.03	1.02	1.05	1.07	1.07	1.08	1.31			3.15	3.10	3.22
wind	0.3 m/s	velocity	5.16	7.94	8.17	8.17	8.25	8.33	8.10	7.94	7.94	7.87	8.02	7.52		8.10	8.23	7.92

Ito, Airi (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 - 2015 Japanese National Championships (Niigata, JPN)***Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	27-Jun-15	time	2.68	3.78	4.86	5.92	6.99	8.05	9.12	10.21	11.31	12.45		13.67	2 / 7			
reaction time	0.153	interval		1.10	1.08	1.06	1.07	1.06	1.07	1.09	1.10	1.14	1.22			3.24	3.20	3.33
wind	-0.2 m/s	velocity	4.85	7.73	7.87	8.02	7.94	8.02	7.94	7.80	7.73	7.46	8.61	7.32		7.87	7.97	7.66

FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	10-May-15	time	2.74	3.86	4.94	6.00	7.04	8.09	9.15	10.23	11.31	12.40		13.59	1 / 8			
reaction time	0.177	interval		1.12	1.08	1.06	1.04	1.05	1.06	1.08	1.08	1.09	1.19			3.26	3.15	3.25
wind	0.9 m/s	velocity	4.74	7.59	7.87	8.02	8.17	8.10	8.02	7.87	7.87	7.80	8.82	7.36		7.82	8.10	7.85

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	2.70	3.79	4.86	5.92	6.96	8.01	9.08	10.18	11.25	12.33		13.58	/ 5			
reaction time		interval		1.09	1.07	1.06	1.04	1.05	1.07	1.10	1.07	1.08	1.25			3.22	3.16	3.25
wind	0.2 m/s	velocity	4.81	7.80	7.94	8.02	8.17	8.10	7.94	7.73	7.94	7.87	8.40	7.36		7.92	8.07	7.85

Ito, Ayaka (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 - 2020 Seiko Golden Grand Prix (Tokyo, JPN)***Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	23-Aug-20	time	2.66	3.80	4.92	6.02	7.12	8.22	9.33	10.42	11.56	12.70		13.90	1 / 8			
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reaction time	0.146	interval	1.14	1.12	1.10	1.10	1.10	1.11	1.09	1.14	1.14	1.20	PB	3.36	3.31	3.37	
wind	0.3 m/s	velocity	4.89	7.46	7.59	7.73	7.73	7.73	7.66	7.80	7.46	7.46	8.37	7.19	7.59	7.70	7.57

U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (76cm) *Kijima (2019) - research on athlete performance and technique- 2019 data book*

date	18-Oct-19	time	2.59	3.69	4.76	5.83	6.88	7.92	9.00	10.10	11.20	12.30	13.56	5 / 1			
reaction time	0.153	interval	1.10	1.07	1.07	1.05	1.04	1.08	1.10	1.10	1.10	1.26			3.24	3.17	3.30
wind	-0.8m/s	velocity	5.02	7.73	7.94	7.94	8.10	8.17	7.87	7.73	7.73	8.33	7.37		7.87	8.04	7.73

U18 FINAL - 2018 National Sports Festival (Fukui, JPN) (76cm) *Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	07-Oct-18	time	2.62	3.71	4.80	5.87	6.95	8.03	9.12	10.23	11.34	12.52	13.85	4 / 7			
reaction time	0.177	interval	1.09	1.09	1.07	1.08	1.08	1.09	1.11	1.11	1.18	1.33			3.25	3.25	3.40
wind	2.0 m/s	velocity	4.96	7.80	7.80	7.94	7.87	7.87	7.80	7.66	7.66	7.20	7.89	7.22	7.85	7.85	7.50

Ito, Ayano (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	2.90	4.22	5.57	6.92	8.30	9.69	11.12	12.59	14.01	15.39	16.89	8 / 4			
reaction time	0.177	interval	1.32	1.35	1.35	1.38	1.39	1.43	1.47	1.42	1.38	1.50			4.02	4.20	4.27
wind	1.9 m/s	velocity	4.48	6.44	6.30	6.30	6.16	6.12	5.94	5.78	5.99	6.16	6.70	5.92	6.34	6.07	5.97

Ivančević, Andrea (CRO) (1984)

	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 (2021) - Athlete First: 2016 year end hurdle report</i>																	
date	09-Sep-16	time	2.56	3.60	4.64	5.64	6.66	7.66	8.68	9.72	10.76	11.80	13.04	2 / 8			
reaction time	0.141	interval	1.04	1.04	1.00	1.02	1.00	1.02	1.04	1.04	1.04	1.24			3.08	3.04	3.12
wind	0.1 m/s	velocity	5.08	8.17	8.17	8.50	8.33	8.50	8.33	8.17	8.17	8.17	8.47	7.67	8.28	8.39	8.17

Iwasa, Mayuko (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 Japanese U20 National Championships (Osaka, JPN) <i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																	
date	26-Jun-21	time	2.68	3.77	4.83	5.89	6.94	8.00	9.05	10.15	11.26	12.37	13.59	5 / 1			
reaction time	0.140	interval	1.09	1.06	1.06	1.05	1.06	1.05	1.10	1.11	1.11	1.22			3.21	3.16	3.32
wind	0.2 m/s	velocity	4.85	7.80	8.02	8.02	8.10	8.02	8.10	7.73	7.66	7.66	8.24	7.36	7.94	8.07	7.68

Iwasa, Mayuko (JPN) (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 - 2018 National Sports Festival (Fukui, JPN) (76cm) <i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>																	
date	07-Oct-18	time	2.72	3.83	4.90	5.98	7.04	8.11	9.20	10.26	11.35	12.46	13.71	6 / 1			
reaction time	0.149	interval	1.11	1.07	1.08	1.06	1.07	1.09	1.06	1.09	1.11	1.25			3.26	3.22	3.26
wind	2.0 m/s	velocity	4.78	7.66	7.94	7.87	8.02	7.94	7.80	8.02	7.80	7.66	8.40	7.29	7.82	7.92	7.82

Jahn, Bettine (GDR) (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) <i>Knobe (1984) - the hurdles</i>																	
date	13-Aug-83	time	2.52	3.51	4.55	5.43	6.40	7.30	8.24	9.20	10.25	11.19	12.35	1 / 1			
reaction time	0.154	interval	0.99	1.04	0.88	0.97	0.90	0.94	0.96	1.05	0.94	1.16			2.91	2.81	2.95
wind	2.4 m/s	velocity	5.16	8.59	8.17	9.66	8.76	9.44	9.04	8.85	8.10	9.04	9.05	8.10	8.76	9.07	8.64

FINAL - 1983 Olympischer Tag (Berlin, GDR) *Graubner (2008) - http://www.fgs.uni-halle.de*

date	08-Jun-83	time	2.55	3.55	4.53	5.48	6.44	7.40	8.35	9.32	10.31	11.32	12.42	1 / 1			
reaction time		interval	1.00	0.98	0.95	0.96	0.96	0.95	0.97	0.99	1.01	1.10	NR		2.93	2.87	2.97
wind	1.8 m/s	velocity	5.10	8.50	8.67	8.95	8.85	8.85	8.95	8.76	8.59	8.42	9.55	8.05	8.70	8.89	8.59

Gärtz, Bettine (GDR) (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) <i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>																	
date	26-Jun-81	time	2.48	3.52	4.52	5.65	6.66	7.72	8.76	9.78	10.85	11.92	13.17	1 / 4			
reaction time		interval	1.04	1.00	1.13	1.01	1.06	1.04	1.02	1.07	1.07	1.25			3.17	3.11	3.16
wind	0.0 m/s	velocity	5.24	8.17	8.50	7.52	8.42	8.02	8.17	8.33	7.94	7.94	8.40	7.59	8.04	8.20	8.07

James, Tiki (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 - 2005 USATF National Junior Championships (Carson, CA) <i>USATF Women's Sprint Development (2005)</i>																	
date	23-Jun-05	time	2.70	3.80	4.91	6.00	7.10	8.22	9.33	10.46	11.60	12.70	14.03	8 / 3			
reaction time		interval	1.10	1.11	1.09	1.10	1.12	1.11	1.13	1.14	1.10	1.33			3.30	3.33	3.37
wind	-0.7 m/s	velocity	4.81	7.73	7.66	7.80	7.73	7.59	7.66	7.52	7.46	7.73	7.89	7.13	7.73	7.66	7.57

FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) *USATF Women's Sprint Development (2003)*

date	22-Jun-03	time	2.58	3.70	4.74	5.81	6.89	7.96	9.04	10.13	11.20	12.31	13.65	9 / 4			
reaction time		interval	1.12	1.04	1.07	1.08	1.07	1.08	1.09	1.07	1.11	1.34			3.23	3.23	3.27
wind	2.3 m/s	velocity	5.04	7.59	8.17	7.94	7.87	7.94	7.87	7.80	7.94	7.66	7.84	7.33	7.89	7.89	7.80

Janičková, Veronika (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) (76cm) <i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																	
date	28-Jun-14	time	2.79	3.94	5.07	6.18	7.31	8.42	9.54	10.68	11.84	13.01	14.28	3 / 5			
reaction time	0.186	interval	1.15	1.13	1.11	1.13	1.11	1.12	1.14	1.16	1.17	1.27			3.39	3.36	3.47
wind	-3.6 m/s	velocity	4.66	7.39	7.52	7.66	7.52	7.66	7.59	7.46	7.33	7.26	8.27	7.00	7.52	7.59	7.35

Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm) *Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.80	3.91	5.02	6.12	7.24	8.36	9.48	10.64	11.77	12.93	14.19	7 / 2			
reaction time	0.212	interval	1.11	1.11	1.10	1.12	1.12	1.12	1.16	1.13	1.16	1.26			3.32	3.36	3.45

wind -1.3 m/s velocity 4.64 7.66 7.66 7.73 7.59 7.59 7.59 7.33 7.52 7.33 8.33 7.05 7.68 7.59 7.39

Jarešová, Lucie (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) (76cm)												<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.95	4.17	5.41	6.67	7.95	9.20	10.50	11.82	13.13	14.50	16.04	2 / 7			
reaction time	0.198	interval		1.22	1.24	1.26	1.28	1.25	1.30	1.32	1.31	1.37	1.54		3.72	3.83	4.00
wind	-1.8 m/s	velocity	4.41	6.97	6.85	6.75	6.64	6.80	6.54	6.44	6.49	6.20	6.82	6.23	6.85	6.66	6.38

Jean, Mulern (HA) (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	01-Aug-21	time	2.50	3.57	4.58	5.58	6.57	7.57	8.58	9.61	10.69	11.81	13.09	2 / 7			
reaction time	0.156	interval		1.07	1.01	1.00	0.99	1.00	1.01	1.03	1.08	1.12	1.28		3.08	3.00	3.23
wind	0.0 m/s	velocity	5.20	7.94	8.42	8.50	8.59	8.50	8.42	8.25	7.87	7.59	7.85	7.64	8.28	8.50	7.89

Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	31-Jul-21	time	2.51	3.54	4.59	5.63	6.63	7.62	8.62	9.66	10.71	11.78	12.99	7 / 5			
reaction time	0.155	interval		1.03	1.05	1.04	1.00	0.99	1.00	1.04	1.05	1.07	1.21		3.12	2.99	3.16
wind	0.4 m/s	velocity	5.18	8.25	8.10	8.17	8.50	8.59	8.50	8.17	8.10	7.94	8.31	7.70	8.17	8.53	8.07

Jedličková, Petra (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) (76cm)												<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.96	4.16	5.38	6.62	7.82	9.06	10.30	11.55	12.80	14.09	15.52	8 / 8			
reaction time	0.209	interval		1.20	1.22	1.24	1.20	1.24	1.24	1.25	1.25	1.29	1.43		3.66	3.68	3.79
wind	-3.6 m/s	velocity	4.39	7.08	6.97	6.85	7.08	6.85	6.85	6.80	6.80	6.59	7.34	6.44	6.97	6.93	6.73

Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)												<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	3.00	4.18	5.37	6.56	7.75	8.94	10.14	11.35	12.56	13.81	15.18	6 / 3			
reaction time	0.225	interval		1.18	1.19	1.19	1.19	1.19	1.20	1.21	1.21	1.25	1.37		3.56	3.58	3.67
wind	-1.3 m/s	velocity	4.33	7.20	7.14	7.14	7.14	7.14	7.08	7.02	7.02	6.80	7.66	6.59	7.16	7.12	6.95

Jenneke, Michelle (AUS) (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)												<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	08-Aug-24	time	2.48	3.56	4.63	5.70	6.76	7.85	8.97	10.09	11.22	12.40	13.86	6 / 7			
reaction time	0.149	interval		1.08	1.07	1.07	1.06	1.09	1.12	1.12	1.13	1.18	1.46		3.22	3.27	3.43
wind	0.1 m/s	velocity	5.24	7.87	7.94	7.94	8.02	7.80	7.59	7.59	7.52	7.20	6.88	7.22	7.92	7.80	7.43

Heat 3 - 2024 Olympic Games (Paris, FRA)												<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	07-Aug-24	time	2.42	3.46	4.48	9.12	11.15	12.71	14.24	15.77	17.32	18.91	20.85	4 / 8			
reaction time	0.140	interval		1.04	1.02	4.64	2.03	1.56	1.53	1.53	1.55	1.59	1.94		6.70	5.12	4.67
wind	0.8 m/s	velocity	5.37	8.17	8.33	1.83	4.19	5.45	5.56	5.56	5.48	5.35	5.18	4.80	3.81	4.98	5.46

FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis)												<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	07-Jul-24	time	2.48	3.48	4.47	5.45	6.43	7.42	8.42	9.42	10.43	11.46	12.65	9 / 6			
reaction time	0.129	interval		1.00	0.99	0.98	0.98	0.99	1.00	1.00	1.01	1.03	1.19	PB	2.97	2.97	3.04
wind	1.6 m/s	velocity	5.24	8.50	8.59	8.67	8.67	8.59	8.50	8.50	8.42	8.25	8.45	7.91	8.59	8.59	8.39

Heat 2 - 2024 FBK Games (Hengelo, NED)												<i>Omega Timing (2024) - continental tour gold race analysis</i>					
date	07-Jul-24	time	2.38	3.44	4.42	5.38	6.36	7.39	8.42	9.44	10.47	11.52	12.80	7 / 4			
reaction time	0.139	interval		1.06	0.98	0.96	0.98	1.03	1.03	1.02	1.03	1.05	1.28		3.00	3.04	3.10
wind	0.3 m/s	velocity	5.46	8.02	8.67	8.85	8.67	8.25	8.25	8.33	8.25	8.10	7.85	7.81	8.50	8.39	8.23

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)												<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	23-Aug-23	time	2.55	3.57	4.57	5.55	6.54	7.52	8.52	9.52	10.54	11.58	12.80	3 / 5			
reaction time	0.146	interval		1.02	1.00	0.98	0.99	0.98	1.00	1.00	1.02	1.04	1.22		3.00	2.97	3.06
wind	-0.4 m/s	velocity	5.10	8.33	8.50	8.67	8.59	8.67	8.50	8.50	8.33	8.17	8.24	7.81	8.50	8.59	8.33

Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)												<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	22-Aug-23	time	2.53	3.55	4.53	5.52	6.51	7.48	8.48	9.47	10.48	11.52	12.71	5 / 3			
reaction time	0.156	interval		1.02	0.98	0.99	0.99	0.97	1.00	0.99	1.01	1.04	1.19		2.99	2.96	3.04
wind	0.4 m/s	velocity	5.14	8.33	8.67	8.59	8.59	8.76	8.50	8.59	8.42	8.17	8.45	7.87	8.53	8.61	8.39

FINAL - 2023 Bauhaus Galan (Stockholm, SWE)												<i>Omega Timing (2023) - diamond league race analysis</i>					
date	02-Jul-23	time	2.45	3.51	4.53	5.54	6.55	7.56	8.59	9.61	10.65	11.70	13.01	7 / 7			
reaction time	0.145	interval		1.06	1.02	1.01	1.01	1.01	1.03	1.02	1.04	1.05	1.31		3.09	3.05	3.11
wind	0.9 m/s	velocity	5.31	8.02	8.33	8.42	8.42	8.42	8.25	8.33	8.17	8.10	7.67	7.69	8.25	8.36	8.20

FINAL - 2023 Doha Diamond League (Doha, QAT) (TV Analysis)												<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	05-May-23	time	2.58	3.60	4.62	5.60	6.60	7.60	8.62	9.64	10.68	11.74	13.00	1 / 7			
reaction time	0.154	interval		1.02	1.02	0.98	1.00	1.00	1.02	1.02	1.04	1.06	1.26		3.02	3.02	3.12
wind	1.1 m/s	velocity	5.04	8.33	8.33	8.67	8.50	8.50	8.33	8.33	8.17	8.02	7.98	7.69	8.44	8.44	8.17

FINAL - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)												<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	07-Aug-22	time	2.48	3.48	4.48	5.44	6.42	7.40	8.38	9.40	10.40	11.46	12.68	6 / 5			

reaction time	0.154	interval	1.00	1.00	0.96	0.98	0.98	0.98	1.02	1.00	1.06	1.22			2.96	2.94	3.08	
wind	-0.2 m/s	velocity	5.24	8.50	8.50	8.85	8.67	8.67	8.67	8.33	8.50	8.02	8.24	7.89	8.61	8.67	8.28	
Heat 3 - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>					
date	05-Aug-22	time	2.53	3.53	4.51	5.48	6.45	7.43	8.40	9.40	10.40	11.43	12.63	5 / 2				
reaction time	0.153	interval	1.00	0.98	0.97	0.97	0.98	0.97	1.00	1.00	1.03	1.20			2.95	2.92	3.03	
wind	2.4 m/s	velocity	5.14	8.50	8.67	8.76	8.76	8.67	8.76	8.50	8.50	8.25	8.37	7.92	8.64	8.73	8.42	
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	24-Jul-22	time	2.45	3.46	4.44	5.41	6.36	7.36	8.33	9.33	10.36	11.42	12.66	7 / 5				
reaction time	0.120	interval	1.01	0.98	0.97	0.95	1.00	0.97	1.00	1.03	1.06	1.24	PB		2.96	2.92	3.09	
wind	0.9 m/s	velocity	5.31	8.42	8.67	8.76	8.95	8.50	8.76	8.50	8.25	8.02	8.10	7.90	8.61	8.73	8.25	
Heat 6 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	23-Jul-22	time	2.45	3.47	4.47	5.47	6.45	7.40	8.43	9.46	10.50	11.53	12.84	3 / 3				
reaction time	0.131	interval	1.02	1.00	1.00	0.98	0.95	1.03	1.03	1.04	1.03	1.31			3.02	2.96	3.10	
wind	-0.4 m/s	velocity	5.31	8.33	8.50	8.50	8.67	8.95	8.25	8.25	8.17	8.25	7.67	7.79	8.44	8.61	8.23	
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	06-Oct-19	time	2.50	3.54	4.56	5.56	6.56	7.58	8.60	9.62	10.68	11.74	13.09	2 / 7				
reaction time	0.159	interval	1.04	1.02	1.00	1.00	1.02	1.02	1.02	1.02	1.06	1.06	1.35		3.06	3.04	3.14	
wind	1.0 m/s	velocity	5.20	8.17	8.33	8.50	8.50	8.33	8.33	8.33	8.02	8.02	7.44	7.64	8.33	8.39	8.12	
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)													<i>Henson (2021) - Athlete First: 2018 year end hurdle report</i>					
date	08-Sep-18	time	2.56	3.60	4.64	5.66	6.70	7.76	8.82	9.90	11.02	12.12	13.50	1 / 8				
reaction time	0.158	interval	1.04	1.04	1.02	1.04	1.06	1.06	1.08	1.12	1.10	1.38			3.10	3.16	3.30	
wind	-0.1 m/s	velocity	5.08	8.17	8.17	8.33	8.17	8.02	8.02	7.87	7.59	7.73	7.61	7.41	8.23	8.07	7.73	
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)													<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>					
date	11-Aug-17	time	2.51	3.58	4.60	5.63	6.65	7.65	8.68	9.73	10.80	11.89	13.25	3 / 7				
reaction time	0.145	interval	1.07	1.02	1.03	1.02	1.00	1.03	1.05	1.07	1.09	1.36			3.12	3.05	3.21	
wind	0.5 m/s	velocity	5.18	7.94	8.33	8.25	8.33	8.50	8.25	8.10	7.94	7.80	7.72	7.55	8.17	8.36	7.94	
Jiang Liyunzhe (CHN) (2002)																		
FINAL - 2024 Chinese National Championships (Quzhou, CHN)													<i>Shandong Athletics Sport Science (2024)</i>					
date	16-Sep-24	time	2.71	3.82	4.89	5.96	7.00	8.06	9.10	10.16	11.24	12.33	13.50	4 / 4				
reaction time	0.177	interval	1.11	1.07	1.07	1.04	1.06	1.04	1.06	1.08	1.09	1.17			3.25	3.14	3.23	
wind	0.6 m/s	velocity	4.80	7.66	7.94	7.94	8.17	8.02	8.17	8.02	7.87	7.80	8.59	7.41	7.85	8.12	7.89	
National FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	02-Sep-23	time	2.70	3.78	4.87	5.92	7.00	8.06	9.12	10.21	11.27	12.35	13.54	4 / 5				
reaction time	0.155	interval	1.08	1.09	1.05	1.08	1.06	1.06	1.09	1.06	1.08	1.19			3.22	3.20	3.23	
wind	0.1 m/s	velocity	4.81	7.87	7.80	8.10	7.87	8.02	8.02	7.80	8.02	7.87	8.45	7.39	7.92	7.97	7.89	
FINAL - 2022 Chinese National Grand Prix (Huangshi, CHN)													<i>Gong (2023) - research on the technical characteristics of outstanding women's 100m hurdlers in china</i>					
date	13-Jul-22	time	2.67			5.87			9.01			12.28	13.66	/ 3				
reaction time		interval				3.20			3.14			3.27	1.38		3.20	3.14	3.27	
wind	-1.1 m/s	velocity	4.87			7.97			8.12			7.80	7.28	7.32	7.97	8.12	7.80	
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	24-Apr-21	time	2.75	3.89	5.00	6.09	7.17	8.26	9.34	10.47	11.60	12.71	13.96	3 / 5				
reaction time		interval	1.14	1.11	1.09	1.08	1.09	1.08	1.13	1.13	1.11	1.25			3.34	3.25	3.37	
wind	0.6 m/s	velocity	4.73	7.46	7.66	7.80	7.87	7.80	7.87	7.52	7.52	7.66	8.04	7.16	7.63	7.85	7.57	
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	08-Apr-21	time	2.76	3.88	4.96	6.04	7.12	8.20	9.30	10.38	11.48	12.62	13.80	8 / 4				
reaction time		interval	1.12	1.08	1.08	1.08	1.08	1.10	1.08	1.10	1.14	1.18			3.28	3.26	3.32	
wind	-0.1 m/s	velocity	4.71	7.59	7.87	7.87	7.87	7.87	7.73	7.87	7.73	7.46	8.52	7.25	7.77	7.82	7.68	
A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	13-Mar-21	time	2.72	3.84	4.96	6.05	7.14						8.59	3 / 2				
reaction time	0.211	interval	1.12	1.12	1.09	1.09						1.45	PB		3.33			
		velocity	4.78	7.59	7.59	7.80	7.80					8.97	6.98		7.66			
Heat 1 - 2021 National Indoor Grand Prix (Chengdu, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	13-Mar-21	time	2.77	3.90	5.02	6.10	7.21						8.65	2 / 3				
reaction time	0.197	interval	1.13	1.12	1.08	1.11						1.44	PB		3.33			
		velocity	4.69	7.52	7.59	7.87	7.66					9.03	6.94		7.66			
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)													<i>CAA Hurdle Development (2020)</i>					
date	15-Sep-20	time	2.69	3.76	4.84	5.90	6.97	8.04	9.12	10.22	11.33	12.42	13.57	2 / 5				
reaction time	0.174	interval	1.07	1.08	1.06	1.07	1.07	1.08	1.10	1.11	1.09	1.15	PB		3.21	3.22	3.30	
wind	-0.4 m/s	velocity	4.83	7.94	7.87	8.02	7.94	7.94	7.87	7.73	7.66	7.80	8.74	7.37	7.94	7.92	7.73	

Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)

date	15-Sep-20	time	2.77	3.89	5.00	6.10	7.19	8.28	9.41	10.54	11.67	12.81		14.03	CAA Hurdle Development (2020)			
reaction time	0.239	interval		1.12	1.11	1.10	1.09	1.09	1.13	1.13	1.13	1.14	1.22			3.33	3.31	3.40
wind	0.3 m/s	velocity	4.69	7.59	7.66	7.73	7.80	7.80	7.52	7.52	7.52	7.46	8.24	7.13		7.66	7.70	7.50

Heat 4 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)

date	13-Apr-19	time	2.70	3.84	4.96	6.10	7.18	8.28	9.41	10.56	11.72	12.87		14.17	CAA Hurdle Development (2019)			
reaction time	0.262	interval		1.14	1.12	1.14	1.08	1.10	1.13	1.15	1.16	1.15	1.30	PB		3.40	3.31	3.46
wind	0.1 m/s	velocity	4.81	7.46	7.59	7.46	7.87	7.73	7.52	7.39	7.33	7.39	8.08	7.06		7.50	7.70	7.37

B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)

date	20-Feb-19	time	2.77	3.90	5.04	6.17	7.30							8.77	CAA Hurdle Development (2019)			
reaction time		interval		1.13	1.14	1.13	1.13						1.47	PB		3.40		
		velocity	4.69	7.52	7.46	7.52	7.52						8.84	6.84		7.50		

Jiang Minhong (CHN) (2000)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN)

date	14-Aug-19	time	2.80	3.93	5.11	6.27	7.42	8.61	9.83	11.08	12.33	13.62		15.02	CAA Hurdle Development (2019)			
reaction time	0.179	interval		1.13	1.18	1.16	1.15	1.19	1.22	1.25	1.25	1.29	1.40			3.47	3.56	3.79
wind	-0.2 m/s	velocity	4.64	7.52	7.20	7.33	7.39	7.14	6.97	6.80	6.80	6.59	7.50	6.66		7.35	7.16	6.73

Jie Zhimao (CHN) (1998)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.76	3.92	5.04	6.11	7.24	8.34	9.46	10.60	11.77	12.94		14.21	CAA Hurdle Development (2019)			
reaction time	0.163	interval		1.16	1.12	1.07	1.13	1.10	1.12	1.14	1.17	1.17	1.27			3.35	3.35	3.48
wind	1.3 m/s	velocity	4.71	7.33	7.59	7.94	7.52	7.73	7.59	7.46	7.26	7.26	8.27	7.04		7.61	7.61	7.33

FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)

date	30-May-19	time	2.80	3.95	5.09	6.26	7.41	8.56	9.72	10.91	12.09	13.29		14.59	CAA Hurdle Development (2019)			
reaction time	0.149	interval		1.15	1.14	1.17	1.15	1.15	1.16	1.19	1.18	1.20	1.30			3.46	3.46	3.57
wind	-0.1 m/s	velocity	4.64	7.39	7.46	7.26	7.39	7.39	7.33	7.14	7.20	7.08	8.08	6.85		7.37	7.37	7.14

B-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)

date	28-Feb-19	time	2.68	3.82	4.92	6.01	7.09							8.47	CAA Hurdle Development (2019)			
reaction time		interval		1.14	1.10	1.09	1.08						1.38	PB		3.33		
		velocity	4.85	7.46	7.73	7.80	7.87						9.42	7.08		7.66		

Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)

date	15-Sep-18	time	2.78	3.95	5.03	6.17	7.29	8.44	9.58	10.74	11.93	13.18		14.49	Henson (2018) - coaching observations			
reaction time		interval		1.17	1.08	1.14	1.12	1.15	1.14	1.16	1.19	1.25	1.31			3.39	3.41	3.60
wind	0.0 m/s	velocity	4.68	7.26	7.87	7.46	7.59	7.39	7.46	7.33	7.14	6.80	8.02	6.90		7.52	7.48	7.08

Jimoh, Funmilayo (USA) (1984)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)

date	22-Jun-03	time	2.65	3.79	4.94	6.06	7.12	8.22	9.37	10.49	11.65	12.85		14.23	USATF Women's Sprint Development (2003)			
reaction time		interval		1.14	1.15	1.12	1.06	1.10	1.15	1.12	1.16	1.20	1.38			3.41	3.31	3.48
wind	2.3 m/s	velocity	4.91	7.46	7.39	7.59	8.02	7.73	7.39	7.59	7.33	7.08	7.61	7.03		7.48	7.70	7.33

Jin Donghua (CHN) (1999)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heptathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)

date	24-Jun-21	time	2.77	3.94	5.10	6.25	7.42	8.62	9.81	11.04	12.24	13.51		14.83	CAA Hurdle Development (2021)			
reaction time	0.207	interval		1.17	1.16	1.15	1.17	1.20	1.19	1.23	1.20	1.27	1.32			3.48	3.56	3.70
wind	0.2 m/s	velocity	4.69	7.26	7.33	7.39	7.26	7.08	7.14	6.91	7.08	6.69	7.61	6.74		7.33	7.16	6.89

Heptathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

date	23-Aug-19	time	2.94	4.10	5.34	6.52	7.72	8.91	10.13	11.35	12.53	13.83		15.20	CAA Hurdle Development (2019)			
reaction time	0.267	interval		1.16	1.24	1.18	1.20	1.19	1.22	1.22	1.18	1.30	1.37			3.58	3.61	3.70
wind	?? m/s	velocity	4.42	7.33	6.85	7.20	7.08	7.14	6.97	6.97	7.20	6.54	7.66	6.58		7.12	7.06	6.89

Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.93	4.09	5.27	6.42	7.59	8.77	9.94	11.14	12.34	13.58		14.85	CAA Hurdle Development (2019)			
reaction time	0.261	interval		1.16	1.18	1.15	1.17	1.18	1.17	1.20	1.20	1.24	1.27	PB		3.49	3.52	3.64
wind	0.1 m/s	velocity	4.44	7.33	7.20	7.39	7.26	7.20	7.26	7.08	7.08	6.85	8.27	6.73		7.31	7.24	7.01

Jirmanová, Karolína (CZE) (1998)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)

date	14-Feb-15	time	2.80	3.94	5.06	6.22	7.34							8.82	Fehér (2015) - Final report U18 & U20 Czech Republic indoor national championships			
reaction time	0.475	interval		1.14	1.12	1.16	1.12						1.48			3.42		
		velocity	4.64	7.46	7.59	7.33	7.59						8.78	6.80		7.46		

Johnson, Alaysha (USA) (1996)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)

Omega Timing (2024) - diamond league race analysis

date	30-Aug-24	time	2.45	3.50	4.49	5.47	6.44	7.42	8.40	9.39	10.40	11.43	12.66	2 / 5			
reaction time	0.147	interval		1.05	0.99	0.98	0.97	0.98	0.98	0.99	1.01	1.03	1.23		3.02	2.93	3.03
wind	-0.4 m/s	velocity	5.31	8.10	8.59	8.67	8.76	8.67	8.67	8.59	8.42	8.25	8.17	7.90	8.44	8.70	8.42
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	25-Aug-24	time	2.44	3.47	4.45	5.40	6.35	7.28	8.26	9.23	10.23	11.22	12.42	6 / 5			
reaction time	0.155	interval		1.03	0.98	0.95	0.95	0.93	0.98	0.97	1.00	0.99	1.20		2.96	2.86	2.96
wind	-0.5 m/s	velocity	5.33	8.25	8.67	8.95	8.95	9.14	8.67	8.76	8.50	8.59	8.38	8.05	8.61	8.92	8.61
Heat B - 2024 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	25-Aug-24	time	2.39	3.41	4.34	5.32	6.24	7.18	8.17	9.18	10.17	11.21	12.46	7 / 2			
reaction time	0.145	interval		1.02	0.93	0.98	0.92	0.94	0.99	1.01	0.99	1.04	1.25		2.93	2.85	3.04
wind	0.6 m/s	velocity	5.44	8.33	9.14	8.67	9.24	9.04	8.59	8.42	8.59	8.17	8.04	8.03	8.70	8.95	8.39
FINAL - 2024 Athletissima (Lausanne, SUI)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	22-Aug-24	time	2.45	3.49	4.51	5.48	6.45	7.42	8.39	9.37	10.36	11.36	12.59	3 / 6			
reaction time	0.164	interval		1.04	1.02	0.97	0.97	0.97	0.97	0.98	0.99	1.00	1.23		3.03	2.91	2.97
wind	-0.9 m/s	velocity	5.31	8.17	8.33	8.76	8.76	8.76	8.76	8.67	8.59	8.50	8.17	7.94	8.42	8.76	8.59
FINAL - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	10-Aug-24	time	2.41	3.45	4.45	5.51	6.59	7.61	8.60	9.58	10.56	11.59	12.93	6 / 7			
reaction time	0.151	interval		1.04	1.00	1.06	1.08	1.02	0.99	0.98	0.98	1.03	1.34		3.10	3.09	2.99
wind	-0.3 m/s	velocity	5.39	8.17	8.50	8.02	7.87	8.33	8.59	8.67	8.67	8.25	7.50	7.73	8.23	8.25	8.53
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	09-Aug-24	time	2.41	3.45	4.44	5.40	6.36	7.31	8.25	9.21	10.17	11.14	12.34	5 / 1			
reaction time	0.133	interval		1.04	0.99	0.96	0.96	0.95	0.94	0.96	0.96	0.97	1.20		2.99	2.85	2.89
wind	0.4 m/s	velocity	5.39	8.17	8.59	8.85	8.85	8.95	9.04	8.85	8.85	8.76	8.38	8.10	8.53	8.95	8.82
Heat 1 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	07-Aug-24	time	2.46	3.50	4.49	5.46	6.44	7.41	8.39	9.38	10.39	11.40	12.61	7 / 2			
reaction time	0.156	interval		1.04	0.99	0.97	0.98	0.97	0.98	0.99	1.01	1.01	1.21		3.00	2.93	3.01
wind	-0.1 m/s	velocity	5.28	8.17	8.59	8.76	8.67	8.76	8.67	8.59	8.42	8.42	8.31	7.93	8.50	8.70	8.47
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	30-Jun-24	time	2.56	3.57	4.53	5.48	6.42	7.38	8.34	9.28	10.25	11.21	12.31	5 / 2			
reaction time		interval		1.01	0.96	0.95	0.94	0.96	0.96	0.94	0.97	0.96	1.10	PB	2.92	2.86	2.87
wind	0.7 m/s	velocity	5.08	8.42	8.85	8.95	9.04	8.85	8.85	9.04	8.76	8.85	9.14	8.12	8.73	8.92	8.89
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	29-Jun-24	time	2.54	3.57	4.54	5.50	6.44	7.37	8.32	9.29	10.25	11.24	12.36	4 / 1			
reaction time		interval		1.03	0.97	0.96	0.94	0.93	0.95	0.97	0.96	0.99	1.12		2.96	2.82	2.92
wind	1.0 m/s	velocity	5.12	8.25	8.76	8.85	9.04	9.14	8.95	8.76	8.85	8.59	8.97	8.09	8.61	9.04	8.73
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	28-Jun-24	time	2.52	3.54	4.51	5.45	6.41	7.35	8.30	9.28	10.25	11.25	12.37	4 / 2			
reaction time		interval		1.02	0.97	0.94	0.96	0.94	0.95	0.98	0.97	1.00	1.12		2.93	2.85	2.95
wind	0.2 m/s	velocity	5.16	8.33	8.76	9.04	8.85	9.04	8.95	8.67	8.76	8.50	8.97	8.08	8.70	8.95	8.64
FINAL - 2024 Prefontaine Classic (Eugene, OR)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	25-May-24	time	2.50	3.56	4.56	5.56	6.52	7.50	8.47	9.46	10.45	11.45	12.65	2 / 5			
reaction time	0.162	interval		1.06	1.00	1.00	0.96	0.98	0.97	0.99	0.99	1.00	1.20		3.06	2.91	2.98
wind	-0.9 m/s	velocity	5.20	8.02	8.50	8.50	8.85	8.67	8.76	8.59	8.59	8.50	8.37	7.91	8.33	8.76	8.56
FINAL - 2024 Seashore Doha Meeting (Doha, QAT) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	10-May-24	time	2.64	3.90	5.07	6.17	7.24	8.27	9.27	10.27	11.27	12.34	13.55	4 / 5	<i>no official time given</i>		
reaction time	0.137	interval		1.26	1.17	1.10	1.07	1.03	1.00	1.00	1.00	2.07	1.21	DQ	3.53	3.10	3.07
wind	1.7 m/s	velocity	4.92	6.75	7.26	7.73	7.94	8.25	8.50	8.50	8.50	8.21	8.31	7.38	7.22	8.23	8.31
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	27-Apr-24	time	2.62	3.67	4.67	5.64	6.61	7.61	8.58	9.55	10.56	11.61	12.78	1 / 5			
reaction time	0.138	interval		1.05	1.00	0.97	0.97	1.00	0.97	0.97	1.01	1.05	1.17		3.02	2.94	3.03
wind	0.3 m/s	velocity	4.96	8.10	8.50	8.76	8.76	8.50	8.76	8.76	8.42	8.10	8.59	7.82	8.44	8.67	8.42
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	20-Apr-24	time	2.49	3.55	4.57	5.57	6.57	7.55	8.52	9.53	10.61	11.70	13.01	8 / 9			
reaction time	0.177	interval		1.06	1.02	1.00	1.00	0.98	0.97	1.01	1.08	1.09	1.31		3.08	2.95	3.18
wind	-0.2 m/s	velocity	5.22	8.02	8.33	8.50	8.50	8.67	8.76	8.42	7.87	7.80	7.67	7.69	8.28	8.64	8.02
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)														<i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>			
date	16-Feb-24	time	2.64	3.64	4.64	5.61	6.61							5 / --			
reaction time		interval		1.00	1.00	0.97	1.00						DQ		2.97		
		velocity	4.92	8.50	8.50	8.76	8.50								8.59		

FINAL - 2023 Prefontaine Classic (Eugene, OR)

date	17-Sep-23	time	2.43	3.48	4.47	5.44	6.40	7.37	8.34	9.31	10.27	11.26	12.48	7 / 6			
reaction time	0.152	interval		1.05	0.99	0.97	0.96	0.97	0.97	0.97	0.96	0.99	1.22		3.01	2.90	2.92
wind	1.8 m/s	velocity	5.35	8.10	8.59	8.76	8.85	8.76	8.76	8.76	8.85	8.59	8.24	8.01	8.47	8.79	8.73

Omega Timing (2023) - diamond league race analysis

FINAL - 2023 Weltklasse (Zürich, SUI)

date	31-Aug-23	time	2.46	3.51	4.50	5.46	6.42	7.38	8.35	9.35	10.35	11.36	12.58	7 / 2			
reaction time	0.151	interval		1.05	0.99	0.96	0.96	0.96	0.97	1.00	1.00	1.01	1.22		3.00	2.89	3.01
wind	-0.2 m/s	velocity	5.28	8.10	8.59	8.85	8.85	8.85	8.76	8.50	8.50	8.42	8.24	7.95	8.50	8.82	8.47

Omega Timing (2023) - diamond league race analysis

FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)

date	21-Jul-23	time	2.46	3.50	4.51	5.47	6.43	7.38	8.33	9.28	10.24	11.22	12.39	2 / 3			
reaction time	0.172	interval		1.04	1.01	0.96	0.96	0.95	0.95	0.95	0.96	0.98	1.17		3.01	2.86	2.89
wind	0.6 m/s	velocity	5.28	8.17	8.42	8.85	8.85	8.95	8.95	8.95	8.85	8.67	8.59	8.07	8.47	8.92	8.82

Omega Timing (2023) - diamond league race analysis

FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)

date	16-Jul-23	time	2.44	3.49	4.49	5.48	6.47	7.44	8.41	9.39	10.37	11.36	12.58	3 / 7			
reaction time	0.151	interval		1.05	1.00	0.99	0.99	0.97	0.97	0.98	0.98	0.99	1.22		3.04	2.93	2.95
wind	0.9 m/s	velocity	5.33	8.10	8.50	8.59	8.59	8.76	8.76	8.67	8.67	8.59	8.24	7.95	8.39	8.70	8.64

Omega Timing (2023) - diamond league race analysis

FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)

date	08-Jul-23	time	2.57	3.59	4.57	5.54	6.48	7.44	8.40	9.36	10.32	11.34	12.46	3 / 4			
reaction time		interval		1.02	0.98	0.97	0.94	0.96	0.96	0.96	0.96	1.02	1.12		2.97	2.86	2.94
wind	0.4 m/s	velocity	5.06	8.33	8.67	8.76	9.04	8.85	8.85	8.85	8.85	8.33	8.97	8.03	8.59	8.92	8.67

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

FINAL - 2023 Athletissima (Lausanne, SUI)

date	30-Jun-23	time	2.45	3.52	4.55	5.57	6.61	7.65	8.69	9.73	10.80	12.11	14.36	6 / 8			
reaction time	0.139	interval		1.07	1.03	1.02	1.04	1.04	1.04	1.04	1.07	1.31	2.25		3.12	3.12	3.42
wind	-1.4 m/s	velocity	5.31	7.94	8.25	8.33	8.17	8.17	8.17	8.17	7.94	6.49	4.47	6.96	8.17	8.17	7.46

Omega Timing (2023) - diamond league race analysis

FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)

date	24-Jun-23	time	2.55	3.57	4.53	5.47	6.42	7.34	8.29	9.27	10.24	11.22	12.30	4 / 2			
reaction time	0.206	interval		1.02	0.96	0.94	0.95	0.92	0.95	0.98	0.97	0.98	1.08		2.92	2.82	2.93
wind	2.8 m/s	velocity	5.10	8.33	8.85	9.04	8.95	9.24	8.95	8.67	8.76	8.67	9.31	8.13	8.73	9.04	8.70

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

FINAL - 2023 USATF Los Angeles Grand Prix (Westwood, CA) (TV Analysis)

date	27-May-23	time	2.57	3.60	4.60	5.58	6.54	7.50	8.48	9.46	10.44	11.42	12.52	2 / 4			
reaction time	0.178	interval		1.03	1.00	0.98	0.96	0.96	0.98	0.98	0.98	1.10			3.01	2.90	2.94
wind	-0.2 m/s	velocity	5.06	8.25	8.50	8.67	8.85	8.85	8.67	8.67	8.67	9.14	7.99		8.47	8.79	8.67

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

FINAL - 2023 Doha Diamond League (Doha, QAT) (TV Analysis)

date	05-May-23	time	2.60	3.64	4.64	5.60	6.58	7.54	8.50	9.48	10.50	11.50	12.66	5 / 2			
reaction time	0.165	interval		1.04	1.00	0.96	0.98	0.96	0.96	0.98	1.02	1.00	1.16		3.00	2.90	3.00
wind	1.1 m/s	velocity	5.00	8.17	8.50	8.85	8.67	8.85	8.85	8.67	8.33	8.50	8.66	7.90	8.50	8.79	8.50

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

FINAL - 2022 Gyulai István Memorial (Székesfehérvár, HUN) (TV Analysis)

date	08-Aug-22	time	2.60	3.65	4.63	5.66	6.66	7.63	8.60	9.57	10.53	11.50	12.62	7 / 4			
reaction time	0.173	interval		1.05	0.98	1.03	1.00	0.97	0.97	0.97	0.96	0.97	1.12		3.06	2.94	2.90
wind	2.4 m/s	velocity	5.00	8.10	8.67	8.25	8.50	8.76	8.76	8.76	8.85	8.76	8.97	7.92	8.33	8.67	8.79

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

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

date	25-Jun-22	time	2.57	3.60	4.60	5.57	6.52	7.46	8.42	9.39	10.34	11.31	12.35	7 / 2				
reaction time		interval		1.03	1.00	0.97	0.95	0.94	0.96	0.97	0.95	0.97	1.04	PB		3.00	2.85	2.89
wind	-1.4 m/s	velocity	5.06	8.25	8.50	8.76	8.95	9.04	8.85	8.76	8.95	8.76	9.66	8.10	8.50	8.95	8.82	

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

FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)

date	12-Jun-22	time	2.50	3.50	4.50	5.47	6.43	7.40	8.35	9.30	10.28	11.28	12.40	4 / 1				
reaction time	0.153	interval		1.00	1.00	0.97	0.96	0.97	0.95	0.95	0.98	1.00	1.12	PB		2.97	2.88	2.93
wind	2.0 m/s	velocity	5.20	8.50	8.50	8.76	8.85	8.76	8.95	8.95	8.67	8.50	8.97	8.06	8.59	8.85	8.70	

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

FINAL - 2022 Puerto Rico International Athletics Classic (Ponce, PUR) (TV Analysis)

date	12-May-22	time	2.52	3.54	4.53	5.50	6.45	7.40	8.37	9.34	10.36	11.34	12.50	2 / 1				
reaction time	0.155	interval		1.02	0.99	0.97	0.95	0.95	0.97	0.97	1.02	0.98	1.16	PB		2.98	2.87	2.97
wind	0.3 m/s	velocity	5.16	8.33	8.59	8.76	8.95	8.95	8.76	8.76	8.33	8.67	8.66	8.00	8.56	8.89	8.59	

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

FINAL - 2018 USATF National Championships (Des Moines, IA) (TV Analysis)

date	23-Jun-18	time	2.60	3.70	4.75	5.80	6.80	7.77	8.77	9.77	10.81	11.89	13.23	8 / 7			
reaction time		interval		1.10	1.05	1.05	1.00	0.97	1.00	1.00	1.04	1.08	1.34		3.20	2.97	3.12
wind	-1.4 m/s	velocity	5.00	7.73	8.10	8.10	8.50	8.76	8.50	8.50	8.17	7.87	7.84	7.56	7.97	8.59	8.17

Henson (2020) - Athlete First: 2018 year end hurdle report

Johnson, Brandeé (USA) (1998)**Semi-Final 1 - 2024 USA Olympic Trials (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
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Henson (2024) - Athlete First: 2024 year end hurdle report

date	29-Jun-24	time	2.61	3.67	4.74	5.79	6.83	7.86	8.89	9.92	10.98	12.04	13.25	2 / 9					
reaction time		interval		1.06	1.07	1.05	1.04	1.03	1.03	1.03	1.06	1.06	1.21			3.18	3.10	3.15	
wind	0.8 m/s	velocity	4.98	8.02	7.94	8.10	8.17	8.25	8.25	8.25	8.02	8.02	8.31	7.55		8.02	8.23	8.10	
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>						
date	28-Jun-24	time	2.66	3.71	4.75	5.77	6.77	7.87	8.91	9.98	11.04	12.11	13.31	8 / 6					
reaction time		interval		1.05	1.04	1.02	1.00	1.10	1.04	1.07	1.06	1.07	1.20			3.11	3.14	3.20	
wind	0.1 m/s	velocity	4.89	8.10	8.17	8.33	8.50	7.73	8.17	7.94	8.02	7.94	8.37	7.51		8.20	8.12	7.97	
Johnson-Thompson, Katarina (GBR)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>						
Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>						
date	08-Aug-24	time	2.53	3.63	4.70	5.76	6.80	7.85	8.91	9.96	11.02	12.10	13.40	6 / 2					
reaction time	0.187	interval	7 steps	1.10	1.07	1.06	1.04	1.05	1.06	1.05	1.06	1.08	1.30			3.23	3.15	3.19	
wind	0.1 m/s	velocity	5.14	7.73	7.94	8.02	8.17	8.10	8.02	8.10	8.02	7.87	7.73	7.46		7.89	8.10	7.99	
Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>						
date	19-Aug-23	time	2.75	3.83	4.87	5.92	6.95	8.02	9.07	10.13	11.25	12.33	13.50	6 / 6					
reaction time	0.185	interval	7 steps	1.08	1.04	1.05	1.03	1.07	1.05	1.06	1.12	1.08	1.17			3.17	3.15	3.26	
wind	0.4 m/s	velocity	4.73	7.87	8.17	8.10	8.25	7.94	8.10	8.02	7.59	7.87	8.59	7.41		8.04	8.10	7.82	
Heptathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>						
date	17-Jul-22	time	2.62	3.74	4.82	5.86	6.94	8.01	9.09	10.15	11.23	12.35	13.55	2 / 5					
reaction time	0.101	interval	7 steps	1.12	1.08	1.04	1.08	1.07	1.08	1.06	1.08	1.12	1.20			3.24	3.23	3.26	
wind	1.4 m/s	velocity	4.96	7.59	7.87	8.17	7.87	7.94	7.87	8.02	7.87	7.59	8.37	7.38		7.87	7.89	7.82	
Heptathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>						
date	04-Aug-21	time	2.71	3.75	4.79	5.84	6.87	7.91	8.93	9.96	11.02	12.10	13.27	7 / 1					
reaction time	0.166	interval	7 steps	1.04	1.04	1.05	1.03	1.04	1.02	1.03	1.06	1.08	1.17			3.13	3.09	3.17	
wind	0.2 m/s	velocity	4.80	8.17	8.17	8.10	8.25	8.17	8.33	8.25	8.02	7.87	8.59	7.54		8.15	8.25	8.04	
FINAL - 2020 Memorial Van Damme (Brussels, BEL) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>						
date	04-Sep-20	time	2.60	3.73	4.80	5.87	6.90	7.97	9.03	10.10	11.17	12.30	13.57	5 / 4					
reaction time	0.170	interval	7 steps	1.13	1.07	1.07	1.03	1.07	1.06	1.07	1.07	1.13	1.27			3.27	3.16	3.27	
wind	-0.2 m/s	velocity	5.00	7.52	7.94	7.94	8.25	7.94	8.02	7.94	7.94	7.52	7.91	7.37		7.80	8.07	7.80	
FINAL - 2020 Bauhaus Galan (Stockholm, SWE) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>						
date	23-Aug-20	time	2.63	3.77	4.83	5.93	7.00	8.10	9.17	10.20	11.30	12.43	13.94	6 / 6					
reaction time	0.155	interval	7 steps	1.14	1.06	1.10	1.07	1.10	1.07	1.03	1.10	1.13	1.51			3.30	3.24	3.26	
wind	1.4 m/s	velocity	4.94	7.46	8.02	7.73	7.94	7.73	7.94	8.25	7.73	7.52	6.66	7.17		7.73	7.87	7.82	
Jollivet, Lou-Anne (FRA) (2001)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>						
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>						
date	12-Sep-20	time	2.63	3.71	4.76	5.88	6.92	7.94	8.98	10.03	11.11	12.19	13.52	7 / 5					
reaction time	0.204	interval		1.08	1.05	1.12	1.04	1.02	1.04	1.05	1.08	1.08	1.33	PB		3.25	3.10	3.21	
wind	1.5 m/s	velocity	4.94	7.87	8.10	7.59	8.17	8.33	8.17	8.10	7.87	7.87	7.56	7.40		7.85	8.23	7.94	
Jones, Courtney (USA) (1999)													<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>						
FINAL - 2024 Villa de Madrid Indoor Meeting (Madrid, ESP) (TV Analysis)													<i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>						
date	23-Feb-24	time	2.70	3.72	4.74	5.74	6.76						8.19	1 / 8					
reaction time	0.151	interval		1.02	1.02	1.00	1.02					1.43				3.04			
		velocity	4.81	8.33	8.33	8.50	8.33					9.09	7.33			8.39			
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)													<i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>						
date	16-Feb-24	time	2.67	3.71	4.72	5.74	6.74								8 / --				
reaction time		interval		1.04	1.01	1.02	1.00							DQ		3.07			
		velocity	4.87	8.17	8.42	8.33	8.50									8.31			
Heat 2 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)													<i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>						
date	16-Feb-24	time	2.64	3.67	4.67	5.67	6.67						8.02	4 / 5					
reaction time	0.143	interval		1.03	1.00	1.00	1.00					1.35	=PB			3.03			
		velocity	4.92	8.25	8.50	8.50	8.50					9.63	7.48			8.42			
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)													<i>CAA Hurdle Development (2020)</i>						
date	15-Feb-20	time	2.65	3.67	4.68	5.69	6.69						8.10	7 / 4					
reaction time	0.171	interval		1.02	1.01	1.01	1.00					1.41				3.04			
		velocity	4.91	8.33	8.42	8.42	8.50					9.22	7.41			8.39			
Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)													<i>CAA Hurdle Development (2020)</i>						
date	15-Feb-20	time	2.67	3.72	4.72	5.73	6.74						8.14	3 / 3					
reaction time	0.175	interval		1.05	1.00	1.01	1.01					1.40				3.06			
		velocity	4.87	8.10	8.50	8.42	8.42					9.29	7.37			8.33			
FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>						

date	08-Jun-19	time	2.56	3.60	4.60	5.56	6.56	7.53	8.56	9.53	10.56	11.60		12.81	7 / 6			
reaction time	0.183	interval		1.04	1.00	0.96	1.00	0.97	1.03	0.97	1.03	1.04	1.21			3.00	3.00	3.04
wind	0.6 m/s	velocity	5.08	8.17	8.50	8.85	8.50	8.76	8.25	8.76	8.25	8.17	8.68	7.81		8.50	8.50	8.39
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)										<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>								
date	15-Jul-18	time	2.63	3.70	4.71	5.71	6.69	7.68	8.68	9.73	10.80	11.91		13.19	4 / 3			
reaction time	0.156	interval		1.07	1.01	1.00	0.98	0.99	1.00	1.05	1.07	1.11	1.28			3.08	2.97	3.23
wind	-1.0 m/s	velocity	4.94	7.94	8.42	8.50	8.67	8.59	8.50	8.10	7.94	7.66	8.20	7.58		8.28	8.59	7.89
FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)										<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>								
date	09-Jun-18	time	2.56	3.60	4.63	5.63	6.63	7.63	8.66	9.66	10.66	11.73		13.04	2 / 3			
reaction time		interval		1.04	1.03	1.00	1.00	1.00	1.03	1.00	1.00	1.07	1.31			3.07	3.03	3.07
wind	0.9 m/s	velocity	5.08	8.17	8.25	8.50	8.50	8.50	8.25	8.50	8.50	7.94	8.02	7.67		8.31	8.42	8.31
Jones, Hannah (AUS) (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 Seiko Golden Grand Prix (Yokohama, JPN)										<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>								
date	21-May-23	time	2.64	3.70	4.72	5.71	6.72	7.72	8.73	9.75	10.77	11.81		12.97	3 / 7			
reaction time	0.144	interval		1.06	1.02	0.99	1.01	1.00	1.01	1.02	1.02	1.04	1.16			3.07	3.02	3.08
wind	0.4 m/s	velocity	4.92	8.02	8.33	8.59	8.42	8.50	8.42	8.33	8.33	8.17	8.66	7.71		8.31	8.44	8.28
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)										<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>								
date	13-Jul-21	time	2.60	3.67	4.73	5.80	6.87	7.94	9.00	10.02	11.07	12.12		13.39	8 / 7			
reaction time	0.175	interval		1.07	1.06	1.07	1.07	1.07	1.06	1.02	1.05	1.05	1.27			3.20	3.20	3.12
wind	1.5 m/s	velocity	5.00	7.94	8.02	7.94	7.94	7.94	8.02	8.33	8.10	8.10	7.91	7.47		7.97	7.97	8.17
Jones, Jasmine (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	08-Jun-24	time	2.50	3.53	4.54	5.51	6.48	7.47	8.47	9.47	10.48	11.50		12.64	3 / 4			
reaction time		interval	7 steps	1.03	1.01	0.97	0.97	0.99	1.00	1.00	1.01	1.02	1.14	PB		3.01	2.96	3.03
wind	-0.5 m/s	velocity	5.20	8.25	8.42	8.76	8.76	8.59	8.50	8.50	8.42	8.33	8.82	7.91		8.47	8.61	8.42
FINAL - 2024 Oxy Invitational (Eagle Rock, CA) (TV Analysis)										<i>Henson (2024) Athlete First: 2024 Sydney McLaughlin-Levrone 400m Hurdles World Record Season</i>								
date	04-May-24	time	2.50	3.53	4.52	5.52	6.53	7.53	8.53	9.55	10.58	11.61		12.86	5 / 2			
reaction time		interval	7 steps	1.03	0.99	1.00	1.01	1.00	1.00	1.02	1.03	1.03	1.25			3.02	3.01	3.08
wind	-0.4 m/s	velocity	5.20	8.25	8.59	8.50	8.42	8.50	8.50	8.33	8.25	8.25	8.04	7.78		8.44	8.47	8.28
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)										<i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>								
date	16-Feb-24	time	2.53	3.53	4.52	5.49	6.46							7.79	3 / 2			
reaction time	0.156	interval	7 steps	1.00	0.99	0.97	0.97						1.33	PB		2.96		
		velocity	5.14	8.50	8.59	8.76	8.76						9.77	7.70		8.61		
Heat 2 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)										<i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>								
date	16-Feb-24	time	2.55	3.57	4.56	5.54	6.52							7.82	3 / 2			
reaction time	0.157	interval	7 steps	1.02	0.99	0.98	0.98						1.30	PB		2.99		
		velocity	5.10	8.33	8.59	8.67	8.67						10.00	7.67		8.53		
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)										<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>								
date	11-Jun-22	time	2.47	3.51	4.52	5.49	6.47	7.45	8.44	9.44	10.46	11.46		12.66	7 / 2			
reaction time		interval		1.04	1.01	0.97	0.98	0.98	0.99	1.00	1.02	1.00	1.20	PB		3.02	2.95	3.02
wind	-0.2 m/s	velocity	5.26	8.17	8.42	8.76	8.67	8.67	8.59	8.50	8.33	8.50	8.38	7.90		8.44	8.64	8.44
Jones, Lolo (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 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)										<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>								
date	29-Jun-24	time	2.73	3.87	4.97	6.07	7.20	8.34	9.57	10.78	11.98	13.18		14.50	1 / 8			
reaction time		interval		1.14	1.10	1.10	1.13	1.14	1.23	1.21	1.20	1.20	1.32			3.34	3.50	3.61
wind	1.0 m/s	velocity	4.76	7.46	7.73	7.73	7.52	7.46	6.91	7.02	7.08	7.08	7.61	6.90		7.63	7.29	7.06
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)										<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>								
date	28-Jun-24	time	2.80	3.90	5.04	6.17	7.28	8.43	9.57					14.86	6 / 6			
reaction time		interval		1.10	1.14	1.13	1.11	1.15	1.14							3.37	3.40	
wind	0.2 m/s	velocity	4.64	7.73	7.46	7.52	7.66	7.39	7.46				6.73		7.57	7.50		
Heat 1 - 2020 New Balance Indoor Grand Prix (Boston, MA)										<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>								
date	25-Jan-20	time	2.66	3.73	4.80	5.83	6.91							8.32	7 / 5			
reaction time		interval		1.07	1.07	1.03	1.08						1.41			3.17		
		velocity	4.89	7.94	7.94	8.25	7.87						9.22	7.21		8.04		
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)										<i>Henson (2021) - Athlete First: major championships report</i>								
date	07-Aug-12	time	2.56	3.52	4.48	5.44	6.42	7.38	8.36	9.36	10.36	11.40		12.58	2 / 4			
reaction time	0.163	interval		0.96	0.96	0.96	0.98	0.96	0.98	1.00	1.00	1.04	1.18			2.88	2.92	3.04
wind	-0.2 m/s	velocity	5.08	8.85	8.85	8.85	8.67	8.85	8.67	8.50	8.50	8.17	8.90	7.95		8.85	8.73	8.39
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)										<i>Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships</i>								

wind	1.3 m/s	velocity	5.35	8.33	8.33	8.50	8.85	8.76	8.50	8.50	8.50	8.02	8.24	7.89	8.39	8.70	8.33
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Heat 3 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	19-Jun-21	time	2.43	3.45	4.46	5.46	6.43	7.43	8.40	9.40	10.40	11.43	12.64	2 / 2			
reaction time	0.142	interval		1.02	1.01	1.00	0.97	1.00	0.97	1.00	1.00	1.03	1.21	PB	3.03	2.94	3.03
wind	1.0 m/s	velocity	5.35	8.33	8.42	8.50	8.76	8.50	8.76	8.50	8.50	8.25	8.31	7.91	8.42	8.67	8.42

FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	12-Jun-21	time	2.50	3.54	4.54	5.54	6.54	7.54	8.55	9.54	10.57	11.61	12.82	2 / 2			
reaction time	0.138	interval		1.04	1.00	1.00	1.00	1.00	1.01	0.99	1.03	1.04	1.21		3.04	3.01	3.06
wind	0.4 m/s	velocity	5.20	8.17	8.50	8.50	8.50	8.50	8.42	8.59	8.25	8.17	8.31	7.80	8.39	8.47	8.33

Jones, Tenaya (USA) (1989)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	10-May-15	time	2.66	3.72	4.71	5.69	6.68	7.66	8.65	9.65	10.65	11.68	12.83	6 / 3			
reaction time	0.173	interval		1.06	0.99	0.98	0.99	0.98	0.99	1.00	1.00	1.03	1.15		3.03	2.96	3.03
wind	0.9 m/s	velocity	4.89	8.02	8.59	8.67	8.59	8.67	8.59	8.50	8.50	8.25	9.13	7.79	8.42	8.61	8.42

Jones, Tia (USA) (2000)

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

date	28-Jun-24	time	2.60	3.63	4.63	5.62	6.63	7.62	8.62	9.63	10.65	11.70	12.90	2 / 4			
reaction time		interval		1.03	1.00	0.99	1.01	0.99	1.00	1.01	1.02	1.05	1.20		3.02	3.00	3.08
wind	1.7 m/s	velocity	5.00	8.25	8.50	8.59	8.42	8.59	8.50	8.42	8.33	8.10	8.37	7.75	8.44	8.50	8.28

FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)*Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record*

date	16-Feb-24	time	2.53	3.51	4.48	5.42	6.39						7.68	4 / 1			
reaction time	0.161	interval		0.98	0.97	0.94	0.97						1.29		2.89		
		velocity	5.14	8.67	8.76	9.04	8.76						10.08	7.81	8.82		

Heat 2 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)*Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record*

date	16-Feb-24	time	2.50	3.50	4.45	5.40	6.36						7.67	7 / 1			
reaction time	0.140	interval		1.00	0.95	0.95	0.96						1.31	=WR	2.90		
		velocity	5.20	8.50	8.95	8.95	8.85						9.92	7.82	8.79		

FINAL - 2024 Millrose Games (New York, NY) (TV Analysis)*Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date	11-Feb-24	time	2.50	3.50	4.52	5.48	6.44						7.79	6 / 3			
reaction time	0.181	interval		1.00	1.02	0.96	0.96						1.35		2.98		
		velocity	5.20	8.50	8.33	8.85	8.85						9.63	7.70	8.56		

FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)*Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date	04-Feb-24	time	2.50	3.50	4.48	5.46	6.42						7.72	3 / 1			
reaction time	0.153	interval		1.00	0.98	0.98	0.96						1.30	PB	2.96		
		velocity	5.20	8.50	8.67	8.67	8.85						10.00	7.77	8.61		

FINAL - 2024 Corky Classic (Lubbock, TX) (TV Analysis)*Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date	20-Jan-24	time	2.46	3.50	4.52	5.52	6.54						7.80	5 / 2			
reaction time		interval		1.04	1.02	1.00	1.02						1.26	PB	3.06		
		velocity	5.28	8.17	8.33	8.50	8.33						10.32	7.69	8.33		

FINAL - 2023 Prefontaine Classic (Eugene, OR)*Omega Timing (2023) - diamond league race analysis*

date	17-Sep-23	time	2.45	3.49	4.49	5.47	6.44	7.41	8.39	9.39	10.40	11.42	12.82	8 / 9			
reaction time	0.140	interval		1.04	1.00	0.98	0.97	0.97	0.98	1.00	1.01	1.02	1.40		3.02	2.92	3.03
wind	1.8 m/s	velocity	5.31	8.17	8.50	8.67	8.76	8.76	8.67	8.50	8.42	8.33	7.18	7.80	8.44	8.73	8.42

FINAL - 2023 Weltklasse (Zürich, SUI)*Omega Timing (2023) - diamond league race analysis*

date	31-Aug-23	time	2.47	3.51	4.49	5.46	6.42	7.38	8.35	9.34	10.35	11.36	12.62	6 / 4			
reaction time	0.150	interval		1.04	0.98	0.97	0.96	0.96	0.97	0.99	1.01	1.01	1.26		2.99	2.89	3.01
wind	-0.2 m/s	velocity	5.26	8.17	8.67	8.76	8.85	8.85	8.76	8.59	8.42	8.42	7.98	7.92	8.53	8.82	8.47

FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)*Omega Timing (2023) - diamond league race analysis*

date	21-Jul-23	time	2.43	3.45	4.43	5.38	6.33	7.28	8.24	9.20	10.17	11.17	12.39	7 / 4			
reaction time	0.156	interval		1.02	0.98	0.95	0.95	0.95	0.96	0.96	0.97	1.00	1.22		2.95	2.86	2.93
wind	0.6 m/s	velocity	5.35	8.33	8.67	8.95	8.95	8.95	8.85	8.85	8.76	8.50	8.24	8.07	8.64	8.92	8.70

FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)*Omega Timing (2023) - diamond league race analysis*

date	16-Jul-23	time	2.48	3.52	4.51	5.49	6.45	7.42	8.38	9.35	10.34	11.34	12.57	2 / 6			
reaction time	0.175	interval		1.04	0.99	0.98	0.96	0.97	0.96	0.97	0.99	1.00	1.23		3.01	2.89	2.96
wind	0.9 m/s	velocity	5.24	8.17	8.59	8.67	8.85	8.76	8.85	8.76	8.59	8.50	8.17	7.96	8.47	8.82	8.61

FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	08-Jul-23	time	2.55	3.57	4.55	5.53	6.48	7.44	8.41	9.38	10.36	11.35	12.50	7 / 5			
reaction time		interval		1.02	0.98	0.98	0.95	0.96	0.97	0.97	0.98	0.99	1.15		2.98	2.88	2.94
wind	0.4 m/s	velocity	5.10	8.33	8.67	8.67	8.95	8.85	8.76	8.76	8.67	8.59	8.74	8.00	8.56	8.85	8.67

FINAL - 2023 Athletissima (Lausanne, SUI)*Omega Timing (2023) - diamond league race analysis*

date	30-Jun-23	time	2.43	3.47	4.46	5.42	6.37	7.33	8.29	9.27	10.26	11.27	12.51	3 / 3			
reaction time	0.139	interval		1.04	0.99	0.96	0.95	0.96	0.96	0.98	0.99	1.01	1.24		2.99	2.87	2.98
wind	-1.4 m/s	velocity	5.35	8.17	8.59	8.85	8.95	8.85	8.85	8.67	8.59	8.42	8.10	7.99	8.53	8.89	8.56

FINAL - 2023 USATF Los Angeles Grand Prix (Westwood, CA) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	27-May-23	time	2.58	3.60	4.60	5.57	6.54	7.48	8.44	9.42	10.40	11.41	12.50	7 / 3			
reaction time	0.186	interval		1.02	1.00	0.97	0.97	0.94	0.96	0.98	0.98	1.01	1.09		2.99	2.87	2.97
wind	-0.2 m/s	velocity	5.04	8.33	8.50	8.76	8.76	9.04	8.85	8.67	8.67	8.42	9.22	8.00	8.53	8.89	8.59

FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	08-Sep-22	time	2.48	3.48	4.44	5.40	6.36	7.31	8.26	9.21	10.20	11.19	12.40	8 / 2			
reaction time	0.173	interval		1.00	0.96	0.96	0.96	0.95	0.95	0.95	0.99	0.99	1.21		2.92	2.86	2.93
wind	-0.3 m/s	velocity	5.24	8.50	8.85	8.85	8.85	8.95	8.95	8.95	8.59	8.59	8.31	8.06	8.73	8.92	8.70

FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date	04-Sep-22	time	2.54	3.56	4.58	5.54	6.52	7.50	8.46	9.46	10.44	11.44	12.58	5 / 2			
reaction time	0.151	interval		1.02	1.02	0.96	0.98	0.98	0.96	1.00	0.98	1.00	1.14		3.00	2.92	2.98
wind	-0.3 m/s	velocity	5.12	8.33	8.33	8.85	8.67	8.67	8.85	8.50	8.67	8.50	8.82	7.95	8.50	8.73	8.56

FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	02-Sep-22	time	2.50	3.50	4.47	5.44	6.38	7.32	8.28	9.24	10.21	11.21	12.38	3 / 2			
reaction time	0.165	interval		1.00	0.97	0.97	0.94	0.94	0.96	0.96	0.97	1.00	1.17	PB	2.94	2.84	2.93
wind	0.1 m/s	velocity	5.20	8.50	8.76	8.76	9.04	9.04	8.85	8.85	8.76	8.50	8.59	8.08	8.67	8.98	8.70

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	4.47	5.44	6.41	7.37	8.34	9.31	10.28	11.27	12.47	8 / 3			
reaction time	0.161	interval		1.03	0.97	0.97	0.97	0.96	0.97	0.97	0.97	0.99	1.20	PB	2.97	2.90	2.93
wind	-0.9 m/s	velocity	5.26	8.25	8.76	8.76	8.76	8.85	8.76	8.76	8.76	8.59	8.37	8.02	8.59	8.79	8.70

FINAL - 2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	30-Jun-22	time	2.53	3.56	4.56	5.63	6.66	7.66	8.66	9.66	10.70	11.73	12.98	3 / 8			
reaction time	0.166	interval		1.03	1.00	1.07	1.03	1.00	1.00	1.00	1.04	1.03	1.25		3.10	3.03	3.07
wind	-0.5 m/s	velocity	5.14	8.25	8.50	7.94	8.25	8.50	8.50	8.50	8.17	8.25	8.04	7.70	8.23	8.42	8.31

FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	25-Jun-22	time	2.60	3.62	4.60	5.58	6.56	7.52	8.49	9.49	10.47	11.48	12.59	4 / 5			
reaction time		interval		1.02	0.98	0.98	0.98	0.96	0.97	1.00	0.98	1.01	1.11		2.98	2.91	2.99
wind	-1.4 m/s	velocity	5.00	8.33	8.67	8.67	8.67	8.85	8.76	8.50	8.67	8.42	9.05	7.94	8.56	8.76	8.53

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	2.53	3.53	4.53	5.50	6.47	7.43	8.40	9.35	10.33	11.35	12.53	6 / 2			
reaction time	0.161	interval		1.00	1.00	0.97	0.97	0.96	0.97	0.95	0.98	1.02	1.18	PB	2.97	2.90	2.95
wind	2.0 m/s	velocity	5.14	8.50	8.50	8.76	8.76	8.85	8.76	8.95	8.67	8.33	8.52	7.98	8.59	8.79	8.64

FINAL - 2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date	03-Jun-22	time	2.56	3.60	4.60	5.58	6.54	7.52	8.52	9.52	10.56	11.60	12.79	5 / 1			
reaction time		interval		1.04	1.00	0.98	0.96	0.98	1.00	1.00	1.04	1.04	1.19		3.02	2.94	3.08
wind	0.2 m/s	velocity	5.08	8.17	8.50	8.67	8.85	8.67	8.50	8.50	8.17	8.17	8.45	7.82	8.44	8.67	8.28

FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date	22-Apr-22	time	2.58	3.63	4.63	5.61	6.57	7.54	8.51	9.47	10.47	11.47	12.59	9 / 3			
reaction time		interval		1.05	1.00	0.98	0.96	0.97	0.97	0.96	1.00	1.00	1.12	PB	3.03	2.90	2.96
wind	0.8 m/s	velocity	5.04	8.10	8.50	8.67	8.85	8.76	8.76	8.85	8.50	8.50	8.97	7.94	8.42	8.79	8.61

Heat 1 - 2020 USATF Indoor National Championships (Albuquerque, NM) (Altitude)*CAA Hurdle Development (2020)*

date	15-Feb-20	time	2.60	3.63	4.65	5.64	6.62						7.96	3 / 1			
reaction time	0.162	interval		1.03	1.02	0.99	0.98						1.34	PB	3.04		
		velocity	5.00	8.25	8.33	8.59	8.67						9.70	7.54	8.39		

FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)*Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	15-Jul-18	time	2.59	3.64	4.67	5.67	6.66	7.67	8.69	9.71	10.76	11.83	13.01	5 / 1			
reaction time	0.161	interval		1.05	1.03	1.00	0.99	1.01	1.02	1.02	1.05	1.07	1.18		3.08	3.02	3.14
wind	-1.0 m/s	velocity	5.02	8.10	8.25	8.50	8.59	8.42	8.33	8.33	8.10	7.94	8.90	7.69	8.28	8.44	8.12

Joshita, Rena (JPN) (1986)**FINAL - 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	2.49	3.57	4.63	5.68	6.72	7.76	8.80	9.84	10.90	11.97	13.26	6 / 3			
reaction time		interval		1.08	1.06	1.05	1.04	1.04	1.04	1.04	1.06	1.07	1.29	PB	3.19	3.12	3.17
wind	1.9 m/s	velocity	5.22	7.87	8.02	8.10	8.17	8.17	8.17	8.17	8.02	7.94	8.14	7.54	7.99	8.17	8.04

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	2.46	3.54	4.62	5.68	6.74	7.80	8.87	9.94	11.04	12.13		13.53	/ 2				
reaction time		interval		1.08	1.08	1.06	1.06	1.06	1.07	1.07	1.10	1.09	1.40			3.22	3.19	3.26	
wind	-1.5 m/s	velocity	5.28	7.87	7.87	8.02	8.02	8.02	7.94	7.94	7.73	7.80	7.50	7.39		7.92	7.99	7.82	
Juhász, Fanni (HUN) (1981)			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	2.77	3.90	4.98	6.07	7.16	8.27	9.40	10.55	11.72	12.91		14.25	/ 5				
reaction time		interval		1.13	1.08	1.09	1.09	1.11	1.13	1.15	1.17	1.19	1.34			3.30	3.33	3.51	
wind	0.8 m/s	velocity	4.69	7.52	7.87	7.80	7.80	7.66	7.52	7.39	7.26	7.14	7.84	7.02		7.73	7.66	7.26	
Jung, Caren (GER) (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 1 - 1996 German National Championships (Köln, GER)																<i>Hommel (2007) - Sprinttechnik beobachten und analysieren! P.71</i>			????
date	23-Jun-96	time	2.60	3.62	4.64	5.64	6.66	7.68	8.70	9.74	10.82	11.88		13.05	/ 1				
reaction time		interval		1.02	1.02	1.00	1.02	1.02	1.02	1.04	1.08	1.06	1.17	=PB ????		3.04	3.06	3.18	
wind	???	velocity	5.00	8.33	8.33	8.50	8.33	8.33	8.33	8.17	7.87	8.02	8.97	7.66		8.39	8.33	8.02	
Jung Hye-Lim (KOR) (1987)			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)																<i>CAA Hurdle Development (2019)</i>			
date	24-Apr-19	time	2.62	3.69	4.73	5.77	6.82	7.89	8.96	10.04	11.14	12.24		13.50	2 / 7				
reaction time	0.136	interval		1.07	1.04	1.04	1.05	1.07	1.07	1.08	1.10	1.10	1.26			3.15	3.19	3.28	
wind	1.3 m/s	velocity	4.96	7.94	8.17	8.17	8.10	7.94	7.94	7.87	7.73	7.73	8.33	7.41		8.10	7.99	7.77	
FINAL - 2018 Fuse Sprint (Tottori, JPN)																<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	03-Jun-18	time	2.58	3.64	4.65	5.68	6.69	7.72	8.75	9.78	10.83	11.89		13.11	/ 1				
reaction time		interval		1.06	1.01	1.03	1.01	1.03	1.03	1.03	1.05	1.06	1.22			3.10	3.07	3.14	
wind	0.6 m/s	velocity	5.04	8.02	8.42	8.25	8.42	8.25	8.25	8.25	8.10	8.02	8.61	7.63		8.23	8.31	8.12	
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)																<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	20-May-18	time	2.62	3.65	4.68	5.68	6.70	7.72	8.76	9.79	10.86	11.92		13.13	8 / 2				
reaction time	0.152	interval		1.03	1.03	1.00	1.02	1.02	1.04	1.03	1.07	1.06	1.21			3.06	3.08	3.16	
wind	-0.6 m/s	velocity	4.96	8.25	8.25	8.50	8.33	8.33	8.17	8.25	7.94	8.02	8.68	7.62		8.33	8.28	8.07	
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)																<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	06-May-18	time	2.67	3.71	4.75	5.77	6.81	7.84	8.88	9.93	11.00	12.09		13.23	4 / 1				
reaction time		interval		1.04	1.04	1.02	1.04	1.03	1.04	1.05	1.07	1.09	1.14			3.10	3.11	3.21	
wind	-0.5 m/s	velocity	4.87	8.17	8.17	8.33	8.17	8.25	8.17	8.10	7.94	7.80	9.21	7.56		8.23	8.20	7.94	
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)																<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	29-Apr-18	time	2.61	3.66	4.69	5.71	6.74	7.76	8.84	9.88	10.97	12.09		13.33	5 / 6				
reaction time		interval		1.05	1.03	1.02	1.03	1.02	1.08	1.04	1.09	1.12	1.24			3.10	3.13	3.25	
wind	3.6 m/s	velocity	4.98	8.10	8.25	8.33	8.25	8.33	7.87	8.17	7.80	7.59	8.47	7.50		8.23	8.15	7.85	
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)																<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>			
date	07-May-17	time	2.60	3.66	4.69	5.72	6.75	7.79	8.84	9.88	10.94	12.05		13.27	4 / 3				
reaction time		interval		1.06	1.03	1.03	1.03	1.04	1.05	1.04	1.06	1.11	1.22			3.12	3.12	3.21	
wind	-0.2 m/s	velocity	5.00	8.02	8.25	8.25	8.25	8.17	8.10	8.17	8.02	7.66	8.61	7.54		8.17	8.17	7.94	
FINAL - 2017 Michitaka Memorial (Osaka, JPN)																<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>			
date	07-May-17	time	2.62	3.67	4.70	5.73	6.75	7.77	8.81	9.88	10.95	12.04		13.24	6 / 1				
reaction time		interval		1.05	1.03	1.03	1.02	1.02	1.04	1.07	1.07	1.09	1.20			3.11	3.08	3.23	
wind	-0.6 m/s	velocity	4.96	8.10	8.25	8.25	8.33	8.33	8.17	7.94	7.94	7.80	8.75	7.55		8.20	8.28	7.89	
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)																<i>(2017) - tfdata-store.com/2017/05/01/458/</i>			
date	29-Apr-17	time	2.64	3.73	4.80	5.86	6.90	7.92	8.96	10.00	11.06	12.12		13.33	6 / 3				
reaction time		interval		1.09	1.07	1.06	1.04	1.02	1.04	1.04	1.06	1.06	1.21			3.22	3.10	3.16	
wind	2.0 m/s	velocity	4.92	7.80	7.94	8.02	8.17	8.33	8.17	8.17	8.02	8.02	8.68	7.50		7.92	8.23	8.07	
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	2.62	3.69	4.73	5.75	6.77	7.79	8.82	9.88	10.94	12.00		13.20	6 / 1				
reaction time		interval		1.07	1.04	1.02	1.02	1.02	1.03	1.06	1.06	1.06	1.20			3.13	3.07	3.18	
wind	1.1 m/s	velocity	4.96	7.94	8.17	8.33	8.33	8.33	8.25	8.02	8.02	8.02	8.75	7.58		8.15	8.31	8.02	
Heat 2 - 2011 IAAF World Championships (Daegu, KOR)																<i>KSSB (2011) - biomechanical analysis of women's 100m hurdle</i>			
date	02-Sep-11	time	2.65	3.70	4.76	5.81	6.85	7.91	8.97	10.03	11.12	12.21		13.39	5 / 7				
reaction time	0.139	interval		1.05	1.06	1.05	1.04	1.06	1.06	1.06	1.09	1.09	1.18			3.16	3.16	3.24	
wind	-0.6 m/s	velocity	4.91	8.10	8.02	8.10	8.17	8.02	8.02	8.02	7.80	7.80	8.90	7.47		8.07	8.07	7.87	
Kabayashi, Sayaka (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 - 2019 Mikio Oda Memorial (Hiroshima, JPN)																<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>			
date	28-Apr-19	time	2.72	3.84	4.93	6.01	7.09	8.17	9.26	10.37	11.49	12.63		13.91	6 / 5				
reaction time		interval		1.12	1.09	1.08	1.08	1.08	1.09	1.11	1.12	1.14	1.28			3.29	3.25	3.37	
wind	1.3 m/s	velocity	4.78	7.59	7.80	7.87	7.87	7.87	7.80	7.66	7.59	7.46	8.20	7.19		7.75	7.85	7.57	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kaftandjan, Isabelle (FRA) (1964)																	
FINAL - 1986 French National Indoor Championships (Lievin, FRA)																	
date		26-Jan-86	time	2.66	3.72	4.78	5.81	6.84									
reaction time			interval	1.06	1.06	1.03	1.03				1.40				3.15		
			velocity	4.89	8.02	8.02	8.25	8.25				9.29	7.28		8.10		
													8.24	/ 4			
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)																	
date		25-Jan-86	time	2.69	3.76	4.83	5.85	6.90									
reaction time			interval	1.07	1.07	1.02	1.05				1.40				3.16		
			velocity	4.83	7.94	7.94	8.33	8.10				9.29	7.23		8.07		
													8.30	/ 1			
Heat ? - 1986 French National Indoor Championships (Lievin, FRA)																	
date		25-Jan-86	time	2.68	3.77	4.78	5.83	6.87									
reaction time			interval	1.09	1.01	1.05	1.04				1.43				3.15		
			velocity	4.85	7.80	8.42	8.10	8.17				9.09	7.23		8.10		
													8.30	/ 1			
Kalek, Lucyna (POL) (1956)																	
FINAL - 1982 European Championships (Athens, GRE)																	
date		09-Sep-82	time	2.55		4.56	6.50	8.42				11.37					
reaction time			interval			2.01	1.94	1.92				2.95	1.08				2.95
wind		1.5 m/s	velocity	5.10		8.46	8.76	8.85				8.64	9.72	8.03			8.64
FINAL - 1982 ASV Weltklasse (Köln, FRG)																	
date		22-Aug-82	time	2.60	3.62	4.59	5.55	6.52	7.49	8.45	9.44	10.42	11.44				
reaction time			interval	1.02	0.97	0.96	0.97	0.97	0.96	0.99	0.98	1.02	1.11			2.95	2.90
wind		0.2 m/s	velocity	5.00	8.33	8.76	8.85	8.76	8.76	8.85	8.59	8.67	8.33	9.46	7.97	8.64	8.79
Kälin, Annik (SUI) (2000)																	
Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)																	
date		08-Aug-24	time	2.46	3.52	4.54	5.54	6.53	7.53	8.53	9.55	10.57	11.61				
reaction time		0.155	interval	1.06	1.02	1.00	0.99	1.00	1.00	1.02	1.02	1.04	1.26			3.08	2.99
wind		-0.1 m/s	velocity	5.28	8.02	8.33	8.50	8.59	8.50	8.50	8.33	8.33	8.17	7.98	7.77	8.28	8.53
Heptathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																	
date		19-Aug-23	time	2.55	3.60	4.65	5.68	6.71	7.75	8.80	9.88	10.95	12.08				
reaction time		0.169	interval	1.05	1.05	1.03	1.03	1.04	1.05	1.08	1.07	1.13	1.28			3.13	3.12
wind		-0.2 m/s	velocity	5.10	8.10	8.10	8.25	8.25	8.17	8.10	7.87	7.94	7.52	7.85	7.49	8.15	8.17
Heptathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																	
date		17-Jul-22	time	2.56	3.62	4.64	5.66	6.70	7.73	8.75	9.80	10.83	11.94				
reaction time		0.162	interval	1.06	1.02	1.02	1.04	1.03	1.02	1.05	1.03	1.11	1.23			3.10	3.09
wind		0.7 m/s	velocity	5.08	8.02	8.33	8.33	8.17	8.25	8.33	8.10	8.25	7.66	8.17	7.59	8.23	8.25
Kallur, Susanna (SWE) (1981)																	
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)																	
date		09-Sep-16	time	2.52	3.56	4.56	5.56	6.56	7.58	8.58	9.62	10.68	11.76				
reaction time		0.144	interval	1.04	1.00	1.00	1.00	1.02	1.00	1.04	1.06	1.08	1.26			3.04	3.02
wind		0.1 m/s	velocity	5.16	8.17	8.50	8.50	8.50	8.33	8.50	8.17	8.02	7.87	8.33	7.68	8.39	8.44
FINAL - 2016 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)																	
date		16-Jun-16	time	2.48	3.50	4.53	5.50	6.50	7.50	8.52	9.54	10.57	11.64				
reaction time		0.163	interval	1.02	1.03	0.97	1.00	1.00	1.02	1.02	1.03	1.07	1.36			3.02	3.02
wind		-0.4 m/s	velocity	5.24	8.33	8.25	8.76	8.50	8.50	8.33	8.33	8.25	7.94	7.72	7.69	8.44	8.44
FINAL - 2008 ISTAF (Berlin, GER) (TV Analysis)																	
date		01-Jun-08	time	2.58	3.57	4.55	5.52	6.49	7.46	8.42	9.40	10.41	11.44				
reaction time		0.203	interval	0.99	0.98	0.97	0.97	0.97	0.96	0.98	1.01	1.03	1.10			2.94	2.90
wind		0.8 m/s	velocity	5.04	8.59	8.67	8.76	8.76	8.76	8.85	8.67	8.42	8.25	9.55	7.97	8.67	8.79
FINAL - 2008 BW-Bank (Karlsruhe, GER)																	
date		10-Feb-08	time	2.42	3.40	4.36	5.32	6.26									
reaction time			interval	0.98	0.96	0.96	0.94				1.42				2.90		
			velocity	5.37	8.67	8.85	8.85	9.04				9.15	7.81		8.79		
FINAL - 2007 ISTAF (Berlin, GER) (TV Analysis)																	
date		16-Sep-07	time	2.51	3.51	4.49	5.46	6.42	7.37	8.33	9.32	10.33	11.35				
reaction time		0.153	interval	1.00	0.98	0.97	0.96	0.95	0.96	0.99	1.01	1.02	1.14			2.95	2.87
wind		0.9 m/s	velocity	5.18	8.50	8.67	8.76	8.85	8.95	8.85	8.59	8.42	8.33	9.21	8.01	8.64	8.89
FINAL - 2007 IAAF World Championships (Osaka, JPN) (TV Analysis)																	
date		29-Aug-07	time	2.54	3.53	4.50	5.48	6.43	7.40	8.36	9.34	10.34	11.38				
reaction time		0.142	interval	0.99	0.97	0.98	0.95	0.97	0.96	0.98	1.00	1.04	1.13			2.94	2.88
wind		-0.1 m/s	velocity	5.12	8.59	8.76	8.67	8.95	8.76	8.85	8.67	8.50	8.17	9.29	7.99	8.67	8.85

FINAL - 2006 European Championships (Göteborg, SWE) (TV Analysis)Graubner (2008) - <http://www.fgs.uni-halle.de>

date	11-Aug-06	time	2.57	3.58	4.57	5.54	6.49	7.45	8.43	9.41	10.41	11.44		12.59	/ 1				
reaction time	0.171	interval		1.01	0.99	0.97	0.95	0.96	0.98	0.98	1.00	1.03	1.15			2.97	2.89	3.01	
wind	0.5 m/s	velocity	5.06	8.42	8.59	8.76	8.95	8.85	8.67	8.67	8.50	8.25	9.13	7.94		8.59	8.82	8.47	

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

date	09-Aug-02	time	2.64	3.70	4.72	5.72	6.74	7.76	8.80	9.84	10.90	11.98		13.09	/ 7				
reaction time	0.153	interval		1.06	1.02	1.00	1.02	1.02	1.04	1.04	1.06	1.08	1.11			3.08	3.08	3.18	
wind	-0.7 m/s	velocity	4.92	8.02	8.33	8.50	8.33	8.33	8.17	8.17	8.02	7.87	9.46	7.64		8.28	8.28	8.02	

Heat 2 - 2002 European Championships (Munich, GER)Graubner (2009) - <http://www.fgs.uni-halle.de>

date	08-Aug-02	time	2.68	3.72	4.74	5.77	6.77	7.79	8.81	9.83	10.85	11.91		13.01	/ 1				
reaction time	0.160	interval		1.04	1.02	1.03	1.00	1.02	1.02	1.02	1.02	1.06	1.10			3.09	3.04	3.10	
wind	0.0 m/s	velocity	4.85	8.17	8.33	8.25	8.50	8.33	8.33	8.33	8.33	8.02	9.55	7.69		8.25	8.39	8.23	

Kamada, Saki (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 Michtaka Kinami Memorial (Osaka, JPN)**

Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season

date	01-May-22	time	2.67	3.75	4.83	5.86	6.97	8.05	9.17	10.26	11.37	12.51		13.76	9 / 7				
reaction time	0.144	interval		1.08	1.08	1.03	1.11	1.08	1.12	1.09	1.11	1.14	1.25			3.19	3.31	3.34	
wind	-0.6 m/s	velocity	4.87	7.87	7.87	8.25	7.66	7.87	7.59	7.80	7.66	7.46	8.04	7.27		7.99	7.70	7.63	

Race 2 - 2020 World Athletics Trials (Fuji, JPN)

Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers

date	06-Sep-20	time	2.70	3.80	4.90	5.98	7.03	8.11	9.20	10.29	11.41	12.54		13.80	/ 6				
reaction time		interval		1.10	1.10	1.08	1.05	1.08	1.09	1.09	1.12	1.13	1.26			3.28	3.22	3.34	
wind	1.3 m/s	velocity	4.81	7.73	7.73	7.87	8.10	7.87	7.80	7.80	7.59	7.52	7.98	7.25		7.77	7.92	7.63	

Heat 6 - 2016 Japanese National Junior Championships (Mizuho, JPN)(2016.11.03) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	21-Oct-16	time	2.73	3.86	4.98	6.07	7.17	8.25	9.36	10.48	11.61	12.76		14.04	3 / 4				
reaction time		interval		1.13	1.12	1.09	1.10	1.08	1.11	1.12	1.13	1.15	1.28			3.34	3.29	3.40	
wind	2.1 m/s	velocity	4.76	7.08	7.14	7.34	7.27	7.41	7.21	7.14	7.08	6.96	11.72	7.12		7.19	7.29	7.06	

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)

Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics data

date	02-Aug-15	time	2.75	3.86	4.97	6.06	7.14	8.24	9.34	10.43	11.59	12.74		13.98	3 / 3				
reaction time		interval		1.11	1.11	1.09	1.08	1.10	1.10	1.09	1.16	1.15	1.24			3.31	3.28	3.40	
wind	0.9 m/s	velocity	4.73	7.66	7.66	7.80	7.87	7.73	7.73	7.80	7.33	7.39	8.47	7.15		7.70	7.77	7.50	

Kamani, Nzingah (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 - 1996 USATF National Junior Championships (Delaware, OH)**

USATF Women's Sprint Development (1996)

date	29-Jun-96	time	2.67	3.80	4.98										dnf	1 / --			
reaction time		interval		1.13	1.18														
wind	-2.5 m/s	velocity	4.87	7.52	7.20														

Kambundji, Ditaji (SUI) (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	2.49	3.55	4.57	5.57	6.56	7.56	8.56	9.58	10.62	11.67		12.98	8 / 9				no official time given
reaction time	0.097	interval		1.06	1.02	1.00	0.99	1.00	1.00	1.02	1.04	1.05	1.31	DQ		3.08	2.99	3.11	
wind	0.8 m/s	velocity	5.22	8.02	8.33	8.50	8.59	8.50	8.50	8.33	8.17	8.10	7.67	7.70		8.28	8.53	8.20	

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

Omega Timing (2024) - diamond league race analysis

date	30-Aug-24	time	2.43	3.47	4.48	5.48	6.45	7.43	8.43	9.44	10.47	11.50		12.78	8 / 7				
reaction time	0.119	interval		1.04	1.01	1.00	0.97	0.98	1.00	1.01	1.03	1.03	1.28			3.05	2.95	3.07	
wind	-0.4 m/s	velocity	5.35	8.17	8.42	8.50	8.76	8.67	8.50	8.42	8.25	8.25	7.85	7.82		8.36	8.64	8.31	

FINAL - 2024 Athletissima (Lausanne, SUI)

Omega Timing (2024) - diamond league race analysis

date	22-Aug-24	time	2.43	3.46	4.46	5.45	6.43	7.42	8.41	9.41	10.42	11.46		12.75	2 / 8				
reaction time	0.146	interval		1.03	1.00	0.99	0.98	0.99	0.99	1.00	1.01	1.04	1.29			3.02	2.96	3.05	
wind	-0.9 m/s	velocity	5.35	8.25	8.50	8.59	8.67	8.59	8.59	8.50	8.42	8.17	7.79	7.84		8.44	8.61	8.36	

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

Paris 2024 Olympic Games - Results Book (2024)

date	09-Aug-24	time	2.42	3.46	4.45	5.43	6.41	7.40	8.38	9.38	10.39	11.42		12.68	6 / 5				
reaction time	0.141	interval		1.04	0.99	0.98	0.98	0.99	0.98	1.00	1.01	1.03	1.26			3.01	2.95	3.04	
wind	0.4 m/s	velocity	5.37	8.17	8.59	8.67	8.67	8.59	8.67	8.50	8.42	8.25	7.98	7.89		8.47	8.64	8.39	

Heat 4 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time		3.50	4.52	5.52	6.51	7.50	8.49	9.50	10.51	11.54		12.81	2 / 3				
reaction time	0.150	interval			1.02	1.00	0.99	0.99	0.99	1.01	1.01	1.03	1.27					2.97	3.05
wind	0.0 m/s	velocity		6.14	8.33	8.50	8.59	8.59	8.59	8.42	8.42	8.25	7.91	7.81				8.59	8.36

FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)

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

date	08-Jun-24	time	2.52	3.52	4.49	5.46	6.43	7.35	8.32	9.26	10.25	11.28		12.40	8 / 2				
reaction time	0.159	interval		1.00	0.97	0.97	0.97	0.92	0.97	0.94	0.99	1.03	1.12	NR PB		2.94	2.86	2.96	
wind	0.8 m/s	velocity	5.16	8.50	8.76	8.76	8.76	9.24	8.76	9.04	8.59	8.25	8.97	8.06		8.67	8.92	8.61	

FINAL - 2024 Seashore Doha Meeting (Doha, QAT) (TV Analysis)

date	10-May-24	time	2.56	3.57	4.57	5.55	6.51	7.48	8.43	9.40	10.38	11.40	12.49	7 / 1			
reaction time	0.127	interval		1.01	1.00	0.98	0.96	0.97	0.95	0.97	0.98	1.02	1.09	2.99	2.88	2.97	
wind	1.7 m/s	velocity	5.08	8.42	8.50	8.67	8.85	8.76	8.95	8.76	8.67	8.33	9.22	8.01	8.53	8.85	8.59

*Henson (2024) - Athlete First: 2024 year end hurdle report***FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)**

date	27-Apr-24	time	2.55	3.61	4.61	5.59	6.57	7.55	8.54	9.54	10.56	11.62	12.81	2 / 7-6			
reaction time	0.137	interval		1.06	1.00	0.98	0.98	0.98	0.99	1.00	1.02	1.06	1.19	3.04	2.95	3.08	
wind	0.3 m/s	velocity	5.10	8.02	8.50	8.67	8.67	8.67	8.59	8.50	8.33	8.02	8.45	7.81	8.39	8.64	8.28

*Henson (2024) - Athlete First: 2024 year end hurdle report***FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)**

date	20-Apr-24	time	2.48	3.51	4.53	5.51	6.50	7.47	8.45	9.43	10.42	11.44	12.70	2 / 7			
reaction time	0.152	interval		1.03	1.02	0.98	0.99	0.97	0.98	0.98	0.99	1.02	1.26	3.03	2.94	2.99	
wind	-0.2 m/s	velocity	5.24	8.25	8.33	8.67	8.59	8.76	8.67	8.67	8.59	8.33	7.98	7.87	8.42	8.67	8.53

*Omega Timing (2024) - diamond league race analysis***FINAL - 2023 Weltklasse (Zürich, SUI)**

date	31-Aug-23	time	2.44	3.48	4.47	5.44	6.42	7.40	8.38	9.37	10.39	11.45	12.73	2 / 6			
reaction time	0.122	interval		1.04	0.99	0.97	0.98	0.98	0.98	0.99	1.02	1.06	1.28	3.00	2.94	3.07	
wind	-0.2 m/s	velocity	5.33	8.17	8.59	8.76	8.67	8.67	8.67	8.59	8.33	8.02	7.85	7.86	8.50	8.67	8.31

*Omega Timing (2023) - diamond league race analysis***FINAL - 2023 World Athletics Championships (Budapest, HUN)**

date	24-Aug-23	time	2.58	3.60	4.60	5.59	6.57	7.56	8.55	9.57	10.57	11.59	12.70	9 / 7			
reaction time	0.140	interval		1.02	1.00	0.99	0.98	0.99	0.99	1.02	1.00	1.02	1.11	3.01	2.96	3.04	
wind	-0.2 m/s	velocity	5.04	8.33	8.50	8.59	8.67	8.59	8.59	8.33	8.50	8.33	9.05	7.87	8.47	8.61	8.39

*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season***Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)**

date	23-Aug-23	time	2.53	3.53	4.51	5.47	6.45	7.42	8.40	9.37	10.35	11.37	12.50	3 / 3			
reaction time	0.141	interval		1.00	0.98	0.96	0.98	0.97	0.98	0.97	0.98	1.02	1.13	2.94	2.93	2.97	
wind	0.5 m/s	velocity	5.14	8.50	8.67	8.85	8.67	8.76	8.67	8.76	8.67	8.33	8.89	8.00	8.67	8.70	8.59

*Henson (2023) - Athlete First: 2023 year end hurdle report***Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)**

date	22-Aug-23	time	2.55	3.55	4.55	5.56	6.54	7.52	8.50	9.52	10.53	11.56	12.71	2 / 3			
reaction time	0.145	interval		1.00	1.00	1.01	0.98	0.98	0.98	1.02	1.01	1.03	1.15	3.01	2.94	3.06	
wind	0.0 m/s	velocity	5.10	8.50	8.50	8.42	8.67	8.67	8.67	8.33	8.42	8.25	8.74	7.87	8.47	8.67	8.33

*Henson (2023) - Athlete First: 2023 year end hurdle report***FINAL - 2023 Athletissima (Lausanne, SUI)**

date	30-Jun-23	time	2.43	3.47	4.48	5.47	6.46	7.45	8.44	9.45	10.47	11.50	12.83	7 / 5			
reaction time	0.142	interval		1.04	1.01	0.99	0.99	0.99	1.01	1.02	1.03	1.33		3.04	2.97	3.06	
wind	-1.4 m/s	velocity	5.35	8.17	8.42	8.59	8.59	8.59	8.59	8.42	8.33	8.25	7.56	7.79	8.39	8.59	8.33

*Omega Timing (2023) - diamond league race analysis***FINAL - 2023 FBK Games (Hengelo, NED)**

date	04-Jun-23	time	2.41	3.45	4.45	5.44	6.42	7.41	8.40	9.40	10.43	11.47	12.78	7 / 3			
reaction time	0.134	interval		1.04	1.00	0.99	0.98	0.99	0.99	1.00	1.03	1.04	1.31	3.03	2.96	3.07	
wind	0.2 m/s	velocity	5.39	8.17	8.50	8.59	8.67	8.59	8.59	8.50	8.25	8.17	7.67	7.82	8.42	8.61	8.31

*Omega Timing (2023) - continental tour race analysis***FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)**

date	08-Sep-22	time	2.57	3.60	4.64	5.67	6.67	7.67	8.67	9.71	10.81	11.94	13.22	1 / 9			
reaction time	0.161	interval		1.03	1.04	1.03	1.00	1.00	1.00	1.04	1.10	1.13	1.28	3.10	3.00	3.27	
wind	-0.3 m/s	velocity	5.06	8.25	8.17	8.25	8.50	8.50	8.50	8.17	7.73	7.52	7.85	7.56	8.23	8.50	7.80

*Henson (2022) - Athlete First: 2022 year end hurdle report***FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)**

date	26-Aug-22	time	2.50	3.50	4.50	5.50	6.51	7.51	8.51	9.54	10.57	11.63	12.83	2 / 8			
reaction time	0.129	interval		1.00	1.00	1.00	1.01	1.00	1.00	1.03	1.03	1.06	1.20	3.00	3.01	3.12	
wind	-0.9 m/s	velocity	5.20	8.50	8.50	8.50	8.42	8.50	8.50	8.25	8.25	8.02	8.38	7.79	8.50	8.47	8.17

*Henson (2022) - Athlete First: 2022 year end hurdle report***FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)**

date	21-Aug-22	time	2.56	3.58	4.57	5.56	6.55	7.54	8.53	9.52	10.52	11.57	12.74	8 / 3			
reaction time	0.169	interval		1.02	0.99	0.99	0.99	0.99	0.99	0.99	1.00	1.05	1.17	3.00	2.97	3.04	
wind	-0.1 m/s	velocity	5.08	8.33	8.59	8.59	8.59	8.59	8.59	8.59	8.50	8.10	8.59	7.85	8.50	8.59	8.39

*Henson (2022) - Athlete First: 2022 year end hurdle report***Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)**

date	24-Jul-22	time	2.52	3.52	4.50	5.48	6.48	7.48	8.45	9.45	10.48	11.53	12.70	2 / 6			
reaction time	0.134	interval		1.00	0.98	0.98	1.00	1.00	0.97	1.00	1.03	1.05	1.17	PB	2.96	2.97	3.08
wind	0.9 m/s	velocity	5.16	8.50	8.67	8.67	8.50	8.50	8.76	8.50	8.25	8.10	8.59	7.87	8.61	8.59	8.28

*Henson (2022) - Athlete First: 2022 year end hurdle report***Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)**

date	23-Jul-22	time	2.50	3.53	4.55	5.57	6.63	7.66	8.66	9.70	10.83	11.90	13.12	7 / 5			
reaction time	0.137	interval		1.03	1.02	1.02	1.06	1.03	1.00	1.04	1.13	1.07	1.22	3.07	3.09	3.24	
wind	1.5 m/s	velocity	5.20	8.25	8.33	8.33	8.02	8.25	8.50	8.17	7.52	7.94	8.24	7.62	8.31	8.25	7.87

*Henson (2022) - Athlete First: 2022 year end hurdle report***FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)**

date	18-Jun-22	time	2.48	3.52	4.54	5.54	6.55	7.57	8.58	9.61	10.64	11.68	12.90	1 / 6
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Henson (2022) - Athlete First: 2022 year end hurdle report

reaction time	0.145	interval	1.04	1.02	1.00	1.01	1.02	1.01	1.03	1.03	1.04	1.22			3.06	3.04	3.10
wind	-0.4 m/s	velocity	5.24	8.17	8.33	8.50	8.42	8.33	8.42	8.25	8.25	8.17	8.24	7.75	8.33	8.39	8.23

FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	19-Mar-22	time	2.44	3.46											dnf	8 / --	
reaction time	0.108	interval		1.02													
		velocity	5.33	8.33													

FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	09-Sep-21	time	2.50	3.54	4.58	5.58	6.60	7.60	8.60	9.66	10.70	11.74		13.01		9 / 8	
reaction time	0.142	interval		1.04	1.04	1.00	1.02	1.00	1.00	1.06	1.04	1.04	1.27				3.08
wind	0.4 m/s	velocity	5.20	8.17	8.17	8.50	8.33	8.50	8.50	8.02	8.17	8.17	7.91	7.69			8.28

Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	31-Jul-21	time	2.52	3.56	4.62	5.67	6.72	7.76	8.79	9.88	10.95	12.04		13.17		7 / 8	
reaction time	0.138	interval		1.04	1.06	1.05	1.05	1.04	1.03	1.09	1.07	1.09	1.13				3.15
wind	0.3 m/s	velocity	5.16	8.17	8.02	8.10	8.10	8.17	8.25	7.80	7.94	7.80	8.89	7.59			8.10

FINAL - 2020 Galà dei Castelli (Bellinzona, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	15-Sep-20	time	2.64	3.70	4.76	5.80	6.84	7.86	8.90	9.96	11.06	12.16		13.36		3 / 5	
reaction time		interval		1.06	1.06	1.04	1.04	1.02	1.04	1.06	1.10	1.10	1.20				3.16
wind	0.0 m/s	velocity	4.92	8.02	8.02	8.17	8.17	8.33	8.17	8.02	7.73	7.73	8.38	7.49			8.07

Kamizono, Miyu (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	2.62	3.70	4.77	5.83	6.89	7.96	9.02	10.11	11.20	12.33		13.53		8 / 2	
reaction time	0.141	interval		1.08	1.07	1.06	1.06	1.07	1.06	1.09	1.09	1.13	1.20	PB			3.21
wind	1.0 m/s	velocity	4.96	7.87	7.94	8.02	8.02	7.94	8.02	7.80	7.80	7.52	8.38	7.39			7.94

Kanai, Marumi (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 Michitaka Kinami Memorial (Osaka, JPN)***Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	24-Oct-20	time	2.64	3.74	4.81	5.88	6.97	8.07	9.17	10.27	11.37	12.47		13.63		5 / 4	
reaction time		interval		1.10	1.07	1.07	1.09	1.10	1.10	1.10	1.10	1.10	1.16				3.24
wind	-1.4 m/s	velocity	4.92	7.73	7.94	7.94	7.80	7.73	7.73	7.73	7.73	7.73	8.66	7.34			7.87

FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	20-Sep-20	time	2.70	3.80	4.90	5.98	7.03	8.11	9.20	10.29	11.41	12.54		13.58		8 / 6	
reaction time	0.139	interval		1.10	1.10	1.08	1.05	1.08	1.09	1.09	1.12	1.13	1.04				3.28
wind	0.0 m/s	velocity	4.81	7.73	7.73	7.87	8.10	7.87	7.80	7.80	7.59	7.52	9.66	7.36			7.77

FINAL - 2019 Kinami Memorial (Osaka, JPN)*Matsubayashi (2019) - research on athlete performance and technique- 2019 data book*

date	06-May-19	time	2.75	3.85	4.96	6.04	7.11	8.19	9.27	10.36	11.47	12.58		13.74		8 / 8	
reaction time		interval		1.10	1.11	1.08	1.07	1.08	1.08	1.09	1.11	1.11	1.16				3.29
wind	0.6 m/s	velocity	4.73	7.73	7.66	7.87	7.94	7.87	7.87	7.80	7.66	7.66	9.05	7.28			7.75

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)*Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics data*

date	02-Aug-15	time	2.71	3.85	4.97	6.09	7.20	8.29	9.42	10.54	11.67	12.81		14.03		8 / 5	
reaction time		interval		1.14	1.12	1.12	1.11	1.09	1.13	1.12	1.13	1.14	1.22	PB			3.38
wind	0.9 m/s	velocity	4.80	7.46	7.59	7.59	7.66	7.80	7.52	7.59	7.52	7.46	8.61	7.13			7.54

Kanazawa, Yvonne (JPN) (1974)**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	2.65	3.70	4.75	5.78	6.81	7.87	8.94	10.01	11.10	12.25		13.59		6 / 9	
reaction time	0.177	interval		1.05	1.05	1.03	1.03	1.06	1.07	1.07	1.09	1.15	1.34				3.13
wind	1.5 m/s	velocity	4.91	8.10	8.10	8.25	8.25	8.02	7.94	7.94	7.80	7.39	7.84	7.36			8.15

Kaneko, Ei (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	2.92	4.13	5.38	6.68	8.02	9.40	10.88	12.30	13.70	15.07		16.49		7 / 4	
reaction time		interval		1.21	1.25	1.30	1.34	1.38	1.48	1.42	1.40	1.37	1.42				3.76
wind	-0.2 m/s	velocity	4.45	7.02	6.80	6.54	6.34	6.16	5.74	5.99	6.07	6.20	7.08	6.06			6.78

Kang Ya (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)***Henson (2017) - coaching observations*

date	04-Sep-17	time	2.70	3.75	4.80	5.82	6.85	7.89	8.94	9.98	11.05	12.15		13.37		5 / 4	
reaction time		interval		1.05	1.05	1.02	1.03	1.04	1.05	1.04	1.07	1.10	1.22				3.12
wind	-0.2 m/s	velocity	4.81	8.10	8.10	8.33	8.25	8.17	8.10	8.17	7.94	7.73	8.61	7.48			8.17

Kariya, Ayu (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	2.65	3.70	4.75	5.81	6.87	7.93	9.01	10.12	11.26	12.40		13.70		7 / 4	
reaction time	0.146	interval		1.05	1.05	1.06	1.06	1.06	1.08	1.11	1.14	1.14	1.30				3.16
wind	1.0 m/s	velocity	4.91	8.10	8.10	8.02	8.02	8.02	7.87	7.66	7.46	7.46	7.73	7.30			8.07

Karlsson, Lovisa (SWE) (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 Bauhaus Galan (Stockholm, SWE) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	23-Aug-20	time	2.70	3.77	4.83	5.90	6.97	8.03	9.13	10.23	11.37	12.50		13.76	5 / 5			
reaction time	0.152	interval		1.07	1.06	1.07	1.06	1.07	1.10	1.10	1.14	1.13	1.26			3.20	3.23	3.37
wind	1.4 m/s	velocity	4.81	7.94	8.02	7.94	7.94	8.02	7.73	7.73	7.46	7.52	7.98	7.27		7.97	7.89	7.57
Kasahara, Riko (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) (76cm)													<i>(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	21-Oct-16	time	2.74	3.86	4.95	6.05	7.14	8.25	9.35	10.47	11.61	12.76		13.98	6 / 2			
reaction time		interval		1.12	1.09	1.10	1.09	1.11	1.10	1.12	1.14	1.15	1.22			3.31	3.30	3.41
wind	0.4 m/s	velocity	4.74	7.14	7.34	7.27	7.34	7.21	7.27	7.14	7.02	6.96	12.30	7.15		7.25	7.27	7.04
Kasova, Yana (BUL) (1981)		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	09-Aug-02	time	2.69	3.72	4.74	5.74	6.72	7.72	8.72	9.74	10.76	11.80		12.91	1 / 3			
reaction time	0.169	interval		1.03	1.02	1.00	0.98	1.00	1.00	1.02	1.02	1.04	1.11			3.05	2.98	3.08
wind	-0.7 m/s	velocity	4.83	8.25	8.33	8.50	8.67	8.50	8.50	8.33	8.33	8.17	9.46	7.75		8.36	8.56	8.28
Heat 3 - 2002 European Championships (Munich, GER)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
date	08-Aug-02	time	2.73	3.74	4.78	5.79	6.80	7.82	8.83	9.85	10.89	11.94		13.07	1 / 2			
reaction time	0.174	interval		1.01	1.04	1.01	1.01	1.02	1.01	1.02	1.04	1.05	1.13			3.06	3.04	3.11
wind	-0.3 m/s	velocity	4.76	8.42	8.17	8.42	8.42	8.33	8.42	8.33	8.17	8.10	9.29	7.65		8.33	8.39	8.20
Kataoka, Saki (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 Kinami Michitaka Memorial (Osaka, JPN)													<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>					
date	06-May-18	time	2.79	3.94	5.06	6.14	7.22	8.30	9.41	10.54	11.68	12.83		14.05	8 / 8			
reaction time		interval		1.15	1.12	1.08	1.08	1.08	1.11	1.13	1.14	1.15	1.22			3.35	3.27	3.42
wind	-0.5 m/s	velocity	4.66	7.39	7.59	7.87	7.87	7.87	7.66	7.52	7.46	7.39	8.61	7.12		7.61	7.80	7.46
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)													<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>					
date	11-May-17	time	2.74	3.88	5.00		7.22	8.33	9.43	10.54	11.67	12.79		14.00	8 / 5			
reaction time		interval		1.14	1.12		2.22	1.11	1.10	1.11	1.13	1.12	1.21					3.36
wind	-1.2 m/s	velocity	4.74	7.46	7.59		7.66	7.66	7.73	7.66	7.52	7.59	8.68	7.14				7.59
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)													<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>					
date	06-Apr-17	time	2.72	3.85	4.98	6.09	7.19	8.28	9.41	10.54	11.66	12.82		14.07	5 / 2			
reaction time		interval		1.13	1.13	1.11	1.10	1.09	1.13	1.13	1.12	1.16	1.25			3.37	3.32	3.41
wind	-1.8 m/s	velocity	4.78	7.52	7.52	7.66	7.73	7.80	7.52	7.52	7.59	7.33	8.40	7.11		7.57	7.68	7.48
Katayama, Hanna (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)													<i>Takashima (2023) - national high school sports festival - biomechanics data</i>					
date	06-Aug-23	time	2.69	3.81	4.87	5.92	6.99	8.06	9.13	10.23	11.32	12.45		13.67	4 / 2			
reaction time	0.174	interval		1.12	1.06	1.05	1.07	1.07	1.10	1.09	1.13	1.22				3.23	3.21	3.32
wind	0.8 m/s	velocity	4.83	7.59	8.02	8.10	7.94	7.94	7.73	7.80	7.52	8.24	7.32			7.89	7.94	7.68
Katayama, Kokona (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 U20 National Championships (Osaka, JPN)													<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>					
date	03-Jun-23	time	2.69	3.77	4.83	5.89	6.93	8.00	9.08	10.16	11.26	12.36		13.58	4 / 1			
reaction time	0.178	interval		1.08	1.06	1.06	1.04	1.07	1.08	1.08	1.10	1.10	1.22			3.20	3.19	3.28
wind	-1.4 m/s	velocity	4.83	7.87	8.02	8.02	8.17	7.94	7.87	7.87	7.73	7.73	8.24	7.36		7.97	7.99	7.77
Kato, Rina (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)													<i>Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis</i>					
date	26-May-24	time	2.85	4.08	5.28	6.52	7.73	9.02	10.28	11.58	12.93	14.30		15.75	8 / 5			
reaction time		interval		1.23	1.20	1.24	1.21	1.29	1.26	1.30	1.35	1.37	1.45			3.67	3.76	4.02
wind	-1.0 m/s	velocity	4.56	6.91	7.08	6.85	7.02	6.59	6.75	6.54	6.30	6.20	6.93	6.35		6.95	6.78	6.34
Kato, Saaya (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)													<i>Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics data</i>					
date	02-Aug-15	time	2.72	3.84	4.97	6.10	7.21	8.35	9.48	10.62	11.78	12.95		14.25	2 / 9			
reaction time		interval		1.12	1.13	1.13	1.11	1.14	1.13	1.14	1.16	1.17	1.30			3.38	3.38	3.47
wind	0.9 m/s	velocity	4.78	7.59	7.52	7.52	7.66	7.46	7.52	7.46	7.33	7.26	8.08	7.02		7.54	7.54	7.35
Kawafune, Manami (JPN) (1988)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
B FINAL - 2008 Miko 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	2.57	3.72	4.84	5.94	7.05	8.17	9.30	10.44	11.59	12.75		14.15	1 / 2			
reaction time		interval		1.15	1.12	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.40			3.37	3.36	3.45
wind	-0.9 m/s	velocity	5.06	7.39	7.59	7.73	7.66	7.59	7.52	7.46	7.39	7.33	7.50	7.07		7.57	7.59	7.39
Kemenchzhi, Mariya (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 - 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	2.52	3.56	4.57	5.58	6.64	7.69	8.74	9.75	10.78	11.82		12.96	1 / 3			

reaction time		interval	1.04	1.01	1.01	1.06	1.05	1.05	1.01	1.03	1.04	1.14			3.06	3.16	3.08	
wind	0.0 m/s	velocity	5.16	8.17	8.42	8.42	8.02	8.10	8.10	8.42	8.25	8.17	9.21	7.72	8.33	8.07	8.28	
Kerekes, Gréta (HUN) (1992)			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	08-Aug-24	time	2.48	3.56	4.60	5.62	6.64	7.67	8.70	9.75	10.81	11.89		13.20	7 / 5			
reaction time	0.123	interval	1.08	1.04	1.02	1.02	1.03	1.03	1.05	1.06	1.08	1.31				3.14	3.08	3.19
wind	0.1 m/s	velocity	5.24	7.87	8.17	8.33	8.33	8.25	8.25	8.10	8.02	7.87	7.67	7.58		8.12	8.28	7.99
Heat 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.50	3.59	4.63	5.72	6.80	7.85	8.90	9.98	11.05	12.15		13.50	5 / 7			
reaction time	0.136	interval	1.09	1.04	1.09	1.08	1.05	1.05	1.08	1.07	1.10	1.35				3.22	3.18	3.25
wind	0.8 m/s	velocity	5.20	7.80	8.17	7.80	7.87	8.10	8.10	7.87	7.94	7.73	7.44	7.41		7.92	8.02	7.85
FINAL - 2022 Gyulai István Memorial (Székesfehérvár, HUN) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	08-Aug-22	time	2.66	3.73	4.83	5.86	6.93	8.00	9.06	10.13	11.23	12.35		13.60	8 / 7			
reaction time	0.140	interval	1.07	1.10	1.03	1.07	1.07	1.06	1.07	1.10	1.12	1.25				3.20	3.20	3.29
wind	2.4 m/s	velocity	4.89	7.94	7.73	8.25	7.94	7.94	8.02	7.94	7.73	7.59	8.04	7.35		7.97	7.97	7.75
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	2.53	3.57	4.64	5.67	6.71	7.74	8.80	9.84	10.88	11.94		13.27	2 / 7			
reaction time	0.121	interval	1.04	1.07	1.03	1.04	1.03	1.06	1.04	1.04	1.06	1.33				3.14	3.13	3.14
wind	-0.2 m/s	velocity	5.14	8.17	7.94	8.25	8.17	8.25	8.02	8.17	8.17	8.02	7.56	7.54		8.12	8.15	8.12
Keskitalo, Saara (FIN) (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 Finnish National Championships (Turku, FIN) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	14-Aug-20	time	2.73	3.86	4.93	6.00	7.06	8.20	9.26	10.36	11.46	12.60		13.87	7 / 8			
reaction time	0.171	interval	1.13	1.07	1.07	1.06	1.14	1.06	1.10	1.10	1.14	1.27				3.27	3.26	3.34
wind	1.0 m/s	velocity	4.76	7.52	7.94	7.94	8.02	7.46	8.02	7.73	7.73	7.46	7.91	7.21		7.80	7.82	7.63
Kiepura, Monika (POL) (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 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	03-Jun-22	time	2.56	3.62	4.66	5.68	6.70	7.74	8.80	9.86	10.90	11.98		13.24	3 / 7			
reaction time	0.152	interval	1.06	1.04	1.02	1.02	1.04	1.06	1.06	1.04	1.08	1.26				3.12	3.12	3.18
wind	0.2 m/s	velocity	5.08	8.02	8.17	8.33	8.33	8.17	8.02	8.02	8.17	7.87	7.98	7.55		8.17	8.17	8.02
Kikuchi, Aika (JPN) (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 Japanese National U18/U20 Championships (Hiroshima, JPN) (76cm)														<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>				
date	18-Oct-19	time	2.73	3.83	4.89	5.95	7.03	8.10	9.17	10.28	11.38	12.51		13.73	4 / 2			
reaction time	0.152	interval	1.10	1.06	1.06	1.08	1.07	1.07	1.11	1.10	1.13	1.22				3.22	3.22	3.34
wind	-0.8 m/s	velocity	4.76	7.73	8.02	8.02	7.87	7.94	7.94	7.66	7.73	7.52	8.61	7.28		7.92	7.92	7.63
Kilborn-Ryan, Pam (AUS) (1939)			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	08-Sep-72	time	2.6	3.6	4.6	5.6	6.6	7.7	8.7	9.7	10.7	11.9		12.98	3 / 4			
reaction time		interval	1.00	1.00	1.00	1.00	1.10	1.00	1.00	1.00	1.20	1.08				3.00	3.10	3.20
wind	0.6 m/s	velocity	5.00	8.50	8.50	8.50	8.50	7.73	8.50	8.50	8.50	7.08	9.72	7.70		8.50	8.23	7.97
Kilborn, Pam (AUS) (1939)			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 - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles)														<i>Breitschaft (1965) - die leichtathletik wettkampe der 1964 olympischen sommerspielen - 80m hürdenlauf</i>				
date	19-Oct-64	time			4.2			7.1						10.6	1 / 1			
reaction time		interval						2.90					3.50	=OR	(10.69)			
wind	???	velocity			6.67			8.28					6.86	9.43				
Kimura, Ayako (JPN) (1988)			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)														<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
date	31-Jul-21	time	2.57	3.62	4.63	5.67	6.70	7.75	8.77	9.82	10.93	12.02		13.25	2 / 7			
reaction time	0.146	interval	1.05	1.01	1.04	1.03	1.05	1.02	1.05	1.11	1.09	1.23				3.10	3.10	3.25
wind	1.0 m/s	velocity	5.06	8.10	8.42	8.17	8.25	8.10	8.33	8.10	7.66	7.80	8.17	7.55		8.23	8.23	7.85
FINAL - 2021 Fuse Sprint (Tottori, JPN)														<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>				
date	06-Jun-21	time	2.59	3.65	4.67	5.68	6.70	7.71	8.74	9.81	10.88	11.97		13.18	5 / 4			
reaction time	0.148	interval	1.06	1.02	1.01	1.02	1.01	1.03	1.07	1.07	1.09	1.21				3.09	3.06	3.23
wind	1.8 m/s	velocity	5.02	8.02	8.33	8.42	8.33	8.42	8.25	7.94	7.94	7.80	8.31	7.59		8.25	8.33	7.89
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)														<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>				
date	01-Jun-21	time	2.62	3.67	4.70	5.71	6.74	7.77	8.81	9.86	10.93	12.04		13.29	4 / 4			
reaction time	0.174	interval	1.05	1.03	1.01	1.03	1.03	1.04	1.05	1.07	1.11	1.25				3.09	3.10	3.23
wind	0.3 m/s	velocity	4.96	8.10	8.25	8.42	8.25	8.25	8.17	8.10	7.94	7.66	8.04	7.52		8.25	8.23	7.89
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)														<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>				
date	09-May-21	time	2.61	3.65	4.68	5.68	6.72	7.75	8.79	9.84	10.92	12.00		13.22	1 / 3			
reaction time	0.143	interval	1.04	1.03	1.00	1.04	1.03	1.04	1.05	1.08	1.08	1.22				3.07	3.11	3.21
wind	-0.8 m/s	velocity	4.98	8.17	8.25	8.50	8.17	8.25	8.17	8.10	7.87	7.87	8.24	7.56		8.31	8.20	7.94

FINAL - 2019 Japanese National Championships (Fukuoka, JPN)*Yamanaka (2019) - research on athlete performance and technique- 2019 data book*

date	29-Jun-19	time	2.60	3.63	4.65	5.68	6.69	7.71	8.74	9.78	10.84	11.92	13.14	7 / 1			
reaction time	0.150	interval		1.03	1.02	1.03	1.01	1.02	1.03	1.04	1.06	1.08	1.22		3.08	3.06	3.18
wind	0.6 m/s	velocity	5.00	8.25	8.33	8.25	8.42	8.33	8.25	8.17	8.02	7.87	8.61	7.61	8.28	8.33	8.02

FINAL - 2019 Fuse Sprint (Tottori, JPN)*Kijima (2019) - research on athlete performance and technique- 2019 data book*

date	02-Jun-19	time	2.60	3.63	4.63	5.63	6.64	7.64	8.65	9.69	10.75	11.82	13.01	4 / 1			
reaction time	0.160	interval		1.03	1.00	1.00	1.01	1.00	1.01	1.04	1.06	1.07	1.19		3.03	3.02	3.17
wind	3.5 m/s	velocity	5.00	8.25	8.50	8.50	8.42	8.50	8.42	8.17	8.02	7.94	8.82	7.69	8.42	8.44	8.04

FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)*Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps*

date	19-May-19	time	2.58	3.65	4.66	5.66	6.67	7.69	8.70	9.74	10.81	11.90	13.11	6 / 6			
reaction time	0.156	interval		1.07	1.01	1.00	1.01	1.02	1.01	1.04	1.07	1.09	1.21		3.08	3.04	3.20
wind	0.4 m/s	velocity	5.04	7.94	8.42	8.50	8.42	8.33	8.42	8.17	7.94	7.80	8.68	7.63	8.28	8.39	7.97

FINAL - 2019 Asian Athletics Championships (Doha, QAT)*CAA Hurdle Development (2019)*

date	24-Apr-19	time	2.56	3.61	4.63	5.64	6.65	7.68	8.71	9.76	10.82	11.89	13.13	4 / 1			
reaction time	0.148	interval		1.05	1.02	1.01	1.01	1.03	1.03	1.05	1.06	1.07	1.24		3.08	3.07	3.18
wind	1.3 m/s	velocity	5.08	8.10	8.33	8.42	8.42	8.25	8.25	8.10	8.02	7.94	8.47	7.62	8.28	8.31	8.02

Heat 2 - 2019 Asian Athletics Championships (Doha, QAT)*CAA Hurdle Development (2019)*

date	23-Apr-19	time	2.62	3.65	4.65	5.67	6.67	7.70	8.72	9.77	10.86		13.19	2 / 1			
reaction time	0.158	interval		1.03	1.00	1.02	1.00	1.03	1.02	1.05	1.09				3.05	3.05	
wind	1.9 m/s	velocity	4.96	8.25	8.50	8.33	8.50	8.25	8.33	8.10	7.80		7.58		8.36	8.36	

FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)*Henson (2021) - Athlete First: 2018 year end hurdle report*

date	08-Sep-18	time	2.52	3.56	4.60	5.64	6.66	7.70	8.74	9.82	10.88	12.02	13.39	5 / 6			
reaction time	0.166	interval		1.04	1.04	1.04	1.02	1.04	1.04	1.08	1.06	1.14	1.37		3.12	3.10	3.28
wind	-0.1 m/s	velocity	5.16	8.17	8.17	8.17	8.33	8.17	8.17	7.87	8.02	7.46	7.66	7.47	8.17	8.23	7.77

FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)*Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	24-Jun-18	time	2.61	3.62	4.65	5.66	6.67	7.68	8.73	9.78	10.86	11.96	13.21	4 / 3			
reaction time	0.164	interval		1.01	1.03	1.01	1.01	1.01	1.05	1.05	1.08	1.10	1.25		3.05	3.07	3.23
wind	1.1 m/s	velocity	4.98	8.42	8.25	8.42	8.42	8.42	8.10	8.10	7.87	7.73	8.40	7.57	8.36	8.31	7.89

FINAL - 2018 Fuse Sprint (Tottori, JPN)*Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	03-Jun-18	time	2.65	3.73	4.79	5.83	6.84	7.87	8.91	9.97	11.05	12.13	13.41	4 / 4			
reaction time		interval		1.08	1.06	1.04	1.01	1.03	1.04	1.06	1.08	1.08	1.28		3.18	3.08	3.22
wind	0.6 m/s	velocity	4.91	7.87	8.02	8.17	8.42	8.25	8.17	8.02	7.87	7.87	8.20	7.46	8.02	8.28	7.92

FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)*Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	20-May-18	time	2.64	3.70	4.73	5.76	6.79	7.82	8.87	9.92	10.99	12.07	13.28	5 / 4			
reaction time	0.160	interval		1.06	1.03	1.03	1.03	1.03	1.05	1.05	1.07	1.08	1.21		3.12	3.11	3.20
wind	-0.6 m/s	velocity	4.92	8.02	8.25	8.25	8.25	8.25	8.10	8.10	7.94	7.87	8.68	7.53	8.17	8.20	7.97

Semi-Final 2 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date	11-Aug-17	time	2.48	3.55	4.59	5.63	6.66	7.69	8.72	9.77	10.84	11.93	13.29	2 / 8			
reaction time	0.163	interval		1.07	1.04	1.04	1.03	1.03	1.03	1.05	1.07	1.09	1.36		3.15	3.09	3.21
wind	0.5 m/s	velocity	5.24	7.94	8.17	8.17	8.25	8.25	8.25	8.10	7.94	7.80	7.72	7.52	8.10	8.25	7.94

FINAL - 2017 Japanese National Championships (Osaka, JPN)*(2017) - tfdata-store.com/2017/07/19/post-1068/*

date	25-Jun-17	time	2.61	3.65	4.66	5.67	6.67	7.69	8.72	9.76	10.82	11.90	13.12	5 / 1			
reaction time	0.163	interval		1.04	1.01	1.01	1.00	1.02	1.03	1.04	1.06	1.08	1.22		3.06	3.05	3.18
wind	0.4 m/s	velocity	4.98	8.17	8.42	8.42	8.50	8.33	8.25	8.17	8.02	7.87	8.61	7.62	8.33	8.36	8.02

Semi-Final 1 - 2017 Japanese National Championships (Osaka, JPN)*(2017.06.24) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	24-Jun-17	time	2.59	3.64	4.66	5.67	6.69	7.69	8.73	9.76	10.81	11.87	13.03	4 / 1			
reaction time	0.161	interval		1.05	1.02	1.01	1.02	1.00	1.04	1.03	1.05	1.06	1.16		3.08	3.06	3.14
wind	0.4 m/s	velocity	5.02	8.10	8.33	8.42	8.33	8.50	8.17	8.25	8.10	8.02	9.05	7.67	8.28	8.33	8.12

FINAL - 2017 Fuse Sprint (Tottori, JPN)*(2017) - tfdata-store.com/2017/06/04/post-848/*

date	04-Jun-17	time	2.59	3.61	4.63	5.64	6.65	7.65	8.67	9.69	10.75	11.79	12.99	6 / 1			
reaction time		interval		1.02	1.02	1.01	1.01	1.00	1.02	1.02	1.06	1.04	1.20		3.05	3.03	3.12
wind	3.7 m/s	velocity	5.02	8.33	8.33	8.42	8.42	8.50	8.33	8.33	8.02	8.17	8.75	7.70	8.36	8.42	8.17

Heat 3 - 2017 Fuse Sprint (Tottori, JPN)*(2017) - tfdata-store.com/2017/06/04/post-848/*

date	04-Jun-17	time	2.63	3.68	4.70	5.73	6.75	7.78	8.83	9.89	10.94	12.01	13.23	6 / 1			
reaction time		interval		1.05	1.02	1.03	1.02	1.03	1.05	1.06	1.05	1.07	1.22		3.10	3.10	3.18
wind	1.3 m/s	velocity	4.94	8.10	8.33	8.25	8.33	8.25	8.10	8.02	8.10	7.94	8.61	7.56	8.23	8.23	8.02

FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)*(2017) - tfdata-store.com/2017/05/22/post-599/*

date	21-May-17	time	2.61	3.65	4.68	5.70	6.71	7.73	8.75	9.80	10.86	11.92	13.10	2 / 4			
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reaction time	0.167	interval	1.04	1.03	1.02	1.01	1.02	1.02	1.05	1.06	1.06	1.18		3.09	3.05	3.17	
wind	0.0 m/s	velocity	4.98	8.17	8.25	8.33	8.42	8.33	8.33	8.10	8.02	8.02	8.90	7.63	8.25	8.36	8.04

Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)(2017) - tfddata-store.com/2017/05/08/post-413/

date	07-May-17	time	2.65	3.71	4.75	5.76	6.80	7.81	8.86	9.90	10.94	12.01	13.21	6 / 1			
reaction time		interval	1.06	1.04	1.01	1.04	1.01	1.05	1.04	1.04	1.07	1.20			3.11	3.10	3.15
wind	-0.2 m/s	velocity	4.91	8.02	8.17	8.42	8.17	8.42	8.10	8.17	8.17	7.94	8.75	7.57	8.20	8.23	8.10

FINAL - 2017 Michitaka Memorial (Osaka, JPN)(2017) - tfddata-store.com/2017/05/08/post-413/

date	07-May-17	time	2.62	3.68	4.71	5.73	6.76	7.78	8.83	9.88	10.95	12.04	13.25	4 / 2			
reaction time		interval	1.06	1.03	1.02	1.03	1.02	1.05	1.05	1.07	1.09	1.21			3.11	3.10	3.21
wind	-0.6 m/s	velocity	4.96	8.02	8.25	8.33	8.25	8.33	8.10	8.10	7.94	7.80	8.68	7.55	8.20	8.23	7.94

FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)(2017) - tfddata-store.com/2017/05/01/458/

date	29-Apr-17	time	2.63	3.69	4.74	5.77	6.82	7.85	8.90	9.93	10.98	12.05	13.21	7 / 2			
reaction time		interval	1.06	1.05	1.03	1.05	1.03	1.05	1.03	1.05	1.07	1.16			3.14	3.13	3.15
wind	2.0 m/s	velocity	4.94	8.02	8.10	8.25	8.10	8.25	8.10	8.25	8.10	7.94	9.05	7.57	8.12	8.15	8.10

FINAL - 2016 Japanese National Championships (Nagoya, JPN)Kota (2016) - [race analysis of japanese top-ranked men 110m and women 100m hurdlers](https://www.youtube.com/watch?v=K0a1K0a1K0a1)

date	26-Jun-16	time	2.62	3.65	4.68	5.70	6.71	7.74	8.79	9.86	10.94	12.02	13.23	5 / 1			
reaction time	0.159	interval	1.03	1.03	1.02	1.01	1.03	1.05	1.07	1.08	1.08	1.21			3.08	3.09	3.23
wind	2.1 m/s	velocity	4.96	8.25	8.25	8.33	8.42	8.25	8.10	7.94	7.87	7.87	8.68	7.56	8.28	8.25	7.89

FINAL - 2016 Fuse Sprint (Tottori, JPN)(2016.06.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	05-Jun-16	time	2.59	3.63	4.67	5.70	6.74	7.76	8.80	9.86	10.91	12.00	13.19	7 / 1			
reaction time		interval	1.04	1.04	1.03	1.04	1.02	1.04	1.06	1.05	1.09	1.19			3.11	3.10	3.20
wind	2.2 m/s	velocity	5.02	8.17	8.17	8.25	8.17	8.33	8.17	8.02	8.10	7.80	8.82	7.58	8.20	8.23	7.97

Heat 3 - 2016 Fuse Sprint (Tottori, JPN)(2016.06.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	05-Jun-16	time	2.66	3.72	4.77	5.79	6.81	7.85	8.89	9.95	11.02	12.12	13.31	5 / 1			
reaction time		interval	1.06	1.05	1.02	1.02	1.04	1.04	1.06	1.07	1.10	1.19			3.13	3.10	3.23
wind	2.2 m/s	velocity	4.89	8.02	8.10	8.33	8.33	8.17	8.17	8.02	7.94	7.73	8.82	7.51	8.15	8.23	7.89

FINAL - 2016 Kinan Memorial (Osaka, JPN)(2016.05.11) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	08-May-16	time	2.62	3.67	4.72	5.73	6.76	7.80	8.83	9.86	10.94	12.03	13.25	6 / 1			
reaction time		interval	1.05	1.05	1.01	1.03	1.04	1.03	1.03	1.08	1.09	1.22			3.11	3.10	3.20
wind	0.6 m/s	velocity	4.96	8.10	8.10	8.42	8.25	8.17	8.25	8.25	7.87	7.80	8.61	7.55	8.20	8.23	7.97

FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)Kota (2016) - [race analysis of japanese top-ranked men 110m and women 100m hurdlers](https://www.youtube.com/watch?v=K0a1K0a1K0a1)

date	29-Apr-16	time	2.65	3.72	4.75	5.77	6.82	7.85	8.90	9.94	11.00	12.08	13.27	5 / 3			
reaction time		interval	1.07	1.03	1.02	1.05	1.03	1.05	1.04	1.06	1.08	1.19			3.12	3.13	3.18
wind	1.1 m/s	velocity	4.91	7.94	8.25	8.33	8.10	8.25	8.10	8.17	8.02	7.87	8.82	7.54	8.17	8.15	8.02

FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)Takashima (2015) - [race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions](https://www.youtube.com/watch?v=K0a1K0a1K0a1)

date	10-May-15	time	2.63	3.68	4.69	5.71	6.74	7.74	8.78	9.82	10.87	11.93	13.13	2 / 6			
reaction time	0.172	interval	1.05	1.01	1.02	1.03	1.00	1.04	1.04	1.05	1.06	1.20			3.08	3.07	3.15
wind	0.9 m/s	velocity	4.94	8.10	8.42	8.33	8.25	8.50	8.17	8.17	8.10	8.02	8.75	7.62	8.28	8.31	8.10

FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)Takashima (2015) - [race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions](https://www.youtube.com/watch?v=K0a1K0a1K0a1)

date	03-May-15	time	2.65	3.71	4.75	5.78	6.82	7.84	8.89	9.93	10.98	12.07	13.27	1 / 1			
reaction time		interval	1.06	1.04	1.03	1.04	1.02	1.05	1.04	1.05	1.09	1.20			3.13	3.11	3.18
wind	0.2 m/s	velocity	4.91	8.02	8.17	8.25	8.17	8.33	8.10	8.17	8.10	7.80	8.75	7.54	8.15	8.20	8.02

Heat 1 - 2012 Olympic Games (London, GBR)(2016.10.31) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	06-Aug-12	time	2.64	3.66	4.69	5.70	6.71						13.75	5 / 7			
reaction time	0.169	interval	1.02	1.03	1.01	1.01									3.06		
wind	0.6 m/s	velocity	4.92	8.33	8.25	8.42	8.42						7.27		8.33		

Heat 5 - 2009 Japanese National Championships (Hiroshima, JPN)Akirabun (2010) - [analysis of speed and stride on straight track events in the 2009 season](https://www.youtube.com/watch?v=K0a1K0a1K0a1)

date	25-Jun-09	time	2.56	3.67	4.75	5.82	6.89	7.97	9.06	10.15	11.26	12.39	13.76	5 / 2			
reaction time		interval	1.11	1.08	1.07	1.07	1.08	1.09	1.09	1.11	1.13	1.37	PB		3.26	3.24	3.33
wind	1.5 m/s	velocity	5.08	7.66	7.87	7.94	7.94	7.87	7.80	7.80	7.66	7.52	7.66	7.27	7.82	7.87	7.66

Kinashi, Mitsuna (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](https://www.youtube.com/watch?v=K0a1K0a1K0a1)

date	06-Aug-23	time	2.74	3.86	4.95	6.00	7.07	8.15	9.22	10.33	11.44	12.58	13.79	3 / 4			
reaction time	0.166	interval	1.12	1.09	1.05	1.07	1.08	1.07	1.11	1.11	1.14	1.21			3.26	3.22	3.36
wind	0.8 m/s	velocity	4.74	7.59	7.80	8.10	7.94	7.87	7.94	7.66	7.66	7.46	8.31	7.25	7.82	7.92	7.59

Kinsahi, Hina (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** - 2023 Japanese U20 National Championships (Osaka, JPN)Kishima (2024) - [race analysis of top domestic and overseas women's 100m hurdles in the 2023 season](https://www.youtube.com/watch?v=K0a1K0a1K0a1)

date	03-Jun-23	time	2.73	3.83	4.93	6.02	7.12	8.25	9.38	10.48	11.63	12.78	14.00	2 / 5			
reaction time	0.169	interval	1.10	1.10	1.09	1.10	1.13	1.13	1.10	1.15	1.15	1.22	PB		3.29	3.36	3.40

wind -1.4 m/s velocity 4.76 7.73 7.73 7.80 7.73 7.52 7.52 7.73 7.39 7.39 8.24 7.14 7.75 7.59 7.50

Kiryama, Chie (JPN) (1991)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)																	
<i>Matsubayashi (2018) - research on athlete performance and technique</i>																	
date	16-Jun-18	time	2.72	3.78	4.84	5.90	6.97	8.04	9.12	10.22	11.34	12.49	13.71	6 / 2			
reaction time		interval	1.06	1.06	1.06	1.07	1.07	1.08	1.10	1.12	1.15	1.22			3.18	3.22	3.37
wind	1.6 m/s	velocity	4.78	8.02	8.02	8.02	7.94	7.94	7.87	7.73	7.59	7.39	8.61	7.29	8.02	7.92	7.57

Heptathlon - Heat 3 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN)*Matsubayashi (2018) - research on athlete performance and technique- 2018 data book*

date	21-Apr-18	time	2.79	3.92	5.06	6.17	7.30	8.41	9.55	10.70	11.89	13.12	14.45	5 / 1			
reaction time		interval	1.13	1.14	1.11	1.13	1.11	1.14	1.15	1.19	1.23	1.33			3.38	3.38	3.57
wind	-4.5 m/s	velocity	4.66	7.52	7.46	7.66	7.52	7.66	7.46	7.39	7.14	6.91	7.89	6.92	7.54	7.54	7.14

B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)*(2017) - tfdata-store.com/2017/05/01/458/*

date	29-Apr-17	time	2.72	3.80	4.87	5.92	6.98	8.07	9.16	10.27	11.39	12.54	13.74	1 / 7			
reaction time		interval	1.08	1.07	1.05	1.06	1.09	1.09	1.11	1.12	1.15	1.20			3.20	3.24	3.38
wind	4.1 m/s	velocity	4.78	7.87	7.94	8.10	8.02	7.80	7.80	7.66	7.59	7.39	8.75	7.28	7.97	7.87	7.54

Kirkland, Anjanette (USA) (1974)**FINAL - 2006 USATF National Championships (Indianapolis, IN)***USATF Women's Hurdle Development (2006)*

date	24-Jun-06	time	2.67	3.70	4.67	5.67	6.62	7.64	8.63	9.64	10.66	11.71	12.87	8 / 6			
reaction time		interval	1.03	0.97	1.00	0.95	1.02	0.99	1.01	1.02	1.05	1.16			3.00	2.96	3.08
wind	-0.4 m/s	velocity	4.87	8.25	8.76	8.50	8.95	8.33	8.59	8.42	8.33	8.10	9.05	7.77	8.50	8.61	8.28

FINAL - 2001 IAAF World Championships (Edmonton, CAN)*Winckler (2009) - UK Athletics- National Coaching Conference*

date	11-Aug-01	time	2.60	3.60	4.60	5.56	6.52	7.48	8.41	9.37	10.33	11.33	12.42	1 / 1			
reaction time	0.123	interval	1.00	1.00	0.96	0.96	0.96	0.93	0.96	0.96	1.00	1.09	PB		2.96	2.85	2.92
wind	2.0 m/s	velocity	5.00	8.50	8.50	8.85	8.85	8.85	9.14	8.85	8.85	8.50	9.63	8.05	8.61	8.95	8.73

Kita, Ayane (JPN) (2000)**Heat 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)***(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.85	3.98	5.07	6.17	7.25	8.36	9.44	10.54	11.65	12.80	14.07	2 / 4			
reaction time		interval	1.13	1.09	1.10	1.08	1.11	1.08	1.10	1.11	1.15	1.27			3.32	3.27	3.36
wind	1.6 m/s	velocity	4.56	7.08	7.34	7.27	7.41	7.21	7.41	7.27	7.21	6.96	11.81	7.11	7.23	7.34	7.14

Kiyoyama, Chisato (JPN) (1991)**FINAL - 2023 Japanese National Championships (Osaka, JPN)***Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date	03-Jun-23	time	2.65	3.70	4.72	5.73	6.73	7.74	8.79	9.84	10.93	12.05	13.28	9 / 5			
reaction time	0.166	interval	1.05	1.02	1.01	1.00	1.01	1.05	1.05	1.09	1.12	1.23			3.08	3.06	3.26
wind	-1.2 m/s	velocity	4.91	8.10	8.33	8.42	8.50	8.42	8.10	8.10	7.80	7.59	8.17	7.53	8.28	8.33	7.82

FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date	21-May-23	time	2.64	3.67	4.69	5.69	6.68	7.69	8.69	9.70	10.74	11.80	12.96	2 / 6			
reaction time	0.145	interval	1.03	1.02	1.00	0.99	1.01	1.00	1.01	1.04	1.06	1.16	PB		3.05	3.00	3.11
wind	0.4 m/s	velocity	4.92	8.25	8.33	8.50	8.59	8.42	8.50	8.42	8.17	8.02	8.66	7.72	8.36	8.50	8.20

FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date	07-May-23	time	2.65	3.71	4.73	5.73	6.73	7.73	8.75	9.78	10.83	11.89	13.05	5 / 3			
reaction time	0.146	interval	1.06	1.02	1.00	1.00	1.00	1.02	1.03	1.05	1.06	1.16			3.08	3.02	3.14
wind	0.7 m/s	velocity	4.91	8.02	8.33	8.50	8.50	8.33	8.25	8.10	8.02	8.66	7.66		8.28	8.44	8.12

FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date	29-Apr-23	time	2.67	3.74	4.76	5.80	6.81	7.83	8.87	9.91	10.98	12.06	13.24	8 / 5			
reaction time	0.160	interval	1.07	1.02	1.04	1.01	1.02	1.04	1.04	1.04	1.07	1.08	1.18		3.13	3.07	3.19
wind	0.6 m/s	velocity	4.87	7.94	8.33	8.17	8.42	8.33	8.17	8.17	7.94	7.87	8.52	7.55	8.15	8.31	7.99

FINAL - 2022 Japanese National Championships (Osaka, JPN)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	11-Jun-22	time	2.69	3.78	4.85	5.88	6.91	7.95	9.00	10.05	11.13	12.22	13.37	5 / 5			
reaction time	0.146	interval	1.09	1.07	1.03	1.03	1.04	1.05	1.05	1.08	1.09	1.15			3.19	3.12	3.22
wind	0.8 m/s	velocity	4.83	7.80	7.94	8.25	8.25	8.17	8.10	8.10	7.87	7.80	8.74	7.48	7.99	8.17	7.92

B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	29-Apr-22	time	2.74	3.84	4.91	5.96	7.02	8.07	9.14	10.21	11.31	12.40	13.63	5 / 1			
reaction time	0.162	interval	1.10	1.07	1.05	1.06	1.05	1.07	1.07	1.07	1.10	1.09	1.23		3.22	3.18	3.26
wind	0.3 m/s	velocity	4.74	7.73	7.94	8.10	8.02	8.10	7.94	7.94	7.73	7.80	8.17	7.34	7.92	8.02	7.82

FINAL - 2021 Japanese National Championships (Osaka, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	27-Jun-21	time	2.69	3.75	4.80	5.81	6.82	7.85	8.87	9.91	10.98	12.05	13.22	7 / 2			
reaction time	0.146	interval	1.06	1.05	1.01	1.01	1.03	1.02	1.04	1.07	1.07	1.17			3.12	3.06	3.18
wind	0.0 m/s	velocity	4.83	8.02	8.10	8.42	8.42	8.25	8.33	8.17	7.94	7.94	8.59	7.56	8.17	8.33	8.02

FINAL - 2021 Fuse Sprint (Tottori, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	06-Jun-21	time	2.69	3.75	4.77	5.78	6.81	7.82	8.85	9.90	10.97	12.03	13.20	3 / 5			
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reaction time	0.138	interval	1.06	1.02	1.01	1.03	1.01	1.03	1.05	1.07	1.06	1.17		3.09	3.07	3.18		
wind	1.8 m/s	velocity	4.83	8.02	8.33	8.42	8.25	8.42	8.25	8.10	7.94	8.02	8.59	7.58	8.25	8.31	8.02	
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)			<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>															
date	01-Jun-21	time	2.74	3.83	4.86	5.89	6.92	7.95	9.00	10.06	11.12	12.21		13.39		9 / 6		
reaction time	0.190	interval	1.09	1.03	1.03	1.03	1.03	1.03	1.05	1.06	1.06	1.09	1.18			3.15	3.11	3.21
wind	0.3 m/s	velocity	4.74	7.80	8.25	8.25	8.25	8.25	8.10	8.02	8.02	7.80	8.52	7.47		8.10	8.20	7.94
FINAL - 2020 Athlete Night Games (Fukui, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>															
date	29-Aug-20	time	2.66	3.73	4.75	5.76	6.78	7.79	8.83	9.85	10.89	11.98		13.10		1 / 3		
reaction time		interval	1.07	1.02	1.01	1.02	1.01	1.04	1.02	1.04	1.09	1.12				3.10	3.07	3.15
wind	2.1 m/s	velocity	4.89	7.94	8.33	8.42	8.33	8.42	8.17	8.33	8.17	7.80	8.97	7.63		8.23	8.31	8.10
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>															
date	23-Aug-20	time	2.67	3.75	4.77	5.77	6.80	7.82	8.85	9.88	10.94	12.02		13.19		6 / 3		
reaction time	0.139	interval	1.08	1.02	1.00	1.03	1.02	1.03	1.03	1.06	1.08	1.17				3.10	3.08	3.17
wind	0.3 m/s	velocity	4.87	7.87	8.33	8.50	8.25	8.33	8.25	8.25	8.02	7.87	8.59	7.58		8.23	8.28	8.04
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)			<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>															
date	01-Sep-19	time	2.64	3.73	4.76	5.78	6.79	7.83	8.87	9.92	10.99	12.07		13.25		5 / 3		
reaction time		interval	1.09	1.03	1.02	1.01	1.04	1.04	1.05	1.07	1.08	1.18				3.14	3.09	3.20
wind	1.2 m/s	velocity	4.92	7.80	8.25	8.33	8.42	8.17	8.17	8.10	7.94	7.87	8.90	7.55		8.12	8.25	7.97
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)			<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>															
date	29-Jun-19	time	2.67	3.75	4.79	5.83	6.85	7.87	8.90	9.96	11.01	12.08		13.24		2 / 5		
reaction time	0.161	interval	1.08	1.04	1.04	1.02	1.02	1.03	1.06	1.05	1.07	1.16	PB			3.16	3.07	3.18
wind	0.6 m/s	velocity	4.87	7.87	8.17	8.17	8.33	8.33	8.25	8.02	8.10	7.94	9.05	7.55		8.07	8.31	8.02
FINAL - 2019 Fuse Sprint (Tottori, JPN)			<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>															
date	02-Jun-19	time	2.64	3.71	4.73	5.76	6.77	7.77	8.80	9.81	10.89	11.92		13.10		5 / 2		
reaction time	0.137	interval	1.07	1.02	1.03	1.01	1.00	1.03	1.01	1.08	1.03	1.18				3.12	3.04	3.12
wind	3.5 m/s	velocity	4.92	7.94	8.33	8.25	8.42	8.50	8.25	8.42	7.87	8.25	8.90	7.63		8.17	8.39	8.17
FINAL - 2019 Kinami Memorial (Osaka, JPN)			<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>															
date	06-May-19	time	2.69	3.78	4.86	5.91	6.96	7.99	9.03	10.09	11.16	12.24		13.43		5 / 7		
reaction time		interval	1.09	1.08	1.05	1.05	1.03	1.04	1.06	1.07	1.08	1.19				3.22	3.12	3.21
wind	0.6 m/s	velocity	4.83	7.80	7.87	8.10	8.10	8.25	8.17	8.02	7.94	7.87	8.82	7.45		7.92	8.17	7.94
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	2.72	3.84	4.89	5.94	6.99	8.03	9.08	10.14	11.22	12.32		13.49		6 / 6		
reaction time		interval	1.12	1.05	1.05	1.05	1.04	1.05	1.06	1.08	1.10	1.17				3.22	3.14	3.24
wind	0.6 m/s	velocity	4.78	7.59	8.10	8.10	8.10	8.17	8.10	8.02	7.87	7.73	8.97	7.41		7.92	8.12	7.87
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>															
date	24-Jun-18	time	2.69	3.78	4.84	5.86	6.89	7.92	8.94	10.00	11.05	12.13		13.31		2 / 4		
reaction time	0.183	interval	1.09	1.06	1.02	1.03	1.03	1.02	1.06	1.05	1.08	1.18	PB			3.17	3.08	3.19
wind	1.1 m/s	velocity	4.83	7.80	8.02	8.33	8.25	8.25	8.33	8.02	8.10	7.87	8.90	7.51		8.04	8.28	7.99
FINAL - 2018 Fuse Sprint (Tottori, JPN)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>															
date	03-Jun-18	time	2.67	3.73	4.80	5.84	6.88	7.91	8.95	9.99	11.08	12.21		13.44		1 / 5		
reaction time		interval	1.06	1.07	1.04	1.04	1.03	1.04	1.04	1.09	1.13	1.23				3.17	3.11	3.26
wind	0.6 m/s	velocity	4.87	8.02	7.94	8.17	8.17	8.25	8.17	8.17	7.80	7.52	8.54	7.44		8.04	8.20	7.82
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>															
date	06-May-18	time	2.74	3.81	4.86	5.88	6.92	7.96	9.00	10.06	11.12	12.22		13.35		6 / 3		
reaction time		interval	1.07	1.05	1.02	1.04	1.04	1.04	1.06	1.06	1.10	1.13	=PB			3.14	3.12	3.22
wind	-0.5 m/s	velocity	4.74	7.94	8.10	8.33	8.17	8.17	8.17	8.02	8.02	7.73	9.29	7.49		8.12	8.17	7.92
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>															
date	29-Apr-18	time	2.67	3.74	4.77	5.80	6.82	7.82	8.85	9.89	10.92	11.98		13.14		1 / 2		
reaction time		interval	1.07	1.03	1.03	1.02	1.00	1.03	1.04	1.03	1.06	1.16				3.13	3.05	3.13
wind	3.6 m/s	velocity	4.87	7.94	8.25	8.25	8.33	8.50	8.25	8.17	8.25	8.02	9.05	7.61		8.15	8.36	8.15
FINAL - 2017 Japanese National Championships (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/07/19/post-1068/</i>															
date	25-Jun-17	time	2.75	3.85	4.93	6.00	7.06	8.12	9.20	10.28	11.38	12.49		13.71		3 / 6		
reaction time	0.167	interval	1.10	1.08	1.07	1.06	1.06	1.08	1.08	1.10	1.11	1.22				3.25	3.20	3.29
wind	0.4 m/s	velocity	4.73	7.73	7.87	7.94	8.02	8.02	7.87	7.87	7.73	7.66	8.61	7.29		7.85	7.97	7.75
FINAL - 2017 Fuse Sprint (Tottori, JPN)			<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>															
date	04-Jun-17	time	2.70	3.77	4.83	5.85	6.87	7.91	8.98	10.01	11.09	12.19		13.39		4 / 3		
reaction time		interval	1.07	1.06	1.02	1.02	1.04	1.07	1.03	1.08	1.10	1.20				3.15	3.13	3.21
wind	3.7 m/s	velocity	4.81	7.94	8.02	8.33	8.33	8.17	7.94	8.25	7.87	7.73	8.75	7.47		8.10	8.15	7.94

Heat 3 - 2017 Fuse Sprint (Tottori, JPN)(2017) - [tfdata-store.com/2017/06/04/post-848/](https://www.tfddata-store.com/2017/06/04/post-848/)

date	04-Jun-17	time	2.72	3.82	4.90	5.96	7.01	8.06	9.14	10.21	11.31	12.43	13.66	8 / 4				
reaction time		interval		1.10	1.08	1.06	1.05	1.05	1.08	1.07	1.10	1.12	1.23		3.24	3.18	3.29	
wind	1.3 m/s	velocity	4.78	7.73	7.87	8.02	8.10	8.10	7.87	7.94	7.73	7.59	8.54	7.32	7.87	8.02	7.75	

Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)(2017) - [tfdata-store.com/2017/05/08/post-413/](https://www.tfddata-store.com/2017/05/08/post-413/)

date	07-May-17	time	2.74	3.83	4.89	5.94	6.97	8.00	9.05	10.11	11.18	12.28	13.47	9 / 4				
reaction time		interval		1.09	1.06	1.05	1.03	1.03	1.05	1.06	1.07	1.10	1.19		3.20	3.11	3.23	
wind	-0.2 m/s	velocity	4.74	7.80	8.02	8.10	8.25	8.25	8.10	8.02	7.94	7.73	8.82	7.42	7.97	8.20	7.89	

FINAL - 2017 Michitaka Memorial (Osaka, JPN)(2017) - [tfdata-store.com/2017/05/08/post-413/](https://www.tfddata-store.com/2017/05/08/post-413/)

date	07-May-17	time	2.72	3.80	4.85	5.87	6.89	7.92	8.97	10.01	11.08	12.18	13.35	8 / 3				
reaction time		interval		1.08	1.05	1.02	1.02	1.03	1.05	1.04	1.07	1.10	1.17		PB	3.15	3.10	3.21
wind	-0.6 m/s	velocity	4.78	7.87	8.10	8.33	8.33	8.25	8.10	8.17	7.94	7.73	8.97	7.49	8.10	8.23	7.94	

B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)(2017) - [tfdata-store.com/2017/05/01/458/](https://www.tfddata-store.com/2017/05/01/458/)

date	29-Apr-17	time	2.71	3.79	4.85	5.87	6.90	7.92	8.96	9.98	11.05	12.13	13.29	5 / 1				
reaction time		interval		1.08	1.06	1.02	1.03	1.02	1.04	1.02	1.07	1.08	1.16		3.16	3.09	3.17	
wind	4.1 m/s	velocity	4.80	7.87	8.02	8.33	8.25	8.33	8.17	8.33	7.94	7.87	9.05	7.52	8.07	8.25	8.04	

FINAL - 2016 National Sports Festival (Kitakami, JPN)(2016.11.14) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en

date	10-Oct-16	time	2.72	3.80	4.86	5.90	6.93	7.99	9.05	10.12	11.23	12.34	13.53	2 / 3				
reaction time	0.145	interval		1.08	1.06	1.04	1.03	1.06	1.06	1.07	1.11	1.11	1.19		3.18	3.15	3.29	
wind	2.8 m/s	velocity	4.78	7.87	8.02	8.17	8.25	8.02	8.02	7.94	7.66	7.66	8.82	7.39	8.02	8.10	7.75	

FINAL - 2016 Japanese National Corporate Championships (Osaka, JPN)(2016.09.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en

date	25-Sep-16	time	2.69	3.77	4.83	5.88	6.92	7.97	9.03	10.11	11.20	12.30	13.50	5 / 3				
reaction time	0.118	interval		1.08	1.06	1.05	1.04	1.05	1.06	1.08	1.09	1.10	1.20		3.19	3.15	3.27	
wind	1.0 m/s	velocity	4.83	7.87	8.02	8.10	8.17	8.10	8.02	7.87	7.80	7.73	8.75	7.41	7.99	8.10	7.80	

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	2.71	3.80	4.87	5.91	6.97	8.02	9.09	10.17	11.26	12.40	13.65	1 / 8				
reaction time	0.158	interval		1.09	1.07	1.04	1.06	1.05	1.07	1.08	1.09	1.14	1.25		3.20	3.18	3.31	
wind	2.1 m/s	velocity	4.80	7.80	7.94	8.17	8.02	8.10	7.94	7.87	7.80	7.46	8.40	7.33	7.97	8.02	7.70	

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	2.76	3.90	4.98	6.04	7.12	8.19	9.25	10.35	11.43	12.56	13.79	1 / 7				
reaction time		interval		1.14	1.08	1.06	1.08	1.07	1.06	1.10	1.08	1.13	1.23		3.28	3.21	3.31	
wind	1.1 m/s	velocity	4.71	7.46	7.87	8.02	7.87	7.94	8.02	7.73	7.87	7.52	8.54	7.25	7.77	7.94	7.70	

FINAL - 2015 Japanese National Championships (Niigata, JPN)Takashima (2015) - [race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions](#)

date	27-Jun-15	time	2.69	3.77	4.82	5.88	6.93	7.97	9.02	10.11	11.22	12.35	13.57	4 / 6				
reaction time	0.159	interval		1.08	1.05	1.06	1.05	1.04	1.05	1.09	1.11	1.13	1.22		3.19	3.14	3.33	
wind	-0.2 m/s	velocity	4.83	7.87	8.10	8.02	8.10	8.17	8.10	7.80	7.66	7.52	8.61	7.37	7.99	8.12	7.66	

Klaup-McColl, Mari (EST) (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 Bauhaus Galan (Stockholm, SWE) (TV Analysis)**Henson (2020) - [Athlete First: 2020 year end hurdle report](#)

date	23-Aug-20	time	2.73	3.83	4.93	6.00	7.13	8.23	9.33	10.43	11.53	12.67	13.98	8 / 7				
reaction time	0.185	interval		1.10	1.10	1.07	1.13	1.10	1.10	1.10	1.10	1.14	1.31		3.27	3.33	3.34	
wind	1.4 m/s	velocity	4.76	7.73	7.73	7.94	7.52	7.73	7.73	7.73	7.73	7.46	7.67	7.15	7.80	7.66	7.63	

Klučinová, Eliška (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 - 2014 Czech Republic National Championships (Ostrava, CZE)**Feher (2014) - [Final report from the Czech Republic national championships](#)

date	02-Aug-14	time	2.89	4.05	5.16	6.28	7.41	8.53	9.64	10.80	11.96	13.21	14.43	3 / 4				
reaction time	0.151	interval		1.16	1.11	1.12	1.13	1.12	1.11	1.16	1.16	1.25	1.22		3.39	3.36	3.57	
wind	-1.0 m/s	velocity	4.50	7.33	7.66	7.59	7.52	7.59	7.66	7.33	7.33	6.80	8.61	6.93	7.52	7.59	7.14	

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	2.81	3.96	5.09	6.19	7.29	8.38	9.48	10.60	11.77	12.88	14.08	7 / 5				
reaction time	0.161	interval		1.15	1.13	1.10	1.10	1.09	1.10	1.12	1.17	1.11	1.20		3.38	3.29	3.40	
wind	0.3 m/s	velocity	4.63	7.39	7.52	7.73	7.73	7.80	7.73	7.59	7.26	7.66	8.75	7.10	7.54	7.75	7.50	

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	2.84	3.98	5.08	6.19	7.29	8.40	9.53	10.65	11.78	12.93	14.13	5 / 2				
reaction time	0.153	interval		1.14	1.10	1.11	1.10	1.11	1.13	1.12	1.13	1.15	1.20		3.35	3.34	3.40	
wind	-0.9 m/s	velocity	4.58	7.46	7.73	7.66	7.73	7.66	7.52	7.59	7.52	7.39	8.75	7.08	7.61	7.63	7.50	

Klüft, Carolina (SWE) (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 Landskamp FIN-SWE-NOR (Tammefors, FIN)**Blomkvist (2011) - www.sub13.se

date	05-Feb-11	time	2.48	3.62	4.64	5.68	6.72						8.26	/ 2				
reaction time		interval		1.14	1.02	1.04	1.04						1.54		3.20			
		velocity	5.24	7.46	8.33	8.17	8.17						8.44	7.26	7.97			

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Knabe, Kerstin (GDR) (1959)																	
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	29-Sep-88	time	2.64	3.73	4.73	5.75	6.75	7.76	8.77	9.78	10.80	11.81	12.93	4 / 5			
reaction time	0.133	interval		1.09	1.00	1.02	1.00	1.01	1.01	1.01	1.02	1.01	1.12		3.11	3.02	3.04
wind	0.5 m/s	velocity	4.92	7.80	8.50	8.33	8.50	8.42	8.42	8.42	8.33	8.42	9.38	7.73	8.20	8.44	8.39
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	2.58	3.62	4.60	5.60	6.58	7.54	8.52	9.51	10.52	11.54	12.64	/ 3			
reaction time		interval		1.04	0.98	1.00	0.98	0.96	0.98	0.99	1.01	1.02	1.10		3.02	2.92	3.02
wind	1.4 m/s	velocity	5.04	8.17	8.67	8.50	8.67	8.85	8.67	8.59	8.42	8.33	9.55	7.91	8.44	8.73	8.44
FINAL - 1983 IAAF World Championships (Helsinki, FIN)		<i>Knobe (1984) - the hurdles</i>															
date	13-Aug-83	time	2.66	3.63	4.65	5.66	6.54	7.46	8.42	9.42	10.29	11.37	12.42	4 / 2			
reaction time	0.115	interval		0.97	1.02	1.01	0.88	0.92	0.96	1.00	0.87	1.08	1.05		3.00	2.76	2.95
wind	2.4 m/s	velocity	4.89	8.76	8.33	8.42	9.66	9.24	8.85	8.50	9.77	7.87	10.00	8.05	8.50	9.24	8.64
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	2.56	3.59	4.61	5.63	6.65	7.66	8.67	9.67	10.69	11.72	12.85	/ 2			
reaction time		interval		1.03	1.02	1.02	1.02	1.01	1.01	1.00	1.02	1.03	1.13		3.07	3.04	3.05
wind	0.0 m/s	velocity	5.08	8.25	8.33	8.33	8.33	8.42	8.42	8.50	8.33	8.25	9.29	7.78	8.31	8.39	8.36
Koala, Martha Yasmine (BUR) (1994)																	
Heptathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>															
date	04-Aug-21	time	2.63	3.63	4.66	5.66	6.66	7.69	8.70	9.75	10.78	11.87	13.07	7 / 2			
reaction time	0.139	interval		1.00	1.03	1.00	1.00	1.03	1.01	1.05	1.03	1.09	1.20		3.03	3.04	3.17
wind	-0.8 m/s	velocity	4.94	8.50	8.25	8.50	8.50	8.25	8.42	8.10	8.25	7.80	8.37	7.65	8.42	8.39	8.04
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>															
date	31-Jul-21	time	2.69	3.69	4.69	5.69	6.69	7.72	8.77	9.81	10.89	11.94	13.11	3 / 6			
reaction time	0.148	interval		1.00	1.00	1.00	1.00	1.03	1.05	1.04	1.08	1.05	1.17		3.00	3.08	3.17
wind	0.4 m/s	velocity	4.83	8.50	8.50	8.50	8.50	8.25	8.10	8.17	7.87	8.10	8.59	7.63	8.50	8.28	8.04
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)		<i>Henson (2021) - Athlete First: 2018 year end hurdle report</i>															
date	08-Sep-18	time	2.64	3.72	4.76	5.80	6.80	7.84	8.88	9.92	11.02	12.10	13.42	8 / 7			
reaction time	0.157	interval		1.08	1.04	1.04	1.00	1.04	1.04	1.04	1.10	1.08	1.32		3.16	3.08	3.22
wind	-0.1 m/s	velocity	4.92	7.87	8.17	8.17	8.50	8.17	8.17	8.17	7.73	7.87	7.95	7.45	8.07	8.28	7.92
Kobayashi, Ayumi (JPN) (2001)																	
FINAL - 2020 Athlete Night Games (Fukui, JPN)		<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>															
date	29-Aug-20	time	2.69	3.79	4.86	5.91	6.94	8.00	9.06	10.14	11.22	12.33	13.58	/ 8			
reaction time		interval		1.10	1.07	1.05	1.03	1.06	1.06	1.08	1.08	1.11	1.25		3.22	3.15	3.27
wind	2.1 m/s	velocity	4.83	7.73	7.94	8.10	8.25	8.02	8.02	7.87	7.87	7.66	8.04	7.36	7.92	8.10	7.80
U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)		<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>															
date	18-Oct-19	time	2.72	3.79	4.86	5.90	6.98	8.04	9.11	10.21	11.35	12.49	13.79	5 / 3			
reaction time	0.133	interval		1.07	1.07	1.04	1.08	1.06	1.07	1.10	1.14	1.14	1.30		3.18	3.21	3.38
wind	-0.5 m/s	velocity	4.78	7.94	7.94	8.17	7.87	8.02	7.94	7.73	7.46	7.46	8.08	7.25	8.02	7.94	7.54
FINAL - 2019 Fuse Sprint (Tottori, JPN)		<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>															
date	02-Jun-19	time	2.69	3.76	4.80	5.85	6.89	7.92	8.96	10.01	11.08	12.16	13.35	8 / 5			
reaction time	0.133	interval		1.07	1.04	1.05	1.04	1.03	1.04	1.05	1.07	1.08	1.19		3.16	3.11	3.20
wind	3.5 m/s	velocity	4.83	7.94	8.17	8.10	8.17	8.25	8.17	8.10	7.94	7.87	8.82	7.49	8.07	8.20	7.97
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	2.70	3.79	4.87	5.91	6.96	8.03	9.10	10.19	11.28	12.38	13.59	4 / 1			
reaction time		interval		1.09	1.08	1.04	1.05	1.07	1.07	1.09	1.09	1.10	1.21		3.21	3.19	3.28
wind	1.3 m/s	velocity	4.81	7.80	7.87	8.17	8.10	7.94	7.94	7.80	7.80	7.73	8.68	7.36	7.94	7.99	7.77
A FINAL - 2018 National Sports Festival (Fukui, JPN)		<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>															
date	08-Oct-18	time	2.70	3.75	4.80	5.83	6.83	7.86	8.88	9.89	10.93	11.96	13.13	5 / 1			
reaction time	0.140	interval		1.05	1.05	1.03	1.00	1.03	1.02	1.01	1.04	1.03	1.17		3.13	3.05	3.08
wind	2.5 m/s	velocity	4.81	8.10	8.10	8.25	8.50	8.25	8.33	8.42	8.17	8.25	8.97	7.62	8.15	8.36	8.28
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)		<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data</i>															
date	02-Aug-18	time	2.66	3.73	4.78	5.83	6.87	7.90	8.95	10.01	11.07	12.15	13.34	7 / 1			
reaction time		interval		1.07	1.05	1.05	1.04	1.03	1.05	1.06	1.06	1.08	1.19	PB	3.17	3.12	3.20
wind	-0.3 m/s	velocity	4.89	7.94	8.10	8.10	8.17	8.25	8.10	8.02	8.02	7.87	8.82	7.50	8.04	8.17	7.97
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)		<i>Kota (2017) - 70th high school championships: JAF scientific committee- biomechanics data</i>															
date	02-Aug-17	time	2.78	3.91	5.04	6.16	7.27	8.38	9.50	10.66	11.82	12.99	14.23	5 / 6			
reaction time	0.174	interval		1.13	1.13	1.12	1.11	1.11	1.12	1.16	1.16	1.17	1.24		3.38	3.34	3.49
wind	-2.9 m/s	velocity	4.68	7.52	7.52	7.59	7.66	7.66	7.59	7.33	7.33	7.26	8.47	7.03	7.54	7.63	7.31

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Kobayashi, Sayaka (JPN) (1996)																		
FINAL - 2017 Japanese National Championships (Osaka, JPN)		(2017) - tfd-data-store.com/2017/07/19/post-1068/																
date	25-Jun-17	time	2.67	3.77	4.86	5.94	7.01	8.07	9.14	10.26	11.39	12.50	13.72	9 / 8				
reaction time	0.134	interval		1.10	1.09	1.08	1.07	1.06	1.07	1.12	1.13	1.11	1.22		3.27	3.20	3.36	
wind	0.4 m/s	velocity	4.87	7.73	7.80	7.87	7.94	8.02	7.94	7.59	7.52	7.66	8.61	7.29	7.80	7.97	7.59	
FINAL - 2017 Michitaka Memorial (Osaka, JPN)		(2017) - tfd-data-store.com/2017/05/08/post-413/																
date	07-May-17	time	2.75	3.88	4.98	6.07	7.19	8.30	9.39	10.51	11.66	12.80	14.02	9 / 7				
reaction time		interval		1.13	1.10	1.09	1.12	1.11	1.09	1.12	1.15	1.14	1.22		3.32	3.32	3.41	
wind	-0.6 m/s	velocity	4.73	7.52	7.73	7.80	7.59	7.66	7.80	7.59	7.39	7.46	8.61	7.13	7.68	7.68	7.48	
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)		(2017) - tfd-data-store.com/2017/05/01/458/																
date	29-Apr-17	time	2.68	3.77	4.86	5.94	7.01	8.08	9.15	10.24	11.35	12.46	13.68	2 / 5				
reaction time		interval		1.09	1.09	1.08	1.07	1.07	1.07	1.09	1.11	1.11	1.22		3.26	3.21	3.31	
wind	4.1 m/s	velocity	4.85	7.80	7.80	7.87	7.94	7.94	7.94	7.80	7.66	7.66	8.61	7.31	7.82	7.94	7.70	
FINAL - 2016 National Sports Festival (Kitakami, JPN)		(2016.11.14) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																
date	10-Oct-16	time	2.65	3.72	4.78	5.83	6.87	7.91	8.95	10.04	11.11	12.23	13.46	4 / 2				
reaction time	0.153	interval		1.07	1.06	1.05	1.04	1.04	1.04	1.09	1.07	1.12	1.23		3.18	3.12	3.28	
wind	2.8 m/s	velocity	4.91	7.94	8.02	8.10	8.17	8.17	8.17	7.80	7.94	7.59	8.54	7.43	8.02	8.17	7.77	
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	2.68	3.75	4.82	5.88	6.92	7.98	9.06	10.13	11.21	12.31	13.50	6 / 1				
reaction time	0.185	interval		1.07	1.07	1.06	1.04	1.06	1.08	1.07	1.08	1.10	1.19		PB	3.20	3.18	3.25
wind	-0.2 m/s	velocity	4.85	7.94	7.94	8.02	8.17	8.02	7.87	7.94	7.87	7.73	8.82	7.41	7.97	8.02	7.85	
FINAL - 2016 Japanese National Championships (Nagoya, JPN)		Kota (2016) - <i>race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>																
date	26-Jun-16	time	2.66	3.75	4.83	5.91	6.97	8.02	9.08	10.14	11.22	12.31	13.49	8 / 7				
reaction time	0.141	interval		1.09	1.08	1.08	1.06	1.05	1.06	1.06	1.08	1.09	1.18		3.25	3.17	3.23	
wind	2.1 m/s	velocity	4.89	7.80	7.87	7.87	8.02	8.10	8.02	8.02	7.87	7.80	8.90	7.41	7.85	8.04	7.89	
FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)		Kota (2016) - <i>race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>																
date	29-Apr-16	time	2.72	3.85	4.95	6.05	7.14	8.20	9.26	10.35	11.42	12.53	13.68	3 / 6				
reaction time		interval		1.13	1.10	1.10	1.09	1.06	1.06	1.09	1.07	1.11	1.15		3.33	3.21	3.27	
wind	1.1 m/s	velocity	4.78	7.52	7.73	7.73	7.80	8.02	8.02	7.80	7.94	7.66	9.13	7.31	7.66	7.94	7.80	
FINAL - 2014 Japanese National High School Championships (Kofu, JPN)		Yanagiya (2014) - <i>research on athlete performance and technique- 2014 data book</i>																
date	03-Aug-14	time	2.77	3.88	4.98	6.07	7.14	8.22	9.30	10.39	11.47	12.59	13.83	3 / 2				
reaction time		interval		1.11	1.10	1.09	1.07	1.08	1.08	1.09	1.08	1.12	1.24		PB	3.30	3.23	3.29
wind	-0.9 m/s	velocity	4.69	7.66	7.73	7.80	7.94	7.87	7.87	7.80	7.87	7.59	8.47	7.23	7.73	7.89	7.75	
Kocielnik, Joanna (POL) (1983)																		
FINAL - 2007 European Cup (Munich, GER)		Graubner (2007) - http://www.fgs.uni-halle.de																
date	24-Jun-07	time	2.78	3.84	4.90	5.96	7.00	8.02	9.06	10.10	11.16	12.24	13.35	1 / 7				
reaction time	0.249	interval		1.06	1.06	1.06	1.04	1.02	1.04	1.04	1.06	1.08	1.11		3.18	3.10	3.18	
wind	0.9 m/s	velocity	4.68	8.02	8.02	8.02	8.17	8.33	8.17	8.17	8.02	7.87	9.46	7.49	8.02	8.23	8.02	
Kodera, Saki (JPN) (2005)																		
FINAL - 2023 Japanese U20 National Championships (Osaka, JPN)		Kishima (2024) - <i>race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>																
date	03-Jun-23	time	2.69	3.83	4.93	6.00	7.08	8.18	9.29	10.41	11.53	12.68	13.93	5 / 4				
reaction time	0.176	interval		1.14	1.10	1.07	1.08	1.10	1.11	1.12	1.12	1.15	1.25		PB	3.31	3.29	3.39
wind	-1.4 m/s	velocity	4.83	7.46	7.73	7.94	7.87	7.73	7.66	7.59	7.59	7.39	8.04	7.18	7.70	7.75	7.52	
Kokkonen, Tanja (FIN) (2002)																		
FINAL - 2020 Motonet GP (Jyräskylä, FIN) (TV Analysis)		Henson (2020) - <i>Athlete First: 2020 year end hurdle report</i>																
date	08-Jul-20	time	2.70	3.83	4.96	6.06	7.16	8.26	9.36	10.50	11.66	12.86	14.21	1 / 7				
reaction time		interval		1.13	1.13	1.10	1.10	1.10	1.10	1.14	1.16	1.20	1.35		3.36	3.30	3.50	
wind	0.7 m/s	velocity	4.81	7.52	7.52	7.73	7.73	7.73	7.73	7.46	7.33	7.08	7.44	7.04	7.59	7.73	7.29	
Kołeczek, Karolina (POL) (1993)																		
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)		Henson (2020) - <i>Athlete First: 2019 year end hurdle report</i>																
date	06-Oct-19	time	2.44	3.48	4.48	5.46	6.46	7.50	8.50	9.50	10.52	11.56	12.86	8 / 4				
reaction time	0.134	interval		1.04	1.00	0.98	1.00	1.04	1.00	1.00	1.02	1.04	1.30		3.02	3.04	3.06	
wind	0.8 m/s	velocity	5.33	8.17	8.50	8.67	8.50	8.17	8.50	8.50	8.50	8.33	8.17	7.73	8.44	8.39	8.33	
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)		Henson (2020) - <i>Athlete First: 2019 year end hurdle report</i>																
date	10-Sep-19	time	2.56	3.60	4.60	5.60	6.60	7.60	8.60	9.60	10.63	11.63	12.86	2 / 2				
reaction time	0.166	interval		1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.03	1.00	1.23		3.04	3.00	3.03	
wind	0.1 m/s	velocity	5.08	8.17	8.50	8.50	8.50	8.50	8.50	8.50	8.25	8.50	8.54	7.78	8.39	8.50	8.42	
FINAL - 2019 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)		Henson (2020) - <i>Athlete First: 2019 year end hurdle report</i>																
date	12-Jul-19	time	2.56	3.64	4.64	5.66	6.66	7.68	8.68	9.70	10.74	11.78	12.93	8 / 6				
reaction time	0.130	interval		1.08	1.00	1.02	1.00	1.02	1.00	1.02	1.04	1.04	1.15		3.10	3.02	3.10	

wind	0.1 m/s	velocity	5.08	7.87	8.50	8.33	8.50	8.33	8.50	8.33	8.17	8.17	9.13	7.73		8.23	8.44	8.23
Komisova, Vera (URS) (1953)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1980 Olympic Games (Moscow, URS) <i>McFarlane (1988) - the science of hurdling</i>																		
date	28-Jul-80	time	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5	11.5		12.56	5 / 1			
reaction time	0.135	interval	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.06	OR / PB		3.00	3.00	3.00
wind	1.0 m/s	velocity	5.20	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	9.91	7.96		8.50	8.50	8.50
A FINAL - 1979 VII USSR Spartakiade (Moscow, URS) <i>Balachničiv (1981) - Periodisierung & Zyklisierung des Trainings 78/79 Hürdenläuferinnen der Spitzenklasse der UdSSR</i>																		
date	25-Jul-79	time	2.50	3.56	4.60	5.63	6.64	7.63	8.61	9.65	10.68	11.74		12.94	1 / 2			
reaction time		interval	1.06	1.04	1.03	1.01	0.99	0.98	1.04	1.03	1.06	1.20				3.13	2.98	3.13
wind	???	velocity	5.20	8.02	8.17	8.25	8.42	8.59	8.67	8.17	8.25	8.02	8.75	7.73		8.15	8.56	8.15
Komoll, Jennifer (GER) (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 German National Indoor Championships (Sindelfingen, GER) <i>Hücklekemkes (2002) - explosive starten vielfältig erlernen</i>																		
date	16-Feb-02	time	2.64	3.76	4.78	5.82	6.89							8.33	1 / 5			
reaction time	0.119	interval	1.12	1.02	1.04	1.07						1.44				3.18		
wind		velocity	4.92	7.59	8.33	8.17	7.94					9.03	7.20			8.02		
Komrsková, Aneta (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 2 - 2014 Czech Republic National Championships (Ostrava, CZE) <i>Feher (2014) - Final report from the Czech Republic national championships</i>																		
date	02-Aug-14	time	2.90	4.06	5.20	6.35	7.49	8.61	9.77	10.94	12.13	13.38		14.69	2 / 6			
reaction time	0.213	interval	1.16	1.14	1.15	1.14	1.12	1.16	1.17	1.19	1.25	1.31				3.45	3.42	3.61
wind	-1.0 m/s	velocity	4.48	7.33	7.46	7.39	7.46	7.59	7.33	7.26	7.14	6.80	8.02	6.81		7.39	7.46	7.06
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	2.80	3.94	5.05	6.15	7.24	8.35	9.44	10.56	11.72	12.85		14.14	1 / 6			
reaction time	0.203	interval	1.14	1.11	1.10	1.09	1.11	1.09	1.12	1.16	1.13	1.29				3.35	3.29	3.41
wind	0.3 m/s	velocity	4.64	7.46	7.66	7.73	7.80	7.66	7.80	7.59	7.33	7.52	8.14	7.07		7.61	7.75	7.48
Heat 2 - 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	2.18	3.94	5.08	6.20	7.32	8.42	9.55	10.69	11.81	12.98		14.31	3 / 4			
reaction time	0.188	interval	1.76	1.14	1.12	1.12	1.10	1.13	1.14	1.12	1.17	1.33				4.02	3.35	3.43
wind	-0.9 m/s	velocity	5.96	4.83	7.46	7.59	7.59	7.73	7.52	7.46	7.59	7.26	7.89	6.99		6.34	7.61	7.43
FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE) <i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>																		
date	25-Feb-12	time	2.79	3.99	5.14	6.26	7.41							9.01	8 / 8			
reaction time	0.153	interval	1.20	1.15	1.12	1.15						1.60				3.47		
		velocity	4.66	7.08	7.39	7.59	7.39					8.13	6.66			7.35		
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE) <i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>																		
date	25-Feb-12	time	2.79	3.98	5.11	6.25	7.38							9.00	2 / 3			
reaction time	0.145	interval	1.19	1.13	1.14	1.13						1.62				3.46		
		velocity	4.66	7.14	7.52	7.46	7.52					8.02	6.67			7.37		
Kondakova, Yuliya (RUS) (1981)			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 (2011) - Athlete First: major championships report</i>																		
date	17-Aug-13	time	2.56	3.60	4.62	5.60	6.60	7.60	8.60	9.62	10.64	11.68		12.86	8 / 8			
reaction time	0.206	interval	1.04	1.02	0.98	1.00	1.00	1.00	1.02	1.02	1.04	1.18				3.04	3.00	3.08
wind	-0.6 m/s	velocity	5.08	8.17	8.33	8.67	8.50	8.50	8.50	8.33	8.33	8.17	8.90	7.78		8.39	8.50	8.28
FINAL - 2013 European Indoor Championships (Göteborg, SWE) <i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>																		
date	01-Mar-13	time	2.58	3.64	4.65	5.64	6.65							7.99	6 / 5-4			
reaction time	0.159	interval	1.06	1.01	0.99	1.01						1.34				3.06		
		velocity	5.04	8.02	8.42	8.59	8.42					9.70	7.51			8.33		
Heat 3 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	18-Aug-09	time	2.65	3.71	4.72	5.71	6.71	7.70	8.71	9.71	10.72	11.76		12.88	3 / 3			
reaction time	0.145	interval	1.06	1.01	0.99	1.00	0.99	1.01	1.00	1.01	1.04	1.12				3.06	3.00	3.05
wind	0.1 m/s	velocity	4.91	8.02	8.42	8.59	8.50	8.59	8.42	8.50	8.42	8.17	9.37	7.76		8.33	8.50	8.36
Kong Rui (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN) <i>CAA Hurdle Development (2021)</i>																		
date	24-Jun-21	time	3.02	4.19	5.37	6.52	7.67	8.88	10.01	11.18	12.40	13.58		14.86	3 / 4			
reaction time	0.266	interval	1.17	1.18	1.15	1.15	1.21	1.13	1.17	1.22	1.18	1.28				3.50	3.49	3.57
wind	0.6 m/s	velocity	4.30	7.26	7.20	7.39	7.39	7.01	7.54	7.26	6.97	7.20	7.85	6.73		7.29	7.31	7.14
Heat 1 - 2021 National Grand Prix (Chengdu, CHN) <i>CAA Hurdle Development (2021)</i>																		
date	02-Apr-21	time	2.98	4.16	5.32	6.46	7.60	8.76	9.90	11.06	12.24	13.44		14.71	3 / 4			
reaction time	0.216	interval	1.18	1.16	1.14	1.14	1.16	1.14	1.16	1.18	1.20	1.27				3.48	3.44	3.54
wind	1.0 m/s	velocity	4.36	7.20	7.33	7.46	7.46	7.33	7.46	7.33	7.20	7.08	7.91	6.80		7.33	7.41	7.20
Heat 1 - 2021 National Indoor Grand Prix (Chengdu, CHN) <i>CAA Hurdle Development (2021)</i>																		

date 13-Mar-21 time 2.92 4.09 5.27 6.42 7.59
 reaction time 0.211 interval 1.17 1.18 1.15 1.17
 velocity 4.45 7.26 7.20 7.39 7.26

9.12 4 / 6
 1.53 PB 3.50
 8.50 6.58 7.29

Konohta, Nishio (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 2.87 4.10 5.28 6.52 7.73 8.97 10.18 11.42 12.65 13.93 15.37 7 / 2
 reaction time interval 1.23 1.18 1.24 1.21 1.24 1.21 1.24 1.23 1.28 1.44 3.65 3.66 3.75
 wind -1.0 m/s velocity 4.53 6.91 7.20 6.85 7.02 6.85 7.02 6.85 6.91 6.64 6.98 6.51 6.99 6.97 6.80

Kononova, Lyubov (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) Artyschenko (1977) - zwischen den hürden geht es um die sekunde, teil 2
 date 29-May-75 time 2.3 3.5 4.6 5.7 6.7 7.7 8.7 9.8 10.8 11.9 13.1 / 1
 reaction time interval 1.20 1.11 1.04 1.02 1.02 1.02 1.03 1.04 1.08 1.22 3.35 3.06 3.15
 wind ??? velocity 5.60 7.08 7.66 8.17 8.33 8.33 8.33 8.25 8.17 7.87 8.61 7.63 7.61 8.33 8.10

Kopečná, Kristyna (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) (76cm) Feher (2014) - Final report from the U18 & U20 Czech Republic national championships
 date 28-Jun-14 time 2.90 4.08 5.27 6.50 7.75 9.00 10.30 11.60 12.88 14.15 15.59 8 / 6
 reaction time interval 1.18 1.19 1.23 1.25 1.25 1.30 1.30 1.28 1.27 1.44 3.60 3.80 3.85
 wind -1.3 m/s velocity 4.48 7.20 7.14 6.91 6.80 6.80 6.54 6.54 6.64 6.69 7.29 6.41 7.08 6.71 6.62

Korešová, Jana (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 - 2012 Czech Republic National Indoor Championships (Praha, CZE) Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles
 date 25-Feb-12 time 2.69 3.80 4.87 5.94 6.99 8.42 4 / 1
 reaction time interval 1.11 1.07 1.07 1.05 1.43 3.25
 velocity 4.83 7.66 7.94 7.94 8.10 9.09 7.13 7.85

Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE) Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles
 date 25-Feb-12 time 2.72 3.84 4.90 5.98 7.03 8.49 4 / 1
 reaction time interval 1.12 1.06 1.08 1.05 1.46 3.26
 velocity 4.78 7.59 8.02 7.87 8.10 8.90 7.07 7.82

Koroteyeva, Mariya (RUS) (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) Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance
 date 24-Aug-04 time 2.61 3.64 4.63 5.64 6.61 7.57 8.56 9.57 10.58 11.61 12.72 8 / 4
 reaction time interval 1.03 0.99 1.01 0.97 0.96 0.99 1.01 1.01 1.03 1.11 3.03 2.92 3.05
 wind 0.3 m/s velocity 4.98 8.25 8.59 8.42 8.76 8.85 8.59 8.42 8.42 8.25 9.46 7.86 8.42 8.73 8.36

Korotyá, Irina (RUS) (1975)

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 2.68 3.73 4.76 5.80 6.78 7.82 8.84 9.83 10.91 11.94 13.06 / 1
 reaction time interval 1.05 1.03 1.04 0.98 1.04 1.02 0.99 1.08 1.03 1.12 3.12 3.04 3.10
 wind 0.6 m/s velocity 4.85 8.10 8.25 8.17 8.67 8.17 8.33 8.59 7.87 8.25 9.37 7.66 8.17 8.39 8.23

Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP) Sanchez (1999) - Sevilla '99: análisis de la carreras con villas
 date 27-Aug-99 time 2.62 3.65 4.64 5.62 6.60 7.60 8.59 9.61 10.62 11.65 12.86 8 / 6
 reaction time interval 1.03 0.99 0.98 0.98 1.00 0.99 1.02 1.01 1.03 1.21 3.00 2.97 3.06
 wind 1.0 m/s velocity 4.96 8.25 8.59 8.67 8.67 8.50 8.59 8.33 8.42 8.25 8.68 7.78 8.50 8.59 8.33

FINAL - 1998 European Championships (Budapest, HUN) Sanchez (1998) - Budapest '98: análisis de la carreras con villas
 date 23-Aug-98 time 2.61 3.66 4.68 5.67 6.66 7.63 8.65 9.68 10.70 11.75 12.85 3 / 3
 reaction time interval 1.05 1.02 0.99 0.99 0.97 1.02 1.03 1.02 1.05 1.10 3.06 2.98 3.10
 wind 1.5 m/s velocity 4.98 8.10 8.33 8.59 8.59 8.76 8.33 8.25 8.33 8.10 9.55 7.78 8.33 8.56 8.23

Korshunova, Nadezhda (URS) (1961)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 1984 USSR National Championships (Kiev, URS) Breiser (1985) - over the hurdles with vera akimova and nadezhda korshunova
 date 22-Jun-84 time 2.54 3.60 4.60 5.60 6.60 7.60 8.60 9.60 10.64 11.70 12.72 / 2
 reaction time interval 1.06 1.00 1.00 1.00 1.00 1.00 1.00 1.04 1.06 1.02 3.06 3.00 3.10
 wind -0.5 m/s velocity 5.12 8.02 8.50 8.50 8.50 8.50 8.50 8.50 8.17 8.02 10.29 7.86 8.33 8.50 8.23

Korte, Annamari (FIN) (1988)

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 31-Jul-21 time 2.66 3.69 4.69 5.69 6.69 7.69 8.72 9.74 10.81 11.89 13.06 7 / 5
 reaction time interval 1.03 1.00 1.00 1.00 1.00 1.03 1.02 1.07 1.08 1.17 3.03 3.03 3.17
 wind 0.4 m/s velocity 4.89 8.25 8.50 8.50 8.50 8.50 8.25 8.33 7.94 7.87 8.59 7.66 8.42 8.42 8.04

FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis) Henson (2020) - Athlete First: 2020 year end hurdle report
 date 17-Sep-20 time 2.56 3.64 4.68 5.72 6.76 7.80 8.86 9.92 10.98 12.06 13.34 4 / 9
 reaction time interval 1.08 1.04 1.04 1.04 1.04 1.06 1.06 1.06 1.08 1.28 3.16 3.14 3.20
 wind 0.1 m/s velocity 5.08 7.87 8.17 8.17 8.17 8.17 8.02 8.02 8.02 7.87 7.85 7.50 8.07 8.12 7.97

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	3.57	4.62	5.61	6.64	7.64	8.64	9.67	10.71	11.81		13.09	7 / 5			
reaction time	0.148	interval		1.03	1.05	0.99	1.03	1.00	1.00	1.03	1.04	1.10	1.28			3.07	3.03	3.17
wind	-0.2 m/s	velocity	5.12	8.25	8.10	8.59	8.25	8.50	8.50	8.25	8.17	7.73	7.85	7.64		8.31	8.42	8.04

FINAL - 2020 Finnish National Championships (Turku, FIN) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	14-Aug-20	time	2.60	3.66	4.66	5.63	6.60	7.60	8.60	9.57	10.57	11.60		12.79	4 / 1			
reaction time	0.197	interval		1.06	1.00	0.97	0.97	1.00	1.00	0.97	1.00	1.03	1.19			3.03	2.97	3.00
wind	1.0 m/s	velocity	5.00	8.02	8.50	8.76	8.76	8.50	8.50	8.76	8.50	8.25	8.45	7.82		8.42	8.59	8.50

FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	11-Aug-20	time	2.62	3.64	4.64	5.64	6.64	7.62	8.62	9.64	10.66	11.68		12.89	3 / 4			
reaction time	0.225	interval		1.02	1.00	1.00	1.00	0.98	1.00	1.02	1.02	1.02	1.21			3.02	2.98	3.06
wind	1.2 m/s	velocity	4.96	8.33	8.50	8.50	8.50	8.67	8.50	8.33	8.33	8.33	8.31	7.76		8.44	8.56	8.33

FINAL - 2020 Motonet GP (Jyräskylä, FIN) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	08-Jul-20	time	2.60	3.63	4.66	5.66	6.63	7.60	8.60	9.60	10.60	11.63		12.76	4 / 1			
reaction time		interval		1.03	1.03	1.00	0.97	0.97	1.00	1.00	1.00	1.03	1.13			3.06	2.94	3.03
wind	0.7 m/s	velocity	5.00	8.25	8.25	8.50	8.76	8.76	8.50	8.50	8.50	8.25	8.89	7.84		8.33	8.67	8.42

Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	06-Oct-19	time	2.54	3.58	4.58	5.58	6.60	7.58	8.58	9.60	10.64	11.68		12.97	9 / 6			
reaction time	0.176	interval		1.04	1.00	1.00	1.02	0.98	1.00	1.02	1.04	1.04	1.29			3.04	3.00	3.10
wind	1.0 m/s	velocity	5.12	8.17	8.50	8.50	8.33	8.67	8.50	8.33	8.17	8.17	7.79	7.71		8.39	8.50	8.23

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	2.56	3.63	4.66	5.66	6.66	7.66	8.66	9.68	10.70	11.75		12.98	6 / 5			
reaction time	0.140	interval		1.07	1.03	1.00	1.00	1.00	1.00	1.02	1.02	1.05	1.23			3.10	3.00	3.09
wind	0.1 m/s	velocity	5.08	7.94	8.25	8.50	8.50	8.50	8.50	8.33	8.33	8.10	8.54	7.70		8.23	8.50	8.25

Koto, Koenoson (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 Miyazaki Prefecture High School Championships (Miyazaki, JPN)***(2016.10.26) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	16-Sep-16	time	2.71	3.88	5.05	6.21	7.37	8.55	9.75	10.95	12.18	13.45		14.82	4 / 1			
reaction time		interval		1.17	1.17	1.16	1.16	1.18	1.20	1.20	1.23	1.27	1.37			3.50	3.54	3.70
wind	-0.4 m/s	velocity	4.80	7.26	7.26	7.33	7.33	7.20	7.08	7.08	6.91	6.69	7.66	6.75		7.29	7.20	6.89

Koudelová, Lucie (CZE) (1994)**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	3.72	4.78	5.79	6.80	7.81	8.82	9.87	10.90	11.96		13.15	5 / 2			
reaction time	0.141	interval		1.04	1.06	1.01	1.01	1.01	1.05	1.03	1.06	1.19	PB			3.11	3.03	3.14
wind	0.4 m/s	velocity	4.85	8.17	8.02	8.42	8.42	8.42	8.42	8.10	8.25	8.02	8.82	7.60		8.20	8.42	8.12

Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)*Feher (2014) - Final report from the Czech Republic national championships*

date	02-Aug-14	time	2.77	3.90	4.98	6.03	7.08	8.13	9.18	10.25	11.31	12.40		13.51	4 / 1			
reaction time	0.135	interval		1.13	1.08	1.05	1.05	1.05	1.05	1.07	1.06	1.09	1.11			3.26	3.15	3.22
wind	-1.0 m/s	velocity	4.69	7.52	7.87	8.10	8.10	8.10	8.10	7.94	8.02	7.80	9.46	7.40		7.82	8.10	7.92

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	3.92	5.00	6.09	7.16	8.23	9.31	10.40	11.49	12.61		13.79	6 / 4			
reaction time	0.171	interval		1.14	1.08	1.09	1.07	1.07	1.08	1.09	1.09	1.12	1.18			3.31	3.22	3.30
wind	0.3 m/s	velocity	4.68	7.46	7.87	7.80	7.94	7.94	7.87	7.80	7.80	7.59	8.90	7.25		7.70	7.92	7.73

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	2.78	3.89	5.00	6.08	7.16	8.24	9.33	10.44	11.54	12.68		13.94	5 / 2			
reaction time	0.143	interval		1.11	1.11	1.08	1.08	1.08	1.09	1.11	1.10	1.14	1.26			3.30	3.25	3.35
wind	-1.0 m/s	velocity	4.68	7.66	7.66	7.87	7.87	7.87	7.80	7.66	7.73	7.46	8.33	7.17		7.73	7.85	7.61

Kozák, Luca (HUN) (1996)**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	08-Aug-24	time	2.48	3.55	4.57	5.58	6.57	7.57	8.58	9.60	10.64	11.69		12.96	2 / 3			
reaction time	0.147	interval		1.07	1.02	1.01	0.99	1.00	1.01	1.02	1.04	1.05	1.27			3.10	3.00	3.11
wind	-0.2 m/s	velocity	5.24	7.94	8.33	8.42	8.59	8.50	8.42	8.33	8.17	8.10	7.91	7.72		8.23	8.50	8.20

Heat 4 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	07-Aug-24	time	2.53	3.62	4.64	5.67	6.68	7.68	8.71	9.74	10.79	11.84		13.11	5 / 6			
reaction time	0.168	interval		1.09	1.02	1.03	1.01	1.00	1.03	1.03	1.05	1.05	1.27			3.14	3.04	3.13
wind	0.0 m/s	velocity	5.14	7.80	8.33	8.25	8.42	8.50	8.25	8.25	8.10	8.10	7.91	7.63		8.12	8.39	8.15

FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) *Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date	03-Mar-24	time	2.62	3.67	4.68	5.70	6.68							8.01	1 / 8			
reaction time	0.150	interval		1.05	1.01	1.02	0.98						1.33			3.08		
		velocity	4.96	8.10	8.42	8.33	8.67						9.77	7.49		8.28		

FINAL - 2024 Villa de Madrid Indoor Meeting (Madrid, ESP) (TV Analysis)*Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date	23-Feb-24	time	2.57	3.60	4.62	5.62	6.62								8.06	7 / 6				
reaction time	0.148	interval		1.03	1.02	1.00	1.00							1.44				3.05		
		velocity	5.06	8.25	8.33	8.50	8.50							9.03	7.44			8.36		
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	23-Aug-23	time	2.53	3.57	4.57	5.55	6.53	7.51	8.51	9.49	10.51	11.54			12.73	3 / 4				
reaction time	0.142	interval		1.04	1.00	0.98	0.98	0.98	1.00	0.98	1.02	1.03	1.19					3.02	2.96	3.03
wind	-0.7 m/s	velocity	5.14	8.17	8.50	8.67	8.67	8.67	8.50	8.67	8.33	8.25	8.45	7.86				8.44	8.61	8.42
Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	22-Aug-23	time	2.58	3.62	4.61	5.61	6.58	7.58	8.56	9.54	10.55	11.58			12.71	6 / 3				
reaction time	0.149	interval		1.04	0.99	1.00	0.97	1.00	0.98	0.98	1.01	1.03	1.13					3.03	2.95	3.02
wind	0.0 m/s	velocity	5.04	8.17	8.59	8.50	8.76	8.50	8.67	8.67	8.42	8.25	8.89	7.87				8.42	8.64	8.44
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)																<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	21-Aug-22	time	2.56	3.56	4.56	5.54	6.50	7.48	8.46	9.45	10.45	11.47			12.69	5 / 2				
reaction time	0.155	interval		1.00	1.00	0.98	0.96	0.98	0.98	0.99	1.00	1.02	1.22	=NR =PB				2.98	2.92	3.01
wind	-0.1 m/s	velocity	5.08	8.50	8.50	8.67	8.85	8.67	8.67	8.59	8.50	8.33	8.24	7.88				8.56	8.73	8.47
FINAL - 2022 Gyulai István Memorial (Székesfehérvár, HUN) (TV Analysis)																<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	08-Aug-22	time	2.58	3.63	4.63	5.60	6.60	7.60	8.60	9.60					dnf	3 / --				
reaction time	0.165	interval		1.05	1.00	0.97	1.00	1.00	1.00	1.00					DQ			3.02	3.00	
wind	2.4 m/s	velocity	5.04	8.10	8.50	8.76	8.50	8.50	8.50	8.50								8.44	8.50	
FINAL - 2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)																<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	14-Jun-22	time	2.60	3.68	4.70	5.72	6.72	7.74	8.76	9.78	10.80	11.82			13.05	1 / 7				
reaction time	0.147	interval		1.08	1.02	1.02	1.00	1.02	1.02	1.02	1.02	1.02	1.23					3.12	3.04	3.06
wind	0.2 m/s	velocity	5.00	7.87	8.33	8.33	8.50	8.33	8.33	8.33	8.33	8.33	8.17	7.66				8.17	8.39	8.33
FINAL - 2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)																<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	03-Jun-22	time	2.60	3.66	4.68	5.70	6.70	7.70	8.74	9.76	10.78	11.82			13.05	9 / 5				
reaction time		interval		1.06	1.02	1.02	1.00	1.00	1.04	1.02	1.02	1.04	1.23					3.10	3.04	3.08
wind	0.2 m/s	velocity	5.00	8.02	8.33	8.33	8.50	8.50	8.17	8.33	8.33	8.17	8.17	7.66				8.23	8.39	8.28
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)																<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	09-Sep-21	time	2.56	3.60	4.58	5.58	6.56	7.58	8.58	9.58	10.60	11.64			12.90	8 / 7				
reaction time	0.187	interval		1.04	0.98	1.00	0.98	1.02	1.00	1.00	1.02	1.04	1.26					3.02	3.00	3.06
wind	0.4 m/s	velocity	5.08	8.17	8.67	8.50	8.67	8.33	8.50	8.50	8.33	8.17	7.98	7.75				8.44	8.50	8.33
Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
date	01-Aug-21	time	2.55	3.58	4.58	5.57	6.56	7.57							dnf	9 / --				
reaction time	0.164	interval		1.03	1.00	0.99	0.99	1.01										3.02		
wind	-0.8 m/s	velocity	5.10	8.25	8.50	8.59	8.59	8.42										8.44		
Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
date	31-Jul-21	time	2.61	3.66	4.64	5.61	6.61	7.64	8.66	9.69	10.74	11.78			12.97	4 / 3				
reaction time		interval		1.05	0.98	0.97	1.00	1.03	1.02	1.03	1.05	1.04	1.19					3.00	3.05	3.12
wind	-1.1 m/s	velocity	4.98	8.10	8.67	8.76	8.50	8.25	8.33	8.25	8.10	8.17	8.45	7.71				8.50	8.36	8.17
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	3.54	4.57	5.54	6.54	7.54	8.54	9.54	10.57	11.64			12.85	6 / 7				
reaction time	0.150	interval		1.04	1.03	0.97	1.00	1.00	1.00	1.00	1.03	1.07	1.21					3.04	3.00	3.10
wind	0.2 m/s	velocity	5.20	8.17	8.25	8.76	8.50	8.50	8.50	8.50	8.25	7.94	8.31	7.78				8.39	8.50	8.23
FINAL - 2021 Müller Grand Prix (Gateshead, GBR) (TV Analysis)																<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	23-May-21	time	2.60	3.70	4.74	5.78	6.82	7.84	8.90	9.94	11.00	12.08			13.37	6 / 2				
reaction time	0.161	interval		1.10	1.04	1.04	1.04	1.02	1.06	1.04	1.06	1.08	1.29					3.18	3.12	3.18
wind	-3.9 m/s	velocity	5.00	7.73	8.17	8.17	8.17	8.33	8.02	8.17	8.02	7.87	7.79	7.48				8.02	8.17	8.02
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	2.54	3.56	4.58	5.58	6.58								8.01	1 / 8				
reaction time	0.195	interval		1.02	1.02	1.00	1.00						1.43					3.04		
		velocity	5.12	8.33	8.33	8.50	8.50						9.09	7.49				8.39		
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	2.47	3.50	4.50	5.47	6.44	7.44	8.44	9.44	10.44	11.44			12.71	6 / 2				
reaction time	0.168	interval		1.03	1.00	0.97	0.97	1.00	1.00	1.00	1.00	1.00	1.27	NR PB				3.00	2.97	3.00
wind	-0.2 m/s	velocity	5.26	8.25	8.50	8.76	8.76	8.50	8.50	8.50	8.50	8.50	7.91	7.87				8.50	8.59	8.50
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	2.56	3.60	4.62	5.60	6.58	7.58	8.56	9.54	10.58	11.60			12.83	8 / 3				
reaction time	0.174	interval		1.04	1.02	0.98	0.98	1.00	0.98	0.98	1.04	1.02	1.23	PB				3.04	2.96	3.04
wind	1.2 m/s	velocity	5.08	8.17	8.33	8.67	8.67	8.50	8.67	8.67	8.17	8.33	8.17	7.79				8.39	8.61	8.39

Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	06-Oct-19	time	2.52	3.56	4.58	5.56	6.56	7.54	8.54	9.56	10.58	11.62	12.87	8 / 5			
reaction time	0.187	interval		1.04	1.02	0.98	1.00	0.98	1.00	1.02	1.02	1.04	1.25		3.04	2.98	3.08
wind	1.0 m/s	velocity	5.16	8.17	8.33	8.67	8.50	8.67	8.50	8.33	8.33	8.17	8.04	7.77	8.39	8.56	8.28

FINAL - 2018 Spitzen Leichtathletik (Luzern, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	09-Jul-18	time	2.68											dnf	8 / 8		
reaction time		interval															
wind	0.9 m/s	velocity	4.85														

Králová, Adéla (CZE) (1996)**FINAL - 2019 ISTAF Indoor (Berlin, GER) (TV Analysis)***Henson (2020) - Athlete First: 2019 year end hurdle report*

date	1-Feb-19	time	2.60	3.62	4.66	5.68	6.68						8.07	2 / 4			
reaction time	0.153	interval		1.02	1.04	1.02	1.00					1.39	=PB		3.08		
wind		velocity	5.00	8.33	8.17	8.33	8.50					9.35	7.43		8.28		

FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE)*Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.99	4.22	5.47	6.69	7.96	9.20	10.56	11.93	13.37	14.94	16.68	8 / 7			
reaction time	0.220	interval		1.23	1.25	1.22	1.27	1.24	1.36	1.37	1.44	1.57	1.74		3.70	3.87	4.38
wind	-3.9 m/s	velocity	4.35	6.91	6.80	6.97	6.69	6.85	6.25	6.20	5.90	5.41	6.03	6.00	6.89	6.59	5.82

Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE)*Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.92	4.17	5.35	6.59	7.82	9.07	10.37	11.63	12.94	14.23	15.68	6 / 5			
reaction time	0.178	interval		1.25	1.18	1.24	1.23	1.25	1.30	1.26	1.31	1.29	1.45		3.67	3.78	3.86
wind	-4.5 m/s	velocity	4.45	6.80	7.20	6.85	6.91	6.80	6.54	6.75	6.49	6.59	7.24	6.38	6.95	6.75	6.61

Krasovska, Olena (UKR) (1976)**FINAL - 2004 Olympic Games (Athens, GRE)***Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	24-Aug-04	time	2.55	3.55	4.55	5.51	6.48	7.45	8.41	9.39	10.37	11.36	12.45	1 / 2			
reaction time	0.151	interval		1.00	1.00	0.96	0.97	0.97	0.96	0.98	0.98	0.99	1.09	PB	2.96	2.90	2.95
wind	0.3 m/s	velocity	5.10	8.50	8.50	8.85	8.76	8.76	8.85	8.67	8.67	8.59	9.63	8.03	8.61	8.79	8.64

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	2.51	3.52	4.52	5.54	6.55	7.57	8.58	9.61	10.63	11.68	13.07	3 / 4			
reaction time	0.146	interval		1.01	1.00	1.02	1.01	1.02	1.01	1.03	1.02	1.05	1.39		3.03	3.04	3.10
wind	1.5 m/s	velocity	5.18	8.42	8.50	8.33	8.42	8.33	8.42	8.25	8.33	8.10	7.55	7.65	8.42	8.39	8.23

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

date	09-Aug-02	time	2.62	3.66	4.68	5.68	6.68	7.66	8.68	9.70	10.72	11.77	12.88	1 / 2			
reaction time	0.145	interval		1.04	1.02	1.00	1.00	0.98	1.02	1.02	1.02	1.05	1.11		3.06	3.00	3.09
wind	-0.7 m/s	velocity	4.96	8.17	8.33	8.50	8.50	8.67	8.33	8.33	8.33	8.33	8.10	9.46	7.76	8.33	8.50

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

date	09-Aug-02	time	2.64	3.70	4.72	5.72	6.72	7.70	8.70	9.72	10.76	11.80	12.88	1 / 2			
reaction time	0.131	interval		1.06	1.02	1.00	1.00	0.98	1.00	1.02	1.04	1.04	1.08		3.08	2.98	3.10
wind	0.0 m/s	velocity	4.92	8.02	8.33	8.50	8.50	8.67	8.50	8.33	8.17	8.17	9.72	7.76	8.28	8.56	8.23

Heat 4 - 2002 European Championships (Munich, GER)*Graubner (2009) - <http://www.fgs.uni-halle.de>*

date	08-Aug-02	time	2.70	3.76	4.78	5.80	6.80	7.81	8.82	9.84	10.86	11.91	13.04	1 / 2			
reaction time	0.157	interval		1.06	1.02	1.02	1.00	1.01	1.01	1.02	1.02	1.05	1.13		3.10	3.02	3.09
wind	0.3 m/s	velocity	4.81	8.02	8.33	8.33	8.50	8.42	8.42	8.33	8.33	8.10	9.29	7.67	8.23	8.44	8.25

Krizsán, Xénia (HUN) (1993)**Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.60	3.71	4.77	5.82	6.86	7.91	8.98	10.04	11.14	12.25	13.61	5 / 5			
reaction time	0.169	interval		1.11	1.06	1.05	1.04	1.05	1.07	1.06	1.10	1.11	1.36		3.22	3.16	3.27
wind	0.1 m/s	velocity	5.00	7.66	8.02	8.10	8.17	8.10	7.94	8.02	7.73	7.66	7.39	7.35	7.92	8.07	7.80

Heptathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2024) - Athlete First: 2023 year end hurdle report*

date	19-Aug-23	time	2.64	3.72	4.75	5.82	6.85	7.89	8.95	10.04	11.14	12.25	13.48	8 / 2			
reaction time	0.159	interval		1.08	1.03	1.07	1.03	1.04	1.06	1.09	1.10	1.11	1.23		3.18	3.13	3.30
wind	-1.1 m/s	velocity	4.92	7.87	8.25	7.94	8.25	8.17	8.02	7.80	7.73	7.66	8.17	7.42	8.02	8.15	7.73

Heptathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2022 year end hurdle report*

date	17-Jul-22	time	2.63	3.73	4.80	5.82	6.87	7.93	8.98	10.06	11.13	12.23	13.46	3 / 7			
reaction time	0.138	interval		1.10	1.07	1.02	1.05	1.06	1.05	1.08	1.07	1.10	1.23		3.19	3.16	3.25
wind	0.7 m/s	velocity	4.94	7.73	7.94	8.33	8.10	8.02	8.10	7.87	7.94	7.73	8.17	7.43	7.99	8.07	7.85

Heptathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	04-Aug-21	time	2.66	3.75	4.83	5.86	6.95	7.98	9.02	10.14	11.22	12.34	13.58	8 / 8			
reaction time	0.152	interval		1.09	1.08	1.03	1.09	1.03	1.04	1.12	1.08	1.12	1.24		3.20	3.16	3.32
wind	-0.8 m/s	velocity	4.89	7.80	7.87	8.25	7.80	8.25	8.17	7.59	7.87	7.59	8.10	7.36	7.97	8.07	7.68

reaction time		interval	1.02	1.05	1.03	0.93	1.00	0.99	0.97	1.02	1.17	1.53		3.10	2.92	3.16	
wind	3.4 m/s	velocity	5.75	8.33	8.10	8.25	9.14	8.50	8.59	8.76	8.33	7.26	6.86	7.71	8.23	8.73	8.07

Latos, Barbara (POL) (1965)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1987 European Cup (Prague, TCH)																	
date	28-Jun-87	time	2.71	3.78	4.88	5.92	7.04	8.12	9.24	10.32	11.44	12.57	13.72	4 / 8			
reaction time		interval	1.07	1.10	1.04	1.12	1.08	1.12	1.08	1.12	1.13	1.15		3.21	3.32	3.33	
wind	-0.9m/s	velocity	4.80	7.94	7.73	8.17	7.59	7.87	7.59	7.87	7.59	7.52	9.13	7.29	7.94	7.68	7.66

Laukhova, Svetlana (RUS) (1973)

	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)																	
date	21-Sep-02	time	2.52	3.54	4.56	5.57	6.58	7.58	8.60	9.62	10.67	11.72	13.14	2 / 6			
reaction time	0.138	interval	1.02	1.02	1.01	1.01	1.00	1.02	1.02	1.05	1.05	1.42		3.05	3.03	3.12	
wind	1.5 m/s	velocity	5.16	8.33	8.33	8.42	8.42	8.50	8.33	8.33	8.10	8.10	7.39	7.61	8.36	8.42	8.17

Heat 3 - 2002 European Championships (Munich, GER)

date	08-Aug-02	time	2.64	3.68	4.70	5.72	6.72	7.75	8.76	9.79	10.82	11.91	13.02	1 / 1			
reaction time	0.121	interval	1.04	1.02	1.02	1.00	1.03	1.01	1.03	1.03	1.09	1.11		3.08	3.04	3.15	
wind	-0.3 m/s	velocity	4.92	8.17	8.33	8.33	8.50	8.25	8.42	8.25	8.25	7.80	9.46	7.68	8.28	8.39	8.10

FINAL - 1997 IAAF World Championships (Athens, GRE)

date	10-Aug-97	time	2.58	3.62	4.64	5.64	6.64	7.64	8.67	9.70	10.72	11.80	12.89	7 / 7			
reaction time	0.135	interval	1.04	1.02	1.00	1.00	1.00	1.03	1.03	1.02	1.08	1.09		3.06	3.03	3.13	
wind	-0.3 m/s	velocity	5.04	8.17	8.33	8.50	8.50	8.50	8.25	8.25	8.33	7.87	9.63	7.76	8.33	8.42	8.15

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

date	27-Aug-99	time	2.53	3.55	4.54	5.53	6.54	7.52	8.52	9.54	10.57	11.61	12.86	2 / 6			
reaction time	0.133	interval	1.02	0.99	0.99	1.01	0.98	1.00	1.02	1.03	1.04	1.25		3.00	2.99	3.09	
wind	1.9 m/s	velocity	5.14	8.33	8.59	8.59	8.42	8.67	8.50	8.33	8.25	8.17	8.40	7.78	8.50	8.53	8.25

FINAL - 1997 European Cup (Munich, GER)

date	22-Jun-97	time	2.65	3.69	4.68	5.69	6.68	7.69	8.69	9.71	10.74	11.81	12.94	1 / 1			
reaction time		interval	1.04	0.99	1.01	0.99	1.01	1.00	1.02	1.03	1.07	1.13		3.04	3.00	3.12	
wind	0.7 m/s	velocity	4.91	8.17	8.59	8.42	8.59	8.42	8.50	8.33	8.25	7.94	9.29	7.73	8.39	8.50	8.17

Laurencin, Aasia (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)																	
date	28-Jun-24	time	2.64	3.67	4.65	5.65	6.65	7.65	8.65	9.67	10.68	11.71	12.84	2 / 3			
reaction time		interval	1.03	0.98	1.00	1.00	1.00	1.00	1.02	1.01	1.03	1.13		3.01	3.00	3.06	
wind	0.1 m/s	velocity	4.92	8.25	8.67	8.50	8.50	8.50	8.50	8.33	8.42	8.25	8.89	7.79	8.47	8.50	8.33

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

date	08-Jun-24	time	2.62	3.68	4.69	5.70	6.68	7.67	8.67	9.67	10.69	11.72	12.86	5 / 6			
reaction time		interval	1.06	1.01	1.01	0.98	0.99	1.00	1.00	1.02	1.03	1.14		3.08	2.97	3.05	
wind	-0.5 m/s	velocity	4.96	8.02	8.42	8.42	8.67	8.59	8.50	8.50	8.33	8.25	8.82	7.78	8.28	8.59	8.36

FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)

date	10-Jun-23	time	2.54	3.62	4.67	5.70	6.69	7.66	8.63	9.61	10.59	11.61	12.82	9 / 7			
reaction time		interval	1.08	1.05	1.03	0.99	0.97	0.97	0.98	0.98	1.02	1.21		3.16	2.93	2.98	
wind	3.8 m/s	velocity	5.12	7.87	8.10	8.25	8.59	8.76	8.76	8.67	8.67	8.33	8.31	7.80	8.07	8.70	8.56

Lavin, Sarah (IRL) (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)																	
date	09-Aug-24	time	2.46	3.50	4.49	5.48	6.45	7.42	8.40	9.38	10.39	11.43	12.69	4 / 6			
reaction time	0.139	interval	1.04	0.99	0.99	0.97	0.97	0.98	0.98	1.01	1.04	1.26		3.02	2.92	3.03	
wind	0.4 m/s	velocity	5.28	8.17	8.59	8.59	8.76	8.76	8.67	8.67	8.42	8.17	7.98	7.88	8.44	8.73	8.42

Heat 4 - 2024 Olympic Games (Paris, FRA)

date	07-Aug-24	time	2.48	3.52	4.52	5.51	6.49	7.47	8.46	9.46	10.47	11.48	12.73	6 / 2			
reaction time	0.153	interval	1.04	1.00	0.99	0.98	0.98	0.99	1.00	1.01	1.01	1.25		3.03	2.95	3.02	
wind	0.0 m/s	velocity	5.24	8.17	8.50	8.59	8.67	8.67	8.59	8.50	8.42	8.42	8.04	7.86	8.42	8.64	8.44

FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)

date	08-Jun-24	time	2.57	3.67	4.73	5.75	6.75	7.75	8.75	9.75	10.76	11.77	12.94	4 / 7			
reaction time	0.141	interval	1.10	1.06	1.02	1.00	1.00	1.00	1.00	1.01	1.01	1.17		3.18	3.00	3.02	
wind	0.8 m/s	velocity	5.06	7.73	8.02	8.33	8.50	8.50	8.50	8.50	8.42	8.42	8.59	7.73	8.02	8.50	8.44

FINAL - 2024 Seashore Doha Meeting (Doha, QAT) (TV Analysis)

date	10-May-24	time	2.60	3.62	4.62	5.60	6.57	7.56	8.56	9.54	10.57	11.60	12.73	2 / 5			
reaction time	0.127	interval	1.02	1.00	0.98	0.97	0.99	1.00	0.98	1.03	1.03	1.13		3.00	2.96	3.04	
wind	1.7 m/s	velocity	5.00	8.33	8.50	8.67	8.76	8.59	8.50	8.67	8.25	8.25	8.89	7.86	8.50	8.61	8.39

FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

date	03-Mar-24	time	2.63	3.65	4.65	5.64	6.64								7.91	7 / 5				
reaction time	0.129	interval		1.02	1.00	0.99	1.00							1.27				3.01		
		velocity	4.94	8.33	8.50	8.59	8.50							10.24	7.59			8.47		
FINAL - 2024 Villa de Madrid Indoor Meeting (Madrid, ESP) (TV Analysis)																				
<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>																				
date	23-Feb-24	time	2.57	3.60	4.60	5.60	6.58								7.95	3 / 4				
reaction time	0.142	interval		1.03	1.00	1.00	0.98							1.37				3.03		
		velocity	5.06	8.25	8.50	8.50	8.67							9.49	7.55			8.42		
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																				
<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																				
date	23-Aug-23	time	2.57	3.57	4.57	5.54	6.50	7.47	8.45	9.42	10.45	11.48			12.62	4 / 5				
reaction time	0.139	interval		1.00	1.00	0.97	0.96	0.97	0.98	0.97	1.03	1.03	1.14	NR				2.97	2.91	3.03
wind	0.5 m/s	velocity	5.06	8.50	8.50	8.76	8.85	8.76	8.67	8.76	8.25	8.25	8.82	7.92				8.59	8.76	8.42
Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																				
<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																				
date	22-Aug-23	time	2.60	3.60	4.60	5.58	6.56	7.56	8.55	9.54	10.53	11.56			12.69	2 / 3				
reaction time	0.139	interval		1.00	1.00	0.98	0.98	1.00	0.99	0.99	0.99	1.03	1.13					2.98	2.97	3.01
wind	0.1 m/s	velocity	5.00	8.50	8.50	8.67	8.67	8.50	8.59	8.59	8.59	8.25	8.89	7.88				8.56	8.59	8.47
FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)																				
<i>Omega Timing (2023) - diamond league race analysis</i>																				
date	21-Jul-23	time	2.51	3.57	4.57	5.55	6.53	7.51	8.50	9.49	10.50	11.51			12.74	6 / 7				
reaction time	0.156	interval		1.06	1.00	0.98	0.98	0.98	0.99	0.99	1.01	1.01	1.23					3.04	2.95	3.01
wind	0.6 m/s	velocity	5.18	8.02	8.50	8.67	8.67	8.67	8.59	8.59	8.42	8.42	8.17	7.85				8.39	8.64	8.47
FINAL - 2023 Bauhaus Galan (Stockholm, SWE)																				
<i>Omega Timing (2023) - diamond league race analysis</i>																				
date	02-Jul-23	time	2.47	3.54	4.54	5.52	6.50	7.47	8.45	9.44	10.44	11.45			12.73	1 / 2				
reaction time	0.139	interval		1.07	1.00	0.98	0.98	0.97	0.98	0.99	1.00	1.01	1.28	PB				3.05	2.93	3.00
wind	0.9 m/s	velocity	5.26	7.94	8.50	8.67	8.67	8.76	8.67	8.59	8.50	8.42	7.85	7.86				8.36	8.70	8.50
National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)																				
<i>Omega Timing (2023) - diamond league race analysis</i>																				
date	02-Jul-23	time	2.50	3.57	4.58	5.58	6.57	7.57	8.56	9.58	10.60	11.63			12.89	3 / 1				
reaction time	0.140	interval		1.07	1.01	1.00	0.99	1.00	0.99	1.02	1.02	1.03	1.26					3.08	2.98	3.07
wind	0.6 m/s	velocity	5.20	7.94	8.42	8.50	8.59	8.50	8.59	8.33	8.33	8.25	7.98	7.76				8.28	8.56	8.31
FINAL - 2023 FBK Games (Hengelo, NED)																				
<i>Omega Timing (2023) - continental tour race analysis</i>																				
date	04-Jun-23	time	2.46	3.51	4.54	5.55	6.56	7.56	8.57	9.59	10.61	11.65			12.91	1 / 5				
reaction time	0.139	interval		1.05	1.03	1.01	1.01	1.00	1.01	1.02	1.02	1.04	1.26					3.09	3.02	3.08
wind	0.2 m/s	velocity	5.28	8.10	8.25	8.42	8.42	8.50	8.42	8.33	8.33	8.17	7.98	7.75				8.25	8.44	8.28
FINAL - 2023 Doha Diamond League (Doha, QAT) (TV Analysis)																				
<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																				
date	05-May-23	time	2.66	3.72	4.76	5.78	6.78	7.82	8.84	9.86	10.90	11.94			13.08	7 / 8				
reaction time	0.137	interval		1.06	1.04	1.02	1.00	1.04	1.02	1.02	1.04	1.04	1.14					3.12	3.06	3.10
wind	1.1 m/s	velocity	4.89	8.02	8.17	8.33	8.50	8.17	8.33	8.33	8.17	8.17	8.82	7.65				8.17	8.33	8.23
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)																				
<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																				
date	21-Aug-22	time	2.60	3.64	4.67	5.67	6.65	7.65	8.65	9.62	10.65	11.67			12.86	1 / 5				
reaction time	0.171	interval		1.04	1.03	1.00	0.98	1.00	1.00	0.97	1.03	1.02	1.19					3.07	2.98	3.02
wind	-0.1 m/s	velocity	5.00	8.17	8.25	8.50	8.67	8.50	8.50	8.76	8.25	8.33	8.45	7.78				8.31	8.56	8.44
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																				
<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																				
date	24-Jul-22	time	2.62	3.64	4.66	5.66	6.66	7.66	8.66	9.68	10.70	11.73			12.87	7 / 5				
reaction time	0.117	interval		1.02	1.02	1.00	1.00	1.00	1.00	1.02	1.02	1.03	1.14					3.04	3.00	3.07
wind	0.3 m/s	velocity	4.96	8.33	8.33	8.50	8.50	8.50	8.50	8.33	8.33	8.25	8.82	7.77				8.39	8.50	8.31
Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																				
<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																				
date	23-Jul-22	time	2.53	3.56	4.63	5.63	6.63	7.66	8.66	9.70	10.73	11.76			12.99	4 / 3				
reaction time	0.117	interval		1.03	1.07	1.00	1.00	1.03	1.00	1.04	1.03	1.03	1.23					3.10	3.03	3.10
wind	1.5 m/s	velocity	5.14	8.25	7.94	8.50	8.50	8.25	8.50	8.17	8.25	8.25	8.17	7.70				8.23	8.42	8.23
FINAL - 2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)																				
<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>																				
date	03-Jun-22	time	2.60	3.64	4.66	5.66	6.64	7.66	8.68	9.70	10.74	11.78			13.00	4 / 4				
reaction time		interval		1.04	1.02	1.00	0.98	1.02	1.02	1.02	1.04	1.04	1.22					3.06	3.02	3.10
wind	0.2 m/s	velocity	5.00	8.17	8.33	8.50	8.67	8.33	8.33	8.33	8.17	8.17	8.24	7.69				8.33	8.44	8.23
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)																				
<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																				
date	19-Mar-22	time	2.54	3.58	4.62	5.64	6.64								8.09	7 / 7				
reaction time	0.152	interval		1.04	1.04	1.02	1.00							1.45				3.10		
		velocity	5.12	8.17	8.17	8.33	8.50							8.97	7.42			8.23		
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																				
<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																				
date	31-Jul-21	time	2.55	3.63	4.70	5.74	6.74	7.76	8.78	9.86	10.91	11.97			13.16	8 / 7				
reaction time	0.141	interval		1.08	1.07	1.04	1.00	1.02	1.02	1.08	1.05	1.06	1.19					3.19	3.04	3.19
wind	0.4 m/s	velocity	5.10	7.87	7.94	8.17	8.50	8.33	8.33	7.87	8.10	8.02	8.45	7.60				7.99	8.39	7.99

Lawson, Tonya (USA) (1969)		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)													USATF Women's Sprint Development (1996)					
date	23-Jun-96	time	2.30	3.31	4.31	5.33	6.34	7.38	8.41	9.43	10.45	11.49		12.94	1 / 5			
reaction time		interval		1.01	1.00	1.02	1.01	1.04	1.03	1.02	1.02	1.04	1.45	PB		3.03	3.08	3.08
wind	0.6 m/s	velocity	5.65	8.42	8.50	8.33	8.42	8.17	8.25	8.33	8.33	8.17	7.24	7.73		8.42	8.28	8.28
Lazraq-Khlass, Auriana (FRA) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)					
date	08-Aug-24	time	2.57	3.66	4.71	5.74	6.77	7.78	8.82	9.91	11.06	12.19		13.54	6 / 8			
reaction time	0.155	interval		1.09	1.05	1.03	1.03	1.01	1.04	1.09	1.15	1.13	1.35			3.17	3.08	3.37
wind	-0.1 m/s	velocity	5.06	7.80	8.10	8.25	8.25	8.42	8.17	7.80	7.39	7.52	7.44	7.39		8.04	8.28	7.57
Heptathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													Henson (2024) - Athlete First: 2023 year end hurdle report					
date	19-Aug-23	time	2.70	3.75	4.80	5.88	6.90	7.95	9.08	10.15	11.28	12.38		13.62	4 / 5			
reaction time	0.156	interval		1.05	1.05	1.08	1.02	1.05	1.13	1.07	1.13	1.10	1.24			3.18	3.20	3.30
wind	-0.2 m/s	velocity	4.81	8.10	8.10	7.87	8.33	8.10	7.52	7.94	7.52	7.73	8.10	7.34		8.02	7.97	7.73
Lebedeva, Natalya (URS) (1949)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
A FINAL - 1979 VII USSR Spartakiade (Moscow, URS)													Balachničiv (1981) - Periodisierung & Zyklisierung des Trainings 78/79 Hürdenläuferinnen der Spitzenklasse der UdSSR					
date	25-Jul-79	time	2.58	3.66	4.74	5.81	6.80	7.77	8.78	9.85	10.90	11.96		13.15	1 / 4			
reaction time		interval		1.08	1.08	1.07	0.99	0.97	1.01	1.07	1.05	1.06	1.19			3.23	2.97	3.18
wind	???	velocity	5.04	7.87	7.87	7.94	8.59	8.76	8.42	7.94	8.10	8.02	8.82	7.60		7.89	8.59	8.02
FINAL - 1976 Olympic Games (Montreal, CAN)													Ilyin (1979) - successes of women hurdlers					
date	29-Jul-76	time	2.60	3.66	4.68	5.66	6.64	7.62	8.60	9.60	10.60	11.62		12.80	8 / 3			
reaction time		interval		1.06	1.02	0.98	0.98	0.98	0.98	1.00	1.00	1.02	1.18	PB		3.06	2.94	3.02
wind	0.0 m/s	velocity	5.00	8.02	8.33	8.67	8.67	8.67	8.67	8.50	8.50	8.33	8.90	7.81		8.33	8.67	8.44
FINAL - 1975 International "Pravda" Sportfest (Sotschi, URS)													Artyshenko (1977) - zwischen den hürden geht es um die sekunde, teil 2					
date	29-May-75	time	2.4	3.6	4.7	5.8	6.9	7.9	9.0	10.0	11.1	12.1		13.4	1 / 2			
reaction time		interval		1.27	1.11	1.09	1.04	1.06	1.03	1.05	1.05	1.01	1.31			3.47	3.13	3.11
wind	???	velocity	5.51	6.69	7.66	7.80	8.17	8.02	8.25	8.10	8.10	8.42	8.02	7.47		7.35	8.15	8.20
Lee Yeon-Kyoung (KOR) (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 Busan International Athletics Meeting (Busan, KOR) Lee (2007) - the kinematic analysis of horizontal velocity and records from start to finish on elite women 100m hurdler																		
date	24-Sep-04	time	2.74	3.83	4.90	5.94	7.01	8.05	9.10	10.17	11.24	12.32		13.47	1 / 1			
reaction time		interval		1.09	1.07	1.04	1.07	1.04	1.05	1.07	1.07	1.08	1.15	NR		3.20	3.16	3.22
wind	0.7 m/s	velocity	4.74	7.80	7.94	8.17	7.94	8.17	8.10	7.94	7.94	7.87	9.13	7.42		7.97	8.07	7.92
Lenskij, Irina (ISR) (1971)		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)													Graubner (2009) - http://www.fgs.uni-halle.de					
date	08-Aug-02	time	2.70	3.73	4.76	5.76	6.77	7.78	8.80	9.83	10.85	11.91		13.04	1 / 3			
reaction time	0.121	interval		1.03	1.03	1.00	1.01	1.01	1.02	1.03	1.02	1.06	1.13			3.06	3.04	3.11
wind	0.3 m/s	velocity	4.81	8.25	8.25	8.50	8.42	8.42	8.33	8.25	8.33	8.02	9.29	7.67		8.33	8.39	8.20
Leng Xiping (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	2.80	3.96	5.12	6.24	7.38	8.52	9.66	10.82	12.00	13.16		14.48	2 / 4			
reaction time	0.449	interval		1.16	1.16	1.12	1.14	1.14	1.14	1.16	1.18	1.16	1.32			3.44	3.42	3.50
wind	0.4 m/s	velocity	4.64	7.33	7.33	7.59	7.46	7.46	7.46	7.33	7.20	7.33	7.61	6.91		7.41	7.46	7.29
Lewis, Yvette (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 - 2009 ISTAF (Berlin, GER)													Graubner (2009) - http://www.fgs.uni-halle.de					
date	14-Jun-09	time	2.62	3.65	4.68	5.71	6.73	7.75	8.77	9.82	10.86	11.93		13.07	1 / 6			
reaction time	0.172	interval		1.03	1.03	1.03	1.02	1.02	1.05	1.04	1.07	1.14				3.09	3.06	3.16
wind	-0.1 m/s	velocity	4.96	8.25	8.25	8.25	8.33	8.33	8.33	8.10	8.17	7.94	9.21	7.65		8.25	8.33	8.07
Li Danyang (CHN) (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 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)													CAA Hurdle Development (2019)					
date	4-Mar-19	time	2.78	3.90	5.02	6.14	7.31							8.83	2 / 2			
reaction time		interval		1.12	1.12	1.12	1.17						1.52			3.36		
		velocity	4.68	7.59	7.59	7.59	7.26						8.55	6.80		7.59		
B-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)													CAA Hurdle Development (2019)					
date	28-Feb-19	time	2.77	3.90	5.02	6.14	7.26							8.65	2 / 2			
reaction time		interval		1.13	1.12	1.12	1.12						1.39	PB		3.37		
		velocity	4.69	7.52	7.59	7.59	7.59						9.35	6.94		7.57		
Li Jinghua (CHN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)													CAA Hurdle Development (2019)					
date	23-Aug-19	time	2.92	4.10	5.29	6.47	7.65	8.83	10.06	11.28	12.53	13.80		15.16	9 / 5			
reaction time	0.195	interval		1.18	1.19	1.18	1.18	1.18	1.23	1.22	1.25	1.27	1.36			3.55	3.59	3.74

															135 of 267	W100H athlete		
wind	?? m/s	velocity	4.45	7.20	7.14	7.20	7.20	7.20	6.91	6.97	6.80	6.69	7.72	6.60		7.18	7.10	6.82
Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)															CAA Hurdle Development (2019)			
date	08-Jul-19	time	2.88	4.04	5.20	6.35	7.52	8.71	9.91	11.12	12.36	13.61		14.98		7 / 5		
reaction time	0.214	interval	1.16	1.16	1.15	1.17	1.19	1.20	1.21	1.24	1.25	1.37				3.47	3.56	3.70
wind	0.1 m/s	velocity	4.51	7.33	7.33	7.39	7.26	7.14	7.08	7.02	6.85	6.80	7.66	6.68		7.35	7.16	6.89
Li Jinyu (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 - 2019 Chinese World Championship Trials (Shenyang, CHN)															CAA Hurdle Development (2019)			
date	02-Aug-19	time	2.77	3.87	5.00	6.09	7.21	8.33	9.44	10.59	11.74	12.93		14.18		3 / 6		
reaction time	0.189	interval	1.10	1.13	1.09	1.12	1.12	1.11	1.15	1.15	1.19	1.25				3.32	3.35	3.49
wind	-0.3 m/s	velocity	4.69	7.73	7.52	7.80	7.59	7.59	7.66	7.39	7.39	7.14	8.40	7.05		7.68	7.61	7.31
B-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)															CAA Hurdle Development (2019)			
date	24-Feb-19	time	2.80	3.93	5.05	6.19	7.34							8.80		5 / 3		
reaction time		interval	1.13	1.12	1.14	1.15						1.46				3.39		
		velocity	4.64	7.52	7.59	7.46	7.39					8.90	6.82			7.52		
Li Mengyu (CHN) (2002)																		
		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 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)															CAA Hurdle Development (2019)			
date	4-Mar-19	time	2.77	3.93	5.09	6.24	7.36							8.89		5 / 3		
reaction time		interval	1.16	1.16	1.15	1.12						1.53				3.47		
		velocity	4.69	7.33	7.33	7.39	7.59					8.50	6.75			7.35		
B-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)															CAA Hurdle Development (2019)			
date	28-Feb-19	time	2.76	3.92	5.08	6.22	7.36							8.80		5 / 3		
reaction time		interval	1.16	1.16	1.14	1.14						1.44				3.46		
		velocity	4.71	7.33	7.33	7.46	7.46					9.03	6.82			7.37		
Li Shiyu (CHN) (2005)																		
		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	2.90	4.12	5.32	6.54	7.72	8.92	10.12	11.32	12.54	13.76		15.10		6 / 5		
reaction time	0.178	interval	1.22	1.20	1.22	1.18	1.20	1.20	1.20	1.22	1.22	1.34				3.64	3.58	3.64
wind	0.4 m/s	velocity	4.48	6.97	7.08	6.97	7.20	7.08	7.08	7.08	6.97	6.97	7.50	6.62		7.01	7.12	7.01
Li Xiangrong (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 3 - 2021 National Indoor Grand Prix (Chengdu, CHN)															CAA Hurdle Development (2021)			
date	13-Mar-21	time	2.83	4.03	5.20	6.35	7.52							9.10		3 / 5		
reaction time	0.196	interval	1.20	1.17	1.15	1.17						1.58		PB		3.52		
		velocity	4.59	7.08	7.26	7.39	7.26					8.23	6.59			7.24		
Li Yuansu (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) (76cm)															CAA Hurdle Development (2019)			
date	14-Aug-19	time	2.80	3.97	5.10	6.26	7.39	8.54	9.68	10.83	12.00	13.16		14.45		6 / 3		
reaction time	0.184	interval	1.17	1.13	1.16	1.13	1.15	1.14	1.15	1.17	1.16	1.29				3.46	3.42	3.48
wind	0.0 m/s	velocity	4.64	7.26	7.52	7.33	7.52	7.39	7.46	7.39	7.26	7.33	8.14	6.92		7.37	7.46	7.33
Ligarska, Paulina (POL) (1996)																		
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															Henson (2024) - Athlete First: 2023 year end hurdle report			
date	19-Aug-23	time	2.84	3.95	5.08	6.17	7.28	8.40	9.52	10.67	11.85	13.04		14.31		5 / 6		
reaction time	0.184	interval	7 steps	1.11	1.13	1.09	1.11	1.12	1.12	1.15	1.18	1.19	1.27			3.33	3.35	3.52
wind	-1.1 m/s	velocity	4.58	7.66	7.52	7.80	7.66	7.59	7.59	7.39	7.20	7.14	7.91	6.99		7.66	7.61	7.24
Heptathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															Henson (2024) - Athlete First: 2022 year end hurdle report			
date	17-Jul-22	time	2.78	3.90	5.00	6.10	7.20	8.30	9.42	10.58	11.76	12.94		14.19		7 / 7		
reaction time	0.140	interval	7 steps	1.12	1.10	1.10	1.10	1.10	1.12	1.16	1.18	1.18	1.25			3.32	3.32	3.52
wind	1.4 m/s	velocity	4.68	7.59	7.73	7.73	7.73	7.73	7.59	7.33	7.20	7.20	8.04	7.05		7.68	7.68	7.24
Lin Yuqian (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	2.75	3.85	4.94	6.00	7.07	8.12	9.22	10.31	11.43	12.56		13.77		3 / 4		
reaction time	0.201	interval	1.10	1.09	1.06	1.07	1.05	1.10	1.09	1.12	1.13	1.21				3.25	3.22	3.34
wind	-0.3 m/s	velocity	4.73	7.73	7.80	8.02	7.94	8.10	7.73	7.80	7.59	7.52	8.31	7.26		7.85	7.92	7.63
Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)															CAA Hurdle Development (2021)			
date	12-Jun-21	time	2.62	3.70	4.78	5.86	6.92	8.01	9.11	10.23	11.33	12.50		13.83		7 / 6		
reaction time	0.196	interval	1.08	1.08	1.08	1.06	1.09	1.10	1.12	1.10	1.17	1.33				3.24	3.25	3.39
wind	-0.2 m/s	velocity	4.96	7.87	7.87	7.87	8.02	7.80	7.73	7.59	7.73	7.26	7.56	7.23		7.87	7.85	7.52
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)															CAA Hurdle Development (2021)			
date	19-May-21	time	2.75	3.84	4.92	6.00	7.06	8.14	9.23	10.32	11.44	12.56		13.75		1 / 3		
reaction time	0.206	interval	1.09	1.08	1.08	1.06	1.08	1.09	1.09	1.12	1.12	1.19		PB		3.25	3.23	3.33
wind	0.2 m/s	velocity	4.73	7.80	7.87	7.87	8.02	7.87	7.80	7.80	7.59	7.59	8.45	7.27		7.85	7.89	7.66

Lin Yuwei (CHN) (1999)		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	08-Aug-24	time	2.48	3.56	4.61	5.63	6.65	7.66	8.69	9.72	10.77	11.82	13.13	5 / 6			
reaction time	0.150	interval	1.08	1.05	1.02	1.02	1.01	1.03	1.03	1.05	1.05	1.31			3.15	3.06	3.13
wind	0.4 m/s	velocity	5.24	7.87	8.10	8.33	8.33	8.42	8.25	8.10	8.10	7.67	7.62		8.10	8.33	8.15
Heat 5 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.49	3.56	4.61	5.64	6.66	7.68	8.70	9.75	10.81	11.89	13.24	6 / 7			
reaction time	0.147	interval	1.07	1.05	1.03	1.02	1.02	1.02	1.05	1.06	1.08	1.35			3.15	3.06	3.19
wind	-0.6 m/s	velocity	5.22	7.94	8.10	8.25	8.33	8.33	8.33	8.10	8.02	7.87	7.55		8.10	8.33	7.99
Heat 2 - 2024 FBK Games (Hengelo, NED)													<i>Omega Timing (2024) - continental tour gold race analysis</i>				
date	07-Jul-24	time	2.49	3.58	4.59	5.60	6.63	7.71	8.84	9.95	11.04	12.14	13.47	8 / 9			
reaction time	0.158	interval	1.09	1.01	1.01	1.03	1.08	1.13	1.11	1.09	1.10	1.33			3.11	3.24	3.30
wind	0.3 m/s	velocity	5.22	7.80	8.42	8.42	8.25	7.87	7.52	7.66	7.80	7.73	7.56	7.42	8.20	7.87	7.73
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)													<i>Shandong Athletics Sport Science (2024)</i>				
date	30-Jun-24	time	2.60	3.63	4.66	5.66	6.66	7.66	8.66	9.66	10.71	11.79	13.00	4 / 2			
reaction time	0.157	interval	1.03	1.03	1.00	1.00	1.00	1.00	1.00	1.05	1.08	1.21			3.06	3.00	3.13
wind	0.2 m/s	velocity	5.00	8.25	8.25	8.50	8.50	8.50	8.50	8.50	8.10	7.87	8.31	7.69	8.33	8.50	8.15
Heat 2 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)													<i>Shandong Athletics Sport Science (2024)</i>				
date	29-Jun-24	time	2.65	3.71	4.76	5.80	6.82	7.86	8.89	9.94	10.99	12.06	13.26	5 / 1			
reaction time	0.157	interval	1.06	1.05	1.04	1.02	1.04	1.03	1.05	1.05	1.07	1.20			3.15	3.09	3.17
wind	-0.5 m/s	velocity	4.91	8.02	8.10	8.17	8.33	8.17	8.25	8.10	8.10	7.94	8.38	7.54	8.10	8.25	8.04
National FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	02-Sep-23	time	2.60	3.64	4.67	5.67	6.67	7.66	8.68	9.70	10.75	11.82	13.00	5 / 1			
reaction time	0.139	interval	1.04	1.03	1.00	1.00	0.99	1.02	1.02	1.05	1.07	1.18			3.07	3.01	3.14
wind	0.1 m/s	velocity	5.00	8.17	8.25	8.50	8.50	8.59	8.33	8.33	8.10	7.94	8.52	7.69	8.31	8.47	8.12
FINAL - 2023 UNF East Coast Relays (Jacksonville, FL)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	29-Apr-23	time	2.60	3.65	4.65	5.67	6.67	7.67	8.69	9.69	10.70	11.73	12.82	4 / 3			
reaction time		interval	1.05	1.00	1.02	1.00	1.00	1.02	1.00	1.01	1.03	1.09			3.07	3.02	3.04
wind	3.2 m/s	velocity	5.00	8.10	8.50	8.33	8.50	8.50	8.33	8.50	8.42	8.25	9.22	7.80	8.31	8.44	8.39
FINAL - 2023 Chinese Indoor National Championships (Tianjin, CHN)													<i>Shandong Athletics Sport Science (2023)</i>				
date	16-Mar-23	time	2.62	3.66	4.72	5.77	6.78						8.14	6 / 1			
reaction time	0.158	interval	1.04	1.06	1.05	1.01						1.36			3.15		
		velocity	4.96	8.17	8.02	8.10	8.42					9.56	7.37		8.10		
Heat 2 - 2023 Chinese Indoor National Championships (Tianjin, CHN)													<i>Shandong Athletics Sport Science (2023)</i>				
date	16-Mar-23	time	2.58	3.64	4.66	5.71	6.74						8.13	3 / 1			
reaction time	0.153	interval	1.06	1.02	1.05	1.03						1.39			3.13		
		velocity	5.04	8.02	8.33	8.10	8.25					9.35	7.38		8.15		
FINAL - 2021 Chinese National Games (Xi'an, CHN)													<i>CAA Hurdle Development (2021)</i>				
date	22-Sep-21	time	2.50	3.53	4.56	5.56	6.56	7.56	8.58	9.60	10.63	11.67	12.88	6 / 1			
reaction time	0.146	interval	1.03	1.03	1.00	1.00	1.00	1.02	1.02	1.03	1.04	1.21			3.06	3.02	3.09
wind	0.1 m/s	velocity	5.20	8.25	8.25	8.50	8.50	8.50	8.33	8.33	8.25	8.17	8.31	7.76	8.33	8.44	8.25
Semi-Final 3 - 2021 Chinese National Games (Xi'an, CHN)													<i>CAA Hurdle Development (2021)</i>				
date	21-Sep-21	time	2.49	3.51	4.51	5.52	6.50	7.49	8.49	9.51	10.53	11.60	12.85	6 / 1			
reaction time	0.147	interval	1.02	1.00	1.01	0.98	0.99	1.00	1.02	1.02	1.02	1.07	1.25	PB	3.03	2.97	3.11
wind	0.1 m/s	velocity	5.22	8.33	8.50	8.42	8.67	8.59	8.50	8.33	8.33	7.94	8.04	7.78	8.42	8.59	8.20
FINAL - 2021 Chinese Student Games (Qingdao, CHN)													<i>CAA Hurdle Development (2021)</i>				
date	14-Jul-21	time	2.53	3.60	4.63	5.67	6.68	7.67	8.70	9.70	10.75	11.79	12.93	5 / 1			
reaction time		interval	1.07	1.03	1.04	1.01	0.99	1.03	1.00	1.05	1.04	1.14	PB		3.14	3.03	3.09
wind	-0.7 m/s	velocity	5.14	7.94	8.25	8.17	8.42	8.59	8.25	8.50	8.10	8.17	8.82	7.73	8.12	8.42	8.25
FINAL - 2021 Flavour Hangzhou Athletics Meeting (Hangzhou, CHN)													<i>CAA Hurdle Development (2021)</i>				
date	09-Jul-21	time	2.62	3.67	4.74	5.77	6.81	7.82	8.86	9.91	10.96	12.05	13.24	4 / 1			
reaction time	0.142	interval	1.05	1.07	1.03	1.04	1.01	1.04	1.05	1.05	1.09	1.19			3.15	3.09	3.19
wind	-0.3 m/s	velocity	4.96	8.10	7.94	8.25	8.17	8.42	8.17	8.10	8.10	7.80	8.45	7.55	8.10	8.25	7.99
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)													<i>CAA Hurdle Development (2021)</i>				
date	25-Jun-21	time	2.67	3.75	4.82	5.87	6.92	7.99	9.06	10.13	11.21	12.33	13.53	5 / 1			
reaction time	0.160	interval	1.08	1.07	1.05	1.05	1.07	1.07	1.07	1.07	1.08	1.12	1.20		3.20	3.19	3.27
wind	-1.8 m/s	velocity	4.87	7.87	7.94	8.10	8.10	7.94	7.94	7.94	7.87	7.59	8.38	7.39	7.97	7.99	7.80
Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)													<i>CAA Hurdle Development (2021)</i>				

date	12-Jun-21	time	2.47	3.50	4.54	5.57	6.61	7.61	8.64	9.69	10.73	11.79	13.00	4 / 1			
reaction time	0.133	interval		1.03	1.04	1.03	1.04	1.00	1.03	1.05	1.04	1.06	1.21		3.10	3.07	3.15
wind	2.2 m/s	velocity	5.26	8.25	8.17	8.25	8.17	8.50	8.25	8.10	8.17	8.02	8.31	7.69	8.23	8.31	8.10
FINAL - 2021 Chinese East Region Athletics Meeting (Fuzhou, CHN)														<i>CAA Hurdle Development (2021)</i>			
date	23-May-21	time	2.60	3.63	4.65	5.67	6.68	7.70	8.70	9.73	10.77	11.84	12.99	7 / 1			
reaction time	0.174	interval		1.03	1.02	1.02	1.01	1.02	1.00	1.03	1.04	1.07	1.15	PB	3.07	3.03	3.14
wind	-0.5 m/s	velocity	5.00	8.25	8.33	8.33	8.42	8.33	8.50	8.25	8.17	7.94	8.74	7.70	8.31	8.42	8.12
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)														<i>CAA Hurdle Development (2021)</i>			
date	24-Apr-21	time	2.59	3.64	4.68	5.70	6.73	7.73	8.75	9.80	10.84	11.89	13.03	2 / 1			
reaction time	0.137	interval		1.05	1.04	1.02	1.03	1.00	1.02	1.05	1.04	1.05	1.14	PB	3.11	3.05	3.14
wind	-0.8 m/s	velocity	5.02	8.10	8.17	8.33	8.25	8.50	8.33	8.10	8.17	8.10	8.82	7.67	8.20	8.36	8.12
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)														<i>CAA Hurdle Development (2021)</i>			
date	24-Apr-21	time	2.62	3.69	4.73	5.79	6.86	7.93	8.99	10.11	11.24	12.39	13.75	4 / 4			
reaction time	0.147	interval		1.07	1.04	1.06	1.07	1.07	1.06	1.12	1.13	1.15	1.36		3.17	3.20	3.40
wind	0.5 m/s	velocity	4.96	7.94	8.17	8.02	7.94	7.94	8.02	7.59	7.52	7.39	7.39	7.27	8.04	7.97	7.50
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)														<i>CAA Hurdle Development (2021)</i>			
date	08-Apr-21	time	2.60	3.64	4.68	5.72	6.72	7.74	8.78	9.82	10.88	11.92	13.08	4 / 1			
reaction time	0.147	interval		1.04	1.04	1.04	1.00	1.02	1.04	1.04	1.06	1.04	1.16	PB	3.12	3.06	3.14
wind	-0.1 m/s	velocity	5.00	8.17	8.17	8.17	8.50	8.33	8.17	8.17	8.02	8.17	8.66	7.65	8.17	8.33	8.12
A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)														<i>CAA Hurdle Development (2021)</i>			
date	13-Mar-21	time	2.64	3.68	4.72	5.74	6.77						8.12	5 / 1			
reaction time	0.158	interval		1.04	1.04	1.02	1.03					1.35	PB		3.10		
		velocity	4.92	8.17	8.17	8.33	8.25					9.63	7.39		8.23		
Heat 2 - 2021 National Indoor Grand Prix (Chengdu, CHN)														<i>CAA Hurdle Development (2021)</i>			
date	13-Mar-21	time	2.67	3.73	4.84	5.96	7.09						8.68	6 / 3			
reaction time	0.164	interval		1.06	1.11	1.12	1.13					1.59			3.29		
		velocity	4.87	8.02	7.66	7.59	7.52					8.18	6.91		7.75		
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)														<i>CAA Hurdle Development (2020)</i>			
date	15-Sep-20	time	2.61	3.67	4.71	5.75	6.77	7.79	8.83	9.90	10.97	12.05	13.22	4 / 2			
reaction time	0.144	interval		1.06	1.04	1.04	1.02	1.02	1.04	1.07	1.07	1.08	1.17	PB	3.14	3.08	3.22
wind	-0.4 m/s	velocity	4.98	8.02	8.17	8.17	8.33	8.33	8.17	7.94	7.94	7.87	8.59	7.56	8.12	8.28	7.92
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)														<i>CAA Hurdle Development (2020)</i>			
date	15-Sep-20	time	2.67	3.75	4.82	5.88	6.95	8.02	9.06	10.14	11.21	12.31	13.47	6 / 2			
reaction time	0.136	interval		1.08	1.07	1.06	1.07	1.07	1.04	1.08	1.07	1.10	1.16		3.21	3.18	3.25
wind	-0.6 m/s	velocity	4.87	7.87	7.94	8.02	7.94	7.94	8.17	7.87	7.94	7.73	8.66	7.42	7.94	8.02	7.85
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	24-Aug-19	time	2.68	3.77	4.84	5.92	6.97	8.04	9.10	10.16	11.27	12.37	13.55	9 / 4			
reaction time	0.161	interval		1.09	1.07	1.08	1.05	1.07	1.06	1.06	1.11	1.10	1.18		3.24	3.18	3.27
wind	-0.1 m/s	velocity	4.85	7.80	7.94	7.87	8.10	7.94	8.02	8.02	7.66	7.73	8.90	7.38	7.87	8.02	7.80
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	23-Aug-19	time	2.70	3.79	4.87	5.94	7.04	8.09	9.19	10.29	11.40	12.54	13.77	9 / 2			
reaction time	0.151	interval		1.09	1.08	1.07	1.10	1.05	1.10	1.10	1.11	1.14	1.23		3.24	3.25	3.35
wind	-0.2 m/s	velocity	4.81	7.80	7.87	7.94	7.73	8.10	7.73	7.73	7.66	7.46	8.54	7.26	7.87	7.85	7.61
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	02-Aug-19	time	2.67	3.74	4.81	5.86	6.91	7.99	9.03	10.13	11.23	12.36	13.57	1 / 6			
reaction time	0.127	interval		1.07	1.07	1.05	1.05	1.08	1.04	1.10	1.10	1.13	1.21		3.19	3.17	3.33
wind	0.0 m/s	velocity	4.87	7.94	7.94	8.10	8.10	7.87	8.17	7.73	7.73	7.52	8.68	7.37	7.99	8.04	7.66
Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	02-Aug-19	time	2.69	3.78	4.87	5.96	7.02	8.09	9.19	10.27	11.37	12.49	13.72	5 / 4			
reaction time	0.152	interval		1.09	1.09	1.09	1.06	1.07	1.10	1.08	1.10	1.12	1.23		3.27	3.23	3.30
wind	-0.3 m/s	velocity	4.83	7.80	7.80	7.80	8.02	7.94	7.73	7.87	7.73	7.59	8.54	7.29	7.80	7.89	7.73
FINAL - 2019 Chinese National Championships (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	08-Jul-19	time	2.73	3.81	4.89	5.98	7.06	8.15	9.24	10.36	11.46	12.60	13.83	7 / 8			
reaction time	0.143	interval		1.08	1.08	1.09	1.08	1.09	1.09	1.12	1.10	1.14	1.23		3.25	3.26	3.36
wind	0.2 m/s	velocity	4.76	7.87	7.87	7.80	7.87	7.80	7.80	7.59	7.73	7.46	8.54	7.23	7.85	7.82	7.59
Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	08-Jul-19	time	2.74	3.84	4.91	6.00	7.06	8.13	9.22	10.30	11.42	12.56	13.78	7 / 2			
reaction time	0.163	interval		1.10	1.07	1.09	1.06	1.07	1.09	1.08	1.12	1.14	1.22		3.26	3.22	3.34
wind	0.7 m/s	velocity	4.74	7.73	7.94	7.80	8.02	7.94	7.80	7.87	7.59	7.46	8.61	7.26	7.82	7.92	7.63

Heat 3 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)

CAA Hurdle Development (2019)

date	13-Apr-19	time	2.76	3.87	4.97	6.05	7.14	8.25	9.35	10.46	11.61	12.78		14.07		9 / 3			
reaction time	0.158	interval		1.11	1.10	1.08	1.09	1.11	1.10	1.11	1.15	1.17	1.29				3.29	3.30	3.43
wind	1.0 m/s	velocity	4.71	7.66	7.73	7.87	7.80	7.66	7.73	7.66	7.39	7.26	8.14	7.11			7.75	7.73	7.43

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)

Henson (2018) - coaching observations

date	16-Sep-18	time	2.67	3.73	4.80	5.86	6.93	7.98	9.04	10.13	11.25	12.36		13.57		6 / 5			
reaction time		interval		1.06	1.07	1.06	1.07	1.05	1.06	1.09	1.12	1.11	1.21				3.19	3.18	3.32
wind	-0.2 m/s	velocity	4.87	8.02	7.94	8.02	7.94	8.10	8.02	7.80	7.59	7.66	8.68	7.37			7.99	8.02	7.68

Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)

Henson (2018) - coaching observations

date	15-Sep-18	time	2.68	3.76	4.84	5.89	6.96	8.03	9.09	10.19	11.28	12.41		13.64		2 / 2			
reaction time		interval		1.08	1.08	1.05	1.07	1.07	1.06	1.10	1.09	1.13	1.23				3.21	3.20	3.32
wind	-0.6 m/s	velocity	4.85	7.87	7.87	8.10	7.94	7.94	8.02	7.73	7.80	7.52	8.54	7.33			7.94	7.97	7.68

Linde, Sofia (SWE) (1995)

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

Pentathlon - Heat 2 - 2013 European Indoor Championships (Göteborg, SWE)

Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx

date	01-Mar-13	time	2.73	3.80	4.86	5.90	6.94							8.36		5 / 5			
reaction time	0.165	interval		1.07	1.06	1.04	1.04						1.42				3.17		
wind		velocity	4.76	7.94	8.02	8.17	8.17						9.15	7.18			8.04		

Lindeblad, Elin (SWE) (1995)

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

National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)

Omega Timing (2023) - diamond league race analysis

date	02-Jul-23	time	2.57	3.69	4.79	5.86	6.92	8.01	9.08	10.16	11.25	12.36		13.75		5 / 4			
reaction time	0.140	interval		1.12	1.10	1.07	1.06	1.09	1.07	1.08	1.09	1.11	1.39				3.29	3.22	3.28
wind	0.6 m/s	velocity	5.06	7.59	7.73	7.94	8.02	7.80	7.94	7.87	7.80	7.66	7.23	7.27			7.75	7.92	7.77

Lindeén, Jonna (SWE) (1996)

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

National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)

Omega Timing (2023) - diamond league race analysis

date	02-Jul-23	time	2.66	3.81	4.92	6.01	7.08	8.15	9.23	10.32	11.42	12.54		13.95		7 / 6			
reaction time	0.195	interval		1.15	1.11	1.09	1.07	1.07	1.08	1.09	1.10	1.12	1.41				3.35	3.22	3.31
wind	0.6 m/s	velocity	4.89	7.39	7.66	7.80	7.94	7.94	7.87	7.80	7.73	7.59	7.13	7.17			7.61	7.92	7.70

Lindenmayer, Sabrina (GER) (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 Sparkassen Gala (Regensburg, GER)

Buckwitz (2014) - OSP Berlin / DLV frauen hürden report

date	07-Jun-14	time	2.72	3.80	4.88	5.92	6.98	8.00	9.04	10.09	11.14	12.26		13.44		8 / 3			
reaction time		interval		1.08	1.08	1.04	1.06	1.02	1.04	1.05	1.05	1.12	1.18				3.20	3.12	3.22
wind	0.1 m/s	velocity	4.78	7.87	7.87	8.17	8.02	8.33	8.17	8.10	8.10	7.59	8.90	7.44			7.97	8.17	7.92

Heat 2 - 2014 Sparkassen Gala (Regensburg, GER)

Buckwitz (2014) - OSP Berlin / DLV frauen hürden report

date	07-Jun-14	time	2.74	3.81	4.91	6.00	7.08	8.16	9.24	10.32	11.45	12.56		13.77		1 / 3			
reaction time		interval		1.07	1.10	1.09	1.08	1.08	1.08	1.08	1.13	1.11	1.21				3.26	3.24	3.32
wind	-0.5 m/s	velocity	4.74	7.94	7.73	7.80	7.87	7.87	7.87	7.87	7.52	7.66	8.68	7.26			7.82	7.87	7.68

Lindley, Lindsay (NGR) (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 1 - 2017 IAAF World Championships (London, GBR)

Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles

date	11-Aug-17	time	2.46	3.51	4.51	5.52	6.53	7.52	8.54	9.58	10.66	11.77		13.18		2 / 7			
reaction time	0.163	interval		1.05	1.00	1.01	1.01	0.99	1.02	1.04	1.08	1.11	1.41				3.06	3.02	3.23
wind	0.5 m/s	velocity	5.28	8.10	8.50	8.42	8.42	8.59	8.33	8.17	7.87	7.66	7.45	7.59			8.33	8.44	7.89

Litovchenko, Irina (URS) (1950)

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

A FINAL - 1979 VII USSR Spartakiade (Moscow, URS)

Balachničiv (1981) - Periodisierung & Zyklisierung des Trainings 78/79 Hürdenläuferinnen der Spitzenklasse der UdSSR

date	25-Jul-79	time	2.54	3.68	4.70	5.76	6.76	7.76	8.78	9.86	10.92	11.99		13.18		1 / 5			
reaction time		interval		1.14	1.02	1.06	1.00	1.00	1.02	1.08	1.06	1.07	1.19				3.22	3.02	3.21
wind	???	velocity	5.12	7.46	8.33	8.02	8.50	8.50	8.33	7.87	8.02	7.94	8.82	7.59			7.92	8.44	7.94

Liu Huajin (CHN) (1960)

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)

Xia (1990) - analysis of Liu Huajin's technical features in breaking the Asian 100m hurdles record

date	25-Nov-87	time	2.55	3.62	4.58	5.58	6.62	7.66	8.68	9.71	10.73	11.77		12.89		1 / 1			
reaction time		interval		1.07	0.96	1.00	1.04	1.04	1.02	1.03	1.02	1.04	1.12	AR			3.03	3.10	3.09
wind	???	velocity	5.10	7.94	8.85	8.50	8.17	8.17	8.33	8.25	8.33	8.17	9.37	7.76			8.42	8.23	8.25

Liu Jingyang (CHN) (1997)

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

Race 1 - 2024 Chinese Indoor Grand Prix I (Chengdu, CHN)

Shandong Athletics Sport Science (2024)

date	27-Feb-24	time	2.67	3.74	4.79	5.84	6.89							8.32		4 / 1			
reaction time		interval		1.07	1.05	1.05	1.05						1.43				3.17		
wind		velocity	4.87	7.94	8.10	8.10	8.10						9.09	12.02			8.04		

Shi Jiali (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 - 2023 Chinese National Grand Prix 3 (Taizhou, CHN)

Shandong Athletics Sport Science (2023)

date	27-May-23	time	2.65	3.74	4.84	5.91	6.97	8.05	9.14	10.23	11.34	12.48		13.76		6 / 2			
reaction time	0.129	interval		1.09	1.10	1.07	1.06	1.08	1.09	1.09	1.11	1.14	1.28				3.26	3.23	3.34
wind	-1.2 m/s	velocity	4.91	7.80	7.73	7.94	8.02	7.87	7.80	7.80	7.66	7.46	7.85	7.27			7.82	7.89	7.63

FINAL - 2023 Chinese Indoor National Championships (Tianjin, CHN)

Shandong Athletics Sport Science (2023)

date	16-Mar-23	time	2.67	3.74	4.78	5.82	6.85							8.28	4 / 4		
reaction time	0.179	interval		1.07	1.04	1.04	1.03							1.43			3.15
		velocity	4.87	7.94	8.17	8.17	8.25							9.09	7.25		8.10

Heat 2 - 2023 Chinese Indoor National Championships (Tianjin, CHN)

Shandong Athletics Sport Science (2023)

date	16-Mar-23	time	2.67	3.75	4.84	5.87	6.91							8.38	5 / 2		
reaction time	0.189	interval		1.08	1.09	1.03	1.04							1.47			3.20
		velocity	4.87	7.87	7.80	8.25	8.17							8.84	7.16		7.97

FINAL - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.63	3.70	4.76	5.80	6.82	7.84	8.87	9.93	10.97	12.04		13.24	8 / 5		
reaction time	0.172	interval		1.07	1.06	1.04	1.02	1.02	1.03	1.06	1.04	1.07	1.20				3.17 3.07 3.17
wind	1.7 m/s	velocity	4.94	7.94	8.02	8.17	8.33	8.33	8.25	8.02	8.17	7.94	8.37	7.55			8.04 8.31 8.04

Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.62	3.68	4.75	5.79	6.82	7.89	8.96	10.03	11.13	12.24		13.51	6 / 2		
reaction time	0.161	interval		1.06	1.07	1.04	1.03	1.07	1.07	1.07	1.10	1.11	1.27				3.17 3.17 3.28
wind	-1.6 m/s	velocity	4.96	8.02	7.94	8.17	8.25	7.94	7.94	7.94	7.73	7.66	7.91	7.40			8.04 8.04 7.77

FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)

CAA Hurdle Development (2021)

date	12-Jun-21	time	2.58	3.64	4.68	5.69	6.71	7.72	8.78	9.82	10.88	11.98		13.22	7 / 3		
reaction time	0.107	interval		1.06	1.04	1.01	1.02	1.01	1.06	1.04	1.06	1.10	1.24	PB			3.11 3.09 3.20
wind	1.0 m/s	velocity	5.04	8.02	8.17	8.42	8.33	8.42	8.02	8.17	8.02	7.73	8.10	7.56			8.20 8.25 7.97

Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)

CAA Hurdle Development (2021)

date	12-Jun-21	time	2.57	3.64	4.70	5.74	6.79	7.83	8.89	9.96	11.01	12.09		13.39	5 / 3		
reaction time	0.164	interval		1.07	1.06	1.04	1.05	1.04	1.06	1.07	1.05	1.08	1.30				3.17 3.15 3.20
wind	2.2 m/s	velocity	5.06	7.94	8.02	8.17	8.10	8.17	8.02	7.94	8.10	7.87	7.73	7.47			8.04 8.10 7.97

FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)

CAA Hurdle Development (2021)

date	19-May-21	time	2.71	3.78	4.84	5.90	6.95	8.00	9.06	10.14	11.21	12.34		13.61	6 / 2		
reaction time	0.198	interval		1.07	1.06	1.06	1.05	1.05	1.06	1.08	1.07	1.13	1.27				3.19 3.16 3.28
wind	0.2 m/s	velocity	4.80	7.94	8.02	8.02	8.10	8.10	8.02	7.87	7.94	7.52	7.91	7.35			7.99 8.07 7.77

FINAL - 2021 Central China Athletics Meeting (Ji'an, CHN)

CAA Hurdle Development (2021)

date	11-May-21	time	2.72	3.81	4.90	5.97	7.02	8.09	9.16	10.25	11.36	12.49		13.78	5 / 3		
reaction time		interval		1.09	1.09	1.07	1.05	1.07	1.07	1.09	1.11	1.13	1.29				3.25 3.19 3.33
wind	-0.6 m/s	velocity	4.78	7.80	7.80	7.94	8.10	7.94	7.94	7.80	7.66	7.52	7.79	7.26			7.85 7.99 7.66

FINAL - 2021 East China District Meeting (Zhaoqing, CHN)

CAA Hurdle Development (2021)

date	24-Apr-21	time	2.69	3.80	4.88	5.94	6.99	8.06	9.12	10.21	11.30	12.40		13.67	6 / 8		
reaction time	0.188	interval		1.11	1.08	1.06	1.05	1.07	1.06	1.09	1.09	1.10	1.27				3.25 3.18 3.28
wind	-0.8 m/s	velocity	4.83	7.66	7.87	8.02	8.10	7.94	8.02	7.80	7.80	7.73	7.91	7.32			7.85 8.02 7.77

Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)

CAA Hurdle Development (2021)

date	24-Apr-21	time	2.67	3.77	4.84	5.87	6.91	7.94	8.99	10.07	11.14	12.24		13.49	4 / 1		
reaction time	0.170	interval		1.10	1.07	1.03	1.04	1.03	1.05	1.08	1.07	1.10	1.25				3.20 3.12 3.25
wind	0.6 m/s	velocity	4.87	7.73	7.94	8.25	8.17	8.25	8.10	7.87	7.94	7.73	8.04	7.41			7.97 8.17 7.85

FINAL - 2021 National Grand Prix (Chengdu, CHN)

CAA Hurdle Development (2021)

date	02-Apr-21	time	2.72	3.80	4.87	5.94	6.97	8.01	9.08	10.14	11.25	12.38		13.64	6 / 5		
reaction time	0.199	interval		1.08	1.07	1.07	1.03	1.04	1.07	1.06	1.11	1.13	1.26				3.22 3.14 3.30
wind	0.1 m/s	velocity	4.78	7.87	7.94	7.94	8.25	8.17	7.94	8.02	7.66	7.52	7.98	7.33			7.92 8.12 7.73

Heat 2 - 2021 National Grand Prix (Chengdu, CHN)

CAA Hurdle Development (2021)

date	02-Apr-21	time	2.68	3.78	4.86	5.92	6.98	8.04	9.10	10.18	11.28	12.40		13.66	3 / 1		
reaction time	0.181	interval		1.10	1.08	1.06	1.06	1.06	1.06	1.08	1.10	1.12	1.26				3.24 3.18 3.30
wind	0.4 m/s	velocity	4.85	7.73	7.87	8.02	8.02	8.02	8.02	7.87	7.73	7.59	7.98	7.32			7.87 8.02 7.73

Semi-Final 2 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)

CAA Hurdle Development (2020)

date	14-Feb-20	time	2.67	3.77	4.81	5.86	6.92							8.49	8 / 4		
reaction time		interval		1.10	1.04	1.05	1.06							1.57			3.19
		velocity	4.87	7.73	8.17	8.10	8.02							8.28	7.07		7.99

Heat 3 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)

CAA Hurdle Development (2020)

date	14-Feb-20	time	2.65	3.74	4.80	5.87	6.92							8.54	7 / 2		
reaction time		interval		1.09	1.06	1.07	1.05							1.62			3.22
		velocity	4.91	7.80	8.02	7.94	8.10							8.02	7.03		7.92

FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)

CAA Hurdle Development (2020)

date	01-Feb-20	time	2.70	3.77	4.84	5.90	6.94							8.40	6 / 4		
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FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)

date	09-Apr-19	time	2.67	3.73	4.79	5.83	6.87	7.90	8.93	9.97	11.03	12.12		13.35	CAA Hurdle Development (2019)			
reaction time	0.182	interval		1.06	1.06	1.04	1.04	1.03	1.03	1.04	1.06	1.09	1.23	PB		3.16	3.10	3.19
wind	0.1 m/s	velocity	4.87	8.02	8.02	8.17	8.17	8.25	8.25	8.17	8.02	7.80	8.54	7.49		8.07	8.23	7.99

Heat 3 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)

date	08-Apr-19	time	2.64	3.73	4.79	5.84	6.87	7.92	8.98	10.03	11.12	12.20		13.42	CAA Hurdle Development (2019)			
reaction time	0.191	interval		1.09	1.06	1.05	1.03	1.05	1.06	1.05	1.09	1.08	1.22	PB		3.20	3.14	3.22
wind	1.0 m/s	velocity	4.92	7.80	8.02	8.10	8.25	8.10	8.02	8.10	7.80	7.87	8.61	7.45		7.97	8.12	7.92

A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)

date	20-Mar-19	time	2.65	3.74	4.81	5.87	6.94							8.39	CAA Hurdle Development (2019)			
reaction time		interval		1.09	1.07	1.06	1.07						1.45			3.22		
		velocity	4.91	7.80	7.94	8.02	7.94						8.97	7.15		7.92		

A-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)

date	24-Feb-19	time	2.65	3.74	4.80	5.84	6.91							8.35	CAA Hurdle Development (2019)			
reaction time		interval		1.09	1.06	1.04	1.07						1.44	PB		3.19		
		velocity	4.91	7.80	8.02	8.17	7.94						9.03	7.19		7.99		

A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)

date	20-Feb-19	time	2.68	3.74	4.81	5.88	6.96							8.40	CAA Hurdle Development (2019)			
reaction time		interval		1.06	1.07	1.07	1.08						1.44	PB		3.20		
		velocity	4.85	8.02	7.94	7.94	7.87						9.03	7.14		7.97		

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)

date	16-Sep-18	time	2.70	3.76	4.82	5.88	6.94	7.99	9.04	10.11	11.21	12.33		13.60	Henson (2018) - coaching observations			
reaction time		interval		1.06	1.06	1.06	1.06	1.05	1.05	1.07	1.10	1.12	1.27	PB		3.18	3.16	3.29
wind	-0.2 m/s	velocity	4.81	8.02	8.02	8.02	8.02	8.10	8.10	7.94	7.73	7.59	8.27	7.35		8.02	8.07	7.75

Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)

date	15-Sep-18	time	2.68	3.76	4.82	5.87	6.96	8.03	9.09	10.21	11.33	12.46		13.72	Henson (2018) - coaching observations			
reaction time		interval		1.08	1.06	1.05	1.09	1.07	1.06	1.12	1.12	1.13	1.26	PB		3.19	3.22	3.37
wind	0.0 m/s	velocity	4.85	7.87	8.02	8.10	7.80	7.94	8.02	7.59	7.59	7.52	8.33	7.29		7.99	7.92	7.57

Liu Jingyi (CHN) (2000)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																		
date	24-Jun-21	time	2.83	3.97	5.12	6.27	7.42	8.56	9.72	10.91	12.11	13.36		14.75	CAA Hurdle Development (2021)			
reaction time		interval		1.14	1.15	1.15	1.15	1.14	1.16	1.19	1.20	1.25	1.39	PB		3.44	3.45	3.64
wind	0.3 m/s	velocity	4.59	7.46	7.39	7.39	7.39	7.46	7.33	7.14	7.08	6.80	7.23	6.78		7.41	7.39	7.01

FINAL - 2021 Central China Athletics Meeting (Ji'an, CHN)

date	11-May-21	time	2.87	4.00	5.19	6.34	7.52	8.70	9.89	11.11	12.34	13.61		15.01	CAA Hurdle Development (2021)			
reaction time		interval		1.13	1.19	1.15	1.18	1.18	1.19	1.22	1.23	1.27	1.40			3.47	3.55	3.72
wind	-0.6 m/s	velocity	4.53	7.52	7.14	7.39	7.20	7.20	7.14	6.97	6.91	6.69	7.18	6.66		7.35	7.18	6.85

Heptathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

date	23-Aug-19	time	2.80	3.95	5.14	6.30	7.49	8.68	9.89	11.14	12.42	13.68		15.17	CAA Hurdle Development (2019)			
reaction time	0.179	interval		1.15	1.19	1.16	1.19	1.19	1.21	1.25	1.28	1.26	1.49			3.50	3.59	3.79
wind	?? m/s	velocity	4.64	7.39	7.14	7.33	7.14	7.14	7.02	6.80	6.64	6.75	7.05	6.59		7.29	7.10	6.73

Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.83	4.00	5.17	6.36	7.54	8.72	9.96	11.22	12.51	13.83		15.31	CAA Hurdle Development (2019)			
reaction time	0.167	interval		1.17	1.17	1.19	1.18	1.18	1.24	1.26	1.29	1.32	1.48			3.53	3.60	3.87
wind	0.1 m/s	velocity	4.59	7.26	7.26	7.14	7.20	7.20	6.85	6.75	6.59	6.44	7.09	6.53		7.22	7.08	6.59

Liu Miao (CHN) (2003)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																		
date	24-Jun-21	time	3.00	4.24	5.48	6.72	7.97	9.24	10.49	11.78	13.11	14.45		15.95	CAA Hurdle Development (2021)			
reaction time	0.258	interval		1.24	1.24	1.24	1.25	1.27	1.25	1.29	1.33	1.34	1.50			3.72	3.77	3.96
wind	0.3 m/s	velocity	4.33	6.85	6.85	6.85	6.80	6.69	6.80	6.59	6.39	6.34	6.70	6.27		6.85	6.76	6.44

Heat 3 - 2021 National Indoor Grand Prix (Chengdu, CHN)

date	13-Mar-21	time	3.00	4.27	5.52	6.77	8.04							9.75	CAA Hurdle Development (2021)			
reaction time	0.245	interval		1.27	1.25	1.25	1.27						1.71	PB		3.77		
		velocity	4.33	6.69	6.80	6.80	6.69						7.60	6.15		6.76		

Liu Sihui (CHN)

			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)																		
date	19-May-21	time	2.88	4.08	5.26	6.47	7.67	8.85	10.09	11.34	12.59	13.89		15.25	CAA Hurdle Development (2021)			
reaction time	0.211	interval		1.20	1.18	1.21	1.20	1.18	1.24	1.25	1.25	1.30	1.36			3.59	3.62	3.80
wind	0.2 m/s	velocity	4.51	7.08	7.20	7.02	7.08	7.20	6.85	6.80	6.80	6.54	7.39	6.56		7.10	7.04	6.71

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Liu Xinyao (CHN) (2003)																		
Heat 3 - 2021 National Grand Prix (Chengdu, CHN)		CAA Hurdle Development (2021)																
date	02-Apr-21	time	2.92	4.14	5.44	6.72	7.98	9.24	10.50	11.78	13.10	14.42		15.90	7 / 5			
reaction time	0.183	interval		1.22	1.30	1.28	1.26	1.26	1.26	1.28	1.32	1.32	1.48			3.80	3.78	3.92
wind	1.0 m/s	velocity	4.45	6.97	6.54	6.64	6.75	6.75	6.75	6.64	6.44	6.44	6.79	6.29		6.71	6.75	6.51
Heat 3 - 2021 National Indoor Grand Prix (Chengdu, CHN)		CAA Hurdle Development (2021)																
date	13-Mar-21	time	2.93	4.22	5.47	6.72	7.99							9.68	3 / 6			
reaction time	0.201	interval		1.29	1.25	1.25	1.27						1.69	PB		3.79		
		velocity	4.44	6.59	6.80	6.80	6.69						7.69	6.20		6.73		
Liu Xinyu (CHN) (2002)																		
Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)		CAA Hurdle Development (2021)																
date	25-Jun-21	time	2.78	3.90	5.00	6.10	7.20	8.31	9.41	10.56	11.71	12.88		14.18	8 / 5			
reaction time	0.216	interval	7 steps	1.12	1.10	1.10	1.10	1.11	1.10	1.15	1.15	1.17	1.30			3.32	3.31	3.47
wind	-0.3 m/s	velocity	4.68	7.59	7.73	7.73	7.73	7.66	7.73	7.39	7.39	7.26	7.73	7.05		7.68	7.70	7.35
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)		CAA Hurdle Development (2021)																
date	24-Apr-21	time	2.82	3.94	5.05	6.13	7.26	8.36	9.49	10.64	11.81	13.00		14.29	5 / 5			
reaction time	0.277	interval	7 steps	1.12	1.11	1.08	1.13	1.10	1.13	1.15	1.17	1.19	1.29	PB		3.31	3.36	3.51
wind	0.5 m/s	velocity	4.61	7.59	7.66	7.87	7.52	7.73	7.52	7.39	7.26	7.14	7.79	7.00		7.70	7.59	7.26
Lobe, Ricarda (GER) (1994)																		
Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		Henson (2024) - Athlete First: 2021 year end hurdle report																
date	31-Jul-21	time	2.66	3.73	4.77	5.79	6.82	7.84	8.86	9.90	10.98	12.10		13.43	7 / 8			
reaction time	0.139	interval		1.07	1.04	1.02	1.03	1.02	1.02	1.04	1.08	1.12	1.33			3.13	3.07	3.24
wind	1.0 m/s	velocity	4.89	7.94	8.17	8.33	8.25	8.33	8.33	8.17	7.87	7.59	7.56	7.45		8.15	8.31	7.87
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)		Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles																
date	11-Aug-17	time	2.49	3.59	4.63	5.66	6.68	7.66	8.69	9.72	10.76	11.83		13.11	3 / 6			
reaction time	0.147	interval		1.10	1.04	1.03	1.02	0.98	1.03	1.03	1.04	1.07	1.28			3.17	3.03	3.14
wind	0.5 m/s	velocity	5.22	7.73	8.17	8.25	8.33	8.67	8.25	8.25	8.17	7.94	8.20	7.63		8.04	8.42	8.12
Lodree, Ashley (USA) (1985)																		
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)		USATF Women's Sprint Development (2003)																
date	22-Jun-03	time	2.58	3.67	4.74	5.80	6.87	7.93	9.03	10.09	11.18	12.28		13.59	6 / 3			
reaction time		interval		1.09	1.07	1.06	1.07	1.06	1.10	1.06	1.09	1.10	1.31			3.22	3.23	3.25
wind	2.3 m/s	velocity	5.04	7.80	7.94	8.02	7.94	8.02	7.73	8.02	7.80	7.73	8.02	7.36		7.92	7.89	7.85
Lopes-Schliep, Priscilla (CAN) (1982)																		
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)		Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships																
date	13-Mar-10	time	2.55	3.58	4.57	5.56	6.54							7.87	5 / 3			
reaction time	0.132	interval		1.03	0.99	0.99	0.98						1.33			3.01		
		velocity	5.10	8.25	8.59	8.59	8.67						9.77	7.62		8.47		
FINAL - 2009 IAAF World Championships (Berlin, GER)		Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																
date	19-Aug-09	time	2.56	3.58	4.58	5.57	6.54	7.50	8.47	9.46	10.44	11.46		12.54	6 / 2			
reaction time	0.128	interval		1.02	1.00	0.99	0.97	0.96	0.97	0.99	0.98	1.02	1.08			3.01	2.90	2.99
wind	0.2 m/s	velocity	5.08	8.33	8.50	8.59	8.76	8.85	8.76	8.59	8.67	8.33	9.72	7.97		8.47	8.79	8.53
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)		Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																
date	19-Aug-09	time	2.58	3.60	4.60	5.59	6.56	7.54	8.51	9.50	10.48	11.52		12.60	3 / 1			
reaction time	0.142	interval		1.02	1.00	0.99	0.97	0.98	0.97	0.99	0.98	1.04	1.08			3.01	2.92	3.01
wind	-0.1 m/s	velocity	5.04	8.33	8.50	8.59	8.76	8.67	8.76	8.59	8.67	8.17	9.72	7.94		8.47	8.73	8.47
Heat 4 - 2009 IAAF World Championships (Berlin, GER)		Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																
date	18-Aug-09	time	2.58	3.60	4.60	5.58	6.56	7.53	8.50	9.48	10.45	11.50		12.56	3 / 1			
reaction time	0.142	interval		1.02	1.00	0.98	0.98	0.97	0.97	0.98	0.97	1.05	1.06			3.00	2.92	3.00
wind	-0.3 m/s	velocity	5.04	8.33	8.50	8.67	8.67	8.76	8.76	8.67	8.76	8.10	9.91	7.96		8.50	8.73	8.50
FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)		Graubner (2009) - http://www.fgs.uni-halle.de																
date	13-Sep-08	time	2.55	3.60	4.61	5.64	6.66	7.66	8.67	9.68	10.70	11.72		12.81	1 / 6 5			
reaction time	0.139	interval		1.05	1.01	1.03	1.02	1.00	1.01	1.01	1.02	1.02	1.09			3.09	3.03	3.05
wind	0.3 m/s	velocity	5.10	8.10	8.42	8.25	8.33	8.50	8.42	8.42	8.33	8.33	9.63	7.81		8.25	8.42	8.36
FINAL - 2008 Olympic Games (Beijing, CHN)		Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance																
date	19-Aug-08	time	2.57	3.63	4.63	5.60	6.60	7.58	8.54	9.53	10.56	11.58		12.64	8 / 3			
reaction time	0.174	interval		1.06	1.00	0.97	1.00	0.98	0.96	0.99	1.03	1.02	1.06			3.03	2.94	3.04
wind	0.1 m/s	velocity	5.06	8.02	8.50	8.76	8.50	8.67	8.85	8.59	8.25	8.33	9.91	7.91		8.42	8.67	8.39
Semi-Final 1 - 2008 Olympic Games (Beijing, CHN)		Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance																
date	18-Aug-08	time	2.51	3.56	4.58	5.57	6.58	7.54	8.50	9.52	10.57	11.59		12.68	6 / 3			
reaction time	0.159	interval		1.05	1.02	0.99	1.01	0.96	0.96	1.02	1.05	1.02	1.09			3.06	2.93	3.09

wind 0.2 m/s velocity 5.18 8.10 8.33 8.59 8.42 8.85 8.85 8.33 8.10 8.33 9.63 7.89 8.33 8.70 8.25

López, Aliuska (CUB) (1969)

			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	27-Aug-99	time	2.53	3.55	4.56	5.55	6.54	7.51	8.52	9.54	10.57	11.62		12.83	1 / 5			
reaction time	0.130	interval		1.02	1.01	0.99	0.99	0.97	1.01	1.02	1.03	1.05	1.21			3.02	2.97	3.10
wind	1.0 m/s	velocity	5.14	8.33	8.42	8.59	8.59	8.76	8.42	8.33	8.25	8.10	8.68	7.79		8.44	8.59	8.23

FINAL - 1986 IAAF World Junor Championships (Athens, GRE)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<i>Miskos (1986) - IAAF biomechanical research - Athens 1986 - hurdle races</i>																		
date	19-Jul-86	time	2.65	3.70	4.72	5.74	6.78	7.81	8.85	9.87	10.90	11.95		13.14	1 / 2			
reaction time	0.156	interval		1.05	1.02	1.02	1.04	1.03	1.04	1.02	1.03	1.05	1.19			3.09	3.11	3.10
wind	-0.7 m/s	velocity	4.91	8.10	8.33	8.33	8.17	8.25	8.17	8.33	8.25	8.10	8.82	7.61		8.25	8.20	8.23

Lu Xinyue (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) (76cm)																		
<i>CAA Hurdle Development (2019)</i>																		
date	14-Aug-19	time	2.79	3.96	5.12	6.26	7.41	8.54	9.71	10.89	12.06	13.28		14.65	3 / 5			
reaction time	0.156	interval		1.17	1.16	1.14	1.15	1.13	1.17	1.18	1.17	1.22	1.37			3.47	3.45	3.57
wind	0.0 m/s	velocity	4.66	7.26	7.33	7.46	7.39	7.52	7.26	7.20	7.26	6.97	7.66	6.83		7.35	7.39	7.14

Lui Lai Yiu (HKG) (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 Grand Prix 2 (Chongqing, CHN)																		
<i>CAA Hurdle Development (2019)</i>																		
date	07-Jun-19	time	2.66	3.72	4.75	5.77	6.79	7.80	8.82	9.87	10.92	11.99		13.18	7 / 2			
reaction time	0.180	interval		1.06	1.03	1.02	1.02	1.01	1.02	1.05	1.05	1.07	1.19			3.11	3.05	3.17
wind	2.3 m/s	velocity	4.89	8.02	8.25	8.33	8.33	8.42	8.33	8.10	8.10	7.94	8.82	7.59		8.20	8.36	8.04

FINAL - 2019 Asian Grand Prix 1 (Chongqing, 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	04-Jun-19	time	2.65	3.73	4.78	5.82	6.87	7.90	8.99	10.04	11.11	12.21		13.42	3 / 2			
reaction time	0.151	interval		1.08	1.05	1.04	1.05	1.03	1.09	1.05	1.07	1.10	1.21			3.17	3.17	3.22
wind	-1.2 m/s	velocity	4.91	7.87	8.10	8.17	8.10	8.25	7.80	8.10	7.94	7.73	8.68	7.45		8.04	8.04	7.92

FINAL - 2019 Asian Athletics Championships (Doha, QAT)

			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	24-Apr-19	time	2.62	3.65	4.68	5.72	6.74	7.79	8.84	9.89	10.99	12.09		13.32	5 / 4			
reaction time	0.132	interval		1.03	1.03	1.04	1.02	1.05	1.05	1.05	1.10	1.10	1.23	PB		3.10	3.12	3.25
wind	1.3 m/s	velocity	4.96	8.25	8.25	8.17	8.33	8.10	8.10	8.10	7.73	7.73	8.54	7.51		8.23	8.17	7.85

Heat 2 - 2019 Asian Athletics Championships (Doha, QAT)

			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	23-Apr-19	time	2.67	3.70	4.73	5.75	6.79	7.82	8.87	9.94	11.01	12.12		13.35	5 / 2			
reaction time	0.131	interval		1.03	1.03	1.02	1.04	1.03	1.05	1.07	1.07	1.11	1.23	NR		3.08	3.12	3.25
wind	1.9 m/s	velocity	4.87	8.25	8.25	8.33	8.17	8.25	8.10	7.94	7.94	7.66	8.54	7.49		8.28	8.17	7.85

FINAL - 2017 Chinese National Games (Tianjin, 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 (2017) - coaching observations</i>																		
date	04-Sep-17	time	2.72	3.82	4.88	5.93	7.01	8.07	9.17	10.26	11.35	12.49		13.74	2 / 7			
reaction time		interval		1.10	1.06	1.05	1.08	1.06	1.10	1.09	1.09	1.14	1.25			3.21	3.24	3.32
wind	-0.2 m/s	velocity	4.78	7.73	8.02	8.10	7.87	8.02	7.73	7.80	7.80	7.46	8.40	7.28		7.94	7.87	7.68

Lukic, Anja (SRB) (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 Doha Diamond League (Doha, QAT) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																		
date	25-Sep-20	time	2.60	3.66	4.73	5.80	6.83	7.86	8.96	10.03	11.13	12.20		13.48	1 / 7			
reaction time	0.163	interval		1.06	1.07	1.07	1.03	1.03	1.10	1.07	1.10	1.07	1.28			3.20	3.16	3.24
wind	1.1 m/s	velocity	5.00	8.02	7.94	7.94	8.25	8.25	7.73	7.94	7.73	7.94	7.85	7.42		7.97	8.07	7.87

Lu Xinyu (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)																		
<i>CAA Hurdle Development (2021)</i>																		
date	25-Jun-21	time	2.75	3.89	5.02	6.15	7.26	8.39	9.53	10.68	11.86	13.06		14.38	7 / 6			
reaction time	0.170	interval		1.14	1.13	1.13	1.11	1.13	1.14	1.15	1.18	1.20	1.32			3.40	3.38	3.53
wind	-0.3 m/s	velocity	4.73	7.46	7.52	7.52	7.66	7.52	7.46	7.39	7.20	7.08	7.61	6.95		7.50	7.54	7.22

FINAL - 2021 National Indoor Grand Prix (Jinan, 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 (2021)</i>																		
date	18-Mar-21	time	2.69	3.81	4.93	6.03	7.14							8.62	2 / 5			
reaction time	0.167	interval		1.12	1.12	1.10	1.11						1.48	PB		3.34		
		velocity	4.83	7.59	7.59	7.73	7.66						8.78	6.96		7.63		

Heat 1 - 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	15-Sep-20	time	2.78	3.94	5.11	6.28	7.45	8.60	9.77	10.95	12.13	13.35		14.69	6 / 7			
reaction time	0.169	interval		1.16	1.17	1.17	1.17	1.15	1.17	1.18	1.18	1.22	1.34			3.50	3.49	3.58
wind	0.3 m/s	velocity	4.68	7.33	7.26	7.26	7.26	7.39	7.26	7.20	7.20	6.97	7.50	6.81		7.29	7.31	7.12

Lundahl, Caroline (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 - 2012 Windsprint (Sundsvall, SWE)																		
<i>Blomkvist (2012) - www.sub13.se</i>																		
date	17-Jun-12	time	2.79	3.87	4.94	5.99	7.04	8.15	9.20	10.30	11.42	12.57		13.80	1 / 3			
reaction time		interval		1.08	1.07	1.05	1.05	1.11	1.05	1.10	1.12	1.15	1.23			3.20	3.21	3.37
wind	0.8 m/s	velocity	4.66	7.87	7.94	8.10	8.10	7.66	8.10	7.73	7.59	7.39	8.54	7.25		7.97	7.94	7.57

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Lüppert Thomsson, Frida (SWE) (1992)																		
FINAL - 2010 Windsprint (Sundsvall, SWE)		<i>Blomkvist (2010) - 100/110m Hurdles: Development</i>																
date	08-Aug-10	time	2.83	3.99	5.16	6.29	7.44	8.62	9.80	11.01	12.25	13.50		14.94	/ 6			
reaction time		interval		1.16	1.17	1.13	1.15	1.18	1.18	1.21	1.24	1.25	1.44			3.46	3.51	3.70
wind	0.6 m/s	velocity	4.59	7.33	7.26	7.52	7.39	7.20	7.20	7.02	6.85	6.80	7.29	6.69		7.37	7.26	6.89
Ma Shiqi (CHN) (2001)																		
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN)		<i>CAA Hurdle Development (2019)</i>																
date	14-Aug-19	time	2.75	3.87	5.04	6.19	7.36	8.54	9.73	10.93	12.14	13.40		14.74	7 / 4			
reaction time	0.152	interval		1.12	1.17	1.15	1.17	1.18	1.19	1.20	1.21	1.26	1.34	PB		3.44	3.54	3.67
wind	0.0 m/s	velocity	4.73	7.59	7.26	7.39	7.26	7.20	7.14	7.08	7.02	6.75	7.84	6.78		7.41	7.20	6.95
Macchiut, Margaret (ITA) (1974)																		
FINAL - 2001 European Cup (Bremen, GER)		<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																
date	24-Jun-01	time	2.69	3.76	4.84	5.87	6.91	7.92	8.96	9.98	11.03	12.10		13.23	/ 5			
reaction time	0.128	interval		1.07	1.08	1.03	1.04	1.01	1.04	1.02	1.05	1.07	1.13			3.18	3.09	3.14
wind	0.6 m/s	velocity	4.83	7.94	7.87	8.25	8.17	8.42	8.17	8.33	8.10	7.94	9.29	7.56		8.02	8.25	8.12
Mächtigt, Julia (GER) (1986)																		
Heptathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)		<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																
date	15-Aug-09	time	2.77	3.92	5.08	6.24	7.38	8.52	9.67	10.84	12.03	13.21		14.40	5 / 4			
reaction time	0.171	interval		1.15	1.16	1.16	1.14	1.14	1.15	1.17	1.19	1.18	1.19			3.47	3.43	3.54
wind	-0.1 m/s	velocity	4.69	7.39	7.33	7.33	7.46	7.46	7.39	7.26	7.14	7.20	8.82	6.94		7.35	7.43	7.20
Maeda, Mitsuki (JPN) (2004)																		
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)		<i>Kishima (2022) - national high school championships biomechanics data collection</i>																
date	07-Aug-22	time	2.69	3.78	4.88	5.99	7.09	8.20	9.31	10.44	11.57	12.72		13.96	9 / 4			
reaction time	0.169	interval		1.09	1.10	1.11	1.10	1.11	1.11	1.13	1.13	1.15	1.24			3.30	3.32	3.41
wind	-1.5 m/s	velocity	4.83	7.80	7.73	7.66	7.73	7.66	7.66	7.52	7.52	7.39	8.10	7.16		7.73	7.68	7.48
Magee, Paige (USA) (2002)																		
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)		<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																
date	28-Jun-24	time	2.77	3.87	4.92	5.95	6.98	8.02	9.07	10.12	11.18	12.23		13.41	9 / 6			
reaction time		interval		1.10	1.05	1.03	1.03	1.04	1.05	1.05	1.06	1.05	1.18			3.18	3.12	3.16
wind	0.2 m/s	velocity	4.69	7.73	8.10	8.25	8.25	8.17	8.10	8.10	8.02	8.10	8.52	7.46		8.02	8.17	8.07
Magnusson, Emma (SWE) (1985)																		
FINAL - 2010 Swedish National Championships (Falun, SWE)		<i>Blomkvist (2010) - www.sub13.se</i>																
date	22-Aug-10	time	2.87	3.99	5.09	6.19	7.27	8.36	9.48	10.59	11.73	12.94		14.26	/ 4			
reaction time		interval		1.12	1.10	1.10	1.08	1.09	1.12	1.11	1.14	1.21	1.32			3.32	3.29	3.46
wind	-0.2 m/s	velocity	4.53	7.59	7.73	7.73	7.87	7.80	7.59	7.66	7.46	7.02	7.95	7.01		7.68	7.75	7.37
Maihara, Kaede (JPN)																		
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	2.95	4.35	5.72	7.12	8.49	9.84	11.27	12.71	14.17	15.67		17.25	3 / 6			
reaction time		interval		1.40	1.37	1.40	1.37	1.35	1.43	1.44	1.46	1.50	1.58			4.17	4.15	4.40
wind	1.9 m/s	velocity	4.41	6.07	6.20	6.07	6.20	6.30	5.94	5.90	5.82	5.67	6.36	5.80		6.12	6.14	5.80
Majerová, Denisa (CZE) (1997)																		
Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)		<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																
date	28-Jun-14	time	3.03	4.23	5.41	6.63	7.85	9.07	10.30	11.53	12.78	14.10		15.55	5 / 5			
reaction time	0.261	interval		1.20	1.18	1.22	1.22	1.22	1.23	1.23	1.25	1.32	1.45			3.60	3.67	3.80
wind	-1.3 m/s	velocity	4.29	7.08	7.20	6.97	6.97	6.97	6.91	6.91	6.80	6.44	7.24	6.43		7.08	6.95	6.71
Majewska, Marika (POL) (2002)																		
Heat A - 2024 Kamila Skolimowska Memorial (Silesia, POL)		<i>Omega Timing (2024) - diamond league race analysis</i>																
date	25-Aug-24	time	2.55	3.61	4.64	5.65	6.65	7.64	8.65	9.69	10.76	11.84		13.15	9 / 6			
reaction time	0.155	interval		1.06	1.03	1.01	1.00	0.99	1.01	1.04	1.07	1.08	1.31			3.10	3.00	3.19
wind	-0.3 m/s	velocity	5.10	8.02	8.25	8.42	8.50	8.59	8.42	8.17	7.94	7.87	7.67	7.60		8.23	8.50	7.99
Májová, Veronika (CZE) (1998)																		
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)		<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																
date	28-Jun-14	time	2.88	4.09	5.31	6.55	7.85	9.14	10.57	11.95	13.37	14.79		16.40	4 / 5			
reaction time	0.168	interval		1.21	1.22	1.24	1.30	1.29	1.43	1.38	1.42	1.42	1.61			3.67	4.02	4.22
wind	-7.3 m/s	velocity	4.51	7.02	6.97	6.85	6.54	6.59	5.94	6.16	5.99	5.99	6.52	6.10		6.95	6.34	6.04
Makakala, Fatima (SWE) (1989)																		
FINAL - 2011 Windsprint (Sundsvall, SWE)		<i>Blomkvist (2011) - www.sub13.se</i>																
date	31-Jul-11	time	2.70	3.76	4.82	5.90	6.97	8.05	9.13	10.26	11.40	12.54		13.78	/ 4			
reaction time		interval		1.06	1.06	1.08	1.07	1.08	1.08	1.13	1.14	1.14	1.24			3.20	3.23	3.41
wind	1.4 m/s	velocity	4.81	8.02	8.02	7.87	7.94	7.87	7.87	7.52	7.46	7.46	8.47	7.26		7.97	7.89	7.48

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Malá, Patricie (CZE) (1998)																	
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)												<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.98	4.25	5.56	6.87	8.25	9.65	11.07	12.51	14.14	15.75	17.31	3 / 7			
reaction time	0.141	interval	1.27	1.31	1.31	1.38	1.40	1.42	1.44	1.63	1.61	1.56			3.89	4.20	4.68
wind	-7.3 m/s	velocity	4.36	6.69	6.49	6.49	6.16	6.07	5.99	5.90	5.21	5.28	6.73	5.78	6.56	6.07	5.45
Mamona, Patrícia (POR) (1988)																	
Race 1 - 2011 European Team Championships (Stockholm, SWE)												<i>Blomkvist (2011) - www.sub13.se</i>					
date	19-Jun-11	time	2.74	3.80	4.88	6.00	7.08	8.20	9.30	10.42	11.56	12.80	14.30	/ 6			
reaction time	0.196	interval	1.06	1.08	1.12	1.08	1.12	1.10	1.12	1.14	1.24	1.50			3.26	3.30	3.50
wind	-1.0 m/s	velocity	4.74	8.02	7.87	7.59	7.87	7.59	7.73	7.59	7.46	6.85	7.00	6.99	7.82	7.73	7.29
Mardomingo, María José (ESP) (1969)																	
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)												<i>Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas</i>					
date	01-Aug-98	time	2.59	3.65	4.67	5.69	6.74	7.76	8.79	9.87	10.96	12.09	13.37	5 / 1			
reaction time		interval	1.06	1.02	1.02	1.05	1.02	1.03	1.08	1.09	1.13	1.28			3.10	3.10	3.30
wind	0.0 m/s	velocity	5.02	8.02	8.33	8.33	8.10	8.33	8.25	7.87	7.80	7.52	8.20	7.48	8.23	8.23	7.73
FINAL - 1989 IAAF World Cup (Barcelona, ESP)												<i>Gill (1990) - atletismo (I) carreras y marcha</i>					
date	09-Sep-89	time	2.71	3.78	4.85	5.93	7.01	8.14	9.26	10.38	11.48	12.58	13.76	/ 7			
reaction time		interval	1.07	1.07	1.08	1.08	1.13	1.12	1.12	1.10	1.10	1.18			3.22	3.33	3.32
wind	-0.33 m/s	velocity	4.80	7.94	7.94	7.87	7.87	7.52	7.59	7.59	7.73	7.73	8.90	7.27	7.92	7.66	7.68
Marshall, Tonia (USA) (1998)																	
FINAL - 2024 Memorial van damme (Brussels, BEL)												<i>Omega Timing (2024) - diamond league race analysis</i>					
date	14-Sep-24	time	2.51	3.54	4.54	5.53	6.52	7.51	8.49	9.49	10.51	11.54	12.71	1 / 6			
reaction time	0.128	interval	1.03	1.00	0.99	0.99	0.99	0.98	1.00	1.02	1.03	1.17			3.02	2.96	3.05
wind	0.4 m/s	velocity	5.18	8.25	8.50	8.59	8.59	8.59	8.67	8.50	8.33	8.25	8.59	7.87	8.44	8.61	8.36
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)												<i>Omega Timing (2024) - diamond league race analysis</i>					
date	25-Aug-24	time	2.39	3.43	4.41	5.39	6.35	7.35	8.37	9.40	10.42	11.47	12.76	9 / 9			
reaction time	0.149	interval	1.04	0.98	0.98	0.96	1.00	1.02	1.03	1.02	1.05	1.29			3.00	2.98	3.10
wind	-0.5 m/s	velocity	5.44	8.17	8.67	8.67	8.85	8.50	8.33	8.25	8.33	8.10	7.79	7.84	8.50	8.56	8.23
Heat B - 2024 Kamila Skolimowska Memorial (Silesia, POL)												<i>Omega Timing (2024) - diamond league race analysis</i>					
date	25-Aug-24	time	2.37	3.37	4.35	5.33	6.28	7.23	8.21	9.22	10.23	11.27	12.52	8 / 4			
reaction time	0.126	interval	1.00	0.98	0.98	0.95	0.95	0.98	1.01	1.01	1.04	1.25			2.96	2.88	3.06
wind	0.6 m/s	velocity	5.49	8.50	8.67	8.67	8.95	8.95	8.67	8.42	8.42	8.17	8.04	7.99	8.61	8.85	8.33
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)												<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	30-Jun-24	time	2.48	3.50	4.47	5.44	6.39	7.33	8.28	9.26	10.25	11.26	12.38	6 / 5			
reaction time		interval	1.02	0.97	0.97	0.95	0.94	0.95	0.98	0.99	1.01	1.12			2.96	2.84	2.98
wind	0.7 m/s	velocity	5.24	8.33	8.76	8.76	8.95	9.04	8.95	8.67	8.59	8.42	8.97	8.08	8.61	8.98	8.56
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)												<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	29-Jun-24	time	2.50	3.50	4.48	5.44	6.39	7.34	8.29	9.26	10.24	11.24	12.36	5 / 2			
reaction time		interval	1.00	0.98	0.96	0.95	0.95	0.95	0.97	0.98	1.00	1.12	PB		2.94	2.85	2.95
wind	1.0 m/s	velocity	5.20	8.50	8.67	8.85	8.95	8.95	8.95	8.76	8.67	8.50	8.97	8.09	8.67	8.95	8.64
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)												<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	28-Jun-24	time	2.45	3.47	4.43	5.42	6.39	7.35	8.29	9.26	10.25	11.26	12.41	5 / 1			
reaction time		interval	1.02	0.96	0.99	0.97	0.96	0.94	0.97	0.99	1.01	1.15	PB		2.97	2.87	2.97
wind	1.7 m/s	velocity	5.31	8.33	8.85	8.59	8.76	8.85	9.04	8.76	8.59	8.42	8.74	8.06	8.59	8.89	8.59
FINAL - 2024 Prefontaine Classic (Eugene, OR)												<i>Omega Timing (2024) - diamond league race analysis</i>					
date	25-May-24	time	2.38	3.41	4.41	5.41	6.39	7.36	8.34	9.33	10.31	11.33	12.55	4 / 3			
reaction time	0.128	interval	1.03	1.00	1.00	0.98	0.97	0.98	0.99	0.98	1.02	1.22			3.03	2.93	2.99
wind	-0.9 m/s	velocity	5.46	8.25	8.50	8.50	8.67	8.76	8.67	8.59	8.67	8.33	8.24	7.97	8.42	8.70	8.53
FINAL - 2024 Seashore Doha Meeting (Doha, QAT) (TV Analysis)												<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	10-May-24	time	2.50	3.50	4.49	5.47	6.43	7.38	8.34	9.34	10.34	11.35	12.51	6 / 2			
reaction time	0.119	interval	1.00	0.99	0.98	0.96	0.95	0.96	1.00	1.00	1.01	1.16			2.97	2.87	3.01
wind	1.7 m/s	velocity	5.20	8.50	8.59	8.67	8.85	8.95	8.85	8.50	8.50	8.42	8.66	7.99	8.59	8.89	8.47
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)												<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	08-Jul-23	time	2.51	3.54	4.54	5.52	6.48	7.45	8.42	9.41	10.42	11.44	12.63	5 / 6			
reaction time		interval	1.03	1.00	0.98	0.96	0.97	0.97	0.99	1.01	1.02	1.19			3.01	2.90	3.02
wind	0.4 m/s	velocity	5.18	8.25	8.50	8.67	8.85	8.76	8.76	8.59	8.42	8.33	8.45	7.92	8.47	8.79	8.44
FINAL - 2023 USATF Los Angeles Grand Prix (Westwood, CA) (TV Analysis)												<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	27-May-23	time	2.48	3.52	4.50	5.48	6.46	7.44	8.42	9.40	10.41	11.42	12.55	8 / 5			
reaction time	0.202	interval	1.04	0.98	0.98	0.98	0.98	0.98	0.98	1.01	1.01	1.13			3.00	2.94	3.00
wind	-0.2 m/s	velocity	5.24	8.17	8.67	8.67	8.67	8.67	8.67	8.67	8.42	8.42	8.89	7.97	8.50	8.67	8.50

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	4.49	5.46	6.42	7.37	8.32	9.29	10.26	11.26	12.39	3 / 3			
reaction time	0.176	interval		1.02	0.97	0.97	0.96	0.95	0.95	0.97	0.97	1.00	1.13		2.96	2.86	2.94
wind	3.5 m/s	velocity	5.20	8.33	8.76	8.76	8.85	8.95	8.95	8.76	8.76	8.50	8.89	8.07	8.61	8.92	8.67

FINAL - 2023 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	05-May-23	time	2.56	3.60	4.60	5.58	6.56	7.56	8.54	9.52	10.52	11.60	12.79	2 / 5			
reaction time	0.129	interval		1.04	1.00	0.98	0.98	1.00	0.98	0.98	1.00	1.08	1.19		3.02	2.96	3.06
wind	1.1 m/s	velocity	5.08	8.17	8.50	8.67	8.67	8.50	8.67	8.67	8.50	7.87	8.45	7.82	8.44	8.61	8.33

FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	25-Jun-22	time	2.50	3.50	4.48	5.45	6.42	7.40	8.40	9.38	10.38	11.40	12.55	3 / 4			
reaction time		interval		1.00	0.98	0.97	0.97	0.98	1.00	0.98	1.00	1.02	1.15		2.95	2.95	3.00
wind	-1.4 m/s	velocity	5.20	8.50	8.67	8.76	8.76	8.67	8.50	8.67	8.50	8.33	8.74	7.97	8.64	8.64	8.50

FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	28-May-22	time	2.46	3.49	4.49	5.48	6.47	7.45	8.43	9.43	10.43	11.47	12.66	4 / 3			
reaction time	0.127	interval		1.03	1.00	0.99	0.99	0.98	0.98	1.00	1.00	1.04	1.19		3.02	2.95	3.04
wind	-0.7 m/s	velocity	5.28	8.25	8.50	8.59	8.59	8.67	8.67	8.50	8.50	8.17	8.45	7.90	8.44	8.64	8.39

FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date	22-Apr-22	time	2.50	3.50	4.50	5.46	6.42	7.38	8.34	9.32	10.30	11.30	12.46	6 / 1			
reaction time		interval		1.00	1.00	0.96	0.96	0.96	0.96	0.98	0.98	1.00	1.16		2.96	2.88	2.96
wind	0.8 m/s	velocity	5.20	8.50	8.50	8.85	8.85	8.85	8.85	8.67	8.67	8.50	8.66	8.03	8.61	8.85	8.61

Invitational FINAL - 2022 Texas Relays (Austin, TX) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	26-Mar-22	time	2.50	3.50	4.47	5.42	6.36	7.32	8.29	9.29	10.28	11.29	12.45	6 / 3			
reaction time		interval		1.00	0.97	0.95	0.94	0.96	0.97	1.00	0.99	1.01	1.16		2.92	2.87	3.00
wind	3.9 m/s	velocity	5.20	8.50	8.76	8.95	9.04	8.85	8.76	8.50	8.59	8.42	8.66	8.03	8.73	8.89	8.50

FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	20-Jun-21	time	2.40	3.42	4.40	5.39	6.37	7.34	8.32	9.32	10.32	11.36	12.63	5 / 6			
reaction time	0.130	interval		1.02	0.98	0.99	0.98	0.97	0.98	1.00	1.00	1.04	1.27		2.99	2.93	3.04
wind	0.8 m/s	velocity	5.42	8.33	8.67	8.59	8.67	8.76	8.67	8.50	8.50	8.17	7.91	7.92	8.53	8.70	8.39

Semi Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	20-Jun-21	time	2.38	3.38	4.36	5.33	6.29	7.25	8.23	9.20	10.21	11.23	12.50	2 / 1			
reaction time	0.137	interval		1.00	0.98	0.97	0.96	0.96	0.98	0.97	1.01	1.02	1.27		2.95	2.90	3.00
wind	1.2 m/s	velocity	5.46	8.50	8.67	8.76	8.85	8.85	8.67	8.76	8.42	8.33	7.91	8.00	8.64	8.79	8.50

Semi Final 2 - 2021 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	10-Jun-21	time	2.40	3.40	4.40	5.37	6.33	7.30	8.29	9.27	10.27	11.27	12.48	5 / 1			
reaction time	0.114	interval		1.00	1.00	0.97	0.96	0.97	0.99	0.98	1.00	1.00	1.21		2.97	2.92	2.98
wind	-0.5 m/s	velocity	5.42	8.50	8.50	8.76	8.85	8.76	8.59	8.67	8.50	8.50	8.31	8.01	8.59	8.73	8.56

Quarter Final 1 - 2021 NCAA Championships Preliminary East Round (Jacksonville, FL) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	29-May-21	time	2.40	3.40	4.36	5.32	6.30	7.27	8.23	9.20	10.22	11.24	12.44	5 / 1			
reaction time		interval		1.00	0.96	0.96	0.98	0.97	0.96	0.97	1.02	1.02	1.20	PB	2.92	2.91	3.01
wind	0.8 m/s	velocity	5.42	8.50	8.85	8.85	8.67	8.76	8.85	8.76	8.33	8.33	8.38	8.04	8.73	8.76	8.47

FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	27-Jul-19	time	2.50	3.50	4.47	5.50	6.47	7.47	8.47	9.47	10.47	11.54	12.81	8 / 6			
reaction time		interval		1.00	0.97	1.03	0.97	1.00	1.00	1.00	1.00	1.07	1.27		3.00	2.97	3.07
wind	-1.2 m/s	velocity	5.20	8.50	8.76	8.25	8.76	8.50	8.50	8.50	8.50	7.94	8.27	7.81	8.50	8.59	8.31

FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	08-Jun-19	time	2.46	3.54	4.53	5.51	6.49	7.47	8.45	9.43	10.45	11.47	12.66	5 / 3			
reaction time	0.125	interval		1.08	0.99	0.98	0.98	0.98	0.98	0.98	1.02	1.02	1.19	PB	3.05	2.94	3.02
wind	0.6 m/s	velocity	5.28	7.87	8.59	8.67	8.67	8.67	8.67	8.67	8.33	8.33	8.82	7.90	8.36	8.67	8.44

FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	09-Jun-18	time	2.53	3.56	4.60	5.63	6.63	7.63	8.66	9.70	10.73	11.80	13.09	1 / 6			
reaction time		interval		1.03	1.04	1.03	1.00	1.00	1.03	1.04	1.03	1.07	1.29		3.10	3.03	3.14
wind	0.9 m/s	velocity	5.14	8.25	8.17	8.25	8.50	8.50	8.25	8.17	8.25	7.94	8.14	7.64	8.23	8.42	8.12

Martin, LaVonna (USA) (1966)**Quarter-Final 1 - 1992 Olympic Games (Barcelona, ESP)***Lyle - miscellaneous coaching notes*

date	05-Aug-92	time	2.55	3.58	4.54	5.49	6.45	7.42	8.43	9.46	10.51	11.61	12.82	5 / 1			
reaction time		interval		1.03	0.96	0.95	0.96	0.97	1.01	1.03	1.05	1.10	1.21		2.94	2.94	3.18
wind	-1.5 m/s	velocity	5.10	8.25	8.85	8.95	8.85	8.76	8.42	8.25	8.10	7.73	8.68	7.80	8.67	8.67	8.02

Heat 4 - 1992 Olympic Games (Barcelona, ESP)*Lyle - miscellaneous coaching notes*

date	05-Aug-92	time	2.66	3.66	4.65	5.63	6.62	7.62	8.61	9.60	10.63	11.70		12.82	7 / 1			
reaction time		interval		1.00	0.99	0.98	0.99	1.00	0.99	0.99	1.03	1.07	1.12			2.97	2.98	3.09
wind	0.0 m/s	velocity	4.89	8.50	8.59	8.67	8.59	8.50	8.59	8.59	8.25	7.94	9.37	7.80		8.59	8.56	8.25
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	29-Sep-88	time	2.63	3.69	4.72	5.77	6.80	7.84	8.89	9.93	11.01	12.09		13.29	8 / 7			
reaction time	0.158	interval		1.06	1.03	1.05	1.03	1.04	1.05	1.04	1.08	1.08	1.20			3.14	3.12	3.20
wind	0.5 m/s	velocity	4.94	8.02	8.25	8.10	8.25	8.17	8.10	8.17	7.87	7.87	8.75	7.52		8.12	8.17	7.97
Masuda, Ayana (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)			<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data</i>															
date	08-Aug-19	time	2.68	3.81	4.91	6.01	7.12	8.25	9.42	10.59	11.79	13.02		14.34	2 / 4			
reaction time		interval		1.13	1.10	1.10	1.11	1.13	1.17	1.17	1.20	1.23	1.32			3.33	3.41	3.60
wind	-4.1 m/s	velocity	4.85	7.52	7.73	7.73	7.66	7.52	7.26	7.26	7.08	6.91	7.95	6.97		7.66	7.48	7.08
Matata, Koki (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U18 FINAL - 2018 National Sports Festival (Fukui, JPN) (76cm)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>															
date	07-Oct-18	time	2.67	3.79	4.90	6.00	7.10	8.20	9.32	10.43	11.57	12.73		14.07	2 / 8			
reaction time	0.127	interval		1.12	1.11	1.10	1.10	1.10	1.12	1.11	1.14	1.16	1.34			3.33	3.32	3.41
wind	2.0 m/s	velocity	4.87	7.59	7.66	7.73	7.73	7.73	7.59	7.66	7.46	7.33	7.84	7.11		7.66	7.68	7.48
Matsubara, Shihori (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	2.82	3.98	5.13	6.30	7.47	8.65	9.83	11.03	12.27	13.52		14.88	6 / 2			
reaction time		interval		1.16	1.15	1.17	1.17	1.18	1.18	1.20	1.24	1.25	1.36			3.48	3.53	3.69
wind	-0.2 m/s	velocity	4.61	7.33	7.39	7.26	7.26	7.20	7.20	7.08	6.85	6.80	7.39	6.72		7.33	7.22	6.91
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	2.77	3.93	5.08	6.25	7.43	8.60	9.83	11.07	12.33	13.60		14.97	7 / 2			
reaction time		interval		1.16	1.15	1.17	1.18	1.17	1.23	1.24	1.26	1.27	1.37			3.48	3.58	3.77
wind	-0.4 m/s	velocity	4.69	7.33	7.39	7.26	7.20	7.26	6.91	6.85	6.75	6.69	7.34	6.68		7.33	7.12	6.76
FINAL - 2021 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis</i>															
date	30-May-21	time	2.82	4.02	5.18	6.37	7.55	8.77	9.98	11.27	12.53	13.83		15.22	6 / 2			
reaction time		interval		1.20	1.16	1.19	1.18	1.22	1.21	1.29	1.26	1.30	1.39			3.55	3.61	3.85
wind	1.7 m/s	velocity	4.61	7.08	7.33	7.14	7.20	6.97	7.02	6.59	6.75	6.54	7.23	6.57		7.18	7.06	6.62
Matsuda, Anna (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)			<i>Takashima (2024) - national high school sports festival - biomechanics data</i>															
date	01-Aug-24	time	2.71	3.78	4.85	5.92	6.99	8.08	9.20	10.34	11.48	12.69		13.94	3 / 7			
reaction time	0.185	interval		1.07	1.07	1.07	1.07	1.09	1.12	1.14	1.14	1.21	1.25			3.21	3.28	3.49
wind	1.0 m/s	velocity	4.80	7.94	7.94	7.94	7.94	7.80	7.59	7.46	7.46	7.02	8.04	7.17		7.94	7.77	7.31
Matsuda, Kako (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 National Sports Festival (Hitachinaka, JPN) (76cm)			<i>Enomoto (2019) - research on athlete performance and technique- 2019 data book</i>															
date	06-Oct-19	time	2.68	3.78	4.87	5.94	7.02	8.13	9.23	10.34	11.49	12.68		13.97	8 / 7			
reaction time	0.159	interval		1.10	1.09	1.07	1.08	1.11	1.10	1.11	1.15	1.19	1.29			3.26	3.29	3.45
wind	1.6 m/s	velocity	4.85	7.73	7.80	7.94	7.87	7.66	7.73	7.66	7.39	7.14	8.14	7.16		7.82	7.75	7.39
Matsumoto, Haruka (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)			<i>Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis</i>															
date	30-May-21	time	2.93	4.17	5.40	6.62	7.85	9.10	10.33	11.63	12.93	14.27		15.71	8 / 4			
reaction time		interval		1.24	1.23	1.22	1.23	1.25	1.23	1.30	1.30	1.34	1.44			3.69	3.71	3.94
wind	1.7 m/s	velocity	4.44	6.85	6.91	6.97	6.91	6.80	6.91	6.54	6.54	6.34	6.98	6.37		6.91	6.87	6.47
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	2.87	4.07	5.30	6.52	7.78	9.08	10.42	11.78	13.18	14.73		16.23	1 / 3			
reaction time		interval		1.20	1.23	1.22	1.26	1.30	1.34	1.36	1.40	1.55	1.50			3.65	3.90	4.31
wind	0.4 m/s	velocity	4.53	7.08	6.91	6.97	6.75	6.54	6.34	6.25	6.07	5.48	6.70	6.16		6.99	6.54	5.92
Matsumoto, Kaotaya (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U18 FINAL - 2018 National Sports Festival (Fukui, JPN) (76cm)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>															
date	07-Oct-18	time	2.67	3.76	4.85	5.92	6.99	8.07	9.18	10.28	11.40	12.53		13.80	7 / 4			
reaction time	0.152	interval		1.09	1.09	1.07	1.07	1.08	1.11	1.10	1.12	1.13	1.27			3.25	3.26	3.35
wind	2.0 m/s	velocity	4.87	7.80	7.80	7.94	7.94	7.87	7.66	7.73	7.59	7.52	8.27	7.25		7.85	7.82	7.61
Matsuo, Mika (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)			<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>															
date	11-May-17	time	2.73	3.84	4.97	6.09	7.23	8.36	9.47	10.60	11.74	12.95		14.27	5 / 8			
reaction time		interval		1.11	1.13	1.12	1.14	1.13	1.11	1.13	1.14	1.21	1.32			3.36	3.38	3.48
wind	-1.2 m/s	velocity	4.76	7.66	7.52	7.59	7.46	7.52	7.66	7.52	7.46	7.02	7.95	7.01		7.59	7.54	7.33
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>															

date	06-Apr-17	time	2.73	3.85	4.96	6.05	7.15	8.25	9.35	10.46	11.59	12.73		14.01	4 / 1				
reaction time		interval		1.12	1.11	1.09	1.10	1.10	1.10	1.11	1.13	1.14	1.28			3.32	3.30	3.38	
wind	-1.8 m/s	velocity	4.76	7.59	7.66	7.80	7.73	7.73	7.73	7.66	7.52	7.46	8.20	7.14		7.68	7.73	7.54	
Matsuura, Hikari (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	2.90	4.17	5.42	6.68	7.97	9.25	10.53	11.88	13.25	14.93		16.71	5 / 6				
reaction time		interval		1.27	1.25	1.26	1.29	1.28	1.28	1.35	1.37	1.68	1.78			3.78	3.85	4.40	
wind	-0.2 m/s	velocity	4.48	6.69	6.80	6.75	6.59	6.64	6.64	6.30	6.20	5.06	5.65	5.98		6.75	6.62	5.80	
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	2.90	4.10	5.33	6.58	7.82	9.07	10.35	11.63	12.95	14.35		15.84	8 / 5				
reaction time		interval		1.20	1.23	1.25	1.24	1.25	1.28	1.28	1.32	1.40	1.49			3.68	3.77	4.00	
wind	-0.4 m/s	velocity	4.48	7.08	6.91	6.80	6.85	6.80	6.64	6.64	6.44	6.07	6.74	6.31		6.93	6.76	6.38	
FINAL - 2021 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis</i>																
date	30-May-21	time	2.88	4.12	5.35	6.62	7.88	9.17	10.47	11.83	13.23	14.68		16.18	5 / 6				
reaction time		interval		1.24	1.23	1.27	1.26	1.29	1.30	1.36	1.40	1.45	1.50			3.74	3.85	4.21	
wind	1.7 m/s	velocity	4.51	6.85	6.91	6.69	6.75	6.59	6.54	6.25	6.07	5.86	6.70	6.18		6.82	6.62	6.06	
Matthews, Brenda (NZL) (1949)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 1972 Olympic Games (Munich, FRG)			<i>Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften</i>																
date	04-Sep-72	time	2.5				6.9							13.81	4 / 5				
reaction time		interval					4.36												
wind	-0.6 m/s	velocity	5.12				7.80							7.24					
Matysková, Ludmila (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)			<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>																
date	15-Jun-13	time	2.94	4.18	5.38	6.61	7.85	9.07	10.32	11.55	12.82	14.07		15.50	2 / 4				
reaction time	0.143	interval		1.24	1.20	1.23	1.24	1.22	1.25	1.23	1.27	1.25	1.43			3.67	3.71	3.75	
wind	-1.8 m/s	velocity	4.42	6.85	7.08	6.91	6.85	6.97	6.80	6.91	6.69	6.80	7.34	6.45		6.95	6.87	6.80	
Mayer, Isabel (GER) (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 ISTAF (Berlin, GER) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>																
date	04-Sep-22	time	2.60	3.68	4.72	5.72	6.76	7.78	8.82	9.88	10.94	12.02		13.24	1 / 5				
reaction time	0.153	interval		1.08	1.04	1.00	1.04	1.02	1.04	1.06	1.06	1.08	1.22	PB		3.12	3.10	3.20	
wind	-0.3 m/s	velocity	5.00	7.87	8.17	8.50	8.17	8.33	8.17	8.02	8.02	7.87	8.24	7.55		8.17	8.23	7.97	
FINAL - 2020 Galà dei Castelli (Bellinzona, SUI) (TV Analysis)			<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																
date	15-Sep-20	time	2.68	3.78	4.86	5.94	7.00	8.08	9.14	10.24	11.36	12.50		13.81	8 / 7				
reaction time		interval		1.10	1.08	1.08	1.06	1.08	1.06	1.10	1.12	1.14	1.31			3.26	3.20	3.36	
wind	0.0 m/s	velocity	4.85	7.73	7.87	7.87	8.02	7.87	8.02	7.73	7.59	7.46	7.67	7.24		7.82	7.97	7.59	
Maynard, Sonia (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)			<i>Warburton (1985) - 1985 european junior championships - hurdles</i>																
date	23-Aug-85	time	2.58	3.70	4.85	5.89	7.00	8.20	9.30	10.55	11.64	12.77		14.40	1 / 8				
reaction time		interval		1.12	1.15	1.04	1.11	1.20	1.10	1.25	1.09	1.13	1.63			3.31	3.41	3.47	
wind	1.3 m/s	velocity	5.04	7.59	7.39	8.17	7.66	7.08	7.73	6.80	7.80	7.52	6.44	6.94		7.70	7.48	7.35	
Heat 2 - 1985 European Junior Championships (Cottbus, GDR)			<i>Warburton (1985) - 1985 european junior championships - hurdles</i>																
date	23-Aug-85	time	2.58	3.70	4.74	5.81	6.88	7.93	9.09	10.15	11.28	12.37		13.86	1 / 4				
reaction time		interval		1.12	1.04	1.07	1.07	1.05	1.16	1.06	1.13	1.09	1.49			3.23	3.28	3.28	
wind	0.6 m/s	velocity	5.04	7.59	8.17	7.94	7.94	8.10	7.33	8.02	7.52	7.80	7.05	7.22		7.89	7.77	7.77	
Mayr, Verena (AUT) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																
date	04-Aug-21	time	2.75	3.83	4.87	5.92	6.99	8.06	9.11	10.22	11.31	12.43		13.65	4 / 8				
reaction time	0.149	interval		1.08	1.04	1.05	1.07	1.07	1.05	1.11	1.09	1.12	1.22			3.17	3.19	3.32	
wind	0.3 m/s	velocity	4.73	7.87	8.17	8.10	7.94	7.94	8.10	7.66	7.80	7.59	8.24	7.33		8.04	7.99	7.68	
McCray, Yolanda (USA) (1976)			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	22-Jun-03	time	2.62	3.65	4.70	5.73	6.72	7.74	8.76	9.78	10.83	11.89		13.17	8 / 7-6				
reaction time		interval		1.03	1.05	1.03	0.99	1.02	1.02	1.02	1.05	1.06	1.28			3.11	3.03	3.13	
wind	-0.1 m/s	velocity	4.96	8.25	8.10	8.25	8.59	8.33	8.33	8.33	8.10	8.02	8.20	7.59		8.20	8.42	8.15	
McGrew, Ashleigh (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 - 2005 USATF National Junior Championships (Carson, CA)			<i>USATF Women's Sprint Development (2005)</i>																
date	23-Jun-05	time	2.69	3.91	4.99	6.14	7.23	8.33	9.44	10.58	11.67	12.76		14.14	6 / 4				
reaction time		interval		1.22	1.08	1.15	1.09	1.10	1.11	1.14	1.09	1.09	1.38			3.45	3.30	3.32	
wind	-0.7 m/s	velocity	4.83	6.97	7.87	7.39	7.80	7.73	7.66	7.46	7.80	7.80	7.61	7.07		7.39	7.73	7.68	
McKely-Jones, Miesha (USA) (1976)			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	22-Jun-03	time	2.50	3.55	4.55	5.52	6.52	7.47	8.46	9.44	10.44	11.46		12.62	6 / 2			
reaction time		interval		1.05	1.00	0.97	1.00	0.95	0.99	0.98	1.00	1.02	1.16			3.02	2.94	3.00
wind	-0.1 m/s	velocity	5.20	8.10	8.50	8.76	8.50	8.95	8.59	8.67	8.50	8.33	9.05	7.92		8.44	8.67	8.50

McLaughlin-Levrone, Sydney (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 Oxy Invitational (Eagle Rock, CA) (TV Analysis)**

Henson (2024) Athlete First: 2024 Sydney McLaughlin-Levrone 400m Hurdles World Record Season

date	04-May-24	time	2.55	3.58	4.58	5.56	6.53	7.53	8.51	9.52	10.53	11.53		12.71	4 / 1			
reaction time		interval	7 steps	1.03	1.00	0.98	0.97	1.00	0.98	1.01	1.01	1.00	1.18			3.01	2.95	3.02
wind	-0.4 m/s	velocity	5.10	8.25	8.50	8.67	8.76	8.50	8.67	8.42	8.42	8.50	8.52	7.87		8.47	8.64	8.44

McLaughlin, Sydney (USA) (1999)**FINAL - 2022 Penn Relays (Philadelphia, PA) (TV Analysis)**

Henson (2022) - Athlete First: 2022 Sydney McLaughlin 400m hurdles world record season

date	30-Apr-22	time	2.50	3.54	4.58	5.58	6.58	7.55	8.55	9.55	10.55	11.55		12.75	4 / 1			
reaction time		interval	7 steps	1.04	1.04	1.00	1.00	0.97	1.00	1.00	1.00	1.00	1.20			3.08	2.97	3.00
wind	0.0 m/s	velocity	5.20	8.17	8.17	8.50	8.50	8.76	8.50	8.50	8.50	8.50	8.38	7.84		8.28	8.59	8.50

FINAL - 2021 USATF Golden Games (Walnut, CA) (TV Analysis)

Henson (2021) - Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season

date	09-May-21	time	2.50	3.52	4.54	5.54	6.52	7.50	8.47	9.47	10.47	11.50		12.65	2 / 5			
reaction time	0.175	interval	7 steps	1.02	1.02	1.00	0.98	0.98	0.97	1.00	1.00	1.03	1.15	PB		3.04	2.93	3.03
wind	2.0 m/s	velocity	5.20	8.33	8.33	8.50	8.67	8.67	8.76	8.50	8.50	8.25	8.74	7.91		8.39	8.70	8.42

FINAL - 2021 USATF Grand Prix (Eugene, OR) (TV Analysis)

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

date	24-Apr-21	time	2.57	3.63	4.65	5.65	6.65	7.65	8.65	9.65	10.67	11.71		12.86	2 / 4			
reaction time		interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.15	PB		3.08	3.00	3.06
wind	-0.3 m/s	velocity	5.06	8.02	8.33	8.50	8.50	8.50	8.50	8.50	8.33	8.17	8.74	7.78		8.28	8.50	8.33

FINAL - 2021 Bryan Clay Invitational (Azusa, CA) (TV Analysis)

Henson (2021) - Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season

date	16-Apr-21	time	2.53	3.57	4.60	5.60	6.61	7.61	8.63	9.67	10.71	11.76		12.92	4 / 1			
reaction time		interval	7 steps	1.04	1.03	1.00	1.01	1.00	1.02	1.04	1.04	1.05	1.16	PB		3.07	3.03	3.13
wind	0.2 m/s	velocity	5.14	8.17	8.25	8.50	8.42	8.50	8.33	8.17	8.17	8.10	8.66	7.74		8.31	8.42	8.15

McMillian, Sydni (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	29-Jun-24	time	2.63	3.70	4.74	5.75	6.75	7.77	8.87	9.91	11.05	12.21		13.51	9 / 6			
reaction time		interval		1.07	1.04	1.01	1.00	1.02	1.10	1.04	1.14	1.16	1.30			3.12	3.12	3.34
wind	1.0 m/s	velocity	4.94	7.94	8.17	8.42	8.50	8.33	7.73	8.17	7.46	7.33	7.73	7.40		8.17	8.17	7.63

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

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

date	28-Jun-24	time	2.65	3.72	4.76	5.81	6.82	7.84	8.89	9.92	10.99	12.04		13.26	6 / 5			
reaction time		interval		1.07	1.04	1.05	1.01	1.02	1.05	1.03	1.07	1.05	1.22			3.16	3.08	3.15
wind	0.2 m/s	velocity	4.91	7.94	8.17	8.10	8.42	8.33	8.10	8.25	7.94	8.10	8.24	7.54		8.07	8.28	8.10

McMinn, Tiara (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 - 2019 NCAA National Championships (Austin, TX) (TV Analysis)**

Henson (2020) - Athlete First: 2019 year end hurdle report

date	08-Jun-19	time	2.53	3.56	4.56	5.56	6.56	7.60	8.60	9.63	10.66	11.73		12.97	9 / 7			
reaction time	0.175	interval		1.03	1.00	1.00	1.00	1.04	1.00	1.03	1.03	1.07	1.24			3.03	3.04	3.13
wind	0.6 m/s	velocity	5.14	8.25	8.50	8.50	8.50	8.17	8.50	8.25	8.25	7.94	8.47	7.71		8.42	8.39	8.15

McNeal, Brianna (USA) (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 USA Olympic Trials (Eugene, OR) (TV Analysis)**

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

date	20-Jun-20	time	2.42	3.43	4.42	5.38	6.34	7.32	8.29	9.26	10.27	11.28		12.51	2 / 2			
reaction time	0.152	interval		1.01	0.99	0.96	0.96	0.98	0.97	0.97	1.01	1.01	1.23			2.96	2.91	2.99
wind	0.8 m/s	velocity	5.37	8.42	8.59	8.85	8.85	8.67	8.76	8.76	8.42	8.42	8.17	7.99		8.61	8.76	8.53

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

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

date	20-Jun-21	time	2.46	3.46	4.43	5.40	6.36	7.33	8.31	9.29	10.29	11.32		12.56	4 / 3			
reaction time	0.173	interval		1.00	0.97	0.97	0.96	0.97	0.98	0.98	1.00	1.03	1.24			2.94	2.91	3.01
wind	1.2 m/s	velocity	5.28	8.50	8.76	8.76	8.85	8.76	8.67	8.67	8.50	8.25	8.10	7.96		8.67	8.76	8.47

Heat 4 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)

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

date	19-Jun-21	time	2.43	3.46	4.42	5.38	6.34	7.30	8.26	9.26	10.26	11.26		12.50	1 / 1			
reaction time	0.162	interval		1.03	0.96	0.96	0.96	0.96	0.96	1.00	1.00	1.00	1.24			2.95	2.88	3.00
wind	0.1 m/s	velocity	5.35	8.25	8.85	8.85	8.85	8.85	8.85	8.50	8.50	8.50	8.10	8.00		8.64	8.85	8.50

FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)

Henson (2020) - Athlete First: 2019 year end hurdle report

date	18-Aug-19	time	2.50	3.53	4.53	5.53	6.51	7.49	8.55	9.56	10.61	11.66		12.90	9 / 6			
reaction time	0.164	interval		1.03	1.00	1.00	0.98	0.98	1.06	1.01	1.05	1.05	1.24			3.03	3.02	3.11
wind	-0.2 m/s	velocity	5.20	8.25	8.50	8.50	8.67	8.67	8.02	8.42	8.10	8.10	8.47	7.75		8.42	8.44	8.20

FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)

Henson (2020) - Athlete First: 2019 year end hurdle report

date	27-Jul-19	time	2.47	3.50	4.47	5.46	6.40	7.40	8.38	9.37	10.37	11.40		12.61	4 / 3			
reaction time		interval		1.03	0.97	0.99	0.94	1.00	0.98	0.99	1.00	1.03	1.21			2.99	2.92	3.02
wind	-1.2 m/s	velocity	5.26	8.25	8.76	8.59	9.04	8.50	8.67	8.59	8.50	8.25	8.68	7.93		8.53	8.73	8.44

FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)

CAA Hurdle Development (2019)

date	21-May-19	time	2.57	3.60	4.60	5.58	6.57	7.52	8.55	9.56	10.58	11.62	12.78	5 / 1			
reaction time	0.173	interval		1.03	1.00	0.98	0.99	0.95	1.03	1.01	1.02	1.04	1.16		3.01	2.97	3.07
wind	-1.0 m/s	velocity	5.06	8.25	8.50	8.67	8.59	8.95	8.25	8.42	8.33	8.17	9.05	7.82	8.47	8.59	8.31

FINAL - 2019 Doha Diamond League (Doha, QAT) (TV Analysis)

Henson (2020) - Athlete First: 2019 year end hurdle report

date	03-May-19	time	2.52	3.52	4.52	5.50	6.48	7.46	8.48	9.50	10.56	11.68	12.94	5 / 7			
reaction time	0.163	interval		1.00	1.00	0.98	0.98	0.98	1.02	1.02	1.06	1.12	1.26		2.98	2.98	3.20
wind	0.9 m/s	velocity	5.16	8.50	8.50	8.67	8.67	8.67	8.33	8.33	8.02	7.59	8.33	7.73	8.56	8.56	7.97

FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)

Henson (2020) - Athlete First: 2018 year end hurdle report

date	31-Aug-18	time	2.52	3.52	4.52	5.52	6.50	7.48	8.46	9.44	10.42	11.44	12.61	6 / 1			
reaction time	0.196	interval		1.00	1.00	1.00	0.98	0.98	0.98	0.98	0.98	1.02	1.17		3.00	2.94	2.98
wind	0.1 m/s	velocity	5.16	8.50	8.50	8.50	8.67	8.67	8.67	8.67	8.67	8.33	8.97	7.93	8.50	8.67	8.56

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	3.50	4.48	5.44	6.40	7.38	8.36	9.34	10.32	11.32	12.47	4 / 2			
reaction time	0.152	interval		1.02	0.98	0.96	0.96	0.98	0.98	0.98	0.98	1.00	1.15		2.96	2.92	2.96
wind	0.6 m/s	velocity	5.24	8.33	8.67	8.85	8.85	8.67	8.67	8.67	8.67	8.50	9.13	8.02	8.61	8.73	8.61

FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)

Henson (2020) - Athlete First: 2018 year end hurdle report

date	13-Jul-18	time	2.44	3.46	4.44	5.42	6.38	7.34	8.32	9.32	10.30	11.30	12.51	5 / 1			
reaction time	0.131	interval		1.02	0.98	0.98	0.96	0.96	0.98	1.00	0.98	1.00	1.21		2.98	2.90	2.98
wind	0.1 m/s	velocity	5.33	8.33	8.67	8.67	8.85	8.85	8.67	8.50	8.67	8.50	8.68	7.99	8.56	8.79	8.56

FINAL - 2018 Spitzen Leichtathletik (Luzern, SUI) (TV Analysis)

Henson (2020) - Athlete First: 2018 year end hurdle report

date	09-Jul-18	time	2.48	3.46	4.44	5.42	6.40	7.36	8.32	9.28	10.26	11.28	12.44	4 / 1			
reaction time		interval		0.98	0.98	0.98	0.98	0.96	0.96	0.96	0.98	1.02	1.16		2.94	2.90	2.96
wind	0.9 m/s	velocity	5.24	8.67	8.67	8.67	8.67	8.85	8.85	8.85	8.67	8.33	9.05	8.04	8.67	8.79	8.61

FINAL - 2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)

Henson (2020) - Athlete First: 2018 year end hurdle report

date	10-Jun-18	time	2.48	3.48	4.44	5.40	6.36	7.32	8.28	9.24	10.24	11.24	12.38	5 / 1			
reaction time	0.138	interval		1.00	0.96	0.96	0.96	0.96	0.96	0.96	1.00	1.00	1.14		2.92	2.88	2.96
wind	1.3 m/s	velocity	5.24	8.50	8.85	8.85	8.85	8.85	8.85	8.85	8.50	8.50	9.21	8.08	8.73	8.85	8.61

FINAL - 2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)

Henson (2020) - Athlete First: 2018 year end hurdle report

date	31-May-18	time	2.48	3.60	4.90								15.80	5 / 9			
reaction time	0.155	interval		1.12	1.30												
wind	0.0 m/s	velocity	5.24	7.59	6.54												

FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)

Henson (2020) - Athlete First: 2018 year end hurdle report

date	12-May-18	time	2.44	3.44	4.44	5.40	6.40	7.36	8.34	9.32	10.30	11.30	12.50	4 / 1			
reaction time	0.156	interval		1.00	1.00	0.96	1.00	0.96	0.98	0.98	0.98	1.00	1.20		2.96	2.94	2.96
wind	0.9 m/s	velocity	5.33	8.50	8.50	8.85	8.50	8.85	8.67	8.67	8.67	8.50	8.75	8.00	8.61	8.67	8.61

FINAL - 2018 Doha Diamond League (Doha, QAT) (TV Analysis)

Henson (2020) - Athlete First: 2018 year end hurdle report

date	04-May-18	time	2.44	3.44	4.42	5.40	6.36	7.32	8.30	9.28	10.32	11.36	12.58	4 / 2			
reaction time	0.155	interval		1.00	0.98	0.98	0.96	0.96	0.98	0.98	1.04	1.04	1.22		2.96	2.90	3.06
wind	0.5 m/s	velocity	5.33	8.50	8.67	8.67	8.85	8.85	8.67	8.67	8.17	8.17	8.61	7.95	8.61	8.79	8.33

Rollins, Brianna (USA) (1991)

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)

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

date	17-Aug-16	time	2.30	3.32	4.30	5.27	6.24	7.20	8.17	9.15	10.14	11.14	12.48	6 / 1			
reaction time	0.158	interval		1.02	0.98	0.97	0.97	0.96	0.97	0.98	0.99	1.00	1.34		2.97	2.90	2.97
wind	0.0 m/s	velocity	5.65	8.33	8.67	8.76	8.76	8.85	8.76	8.67	8.59	8.50	7.84	8.01	8.59	8.79	8.59

FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)

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

date	22-Jul-16	time	2.46	3.46	4.44	5.42	6.38	7.36	8.34	9.34	10.38	11.40	12.57	7 / 2			
reaction time	0.140	interval		1.00	0.98	0.98	0.96	0.98	0.98	1.00	1.04	1.02	1.17		2.96	2.92	3.06
wind	0.3 m/s	velocity	5.28	8.50	8.67	8.67	8.85	8.67	8.67	8.50	8.17	8.33	8.97	7.96	8.61	8.73	8.33

Heat 1 - 2016 London Anniversary Games (London, GBR) (TV Analysis)

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

date	22-Jul-16	time	2.48	3.44	4.44	5.42	6.40	7.38	8.40	9.46	10.50	11.54	12.74	6 / 2			
reaction time	0.135	interval		0.96	1.00	0.98	0.98	0.98	1.02	1.06	1.04	1.04	1.20		2.94	2.98	3.14
wind	0.3 m/s	velocity	5.24	8.85	8.50	8.67	8.67	8.67	8.33	8.02	8.17	8.17	8.75	7.85	8.67	8.56	8.12

FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)

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

date	08-Jul-16	time	2.40	3.40	4.37	5.34	6.27	7.20	8.14	9.11	10.11	11.11	12.34	4 / 1			
reaction time	0.200	interval		1.00	0.97	0.97	0.93	0.93	0.94	0.97	1.00	1.00	1.23		2.94	2.80	2.97
wind	1.2 m/s	velocity	5.42	8.50	8.76	8.76	9.14	9.14	9.04	8.76	8.50	8.50	8.54	8.10	8.67	9.11	8.59

FINAL - 2016 Bislett Games (Oslo, NOR) (TV Analysis)

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

date	09-Jun-16	time	2.44	3.44	4.42	5.40	6.36	7.38	8.34	9.32	10.34	11.34	12.56	5 / 1			
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reaction time	0.143	interval	1.00	0.98	0.98	0.96	1.02	0.96	0.98	1.02	1.00	1.22			2.96	2.94	3.00
wind	-0.4 m/s	velocity	5.33	8.50	8.67	8.67	8.85	8.33	8.85	8.67	8.33	8.50	8.61	7.96	8.61	8.67	8.50

FINAL - 2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	05-Jun-16	time	2.43	3.46	4.43	5.40	6.40	7.35	8.30	9.30	10.33	11.33		12.57		7 / 2		
reaction time	0.144	interval	1.03	0.97	0.97	1.00	0.95	0.95	1.00	1.03	1.00	1.24				2.97	2.90	3.03
wind	-0.3 m/s	velocity	5.35	8.25	8.76	8.76	8.50	8.95	8.95	8.50	8.25	8.50	8.47	7.96		8.59	8.79	8.42

FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	28-May-16	time	2.44	3.44	4.38	5.34	6.30	7.30	8.30	9.28	10.30	11.32		12.53		3 / 2		
reaction time		interval	1.00	0.94	0.96	0.96	1.00	1.00	0.98	1.02	1.02	1.21				2.90	2.96	3.02
wind	0.7 m/s	velocity	5.33	8.50	9.04	8.85	8.85	8.50	8.50	8.67	8.33	8.33	8.68	7.98		8.79	8.61	8.44

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

date	28-Aug-15	time	2.50	3.58	4.54	5.52	6.50	7.46	8.46	9.46	10.46	11.48		12.67		4 / 4		
reaction time	0.148	interval	1.08	0.96	0.98	0.98	0.96	1.00	1.00	1.00	1.02	1.19				3.02	2.94	3.02
wind	-0.3 m/s	velocity	5.20	7.87	8.85	8.67	8.67	8.85	8.50	8.50	8.50	8.33	8.82	7.89		8.44	8.67	8.44

FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)*Henson (2021) - Athlete First: major championships report*

date	17-Aug-13	time	2.52	3.50	4.48	5.42	6.40	7.36	8.30	9.26	10.24	11.24		12.44		7 / 1		
reaction time	0.263	interval	1.00	0.98	0.98	0.94	0.98	0.96	0.94	0.96	0.98	1.00	1.20			2.90	2.88	2.94
wind	-0.6 m/s	velocity	5.16	8.67	8.67	9.04	8.67	8.85	9.04	8.85	8.67	8.50	8.75	8.04		8.79	8.85	8.67

FINAL - 2013 USATF National Championships (Des Moines, IA)*(2015.9.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	22-Jun-13	time	2.52	3.52	4.48	5.43	6.37	7.33	8.27	9.25	10.20	11.18		12.26		4 / 1		
reaction time		interval	1.00	0.96	0.95	0.94	0.96	0.94	0.98	0.95	0.98	1.08	AR			2.91	2.84	2.91
wind	1.2 m/s	velocity	5.16	8.50	8.85	8.95	9.04	8.85	9.04	8.67	8.95	8.67	9.72	8.16		8.76	8.98	8.76

McReynolds, Tiffani (USA) (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 USATF National Indoor Championships (Albuquerque, NM) (Altitude)***CAA Hurdle Development (2020)*

date	15-Feb-20	time	2.60	3.63	4.65	5.65	6.64							7.96		4 / 3		
reaction time	0.181	interval	1.03	1.02	1.00	0.99							1.32			3.05		
		velocity	5.00	8.25	8.33	8.50	8.59						9.85	7.54		8.36		

Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)*CAA Hurdle Development (2020)*

date	15-Feb-20	time	2.59	3.64	4.64	5.64	6.62							7.98		6 / 1		
reaction time	0.156	interval	1.05	1.00	1.00	0.98							1.36			3.05		
		velocity	5.02	8.10	8.50	8.50	8.67						9.56	7.52		8.36		

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	3.56	4.60	5.63	6.63	7.66	8.73	9.77	10.83	11.87		13.13		3 / 7		
reaction time	0.167	interval	1.03	1.04	1.03	1.00	1.03	1.07	1.04	1.06	1.04	1.26				3.10	3.10	3.14
wind	0.1 m/s	velocity	5.14	8.25	8.17	8.25	8.50	8.25	7.94	8.17	8.02	8.17	8.33	7.62		8.23	8.23	8.12

FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	18-Aug-19	time	2.54	3.63	4.68	5.72	6.74	7.77	8.80	9.86	10.91	11.96		13.16		3 / 8		
reaction time	0.163	interval	1.09	1.05	1.04	1.02	1.03	1.03	1.06	1.05	1.05	1.20				3.18	3.08	3.16
wind	-0.2 m/s	velocity	5.12	7.80	8.10	8.17	8.33	8.25	8.25	8.02	8.10	8.10	8.75	7.60		8.02	8.28	8.07

FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	20-Jul-19	time	2.48	3.52	4.50	5.48	6.48	7.48						dnf		2 / --		
reaction time	0.153	interval	1.04	0.98	0.98	1.00	1.00							DQ		3.00		
wind	0.8 m/s	velocity	5.24	8.17	8.67	8.67	8.50	8.50								8.50		

Meesri, Suchada (THA) (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 Grand Prix 2 (Chongqing, CHN)***CAA Hurdle Development (2019)*

date	07-Jun-19	time	2.70	3.78	4.87	5.96	7.04	8.14	9.24	10.37	11.49	12.64		13.89		2 / 7		
reaction time	0.180	interval	1.08	1.09	1.09	1.08	1.10	1.10	1.13	1.12	1.15	1.25				3.26	3.28	3.40
wind	2.3 m/s	velocity	4.81	7.87	7.80	7.80	7.87	7.73	7.73	7.52	7.59	7.39	8.40	7.20		7.82	7.77	7.50

FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)*CAA Hurdle Development (2019)*

date	04-Jun-19	time	2.68	3.78	4.87	5.97	7.19	8.37	9.56	10.74				14.44		2 / 7		
reaction time	0.171	interval	1.10	1.09	1.10	1.22	1.18	1.19	1.18							3.29	3.59	
wind	-1.2 m/s	velocity	4.85	7.73	7.80	7.73	6.97	7.20	7.14	7.20				6.93		7.75	7.10	

Mei Xiaoqian (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) (76cm)***CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.90	4.07	5.21	6.36	7.47	8.61	9.76	10.93	12.11	13.31		14.66		4 / 6		
reaction time	0.418	interval	1.17	1.14	1.15	1.11	1.14	1.15	1.17	1.18	1.20	1.35				3.46	3.40	3.55
wind	0.0 m/s	velocity	4.48	7.26	7.46	7.39	7.66	7.46	7.39	7.26	7.20	7.08	7.78	6.82		7.37	7.50	7.18

Melnychenko, Hanna (UKR) (1983)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	2.67	3.72	4.81	5.86	6.92	8.01	9.09	10.19	11.29	12.40		13.60	8 / 5				
reaction time	0.138	interval		1.05	1.09	1.05	1.06	1.09	1.08	1.10	1.10	1.11	1.20				3.19	3.23	3.31
wind	-0.4 m/s	velocity	4.87	8.10	7.80	8.10	8.02	7.80	7.87	7.73	7.73	7.66	8.75	7.35			7.99	7.89	7.70
Merriman, Donica (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 - 1996 USATF National Junior Championships (Delaware, OH)														<i>USATF Women's Sprint Development (1996)</i>					
date	29-Jun-96	time	2.51	3.67	4.73	5.78	6.85	7.95	9.05	10.16	11.27	12.42		13.87	6 / 3				
reaction time		interval		1.16	1.06	1.05	1.07	1.10	1.10	1.11	1.11	1.15	1.45	PB			3.27	3.27	3.37
wind	-2.5 m/s	velocity	5.18	7.33	8.02	8.10	7.94	7.73	7.73	7.66	7.66	7.39	7.24	7.21			7.80	7.80	7.57
Michalská, Klára (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 - 2012 Czech Republic National Indoor Championships (Praha, CZE)														<i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>					
date	25-Feb-12	time	2.78	4.02	5.16	6.31	7.45							8.98	6 / 6				
reaction time	0.195	interval		1.24	1.14	1.15	1.14						1.53				3.53		
		velocity	4.68	6.85	7.46	7.39	7.46						8.50	6.68			7.22		
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)														<i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>					
date	25-Feb-12	time	2.80	3.94	5.09	6.21	7.36							8.87	3 / 2				
reaction time	0.165	interval		1.14	1.15	1.12	1.15						1.51				3.41		
		velocity	4.64	7.46	7.39	7.59	7.39						8.61	6.76			7.48		
Miklós, Éva (ROU) (1978)	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)														<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>					
date	24-Jun-01	time	2.73	3.82	4.87	5.92	6.98	8.04	9.09	10.14	11.24	12.33		13.53	1 / 6				
reaction time	0.161	interval		1.09	1.05	1.05	1.06	1.06	1.05	1.05	1.10	1.09	1.20				3.19	3.17	3.24
wind	0.6 m/s	velocity	4.76	7.80	8.10	8.10	8.02	8.02	8.10	8.10	7.73	7.80	8.75	7.39			7.99	8.04	7.87
Minárová, Pavlína (CZE) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)														<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national championships</i>					
date	14-Feb-15	time	2.74	3.86										dnf	6 / --				
reaction time	0.165	interval		1.12															
		velocity	4.74	7.59															
Missinne, Sarah (BEL) (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 Memorial Van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	04-Sep-20	time	2.63	3.70	4.77	5.83	6.87	7.93	9.00	10.10	11.17	12.30		13.55	7 / 3				
reaction time	0.133	interval		1.07	1.07	1.06	1.04	1.06	1.07	1.10	1.07	1.13	1.25				3.20	3.17	3.30
wind	-0.2 m/s	velocity	4.94	7.94	7.94	8.02	8.17	8.02	7.94	7.73	7.94	7.52	8.04	7.38			7.97	8.04	7.73
Miteva, Elena (BUL) (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 Galà dei Castelli (Bellinzona, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	15-Sep-20	time	2.72	3.78	4.88	5.94	7.00	8.08	9.16	10.28	11.40	12.52		13.74	7 / 6				
reaction time		interval	7 steps	1.06	1.10	1.06	1.06	1.08	1.08	1.12	1.12	1.12	1.22				3.22	3.22	3.36
wind	0.0 m/s	velocity	4.78	8.02	7.73	8.02	8.02	7.87	7.87	7.59	7.59	7.59	8.24	7.28			7.92	7.92	7.59
Miyamatsu, Shiki (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 Japanese National High School Championships (Naruto, JPN)														<i>Kishima (2022) - national high school championships biomechanics data collection</i>					
date	07-Aug-22	time	2.71	3.82	4.95	6.05	7.17	8.28	9.41	10.56	11.70	12.88		14.15	8 / 8				
reaction time	0.151	interval		1.11	1.13	1.10	1.12	1.11	1.13	1.15	1.14	1.18	1.27				3.34	3.36	3.47
wind	-1.5 m/s	velocity	4.80	7.66	7.52	7.73	7.59	7.66	7.52	7.39	7.46	7.20	7.91	7.07			7.63	7.59	7.35
Miyoshi, Minami (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) (76cm)														<i>(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	21-Oct-16	time	2.77	3.89	4.98	6.06	7.14	8.22	9.31	10.41	11.52	12.68		13.93	4 / 1				
reaction time		interval		1.12	1.09	1.08	1.08	1.08	1.09	1.10	1.11	1.16	1.25				3.29	3.25	3.37
wind	0.4 m/s	velocity	4.69	7.14	7.34	7.41	7.41	7.41	7.34	7.27	7.21	6.90	12.00	7.18			7.29	7.38	7.12
Moore, Tawnie (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 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)														<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.65	3.72	4.77	5.79	6.82							8.21	7 / 5				
reaction time	0.147	interval		1.07	1.05	1.02	1.03						1.39				3.14		
		velocity	4.91	7.94	8.10	8.33	8.25						9.35	7.31			8.12		
Morgan, Monique (JAM) (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 Seiko Golden Grand Prix (Osaka, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>					
date	20-May-18	time	2.69	3.75	4.80	5.82	6.86	7.87	8.91	9.95	10.98	12.06		13.20	7 / 3				
reaction time	0.157	interval		1.06	1.05	1.02	1.04	1.01	1.04	1.04	1.03	1.08	1.14				3.13	3.09	3.15
wind	-0.6 m/s	velocity	4.83	8.02	8.10	8.33	8.17	8.42	8.17	8.17	8.25	7.87	9.21	7.58			8.15	8.25	8.10
Morgulina, Nina (URS) (1956)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
A FINAL - 1979 VII USSR Spartakiade (Moscow, URS)														<i>Balachničiv (1981) - Periodisierung & Zyklisierung des Trainings 78/79 Hürdenläuferinnen der Spitzenklasse der UdSSR</i>					
date	25-Jul-79	time	2.56	3.64	4.67	5.68	6.70	7.70	8.72	9.76	10.81	11.90		13.10	1 / 3				
reaction time		interval		1.08	1.03	1.01	1.02	1.00	1.02	1.04	1.05	1.09	1.20				3.12	3.04	3.18

wind **???** velocity 5.08 7.87 8.25 8.42 8.33 8.50 8.33 8.17 8.10 7.80 8.75 7.63 8.17 8.39 8.02

FINAL - 1978 European Championships (Prague, TCH)*Lamare (1978) - championnats d'Europa 1978*

date 02-Sep-78 time 2.67 6.56 12.86 3 / 4
 reaction time interval 3.89
 wind 0.6 m/s velocity 4.87 8.74 7.78

FINAL - 1975 International "Pravda" Sportfest (Sotschi, URS)*Artyshenko (1977) - zwischen den hürden geht es um die sekunde, teil 2*

date 29-May-75 time 2.4 3.6 4.7 5.9 6.9 8.1 9.2 10.3 11.3 12.5 13.8 / 4
 reaction time interval 1.19 1.17 1.15 1.05 1.15 1.09 1.09 1.03 1.21 1.35 3.51 3.29 3.33
 wind **???** velocity 5.51 7.14 7.26 7.39 8.10 7.39 7.80 7.80 8.25 7.02 7.78 7.23 7.26 7.75 7.66

Moriwaki, Kanami (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 3.81 4.90 6.00 7.09 8.18 9.28 10.42 11.57 12.74 14.04 2 / 6
 reaction time 0.144 interval 1.11 1.09 1.10 1.09 1.09 1.10 1.14 1.15 1.17 1.30 3.30 3.28 3.46
 wind -1.5 m/s velocity 4.81 7.66 7.80 7.73 7.80 7.80 7.73 7.46 7.39 7.26 7.73 7.12 7.73 7.77 7.37

Morrison, Ebony (LBR) (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 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympc Games - Results Book (2024)*

date 09-Aug-24 time 2.41 3.48 4.49 5.49 6.48 7.46 8.45 9.49 11.27 17.21 2 / --
 reaction time 0.138 interval 1.07 1.01 1.00 0.99 0.98 0.99 1.04 1.78 5.94 **DQ** 3.08 2.96 8.76
 wind 0.5 m/s velocity 5.39 7.94 8.42 8.50 8.59 8.67 8.59 8.17 4.78 1.43 8.28 8.61 2.91

Repechage 2 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympc Games - Results Book (2024)*

date 08-Aug-24 time 2.42 3.49 4.50 5.50 6.48 7.47 8.48 9.49 10.53 11.58 12.82 4 / 1
 reaction time 0.151 interval 1.07 1.01 1.00 0.98 0.99 1.01 1.01 1.04 1.05 1.24 3.08 2.98 3.10
 wind 0.4 m/s velocity 5.37 7.94 8.42 8.50 8.67 8.59 8.42 8.42 8.17 8.10 8.10 7.80 8.28 8.56 8.23

Heat 2 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympc Games - Results Book (2024)*

date 07-Aug-24 time 2.44 3.51 4.54 5.55 6.55 7.56 8.56 9.57 10.61 11.66 12.93 6 / 6
 reaction time 0.134 interval 1.07 1.03 1.01 1.00 1.01 1.00 1.01 1.04 1.05 1.27 3.11 3.01 3.10
 wind 0.0 m/s velocity 5.33 7.94 8.25 8.42 8.50 8.42 8.50 8.42 8.17 8.10 7.91 7.73 8.20 8.47 8.23

National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2023) - diamond league race analysis*

date 02-Jul-23 time 2.44 3.54 4.60 5.65 6.69 7.72 8.76 9.82 10.89 11.99 13.39 6 / 3
 reaction time 0.137 interval 1.10 1.06 1.05 1.04 1.03 1.04 1.06 1.07 1.10 1.40 3.21 3.11 3.23
 wind 0.6 m/s velocity 5.33 7.73 8.02 8.10 8.17 8.25 8.17 8.02 7.94 7.73 7.18 7.47 7.94 8.20 7.89

FINAL - 2022 African Championships (St. Pierre, MRI) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date 09-Jun-22 time 2.54 3.54 4.60 5.58 6.54 7.54 8.55 9.55 10.55 11.61 12.77 4 / 2
 reaction time interval 1.00 1.06 0.98 0.96 1.00 1.01 1.00 1.00 1.06 1.16 3.04 2.97 3.06
 wind 4.0 m/s velocity 5.12 8.50 8.02 8.67 8.85 8.50 8.42 8.50 8.50 8.02 8.66 7.83 8.39 8.59 8.33

Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date 01-Aug-21 time 2.53 3.57 4.57 5.57 6.54 7.52 8.52 9.53 10.58 11.64 12.74 2 / 6
 reaction time 0.144 interval 1.04 1.00 1.00 0.97 0.98 1.00 1.01 1.05 1.06 1.10 **NR PB** 3.04 2.95 3.12
 wind -0.2 m/s velocity 5.14 8.17 8.50 8.50 8.76 8.67 8.50 8.42 8.10 8.02 9.14 7.85 8.39 8.64 8.17

Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date 31-Jul-21 time 2.51 3.54 4.59 5.63 6.62 7.62 8.66 9.71 10.74 11.83 13.00 9 / 6
 reaction time 0.150 interval 1.03 1.05 1.04 0.99 1.00 1.04 1.05 1.03 1.09 1.17 3.12 3.03 3.17
 wind 0.4 m/s velocity 5.18 8.25 8.10 8.17 8.59 8.50 8.17 8.10 8.25 7.80 8.59 7.69 8.17 8.42 8.04

Morrison, Melissa (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 - 2004 Olympic Games (Athens, GRE)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date 24-Aug-04 time 2.56 3.54 4.50 5.48 6.47 7.48 8.47 9.47 10.47 11.47 12.56 3 / 3
 reaction time 0.145 interval 0.98 0.96 0.98 0.99 1.01 0.99 1.00 1.00 1.00 1.09 2.92 2.99 3.00
 wind 0.3 m/s velocity 5.08 8.67 8.85 8.67 8.59 8.42 8.59 8.50 8.50 8.50 9.63 7.96 8.73 8.53 8.50

FINAL - 2003 USATF National Championships (Palo Alto, CA)*USATF Women's Sprint Development (2003)*

date 22-Jun-03 time 2.52 3.55 4.54 5.50 6.49 7.44 8.49 9.46 10.46 11.49 12.70 3 / 4
 reaction time interval 1.03 0.99 0.96 0.99 0.95 1.05 0.97 1.00 1.03 1.21 2.98 2.99 3.00
 wind -0.1 m/s velocity 5.16 8.25 8.59 8.85 8.59 8.95 8.10 8.76 8.50 8.25 8.68 7.87 8.56 8.53 8.50

FINAL - 2000 ISTAF (Berlin, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date 01-Sep-00 time 2.58 3.61 4.61 5.60 6.58 7.55 8.54 9.56 10.56 11.57 12.67 / 2
 reaction time 0.183 interval 1.03 1.00 0.99 0.98 0.97 0.99 1.02 1.00 1.01 1.10 3.02 2.94 3.03
 wind -0.2 m/s velocity 5.04 8.25 8.50 8.59 8.67 8.76 8.59 8.33 8.50 8.42 9.55 7.89 8.44 8.67 8.42

Heat 1 - 1998 USATF National Championships (New Orleans, LA)*Mann (1998) - usatf elite sprint & hurdle summit*

date 20-Jun-98 time 2.30 3.31 4.31 5.29 6.27 7.24 8.23 9.23 10.25 11.35 12.69 / 1
 reaction time interval 1.01 1.00 0.98 0.98 0.97 0.99 1.00 1.02 1.10 1.34 2.99 2.94 3.12

wind 2.3 m/s velocity 5.65 8.42 8.50 8.67 8.67 8.76 8.59 8.50 8.33 7.73 7.84 7.88 8.53 8.67 8.17

FINAL - 1996 USA Olympic Trials (Atlanta, GA) *USATF Women's Sprint Development (1996)*
 date 23-Jun-96 time 2.33 3.36 4.36 5.36 6.33 7.31 8.32 9.36 10.57 11.76 13.45 7 / 8
 reaction time interval 1.03 1.00 1.00 0.97 0.98 1.01 1.04 1.21 1.19 1.69 3.03 2.96 3.44
 wind 0.6 m/s velocity 5.58 8.25 8.50 8.50 8.76 8.67 8.42 8.17 7.02 7.14 6.21 7.43 8.42 8.61 7.41

Mossberg, Sofia (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 2.74 3.84 4.95 6.04 7.12 8.22 9.33 10.46 11.59 12.74 14.18 / 1
 reaction time interval 1.10 1.11 1.09 1.08 1.10 1.11 1.13 1.13 1.15 1.44 3.30 3.29 3.41
 wind 1.0 m/s velocity 4.74 7.73 7.66 7.80 7.87 7.73 7.66 7.52 7.52 7.39 7.29 7.05 7.73 7.75 7.48

FINAL - 2017 Windsprint (Sundsvall, SWE) *(2017) - www.windsprint/Splittider/*
 date 30-Jul-17 time 2.82 3.96 5.07 6.17 7.26 8.37 9.48 10.61 11.76 12.91 14.32 / 1
 reaction time interval 1.14 1.11 1.10 1.09 1.11 1.11 1.13 1.15 1.15 1.41 3.35 3.31 3.43
 wind 0.8 m/s velocity 4.61 7.46 7.66 7.73 7.80 7.66 7.66 7.52 7.39 7.39 7.45 6.98 7.61 7.70 7.43

Mota, Yoveinny (VEN) (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 Olympic Games (Paris, FRA) *Paris 2024 Olympic Games - Results Book (2024)*
 date 07-Aug-24 time 2.51 3.56 4.57 5.62 6.70 7.76 8.79 7 / --
 reaction time interval 0.164 1.05 1.01 1.05 1.08 1.06 1.03 **DQ** 3.11 3.17
 wind 0.0 m/s velocity 5.18 8.10 8.42 8.10 7.87 8.02 8.25 8.20 8.04

FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis) *Henson (2022) - Athlete First: 2022 year end hurdle report*
 date 19-Mar-22 time 2.56 3.58 4.60 5.58 6.60 8.05 1 / 5
 reaction time interval 0.147 1.02 1.02 0.98 1.02 1.45 **NR** 3.02
 velocity 5.08 8.33 8.33 8.67 8.33 8.97 7.45 8.44

Mouri, Hikari (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 Kansai Regional University Championships (Osaka, JPN) *(2017) - tfdata-store.com/2017/05/13/post-441/*
 date 11-May-17 time 2.78 3.91 5.02 6.12 7.20 8.32 9.43 10.56 11.71 12.88 14.18 3 / 6
 reaction time interval 1.13 1.11 1.10 1.08 1.12 1.11 1.13 1.15 1.17 1.30 3.34 3.31 3.45
 wind -1.2 m/s velocity 4.68 7.52 7.66 7.73 7.87 7.59 7.66 7.52 7.39 7.26 8.08 7.05 7.63 7.70 7.39

Mucci, Celeste (AUS) (1999) **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 08-Aug-24 time 2.50 3.57 4.59 5.60 6.62 7.62 8.64 9.66 10.69 11.73 13.00 3 / 5
 reaction time interval 0.141 1.07 1.02 1.01 1.02 1.00 1.02 1.03 1.04 1.27 3.10 3.04 3.09
 wind 0.4 m/s velocity 5.20 7.94 8.33 8.42 8.33 8.50 8.33 8.33 8.25 8.17 7.91 7.69 8.23 8.39 8.25

Heat 2 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympic Games - Results Book (2024)*
 date 07-Aug-24 time 2.50 3.57 4.60 5.62 6.61 7.62 8.63 9.65 10.70 11.76 13.05 3 / 7
 reaction time interval 0.143 1.07 1.03 1.02 0.99 1.01 1.01 1.02 1.05 1.06 1.29 3.12 3.01 3.13
 wind 0.0 m/s velocity 5.20 7.94 8.25 8.33 8.59 8.42 8.42 8.33 8.10 8.02 7.79 7.66 8.17 8.47 8.15

Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis) *Henson (2023) - Athlete First: 2023 year end hurdle report*
 date 23-Aug-23 time 2.60 3.63 4.65 5.65 6.64 7.64 8.64 9.67 10.71 11.76 12.97 2 / 6
 reaction time interval 0.175 1.03 1.02 1.00 0.99 1.00 1.00 1.03 1.04 1.05 1.21 3.05 2.99 3.12
 wind -0.7 m/s velocity 5.00 8.25 8.33 8.50 8.59 8.50 8.50 8.25 8.17 8.10 8.31 7.71 8.36 8.53 8.17

Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis) *Henson (2023) - Athlete First: 2023 year end hurdle report*
 date 22-Aug-23 time 2.56 3.64 4.67 5.65 6.65 7.65 8.67 9.68 10.70 11.73 12.90 3 / 4
 reaction time interval 0.171 1.08 1.03 0.98 1.00 1.00 1.02 1.01 1.02 1.03 1.17 3.09 3.02 3.06
 wind 0.0 m/s velocity 5.08 7.87 8.25 8.67 8.50 8.50 8.33 8.42 8.33 8.25 8.59 7.75 8.25 8.44 8.33

FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN) *Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*
 date 21-May-23 time 2.59 3.65 4.66 5.65 6.67 7.68 8.68 9.72 10.75 11.79 12.93 9 / 4
 reaction time interval 0.161 1.06 1.01 0.99 1.02 1.01 1.00 1.04 1.03 1.04 1.14 3.06 3.03 3.11
 wind 0.4 m/s velocity 5.02 8.02 8.42 8.59 8.33 8.42 8.50 8.17 8.25 8.17 8.82 7.73 8.33 8.42 8.20

FINAL - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis) *Henson (2022) - Athlete First: 2022 year end hurdle report*
 date 07-Aug-22 time 2.60 3.62 4.62 5.62 6.62 7.64 8.66 9.68 10.76 11.80 13.03 1 / 7
 reaction time interval 0.151 1.02 1.00 1.00 1.00 1.02 1.02 1.02 1.08 1.04 1.23 3.02 3.04 3.14
 wind -0.2 m/s velocity 5.00 8.33 8.50 8.50 8.50 8.33 8.33 8.33 7.87 8.17 8.17 7.67 8.44 8.39 8.12

Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis) *Henson (2022) - Athlete First: 2022 year end hurdle report*
 date 24-Jul-22 time 2.54 3.63 4.65 5.63 6.63 7.63 8.63 9.66 10.70 dnf 1 / --
 reaction time interval 0.143 1.09 1.02 0.98 1.00 1.00 1.00 1.03 1.04 **DQ** 3.09 3.00
 wind -0.1 m/s velocity 5.12 7.80 8.33 8.67 8.50 8.50 8.50 8.25 8.17 8.25 8.50

Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis) *Henson (2022) - Athlete First: 2022 year end hurdle report*
 date 23-Jul-22 time 2.55 3.60 4.63 5.63 6.65 7.66 8.66 9.70 10.73 11.76 13.01 5 / 4

reaction time	0.163	interval	1.05	1.03	1.00	1.02	1.01	1.00	1.04	1.03	1.03	1.25			3.08	3.03	3.10
wind	1.5 m/s	velocity	5.10	8.10	8.25	8.50	8.33	8.42	8.50	8.17	8.25	8.25	8.04	7.69	8.28	8.42	8.23

FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	01-May-22	time	2.64	3.69	4.71	5.71	6.74	7.75	8.78	9.82	10.86	11.92		13.08	4 / 1			
reaction time	0.158	interval	1.05	1.02	1.00	1.03	1.01	1.03	1.04	1.04	1.06	1.16				3.07	3.07	3.14
wind	-0.6 m/s	velocity	4.92	8.10	8.33	8.50	8.25	8.42	8.25	8.17	8.17	8.02	8.66	7.65		8.31	8.31	8.12

FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	29-Apr-22	time	2.67	3.74	4.76	5.80	6.85	7.87	8.92	9.96	11.01	12.07		13.21	3 / 1			
reaction time	0.179	interval	1.07	1.02	1.04	1.05	1.02	1.05	1.04	1.05	1.06	1.14				3.13	3.12	3.15
wind	-2.8 m/s	velocity	4.87	7.94	8.33	8.17	8.10	8.33	8.10	8.17	8.10	8.02	8.82	7.57		8.15	8.17	8.10

Muchová, Zuzana (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 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	2.88	4.00	5.14	6.27	7.41	8.53	9.65	10.80	11.95	13.13		14.45	3 / 3			
reaction time	0.170	interval	1.12	1.14	1.13	1.14	1.12	1.12	1.15	1.15	1.18	1.32				3.39	3.38	3.48
wind	-1.0 m/s	velocity	4.51	7.59	7.46	7.52	7.46	7.59	7.59	7.39	7.39	7.20	7.95	6.92		7.52	7.54	7.33

Munro, Jacquie (AUS) (1981)**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	2.65	3.70	4.75	5.77	6.79	7.83	8.88	9.96	11.04	12.16		13.46	8 / 8			
reaction time	0.129	interval	1.05	1.05	1.02	1.02	1.04	1.05	1.08	1.08	1.12	1.30				3.12	3.11	3.28
wind	1.5 m/s	velocity	4.91	8.10	8.10	8.33	8.33	8.17	8.10	7.87	7.87	7.59	8.08	7.43		8.17	8.20	7.77

Muraoka, Kakehiro (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) (76cm)***(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.70	3.82	4.92	6.02	7.15	8.25	9.38	10.53	11.72	12.91		14.19	4 / 3			
reaction time		interval	1.12	1.10	1.10	1.13	1.10	1.13	1.13	1.15	1.19	1.28				3.32	3.36	3.53
wind	1.1 m/s	velocity	4.81	7.14	7.27	7.27	7.08	7.27	7.08	6.96	6.72	6.72	11.72	7.05		7.23	7.14	6.80

Nagai, Mahiro (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	2.71	3.81	4.90	5.99	7.07	8.17	9.26	10.37	11.52	12.66		13.91	7 / 3			
reaction time	0.187	interval	1.10	1.09	1.09	1.08	1.10	1.09	1.11	1.15	1.14	1.25				3.28	3.27	3.40
wind	-1.5 m/s	velocity	4.80	7.73	7.80	7.80	7.87	7.73	7.80	7.66	7.39	7.46	8.04	7.19		7.77	7.80	7.50

Nagamine, Sayuri (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)***Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data*

date	08-Aug-19	time	2.71	3.81	4.89	5.99	7.10	8.24	9.36	10.50	11.67	12.86		14.15	4 / 2			
reaction time		interval	1.10	1.08	1.10	1.11	1.14	1.12	1.14	1.17	1.19	1.29				3.28	3.37	3.50
wind	-4.1 m/s	velocity	4.80	7.73	7.87	7.73	7.66	7.46	7.59	7.46	7.26	7.14	8.14	7.07		7.77	7.57	7.29

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	3.90	5.04	6.15	7.25	8.37	9.49	10.62	11.79	12.99		14.35	4 / 1			
reaction time		interval	1.15	1.14	1.11	1.10	1.12	1.12	1.13	1.17	1.20	1.36				3.40	3.34	3.50
wind	1.9 m/s	velocity	4.73	7.39	7.46	7.66	7.73	7.59	7.59	7.52	7.26	7.08	7.39	6.97		7.50	7.63	7.29

FINAL - 2018 Shimane High School Championships (Izumo, JPN)*Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis*

date	27-May-18	time	2.75	3.87	5.00	6.10	7.20	8.30	9.42	10.52	11.65	12.77		14.02	5 / 1			
reaction time		interval	1.12	1.13	1.10	1.10	1.10	1.12	1.12	1.10	1.13	1.12	1.25			3.35	3.32	3.35
wind	1.2 m/s	velocity	4.73	7.59	7.52	7.73	7.73	7.73	7.59	7.73	7.52	7.59	8.04	7.13		7.61	7.68	7.61

Nagasaki, Sayuri (JPN) (2001)**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)***Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	08-Oct-18	time	2.68	3.77	4.83	5.89	6.94	8.00	9.05	10.12	11.23	12.34		13.56	3 / 3			
reaction time	0.139	interval	1.09	1.06	1.06	1.05	1.06	1.05	1.07	1.11	1.11	1.22				3.21	3.16	3.29
wind	2.5 m/s	velocity	4.85	7.80	8.02	8.02	8.10	8.02	8.10	7.94	7.66	7.66	8.61	7.37		7.94	8.07	7.75

FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)*Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data*

date	02-Aug-18	time	2.70	3.80	4.89	5.98	7.06	8.14	9.24	10.34	11.45	12.58		13.80	6 / 5			
reaction time		interval	1.10	1.09	1.09	1.08	1.08	1.10	1.10	1.10	1.11	1.13	1.22			3.28	3.26	3.34
wind	-0.3 m/s	velocity	4.81	7.73	7.80	7.80	7.87	7.87	7.73	7.73	7.66	7.52	8.61	7.25		7.77	7.82	7.63

FINAL A - 2016 Japanese Junior Olympics (Yokohama, JPN) (76cm)*(2016.10.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	28-Oct-16	time	2.70	3.82	4.93	6.02	7.09	8.18	9.28	10.40	11.53	12.67		13.93	4 / 1			
reaction time		interval	1.12	1.11	1.09	1.07	1.09	1.10	1.12	1.13	1.14	1.26				3.32	3.26	3.39
wind	-0.4 m/s	velocity	4.81	7.59	7.66	7.80	7.94	7.80	7.73	7.59	7.52	7.46	8.33	7.18		7.68	7.82	7.52

Heat 3 B - 2016 Japanese Junior Olympics (Yokohama, JPN) (76cm)*(2016.10.27) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	28-Oct-16	time	2.76	3.89	5.02	6.13	7.24	8.36	9.50	10.63	11.77	12.93		14.24	4 / 1			
reaction time		interval	1.13	1.13	1.11	1.11	1.12	1.14	1.13	1.14	1.16	1.31				3.37	3.37	3.43
wind	-2.2 m/s	velocity	4.71	7.52	7.52	7.66	7.66	7.59	7.46	7.52	7.46	7.33	8.02	7.02		7.57	7.57	7.43

Nagięć, Weronika (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 - 2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)												<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>					
date	03-Jun-22	time	2.64	3.70	4.74	5.78	6.80	7.84	8.92	9.96			dnf	2 / --			
reaction time		interval		1.06	1.04	1.04	1.02	1.04	1.08	1.04			DQ		3.14	3.14	
wind	0.2 m/s	velocity	4.92	8.02	8.17	8.17	8.33	8.17	7.87	8.17					8.12	8.12	
Naito, Kano (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 - 2023 Japanese U20 National Championships (Osaka, JPN)												<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>					
date	03-Jun-23	time	2.74	3.84	4.95	6.02	7.10	8.20	9.29	10.41	11.53	12.65	13.87	3 / 2			
reaction time	0.181	interval		1.10	1.11	1.07	1.08	1.10	1.09	1.12	1.12	1.22			3.28	3.27	3.36
wind	-1.4 m/s	velocity	4.74	7.73	7.66	7.94	7.87	7.73	7.80	7.59	7.59	8.24	7.21		7.77	7.80	7.59
Nakahara, Sana (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)												<i>Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis</i>					
date	26-May-24	time	2.90	4.07	5.30	6.52	7.75	8.97	10.20	11.48	12.77	14.08	15.52	5 / 4			
reaction time		interval		1.17	1.23	1.22	1.23	1.22	1.23	1.28	1.29	1.31	1.44		3.62	3.68	3.88
wind	-1.0 m/s	velocity	4.48	7.26	6.91	6.97	6.91	6.97	6.91	6.64	6.59	6.49	6.98	6.44	7.04	6.93	6.57
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	3.03	4.30	5.60	6.87	8.17	9.47	10.80	12.18	13.67	15.15	16.68	8 / 5			
reaction time		interval		1.27	1.30	1.27	1.30	1.30	1.33	1.38	1.49	1.48	1.53		3.84	3.93	4.35
wind	-0.2 m/s	velocity	4.29	6.69	6.54	6.69	6.54	6.54	6.39	6.16	5.70	5.74	6.57	6.00	6.64	6.49	5.86
Nakajima, Hitomi (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 Japanese National Championships (Osaka, JPN)												<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>					
date	03-Jun-23	time	2.69	3.75	4.78	5.80	6.84	7.87	8.92	9.98	11.06	12.19	13.44	8 / 8			
reaction time	0.151	interval		1.06	1.03	1.02	1.04	1.03	1.05	1.06	1.08	1.13	1.25		3.11	3.12	3.27
wind	-1.2 m/s	velocity	4.83	8.02	8.25	8.33	8.17	8.25	8.10	8.02	7.87	7.52	8.04	7.44	8.20	8.17	7.80
FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)												<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>					
date	07-May-23	time	2.68	3.74	4.80	5.84	6.86	7.90	8.95	10.01	11.09	12.20	13.38	8 / 6			
reaction time	0.131	interval		1.06	1.06	1.04	1.02	1.04	1.05	1.06	1.08	1.11	1.18		3.16	3.11	3.25
wind	0.7 m/s	velocity	4.85	8.02	8.02	8.17	8.33	8.17	8.10	8.02	7.87	7.66	8.52	7.47	8.07	8.20	7.85
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)												<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>					
date	29-Apr-23	time	2.69	3.80	4.86	5.91	6.95	8.02	9.09	10.17	11.27	12.36	13.60	2 / 7			
reaction time	0.135	interval		1.11	1.06	1.05	1.04	1.07	1.07	1.08	1.10	1.09	1.24		3.22	3.18	3.27
wind	0.6 m/s	velocity	4.83	7.66	8.02	8.10	8.17	7.94	7.94	7.87	7.73	7.80	8.10	7.35	7.92	8.02	7.80
FINAL - 2022 Japanese National Championships (Osaka, JPN)												<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>					
date	11-Jun-22	time	2.67	3.75	4.81	5.85	6.88	7.91	8.96	10.01	11.09	12.20	13.37	8 / 4			
reaction time	0.145	interval		1.08	1.06	1.04	1.03	1.03	1.05	1.05	1.08	1.11	1.17		3.18	3.11	3.24
wind	0.8 m/s	velocity	4.87	7.87	8.02	8.17	8.25	8.25	8.10	8.10	7.87	7.66	8.59	7.48	8.02	8.20	7.87
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)												<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>					
date	01-May-22	time	2.67	3.74	4.80	5.85	6.92	7.98	9.07	10.15	11.26	12.38	13.62	6 / 6			
reaction time	0.135	interval		1.07	1.06	1.05	1.07	1.06	1.09	1.08	1.11	1.12	1.24		3.18	3.22	3.31
wind	-0.6 m/s	velocity	4.87	7.94	8.02	8.10	7.94	8.02	7.80	7.87	7.66	7.59	8.10	7.34	8.02	7.92	7.70
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)												<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>					
date	29-Apr-22	time	2.70	3.81	4.90	5.99	7.10	8.20	9.31	10.41	11.50	12.63	13.82	1 / 8			
reaction time	0.144	interval		1.11	1.09	1.09	1.11	1.10	1.11	1.10	1.09	1.13	1.19		3.29	3.32	3.32
wind	-2.8 m/s	velocity	4.81	7.66	7.80	7.80	7.66	7.73	7.66	7.73	7.80	7.52	8.45	7.24	7.75	7.68	7.68
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)												<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>					
date	01-Jun-21	time	2.71	3.77	4.83	5.87	6.90	7.94	9.02	10.10	11.17	12.26	13.44	8 / 7			
reaction time	0.155	interval		1.06	1.06	1.04	1.03	1.04	1.08	1.08	1.07	1.09	1.18		3.16	3.15	3.24
wind	0.3 m/s	velocity	4.80	8.02	8.02	8.17	8.25	8.17	7.87	7.87	7.94	7.80	8.52	7.44	8.07	8.10	7.87
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)												<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>					
date	24-Oct-20	time	2.65	3.74	4.83	5.90	6.95	8.03	9.12	10.22	11.31	12.43	13.70	9 / 7			
reaction time		interval		1.09	1.09	1.07	1.05	1.08	1.09	1.10	1.09	1.12	1.27		3.25	3.22	3.31
wind	-1.4 m/s	velocity	4.91	7.80	7.80	7.94	8.10	7.87	7.80	7.73	7.80	7.59	7.91	7.30	7.85	7.92	7.70
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)												<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>					
date	20-Sep-20	time	2.69	3.77	4.84	5.91	6.96	8.03	9.11	10.21	11.32	12.45	13.68	9 / 7			
reaction time	0.137	interval		1.08	1.07	1.07	1.05	1.07	1.08	1.10	1.11	1.13	1.23		3.22	3.20	3.34
wind	0.0 m/s	velocity	4.83	7.87	7.94	7.94	8.10	7.94	7.87	7.73	7.66	7.52	8.17	7.31	7.92	7.97	7.63
FINAL - 2019 Fuse Sprint (Tottori, JPN)												<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>					
date	02-Jun-19	time	2.67	3.75	4.80	5.84	6.88	7.93	8.99	10.06	11.14	12.25	13.41	2 / 7			
reaction time	0.126	interval		1.08	1.05	1.04	1.04	1.05	1.06	1.07	1.08	1.11	1.16		3.17	3.15	3.26

wind 3.5 m/s velocity 4.87 7.87 8.10 8.17 8.17 8.10 8.02 7.94 7.87 7.66 9.05 7.46 8.04 8.10 7.82

FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)(2017) - tfd-data-store.com/2017/05/13/post-441/

date 11-May-17 time 2.78 3.89 5.00 6.09 7.16 8.25 9.35 10.48 11.59 12.73 13.88 7 / 3
 reaction time interval 1.11 1.11 1.09 1.07 1.09 1.10 1.13 1.11 1.14 1.15
 wind -1.2 m/s velocity 4.68 7.66 7.66 7.80 7.94 7.80 7.73 7.52 7.66 7.46 9.13 7.20 7.70 7.82 7.54

Nakamura, Mikoto (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 2.82 4.07 5.28 6.55 7.85 9.18 10.57 12.02 13.48 14.95 16.52 2 / 8
 reaction time interval 1.25 1.21 1.27 1.30 1.33 1.39 1.45 1.46 1.47 1.57 3.73 4.02 4.38
 wind -1.0 m/s velocity 4.61 6.80 7.02 6.69 6.54 6.39 6.12 5.86 5.82 5.78 6.40 6.05 6.84 6.34 5.82

Nakamura, Nene (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 2.88 4.08 5.35 6.63 7.95 9.33 10.72 12.20 13.78 15.28 16.91 5 / 4
 reaction time interval 1.20 1.27 1.28 1.32 1.38 1.39 1.48 1.58 1.50 1.63 3.75 4.09 4.56
 wind 0.4 m/s velocity 4.51 7.08 6.69 6.64 6.44 6.16 6.12 5.74 5.38 5.67 6.17 5.91 6.80 6.23 5.59

Nakamura, Reina (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 - 2017 Osaka University Athletics Championships (Osaka, JPN)(2017) - tfd-data-store.com/2017/04/07/post-249/

date 06-Apr-17 time 2.80 3.95 5.09 6.20 7.31 8.43 9.58 10.73 11.91 13.10 14.42 7 / 5
 reaction time interval 1.15 1.14 1.11 1.11 1.12 1.15 1.15 1.18 1.19 1.32 3.40 3.38 3.52
 wind -1.8 m/s velocity 4.64 7.39 7.46 7.66 7.66 7.59 7.39 7.39 7.20 7.14 7.95 6.93 7.50 7.54 7.24

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)Enomoto (2015) - [68th high school championships: JAF scientific committee- biomechanics data](#)

date 02-Aug-15 time 2.71 3.87 4.96 6.05 7.14 8.22 9.31 10.42 11.57 12.73 14.00 5 / 4
 reaction time interval 1.16 1.09 1.09 1.09 1.08 1.09 1.11 1.15 1.16 1.27 PB 3.34 3.26 3.42
 wind 0.9 m/s velocity 4.80 7.33 7.80 7.80 7.80 7.87 7.80 7.66 7.39 7.33 8.27 7.14 7.63 7.82 7.46

Nakamura, Yoshika (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 2.88 4.17 5.45 6.77 8.07 9.40 10.77 12.19 13.81 15.34 16.95 2 / 5
 reaction time interval 1.29 1.28 1.32 1.30 1.33 1.37 1.42 1.62 1.53 1.61 3.89 4.00 4.57
 wind 1.9 m/s velocity 4.51 6.59 6.64 6.44 6.54 6.39 6.20 5.99 5.25 5.56 6.24 5.90 6.56 6.38 5.58

Nakamura, Yuki (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)Kijima (2019) - [research on athlete performance and technique- 2019 data book](#)

date 02-Jun-19 time 2.68 3.76 4.81 5.84 6.92 7.97 9.03 10.12 11.22 12.33 13.51 3 / 8
 reaction time interval 1.08 1.05 1.03 1.08 1.05 1.06 1.09 1.10 1.11 1.18 3.16 3.19 3.30
 wind 3.5 m/s velocity 4.85 7.87 8.10 8.25 7.87 8.10 8.02 7.80 7.73 7.66 8.90 7.40 8.07 7.99 7.73

B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)Kobayashi (2019) - [research on athlete performance and technique- 2019 data book](#)

date 28-Apr-19 time 2.72 3.79 4.85 5.89 6.99 8.06 9.14 10.26 11.38 12.51 13.73 3 / 3
 reaction time interval 1.07 1.06 1.04 1.10 1.07 1.08 1.12 1.12 1.13 1.22 3.17 3.25 3.37
 wind 1.3 m/s velocity 4.78 7.94 8.02 8.17 7.73 7.94 7.87 7.59 7.59 7.52 8.61 7.28 8.04 7.85 7.57

FINAL - 2018 Fuse Sprint (Tottori, JPN)Kota (2018) - [Analysis of races of leading women's 100m hurdles at home and abroad](#)

date 03-Jun-18 time 2.70 3.80 4.86 5.92 6.98 8.03 9.12 10.22 11.36 12.50 13.73 7 / 7
 reaction time interval 1.10 1.06 1.06 1.06 1.05 1.09 1.10 1.14 1.14 1.23 3.22 3.20 3.38
 wind 0.6 m/s velocity 4.81 7.73 8.02 8.02 8.02 8.10 7.80 7.73 7.46 7.46 8.54 7.28 7.92 7.97 7.54

FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)Kota (2018) - [Analysis of races of leading women's 100m hurdles at home and abroad](#)

date 06-May-18 time 2.75 3.83 4.91 5.98 7.05 8.12 9.21 10.30 11.41 12.53 13.66 2 / 5
 reaction time interval 1.08 1.08 1.07 1.07 1.07 1.09 1.09 1.11 1.12 1.13 3.23 3.23 3.32
 wind -0.5 m/s velocity 4.73 7.87 7.87 7.94 7.94 7.94 7.80 7.80 7.66 7.59 9.29 7.32 7.89 7.89 7.68

FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)(2017) - tfd-data-store.com/2017/05/13/post-441/

date 11-May-17 time 2.73 3.83 4.94 6.01 7.09 8.17 9.25 10.35 11.47 12.61 13.85 4 / 2
 reaction time interval 7 steps 1.10 1.11 1.07 1.08 1.08 1.08 1.10 1.12 1.14 1.24 3.28 3.24 3.36
 wind -1.2 m/s velocity 4.76 7.73 7.66 7.94 7.87 7.87 7.87 7.73 7.59 7.46 8.47 7.22 7.77 7.87 7.59

FINAL - 2017 Michitaka Memorial (Osaka, JPN)(2017) - tfd-data-store.com/2017/05/08/post-413/

date 07-May-17 time 2.70 3.81 4.92 5.99 7.07 8.15 9.25 10.35 11.46 12.59 13.80 5 / 5
 reaction time interval 1.11 1.11 1.07 1.08 1.08 1.10 1.10 1.11 1.13 1.21 3.29 3.26 3.34
 wind -0.6 m/s velocity 4.81 7.66 7.66 7.94 7.87 7.87 7.73 7.73 7.66 7.52 8.68 7.25 7.75 7.82 7.63

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 2.73 3.80 4.86 5.91 6.97 8.03 9.09 10.17 11.27 12.39 13.59 9 / 2
 reaction time interval 1.07 1.06 1.05 1.06 1.06 1.06 1.08 1.10 1.12 1.20 3.18 3.18 3.30
 wind -0.2 m/s velocity 4.76 7.94 8.02 8.10 8.02 8.02 8.02 7.87 7.73 7.59 8.75 7.36 8.02 8.02 7.73

Nakao, Ayumi (JPN) (2000)

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)*Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	08-Oct-18	time	2.70	3.82	4.90	5.98	7.05	8.12	9.19	10.25	11.33	12.44		13.63	7 / 4			
reaction time	0.134	interval		1.12	1.08	1.08	1.07	1.07	1.07	1.06	1.08	1.11	1.19			3.28	3.21	3.25
wind	2.5 m/s	velocity	4.81	7.59	7.87	7.87	7.94	7.94	7.94	8.02	7.87	7.66	8.82	7.34		7.77	7.94	7.85

FNAL - 2018 Japanese National High School Championships (Nagoya, JPN)*Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection*

date	02-Aug-18	time	2.76	3.86	4.94	6.03	7.10	8.18	9.27	10.38	11.48	12.61		13.82	8 / 6			
reaction time		interval		1.10	1.08	1.09	1.07	1.08	1.09	1.11	1.10	1.13	1.21			3.27	3.24	3.34
wind	-0.3 m/s	velocity	4.71	7.73	7.87	7.80	7.94	7.87	7.80	7.66	7.73	7.52	8.68	7.24		7.80	7.87	7.63

Nakatsu, Haruha (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 U20 National Championships (Osaka, JPN)***Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	26-Jun-21	time	2.69	3.84	4.96	6.08	7.16	8.25	9.35	10.44	11.58	12.73		13.93	6 / 5			
reaction time	0.148	interval		1.15	1.12	1.12	1.08	1.09	1.10	1.09	1.14	1.15	1.20			3.39	3.27	3.38
wind	0.2 m/s	velocity	4.83	7.39	7.59	7.59	7.87	7.80	7.73	7.80	7.46	7.39	8.38	7.18		7.52	7.80	7.54

Nakatuka, Natsuki (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 - 2017 Mito Invitational (Mito, JPN)***(2017) - tfdata-store.com/2017/05/06/post-423/*

date	05-May-17	time	2.81	3.94	5.09	6.21	7.34	8.49	9.63	10.77	11.95	13.15		14.47	5 / 3			
reaction time		interval		1.13	1.15	1.12	1.13	1.15	1.14	1.14	1.18	1.20	1.32			3.40	3.42	3.52
wind	1.0 m/s	velocity	4.63	7.52	7.39	7.59	7.52	7.39	7.46	7.46	7.20	7.08	7.95	6.91		7.50	7.46	7.24

Heat 1 - 2017 Mito Invitational (Mito, JPN)*(2017) - tfdata-store.com/2017/05/06/post-423/*

date	05-May-17	time	2.80	3.95	5.10	6.23	7.40	8.57	9.76	10.96	12.19	13.43		14.83	4 / 3			
reaction time		interval		1.15	1.15	1.13	1.17	1.17	1.19	1.20	1.23	1.24	1.40			3.43	3.53	3.67
wind	-2.7 m/s	velocity	4.64	7.39	7.39	7.52	7.26	7.26	7.14	7.08	6.91	6.85	7.50	6.74		7.43	7.22	6.95

FINAL - 2016 Japanese National High School Championships (Okayama, CHN)*Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics data*

date	02-Aug-16	time	2.74	3.85	4.96	6.04	7.14	8.24	9.32	10.44	11.55	12.68		13.94	3 / 6			
reaction time	0.171	interval		1.11	1.11	1.08	1.10	1.10	1.08	1.12	1.11	1.13	1.26			3.30	3.28	3.36
wind	1.5 m/s	velocity	4.74	7.66	7.66	7.87	7.73	7.73	7.87	7.59	7.66	7.52	8.33	7.17		7.73	7.77	7.59

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)*Enomoto (2015) - 68th high school championships: JAF scientific committee - biomechanics data*

date	02-Aug-15	time	2.71	3.82	4.92	6.01	7.11	8.21	9.31	10.47	11.63	12.80		14.12	4 / 7			
reaction time		interval		1.11	1.10	1.09	1.10	1.10	1.10	1.16	1.16	1.17	1.32			3.30	3.30	3.49
wind	0.9 m/s	velocity	4.80	7.66	7.73	7.80	7.73	7.73	7.73	7.33	7.33	7.26	7.95	7.08		7.73	7.73	7.31

Nakayama, Riko (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 B - 2016 Japanese Junior Olympics (Yokohama, JPN) (76cm/8.0m)***(2016.10.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	30-Oct-16	time	2.68	3.71	4.74	5.77	6.81	7.85	8.90	9.98	11.06	12.16		14.04	5 / 1			
reaction time		interval		1.03	1.03	1.03	1.04	1.04	1.05	1.08	1.08	1.10	1.88			3.09	3.13	3.26
wind	-1.1 m/s	velocity	4.85	7.77	7.77	7.77	7.69	7.69	7.62	7.41	7.41	7.27	7.98	7.12		7.77	7.67	7.36

Heat 4 B - 2016 Japanese Junior Olympics (Yokohama, JPN) (76cm/8.0m)*(2016.10.29) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	30-Oct-16	time	2.71	3.73	4.74	5.77	6.79	7.82	8.86	9.91	10.98	12.07		13.95	4 / 1			
reaction time		interval		1.02	1.01	1.03	1.02	1.03	1.04	1.05	1.07	1.09	1.88			3.06	3.09	3.21
wind	1.1 m/s	velocity	4.80	7.84	7.92	7.77	7.84	7.77	7.69	7.62	7.48	7.34	7.98	7.17		7.84	7.77	7.48

Nastase, Liliana (ROU) (1962)**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	2.67	3.75	4.83	5.87	6.90	7.95	9.03	10.11	11.23	12.39		13.66	/ 6			
reaction time		interval		1.08	1.08	1.04	1.03	1.05	1.08	1.08	1.12	1.16	1.27			3.20	3.16	3.36
wind	0.7 m/s	velocity	4.87	7.87	7.87	8.17	8.25	8.10	7.87	7.87	7.59	7.33	8.27	7.32		7.97	8.07	7.59

Ndama, Solène (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 Paavo Nurmi Games (Turku, FIN) (TV Analysis)***Henson (2020) - Athlete First: 2020 year end hurdle report*

date	11-Aug-20	time	2.60	3.66	4.70	5.74	6.74	7.74	8.76	9.80	10.86	11.92		13.21	1 / 8			
reaction time	0.161	interval		1.06	1.04	1.04	1.00	1.00	1.02	1.04	1.06	1.06	1.29			3.14	3.02	3.16
wind	1.2 m/s	velocity	5.00	8.02	8.17	8.17	8.50	8.50	8.33	8.17	8.02	8.02	7.79	7.57		8.12	8.44	8.07

Nečinová, Anna (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 - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE)***Feher (2015) - Final report the U18 & U20 Czech Republic indoor national championships*

date	14-Feb-15	time	2.90	4.04	5.18	6.35	7.45							8.98	6 / 4			
reaction time	0.220	interval		1.14	1.14	1.17	1.10						1.53			3.45		
		velocity	4.48	7.46	7.46	7.26	7.73						8.50	6.68		7.39		

Negi, Mariko (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)***Enomoto (2015) - 68th high school championships: JAF scientific committee - biomechanics data*

date	02-Aug-15	time	2.74	3.85	5.00	6.14	7.27	8.39	9.50	10.62	11.76	12.88		14.13	1 / 8			
reaction time		interval		1.11	1.15	1.14	1.13	1.12	1.11	1.12	1.14	1.12	1.25			3.40	3.36	3.38
wind	0.9 m/s	velocity	4.74	7.66	7.39	7.46	7.52	7.59	7.66	7.59	7.46	7.59	8.40	7.08		7.50	7.59	7.54

Nejedlová, Michaela (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)

date	15-Jun-13	time	2.78	3.89	5.02	6.13	7.23	8.39	9.57	10.82	12.01	13.25	14.56	2 / 8			
reaction time	0.162	interval		1.11	1.13	1.11	1.10	1.16	1.18	1.25	1.19	1.24	1.31		3.35	3.44	3.68
wind	0.3 m/s	velocity	4.68	7.66	7.52	7.66	7.73	7.33	7.20	6.80	7.14	6.85	8.02	6.87	7.61	7.41	6.93

*Feher (2013) - Final report from the men's & women's Czech Republic national championships***Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)**

date	15-Jun-13	time	2.81	3.92	5.02	6.11	7.22	8.33	9.45	10.59	11.74	12.89	14.16	6 / 3			
reaction time	0.171	interval		1.11	1.10	1.09	1.11	1.11	1.12	1.14	1.15	1.15	1.27		3.30	3.34	3.44
wind	-0.9 m/s	velocity	4.63	7.66	7.73	7.80	7.66	7.66	7.59	7.46	7.39	7.39	8.27	7.06	7.73	7.63	7.41

*Feher (2013) - Final report from the men's & women's Czech Republic national championships***FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)**

date	25-Feb-12	time	2.75	3.87	4.99	6.12	7.25						8.71	5 / 3			
reaction time	0.127	interval		1.12	1.12	1.13	1.13					1.46			3.37		
		velocity	4.73	7.59	7.59	7.52	7.52					8.90	6.89		7.57		

*Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles***Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)**

date	25-Feb-12	time	2.79	3.92	5.05	6.15	7.26						8.70	5 / 1			
reaction time	0.156	interval		1.13	1.13	1.10	1.11					1.44			3.36		
		velocity	4.66	7.52	7.52	7.73	7.66					9.03	6.90		7.59		

*Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles***Nelvis, Sharika (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 - 2024 Millrose Games (New York, NY) (TV Analysis)																		
date	11-Feb-24	time	2.58	3.62	4.64	5.64	6.64							8.05	2 / 8			
reaction time	0.173	interval	7 steps	1.04	1.02	1.00	1.00						1.41			3.06		
		velocity	5.04	8.17	8.33	8.50	8.50						9.22	7.45		8.33		

*Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record***FINAL - 2023 FBK Games (Hengelo, NED)**

date	04-Jun-23	time	2.49	3.54	4.55	5.55	6.56	7.57	8.59	9.63	10.70	11.80		13.17	9 / 8			
reaction time	0.142	interval	7 steps	1.05	1.01	1.00	1.01	1.01	1.02	1.04	1.07	1.10	1.37			3.06	3.04	3.21
wind	0.2 m/s	velocity	5.22	8.10	8.42	8.50	8.42	8.42	8.33	8.17	7.94	7.73	7.34	7.59		8.33	8.39	7.94

*Omega Timing (2023) - continental tour race analysis***FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)**

date	06-Jul-21	time	2.57	3.60	4.58	5.56	6.52	7.50	8.48	9.50	10.51	11.54		12.80	1 / 4			
reaction time	0.152	interval	7 steps	1.03	0.98	0.98	0.96	0.98	0.98	1.02	1.01	1.03	1.26			2.99	2.92	3.06
wind	0.2 m/s	velocity	5.06	8.25	8.67	8.67	8.85	8.67	8.67	8.33	8.42	8.25	7.98	7.81		8.53	8.73	8.33

*Henson (2021) - Athlete First: 2021 year end hurdle report***Semi Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)**

date	20-Jun-21	time	2.46	3.52	4.50	5.48	6.46	7.44	8.44	9.44	10.46	11.52		12.81	7 / 7			
reaction time	0.160	interval	7 steps	1.06	0.98	0.98	0.98	0.98	1.00	1.00	1.02	1.06	1.29			3.02	2.96	3.08
wind	1.2 m/s	velocity	5.28	8.02	8.67	8.67	8.67	8.67	8.50	8.50	8.33	8.02	7.79	7.81		8.44	8.61	8.28

*Henson (2021) - Athlete First: 2021 year end hurdle report***FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)**

date	19-Aug-20	time	2.50	3.53	4.57	5.54	6.54	7.54	8.57	9.61	10.64	11.67		13.09	4 / 6			
reaction time	0.147	interval	7 steps	1.03	1.04	0.97	1.00	1.00	1.03	1.04	1.03	1.03	1.42			3.04	3.03	3.10
wind	-0.2 m/s	velocity	5.20	8.25	8.17	8.76	8.50	8.50	8.25	8.17	8.25	8.25	7.08	7.64		8.39	8.42	8.23

*Henson (2020) - Athlete First: 2020 year end hurdle report***FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)**

date	10-Sep-19	time	2.53	3.50	4.50	5.46	6.43	7.43	8.43	9.46	10.46	11.53		12.80	7 / 1			
reaction time	0.172	interval		0.97	1.00	0.96	0.97	1.00	1.00	1.03	1.00	1.07	1.27			2.93	2.97	3.10
wind	0.1 m/s	velocity	5.14	8.76	8.50	8.85	8.76	8.50	8.50	8.25	8.50	7.94	8.27	7.81		8.70	8.59	8.23

*Henson (2020) - Athlete First: 2019 year end hurdle report***FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)**

date	06-Sep-19	time	2.50	3.50	4.50	5.50	6.48	7.48	8.48	9.50	10.52	11.52		12.83	8 / 4			
reaction time	0.139	interval		1.00	1.00	1.00	0.98	1.00	1.00	1.02	1.02	1.00	1.31			3.00	2.98	3.04
wind	0.0 m/s	velocity	5.20	8.50	8.50	8.50	8.67	8.50	8.50	8.33	8.33	8.50	8.02	7.79		8.50	8.56	8.39

*Henson (2020) - Athlete First: 2019 year end hurdle report***FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)**

date	27-Jul-19	time	2.47	3.50	4.47	5.47	6.44	7.40	8.37	9.37	10.37	11.41		12.66	1 / 4			
reaction time		interval		1.03	0.97	1.00	0.97	0.96	0.97	1.00	1.00	1.04	1.25			3.00	2.90	3.04
wind	-1.2 m/s	velocity	5.26	8.25	8.76	8.50	8.76	8.85	8.76	8.50	8.50	8.17	8.40	7.90		8.50	8.79	8.39

*Henson (2020) - Athlete First: 2019 year end hurdle report***FINAL - 2019 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)**

date	12-Jul-19	time	2.48	3.52	4.52	5.52	6.50	7.50	8.50	9.54	10.62	11.72		12.98	7 / 7			
reaction time	0.123	interval		1.04	1.00	1.00	0.98	1.00	1.00	1.04	1.08	1.10	1.26			3.04	2.98	3.22
wind	0.1 m/s	velocity	5.24	8.17	8.50	8.50	8.67	8.50	8.50	8.17	7.87	7.73	8.33	7.70		8.39	8.56	7.92

*Henson (2020) - Athlete First: 2019 year end hurdle report***FINAL - 2019 Bislett Games (Oslo, NOR) (TV Analysis)**

date	13-Jun-19	time	2.52	3.54	4.52	5.52	6.50	7.48	8.46	9.46	10.48	11.54		12.74	5 / 2			
reaction time	0.130	interval		1.02	0.98	1.00	0.98	0.98	0.98	1.00	1.02	1.06	1.20			3.00	2.94	3.08
wind	1.1 m/s	velocity	5.16	8.33	8.67	8.50	8.67	8.67	8.67	8.50	8.33	8.02	8.75	7.85		8.50	8.67	8.28

*Henson (2020) - Athlete First: 2019 year end hurdle report***FINAL - 2019 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)**

date	30-May-19	time	2.52	3.48	4.48	5.46	6.44	7.42	8.40	9.40	10.42	11.46		12.69	4 / 2			
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Henson (2020) - Athlete First: 2019 year end hurdle report

reaction time	0.104	interval	0.96	1.00	0.98	0.98	0.98	0.98	1.00	1.02	1.04	1.23		2.94	2.94	3.06	
wind	1.3 m/s	velocity	5.16	8.85	8.50	8.67	8.67	8.67	8.67	8.50	8.33	8.17	8.54	7.88	8.67	8.67	8.33
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)			<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>														
date	19-May-19	time	2.55	3.58	4.58	5.57	6.54	7.52	8.50	9.48	10.50	11.54	12.70	4 / 1			
reaction time	0.178	interval	1.03	1.00	0.99	0.97	0.98	0.98	0.98	1.02	1.04	1.16		3.02	2.93	3.04	
wind	0.4 m/s	velocity	5.10	8.25	8.50	8.59	8.76	8.67	8.67	8.67	8.33	8.17	9.05	7.87	8.44	8.70	8.39
FINAL - 2019 Doha Diamond League (Doha, QAT) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>														
date	03-May-19	time	2.48	3.48	4.48	5.46	6.46	7.46	8.44	9.46	10.48	11.54	12.78	6 / 3			
reaction time	0.139	interval	1.00	1.00	0.98	1.00	1.00	0.98	1.02	1.02	1.06	1.24		2.98	2.98	3.10	
wind	0.9 m/s	velocity	5.24	8.50	8.50	8.67	8.50	8.50	8.67	8.33	8.33	8.02	8.47	7.82	8.56	8.56	8.23
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>														
date	31-Aug-18	time	2.46	3.48	4.48	5.46	6.44	7.40	8.40	9.44	10.48	11.54	12.80	3 / 5			
reaction time	0.142	interval	1.02	1.00	0.98	0.98	0.96	1.00	1.04	1.04	1.06	1.26		3.00	2.94	3.14	
wind	0.1 m/s	velocity	5.28	8.33	8.50	8.67	8.67	8.85	8.50	8.17	8.17	8.02	8.33	7.81	8.50	8.67	8.12
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	2.44	3.44	4.44	5.42	6.38	7.34	8.34	9.30	10.32	11.32	12.51	9 / 3			
reaction time	0.139	interval	1.00	1.00	0.98	0.96	0.96	1.00	0.96	1.02	1.00	1.19		2.98	2.92	2.98	
wind	0.6 m/s	velocity	5.33	8.50	8.50	8.67	8.85	8.85	8.50	8.85	8.33	8.50	8.82	7.99	8.56	8.73	8.56
FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>														
date	13-Jul-18	time	2.44	3.44	4.42	5.40	6.38	7.34	8.32	9.32	10.32	11.32	12.58	6 / 2			
reaction time	0.139	interval	1.00	0.98	0.98	0.98	0.96	0.98	1.00	1.00	1.00	1.26		2.96	2.92	3.00	
wind	0.1 m/s	velocity	5.33	8.50	8.67	8.67	8.67	8.85	8.67	8.50	8.50	8.50	8.33	7.95	8.61	8.73	8.50
FINAL - 2018 USATF National Championships (Des Moines, IA) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>														
date	23-Jun-18	time	2.43	3.43	4.41	5.39	6.37	7.37	8.34	9.31	10.34	11.37	12.68	3 / 3			
reaction time		interval	1.00	0.98	0.98	0.98	1.00	0.97	0.97	1.03	1.03	1.31		2.96	2.95	3.03	
wind	-1.4 m/s	velocity	5.35	8.50	8.67	8.67	8.67	8.50	8.76	8.76	8.25	8.25	8.02	7.89	8.61	8.64	8.42
FINAL - 2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>														
date	31-May-18	time	2.48	3.50	4.48	5.46	6.46	7.46	8.44	9.44	10.46	11.50	12.76	6 / 1			
reaction time	0.138	interval	1.02	0.98	0.98	1.00	1.00	0.98	1.00	1.02	1.04	1.26		2.98	2.98	3.06	
wind	0.0 m/s	velocity	5.24	8.33	8.67	8.67	8.50	8.50	8.67	8.50	8.33	8.17	8.33	7.84	8.56	8.56	8.33
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	2.46	3.44	4.40	5.38	6.34	7.30	8.28	9.26	10.28	11.28	12.52	6 / 2			
reaction time	0.145	interval	0.98	0.96	0.98	0.96	0.96	0.98	0.98	1.02	1.00	1.24		2.92	2.90	3.00	
wind	0.9 m/s	velocity	5.28	8.67	8.85	8.67	8.85	8.85	8.67	8.67	8.33	8.50	8.47	7.99	8.73	8.79	8.50
FINAL - 2018 Doha Diamond League (Doha, QAT) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>														
date	04-May-18	time	2.44	3.44	4.44	5.40	6.38	7.42	8.44	9.44	10.48	11.50	12.75	3 / 3			
reaction time	0.153	interval	1.00	1.00	0.96	0.98	1.04	1.02	1.00	1.04	1.02	1.25		2.96	3.04	3.06	
wind	0.5 m/s	velocity	5.33	8.50	8.50	8.85	8.67	8.17	8.33	8.50	8.17	8.33	8.40	7.84	8.61	8.39	8.33
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)			<i>Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60m Hurdles Women</i>														
date	03-Mar-18	time	2.62	3.65	4.65	5.62	6.58						7.86	3 / 4			
reaction time	0.163	interval	1.03	1.00	0.97	0.96							1.28		3.00		
		velocity	4.96	8.25	8.50	8.76	8.85						10.16	12.72	8.50		
FINAL - 2017 Weltklasse (Zürich, SUI) (TV Analysis)			<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>														
date	24-Aug-17	time	2.50	3.48	4.46	5.44	6.42	7.40	8.38	9.38	10.36	11.38	12.55	5 / 2			
reaction time	0.135	interval	0.98	0.98	0.98	0.98	0.98	0.98	1.00	0.98	1.02	1.17		2.94	2.94	3.00	
wind	-0.3 m/s	velocity	5.20	8.67	8.67	8.67	8.67	8.67	8.67	8.50	8.67	8.33	8.97	7.97	8.67	8.67	8.50
FINAL - 2017 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)			<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>														
date	21-Jul-17	time	2.50	3.50	4.48	5.46	6.42	7.38	8.36	9.34	10.34	11.38	12.52	7 / 2			
reaction time	0.146	interval	1.00	0.98	0.98	0.96	0.96	0.98	0.98	1.00	1.04	1.14		2.96	2.90	3.02	
wind	-0.2 m/s	velocity	5.20	8.50	8.67	8.67	8.85	8.85	8.67	8.67	8.50	8.17	9.21	7.99	8.61	8.79	8.44
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	2.50	3.52	4.50	5.48	6.44	7.42	8.38	9.40	10.40	11.42	12.62	8 / 3			
reaction time	0.144	interval	7 steps	1.02	0.98	0.98	0.96	0.98	0.96	1.02	1.00	1.02	1.20		2.98	2.90	3.04
wind	0.2 m/s	velocity	5.20	8.33	8.67	8.67	8.85	8.67	8.85	8.33	8.50	8.33	8.75	7.92	8.56	8.79	8.39
FINAL - 2017 Athletissima (Lausanne, SUI) (TV Analysis)			<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>														
date	06-Jul-17	time	2.46	3.46	4.44	5.41	6.37	7.33	8.30	9.30	10.30	11.30	12.53	6 / 1			
reaction time	0.129	interval	7 Steps	1.00	0.98	0.97	0.96	0.96	0.97	1.00	1.00	1.00	1.23		2.95	2.89	3.00
wind	-0.1 m/s	velocity	5.28	8.50	8.67	8.76	8.85	8.85	8.76	8.50	8.50	8.50	8.54	7.98	8.64	8.82	8.50

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	3.52	4.52	5.50	6.46	7.44	8.42	9.42	10.42	11.44	12.69	1 / 3			
reaction time	0.160	interval	7 steps	1.04	1.00	0.98	0.96	0.98	0.98	1.00	1.00	1.02	1.25		3.02	2.92	3.02
wind	0.1 m/s	velocity	5.24	8.17	8.50	8.67	8.85	8.67	8.67	8.50	8.50	8.33	8.40	7.88	8.44	8.73	8.44

FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	27-May-17	time	2.52	3.56	4.56	5.54	6.52	7.50	8.48	9.46	10.46	11.46	12.68	4 / 5			
reaction time	0.187	interval	7 steps	1.04	1.00	0.98	0.98	0.98	0.98	0.98	1.00	1.00	1.22		3.02	2.94	2.98
wind	0.8 m/s	velocity	5.16	8.17	8.50	8.67	8.67	8.67	8.67	8.67	8.50	8.50	8.61	7.89	8.44	8.67	8.56

FINAL - 2017 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	05-May-17	time	2.52	3.58	4.62	5.62	6.64	7.64	8.64	9.64	10.66	11.70	12.91	2 / 3			
reaction time	0.142	interval	7 steps	1.06	1.04	1.00	1.02	1.00	1.00	1.00	1.02	1.04	1.21		3.10	3.02	3.06
wind	-2.3 m/s	velocity	5.16	8.02	8.17	8.50	8.33	8.50	8.50	8.50	8.33	8.17	8.68	7.75	8.23	8.44	8.33

FINAL - 2016 Athletissima (Luasanne, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	25-Aug-16	time	2.48	3.50	4.52	5.52	6.52	7.54	8.56	9.56	10.62	11.66	12.88	4 / 5			
reaction time	0.137	interval	7 steps	1.02	1.02	1.00	1.00	1.02	1.02	1.00	1.06	1.04	1.22		3.04	3.04	3.10
wind	0.7 m/s	velocity	5.24	8.33	8.33	8.50	8.50	8.33	8.33	8.50	8.02	8.17	8.61	7.76	8.39	8.39	8.23

FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	08-Jul-16	time	2.50	3.52	4.50	5.50	6.47	7.41	8.37	9.34	10.37	11.37	12.60	8 / 5			
reaction time	0.159	interval	7 Steps	1.02	0.98	1.00	0.97	0.94	0.96	0.97	1.03	1.00	1.23		3.00	2.87	3.00
wind	1.2 m/s	velocity	5.20	8.33	8.67	8.50	8.76	9.04	8.85	8.76	8.25	8.50	8.54	7.94	8.50	8.89	8.50

FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	28-May-16	time	2.44	3.46	4.50	5.48	6.48	7.48	8.48	9.48	10.52	11.56	12.82	5 / 5			
reaction time		interval	7 steps	1.02	1.04	0.98	1.00	1.00	1.00	1.00	1.04	1.04	1.26		3.04	3.00	3.08
wind	0.7 m/s	velocity	5.33	8.33	8.17	8.67	8.50	8.50	8.50	8.50	8.17	8.17	8.33	7.80	8.39	8.50	8.28

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

date	28-Aug-15	time	2.52	3.56	4.56	5.56	6.52	7.50	8.48	9.46	10.46	11.58	13.06	6 / 8			
reaction time	0.168	interval	7 steps	1.04	1.00	1.00	0.96	0.98	0.98	0.98	1.00	1.12	1.48		3.04	2.92	3.10
wind	-0.3 m/s	velocity	5.16	8.17	8.50	8.50	8.85	8.67	8.67	8.67	8.50	7.59	7.09	7.66	8.39	8.73	8.23

Nemčėková, Nikola (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) (76cm)***Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.88	4.05	5.23	6.43	7.65	8.85	10.07	11.32	12.60	13.90	15.33	3 / 4			
reaction time	0.179	interval		1.17	1.18	1.20	1.22	1.20	1.22	1.25	1.28	1.30	1.43		3.55	3.64	3.83
wind	-1.8 m/s	velocity	4.51	7.26	7.20	7.08	6.97	7.08	6.97	6.80	6.64	6.54	7.34	6.52	7.18	7.01	6.66

Nemes, Rita (HUN) (1989)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.65	3.78	4.88	5.96	7.02	8.09	9.17	10.25	11.35	12.46	13.82	4 / 7			
reaction time	0.193	interval		1.13	1.10	1.08	1.06	1.07	1.08	1.08	1.10	1.11	1.36		3.31	3.21	3.29
wind	0.0 m/s	velocity	4.91	7.52	7.73	7.87	8.02	7.94	7.87	7.87	7.73	7.66	7.39	7.24	7.70	7.94	7.75

Heptathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2024) - Athlete First: 2023 year end hurdle report*

date	19-Aug-23	time	2.70	3.76	4.82	5.88	6.92	7.98	9.08	10.14	11.25	12.35	13.63	8 / 6			
reaction time	0.162	interval		1.06	1.06	1.06	1.04	1.06	1.10	1.06	1.11	1.10	1.28		3.18	3.20	3.27
wind	-0.2 m/s	velocity	4.81	8.02	8.02	8.02	8.17	8.02	7.73	8.02	7.66	7.73	7.85	7.34	8.02	7.97	7.80

Newton-Smith, Camryn (AUS) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.48	3.56	4.60	5.65	6.70	7.75	8.83	9.91	11.00	12.11	13.46	2 / 3			
reaction time	0.145	interval		1.08	1.04	1.05	1.05	1.08	1.08	1.08	1.09	1.11	1.35		3.17	3.18	3.28
wind	0.0 m/s	velocity	5.24	7.87	8.17	8.10	8.10	8.10	7.87	7.87	7.80	7.66	7.44	7.43	8.04	8.02	7.77

Neziri, Nooralotta (FIN) (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 European Indoor Championships (Toruń, POL) (TV Analysis)***Henson (2021) - Athlete First: 2021 year end hurdle report*

date	07-Mar-21	time	2.48	3.52	4.52	5.50	6.48						7.93	3 / 4			
reaction time	0.133	interval		1.04	1.00	0.98	0.98						1.45		3.02		
		velocity	5.24	8.17	8.50	8.67	8.67						8.97	7.57	8.44		

FINAL - 2020 Finnish National Championships (Turku, FIN) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	14-Aug-20	time	2.56	3.66	4.66	5.66	6.66	7.66	8.70	9.70	10.70	11.76	13.01	6 / 2			
reaction time	0.177	interval		1.10	1.00	1.00	1.00	1.00	1.04	1.00	1.00	1.06	1.25		3.10	3.04	3.06
wind	1.0 m/s	velocity	5.08	7.73	8.50	8.50	8.50	8.50	8.17	8.50	8.50	8.02	8.04	7.69	8.23	8.39	8.33

FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	11-Aug-20	time	2.58	3.62	4.64	5.64	6.66	7.66	8.66	9.70	10.74	11.78	13.00	5 / 5			
reaction time	0.171	interval		1.04	1.02	1.00	1.02	1.00	1.00	1.04	1.04	1.04	1.22		3.06	3.02	3.12
wind	1.2 m/s	velocity	5.04	8.17	8.33	8.50	8.33	8.50	8.50	8.17	8.17	8.17	8.24	7.69	8.33	8.44	8.17

FINAL - 2020 Motonet GP (Jyräskylä, FIN) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	08-Jul-20	time	2.60	3.63	4.66	5.66	6.63	7.63	8.63	9.63	10.66	11.73	12.95	5 / 3			
reaction time		interval		1.03	1.03	1.00	0.97	1.00	1.00	1.00	1.03	1.07	1.22		3.06	2.97	3.10
wind	0.7 m/s	velocity	5.00	8.25	8.25	8.50	8.76	8.50	8.50	8.50	8.25	7.94	8.24	7.72	8.33	8.59	8.23

Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	06-Oct-19	time	2.44	3.46	4.46	5.46	6.44	7.42	8.42	9.44	10.46	11.50	12.89	2 / 5			
reaction time	0.155	interval		1.02	1.00	1.00	0.98	0.98	1.00	1.02	1.02	1.04	1.39		3.02	2.96	3.08
wind	0.8 m/s	velocity	5.33	8.33	8.50	8.50	8.67	8.67	8.50	8.33	8.33	8.17	7.23	7.76	8.44	8.61	8.28

FINAL - 2019 Bislett Games (Oslo, NOR) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	13-Jun-19	time	2.62	3.68	4.72	5.76	6.76	7.80	8.84	9.88	10.92	11.98	13.18	8 / 7			
reaction time	0.152	interval		1.06	1.04	1.04	1.00	1.04	1.04	1.04	1.04	1.06	1.20		3.14	3.08	3.14
wind	1.1 m/s	velocity	4.96	8.02	8.17	8.17	8.50	8.17	8.17	8.17	8.17	8.02	8.75	7.59	8.12	8.28	8.12

FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)*Henson (2021) - Athlete First: 2016 year end hurdle report*

date	09-Sep-16	time	2.58	3.60	4.58	5.58	6.58	7.58	8.58	9.60	10.62	11.70	12.94	8 / 5			
reaction time	0.146	interval		1.02	0.98	1.00	1.00	1.00	1.00	1.02	1.02	1.08	1.24		3.00	3.00	3.12
wind	0.1 m/s	velocity	5.04	8.33	8.67	8.50	8.50	8.50	8.50	8.33	8.33	7.87	8.47	7.73	8.50	8.50	8.17

FINAL - 2013 Windsprint (Sundsvall, SWE)*(2013) - www.ssg.se/windsprint/Splittider/*

date	28-Jul-13	time	2.71	3.77	4.81	5.82	6.83	7.84	8.85	9.87	10.90	11.94	13.10	3 / 1				
reaction time		interval		1.06	1.04	1.01	1.01	1.01	1.01	1.02	1.03	1.04	1.16		NR	3.11	3.03	3.09
wind	1.2 m/s	velocity	4.80	8.02	8.17	8.42	8.42	8.42	8.42	8.33	8.25	8.17	9.05	7.63	8.20	8.42	8.25	

FINAL - 2013 European Indoor Championships (Göteborg, SWE)*Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx*

date	01-Mar-13	time	2.65	3.74	4.78	5.79	6.80						8.19	1 / 2 7			
reaction time	0.143	interval		1.09	1.04	1.01	1.01						1.39		3.14		
		velocity	4.91	7.80	8.17	8.42	8.42						9.35	7.33	8.12		

FINAL - 2011 Landskamp FIN-SWE-NOR (Tammefors, FIN)*Blomkvist (2011) - www.sub13.se*

date	05-Feb-11	time	2.54	3.64	4.68	5.74	6.80						8.32	1 / 3			
reaction time		interval		1.10	1.04	1.06	1.06						1.52		3.20		
		velocity	5.12	7.73	8.17	8.02	8.02						8.55	7.21	7.97		

Niao Juxiu (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	15-Sep-20	time	2.72	3.80	4.87	5.95	7.02	8.09	9.18	10.28	11.41	12.54	13.76	8 / 5			
reaction time	0.169	interval		1.08	1.07	1.08	1.07	1.07	1.09	1.10	1.13	1.13	1.22		3.23	3.23	3.36
wind	-0.6 m/s	velocity	4.78	7.87	7.94	7.87	7.94	7.94	7.80	7.73	7.52	7.52	8.24	7.27	7.89	7.89	7.59

Nihonmatsu, Yui (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) (76cm)***(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.66	3.77	4.86	5.93	7.01	8.10	9.19	10.29	11.40	12.55	13.84	6 / 3			
reaction time		interval		1.11	1.09	1.07	1.08	1.09	1.09	1.10	1.11	1.15	1.29		3.27	3.26	3.36
wind	1.2 m/s	velocity	4.89	7.21	7.34	7.48	7.41	7.34	7.34	7.27	7.21	6.96	11.63	7.23	7.34	7.36	7.14

Heat 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)*(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.66	3.79	4.88	5.95	7.03	8.10	9.18	10.27	11.39	12.52	13.82	6 / 2			
reaction time		interval		1.13	1.09	1.07	1.08	1.07	1.08	1.09	1.12	1.13	1.30		3.29	3.23	3.34
wind	1.6 m/s	velocity	4.89	7.08	7.34	7.48	7.41	7.48	7.41	7.34	7.14	7.08	11.54	7.24	7.29	7.43	7.19

Nishijima, Mai (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)***Shibayama (2021) - national high school and U20 national championships*

date	01-Aug-21	time	2.65	3.76	4.83	5.91	7.00	8.09	9.20	10.33	11.46	12.61	13.88	2 / 8			
reaction time	0.137	interval		1.11	1.07	1.08	1.09	1.09	1.11	1.13	1.13	1.15	1.27		3.26	3.29	3.41
wind	1.8 m/s	velocity	4.91	7.66	7.94	7.87	7.80	7.80	7.66	7.52	7.52	7.39	7.91	7.20	7.82	7.75	7.48

Nishikiori, Reina (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	2.93	4.18	5.47	6.78	8.12	9.48	10.85	12.28	13.77	15.32	17.43	7 / 5			
reaction time		interval		1.25	1.29	1.31	1.34	1.36	1.37	1.43	1.49	1.55	2.11		3.85	4.07	4.47
wind	0.4 m/s	velocity	4.44	6.80	6.59	6.49	6.34	6.25	6.20	5.94	5.70	5.48	4.76	5.74	6.62	6.27	5.70

Nishimura, Kaho (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)***Kota (2017) - 70th high school championships: JAF scientific committee- biomechanics data*

date	02-Aug-17	time	2.73	3.89	5.85	6.90	7.93	8.37	9.52	10.66	11.80	12.97	14.18	4 / 5			
reaction time	0.146	interval		1.16	1.96	1.05	1.03	0.44	1.15	1.14	1.14	1.17	1.21		4.17	2.62	3.45
wind	-2.9 m/s	velocity	4.76	7.33	4.34	8.10	8.25	19.32	7.39	7.46	7.46	7.26	8.68	7.05	6.12	9.73	7.39

Nomura, Mitsuki (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	2.75	3.87	4.98	6.08	7.17	8.26	9.36	10.46	11.59	12.75		13.96	9 / 6				
reaction time	0.217	interval		1.12	1.11	1.10	1.09	1.09	1.10	1.10	1.13	1.16	1.21				3.33	3.28	3.39
wind	0.8 m/s	velocity	4.73	7.59	7.66	7.73	7.80	7.80	7.73	7.73	7.52	7.33	8.31	7.16			7.66	7.77	7.52
Nomura, Yuka (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 - 2018 Japanese National Championships (Yamaguchi, JPN)													<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>						
date	24-Jun-18	time	2.63	3.70	4.76	5.83	6.90	7.95	9.03	10.11	11.19	12.31		13.51	3 / 5				
reaction time	0.174	interval		1.07	1.06	1.07	1.07	1.05	1.08	1.08	1.08	1.12	1.20				3.20	3.20	3.28
wind	1.1 m/s	velocity	4.94	7.94	8.02	7.94	7.94	8.10	7.87	7.87	7.87	7.59	8.75	7.40			7.97	7.97	7.77
FINAL - 2017 Japanese National Championships (Osaka, JPN)													<i>(2017) - tfdata-store.com/2017/07/19/post-1068/</i>						
date	25-Jun-17	time	2.61	3.68	4.73	5.79	6.83	7.88	8.95	10.04	11.15	12.27		13.49	8 / 5				
reaction time	0.146	interval		1.07	1.05	1.06	1.04	1.05	1.07	1.09	1.11	1.12	1.22				3.18	3.16	3.32
wind	0.4 m/s	velocity	4.98	7.94	8.10	8.02	8.17	8.10	7.94	7.80	7.66	7.59	8.61	7.41			8.02	8.07	7.68
FINAL - 2017 Fuse Sprint (Tottori, JPN)													<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>						
date	04-Jun-17	time	2.63	3.73	4.83	5.90	6.98	8.06	9.14	10.25	11.38	12.53		13.78	3 / 7				
reaction time		interval		1.10	1.10	1.07	1.08	1.08	1.08	1.11	1.13	1.15	1.25				3.27	3.24	3.39
wind	3.7 m/s	velocity	4.94	7.73	7.73	7.94	7.87	7.87	7.87	7.66	7.52	7.39	8.40	7.26			7.80	7.87	7.52
Heat 3 - 2017 Fuse Sprint (Tottori, JPN)													<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>						
date	04-Jun-17	time	2.64	3.76	4.87	5.95	7.03	8.12	9.22	10.34	11.49	12.65		13.91	9 / 6				
reaction time		interval		1.12	1.11	1.08	1.08	1.09	1.10	1.12	1.15	1.16	1.26				3.31	3.27	3.43
wind	1.3 m/s	velocity	4.92	7.59	7.66	7.87	7.87	7.80	7.73	7.59	7.39	7.33	8.33	7.19			7.70	7.80	7.43
Nováčková, Olga (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 3 - 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	3.00	4.22	5.47	6.71	7.93	9.19	10.47	11.78				15.72	7 / 5				
reaction time	0.176	interval		1.22	1.25	1.24	1.22	1.26	1.28	1.31							3.71	3.76	
wind	-1.8 m/s	velocity	4.33	6.97	6.80	6.85	6.97	6.75	6.64	6.49				6.36			6.87	6.78	
Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)													<i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>						
date	25-Feb-12	time	2.92	4.15	5.41	6.65	7.90							9.55	8 / 7				
reaction time	0.156	interval		1.23	1.26	1.24	1.25							1.65			3.73		
		velocity	4.45	6.91	6.75	6.85	6.80							7.88			6.28		
Nugent, Ackera (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 Memorial van damme (Brussels, BEL)													<i>Omega Timing (2024) - diamond league race analysis</i>						
date	14-Sep-24	time	2.60	3.58	4.56	5.51	6.47	7.42	8.39	9.39	10.39	11.42		12.55	5 / 3				
reaction time	0.130	interval		0.98	0.98	0.95	0.96	0.95	0.97	1.00	1.00	1.03	1.13				2.91	2.88	3.03
wind	0.4 m/s	velocity	5.00	8.67	8.67	8.95	8.85	8.95	8.76	8.50	8.50	8.25	8.89	7.97			8.76	8.85	8.42
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)													<i>Omega Timing (2024) - diamond league race analysis</i>						
date	30-Aug-24	time	2.40	3.42	4.37	5.31	6.27	7.21	8.16	9.12	10.08	11.06		12.24	7 / 1				
reaction time	0.153	interval		1.02	0.95	0.94	0.96	0.94	0.95	0.96	0.96	0.98	1.18	NR PB			2.91	2.85	2.90
wind	-0.4 m/s	velocity	5.42	8.33	8.95	9.04	8.85	9.04	8.95	8.85	8.85	8.67	8.52	8.17			8.76	8.95	8.79
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2024) - diamond league race analysis</i>						
date	25-Aug-24	time	2.40	3.42	4.38	5.32	6.25	7.17	8.13	9.11	10.10	11.08		12.29	5 / 1				
reaction time	0.147	interval		1.02	0.96	0.94	0.93	0.92	0.96	0.98	0.99	0.98	1.21				2.92	2.81	2.95
wind	-0.5 m/s	velocity	5.42	8.33	8.85	9.04	9.14	9.24	8.85	8.67	8.59	8.67	8.31	8.14			8.73	9.07	8.64
Heat B - 2024 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2024) - diamond league race analysis</i>						
date	25-Aug-24	time	2.39	3.40	4.35	5.30	6.24	7.21	8.16	9.12	10.09	11.08		12.30	3 / 1				
reaction time	0.140	interval		1.01	0.95	0.95	0.94	0.97	0.95	0.96	0.97	0.99	1.22				2.91	2.86	2.92
wind	0.6 m/s	velocity	5.44	8.42	8.95	8.95	9.04	8.76	8.95	8.85	8.76	8.59	8.24	8.13			8.76	8.92	8.73
FINAL - 2024 Athletissima (Lausanne, SU1)													<i>Omega Timing (2024) - diamond league race analysis</i>						
date	22-Aug-24	time	2.44	3.47	4.45	5.40	6.36	7.31	8.26	9.22	10.19	11.19		12.38	8 / 3				
reaction time	0.159	interval		1.03	0.98	0.95	0.96	0.95	0.95	0.96	0.97	1.00	1.19				2.96	2.86	2.93
wind	-0.9 m/s	velocity	5.33	8.25	8.67	8.95	8.85	8.95	8.95	8.85	8.76	8.50	8.45	8.08			8.61	8.92	8.70
FINAL - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>						
date	10-Aug-24	time	2.39	3.50	4.59	5.59	6.56	7.51	8.48					dnf	9 / 8				
reaction time	0.138	interval		1.11	1.09	1.00	0.97	0.95	0.97								3.20	2.89	
wind	-0.3 m/s	velocity	5.44	7.66	7.80	8.50	8.76	8.95	8.76								7.97	8.82	
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>						
date	09-Aug-24	time	2.41	3.46	4.45	5.41	6.37	7.34	8.31	9.28	10.25	11.23		12.44	4 / 3				
reaction time	0.142	interval		1.05	0.99	0.96	0.96	0.97	0.97	0.97	0.97	0.98	1.21				3.00	2.90	2.92
wind	-0.7 m/s	velocity	5.39	8.10	8.59	8.85	8.85	8.76	8.76	8.76	8.76	8.67	8.31	8.04			8.50	8.79	8.73
Heat 5 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>						

date	07-Aug-24	time	2.41	3.47	4.47	5.44	6.41	7.37	8.35	9.34	10.38	11.41		12.65	3 / 1			
reaction time	0.128	interval		1.06	1.00	0.97	0.97	0.96	0.98	0.99	1.04	1.03	1.24			3.03	2.91	3.06
wind	-0.6 m/s	velocity	5.39	8.02	8.50	8.76	8.76	8.85	8.67	8.59	8.17	8.25	8.10	7.91		8.42	8.76	8.33
FINAL - 2024 Jamaican National Senior Championships (Kingston, JAM) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	28-Jun-24	time	2.53	3.53	4.50	5.47	6.41	7.35	8.30	9.27	10.24	11.22		12.28	3 / 1			
reaction time	0.145	interval		1.00	0.97	0.97	0.94	0.94	0.95	0.97	0.97	0.98	1.06	NR PB		2.94	2.83	2.92
wind	0.1 m/s	velocity	5.14	8.50	8.76	8.76	9.04	9.04	8.95	8.76	8.76	8.67	9.48	8.14		8.67	9.01	8.73
FINAL - 2024 Millrose Games (New York, NY) (TV Analysis)														<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>				
date	11-Feb-24	time	2.52	3.52	4.52	5.50	6.46							7.80	7 / 4			
reaction time	0.168	interval		1.00	1.00	0.98	0.96						1.34			2.98		
		velocity	5.16	8.50	8.50	8.67	8.85						9.70	7.69		8.56		
FINAL - 2023 World Athletics Championships (Budapest, HUN)														<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>				
date	24-Aug-23	time	2.57	3.57	4.56	5.53	6.49	7.46	8.43	9.42	10.46	11.49		12.61	8 / 5			
reaction time	0.135	interval		1.00	0.99	0.97	0.96	0.97	0.97	0.99	1.04	1.03	1.12			2.96	2.90	3.06
wind	-0.2 m/s	velocity	5.06	8.50	8.59	8.76	8.85	8.76	8.76	8.59	8.17	8.25	8.97	7.93		8.61	8.79	8.33
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	23-Aug-23	time	2.50	3.50	4.48	5.45	6.42	7.38	8.36	9.32	10.32	11.40		12.60	5 / 2			
reaction time	0.130	interval		1.00	0.98	0.97	0.97	0.96	0.98	0.96	1.00	1.08	1.20			2.95	2.91	3.04
wind	-0.7 m/s	velocity	5.20	8.50	8.67	8.76	8.76	8.85	8.67	8.85	8.50	7.87	8.38	7.94		8.64	8.76	8.39
Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	22-Aug-23	time	2.54	3.55	4.50	5.46	6.42	7.42	8.40	9.42	10.43	11.46		12.60	7 / 1			
reaction time	0.134	interval		1.01	0.95	0.96	0.96	1.00	0.98	1.02	1.01	1.03	1.14			2.92	2.94	3.06
wind	0.1 m/s	velocity	5.12	8.42	8.95	8.85	8.85	8.50	8.67	8.33	8.42	8.25	8.82	7.94		8.73	8.67	8.33
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	10-Jun-23	time	2.44	3.42	4.39	5.32	6.27	7.20	8.15	9.10	10.09	11.08		12.25	6 / 1			
reaction time		interval		0.98	0.97	0.93	0.95	0.93	0.95	0.95	0.99	0.99	1.17			2.88	2.83	2.93
wind	3.8 m/s	velocity	5.33	8.67	8.76	9.14	8.95	9.14	8.95	8.95	8.59	8.59	8.59	8.16		8.85	9.01	8.70
University FINAL - 2022 Texas Relays (Austin, TX) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	26-Mar-22	time	2.50	3.53	4.53	5.50	6.47	7.43	8.40	9.40	10.43	11.46		12.72	6 / 3			
reaction time		interval		1.03	1.00	0.97	0.97	0.96	0.97	1.00	1.03	1.03	1.26			3.00	2.90	3.06
wind	2.5 m/s	velocity	5.20	8.25	8.50	8.76	8.76	8.85	8.76	8.50	8.25	8.25	7.98	7.86		8.50	8.79	8.33
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	12-Jun-21	time	2.53	3.57	4.58	5.57	6.56	7.54	8.54	9.56	10.58	11.66		12.84	4 / 3			
reaction time	0.148	interval		1.04	1.01	0.99	0.99	0.98	1.00	1.02	1.02	1.08	1.18			3.04	2.97	3.12
wind	0.4 m/s	velocity	5.14	8.17	8.42	8.59	8.59	8.67	8.50	8.33	8.33	7.87	8.52	7.79		8.39	8.59	8.17
Nunn-Cearns, Glynis (AUS) (1960)																		
Semi-Final 2 - 1983 IAAF World Championships (Helsinki, FIN)														<i>Knobe (1984) - the hurdles</i>				
date	13-Aug-83	time	2.61	3.75	4.75	5.79	6.88	7.89	8.92	9.95	11.00	12.10		13.39	6 / 8			
reaction time		interval		1.14	1.00	1.04	1.09	1.01	1.03	1.03	1.05	1.10	1.29			3.18	3.13	3.18
wind	1.6 m/s	velocity	4.98	7.46	8.50	8.17	7.80	8.42	8.25	8.25	8.10	7.73	8.14	7.47		8.02	8.15	8.02
Quarter-Final 1 - 1983 IAAF World Championships (Helsinki, FIN)														<i>Knobe (1984) - the hurdles</i>				
date	12-Aug-83	time	2.81	3.83	4.93	5.96	6.93	7.97	8.95	9.47	10.98	12.08		13.23	/ 3			
reaction time		interval		1.02	1.10	1.03	0.97	1.04	0.98	0.52	1.51	1.10	1.15			3.15	2.99	3.13
wind	1.4 m/s	velocity	4.63	8.33	7.73	8.25	8.76	8.17	8.67	16.35	5.63	7.73	9.13	7.56		8.10	8.53	8.15
Nytra, Carolin (GER) (1985)																		
FINAL - 2010 European Championships (Barcelona, ESP)														<i>Graubner (2010) - http://www.fgs.uni-halle.de</i>				
date	31-Jul-10	time	2.59	3.61	4.61	5.60	6.58	7.55	8.54	9.55	10.57	11.61		12.68	6 / 3			
reaction time	0.177	interval		1.02	1.00	0.99	0.98	0.97	0.99	1.01	1.02	1.04	1.07			3.01	2.94	3.07
wind	-0.5 m/s	velocity	5.02	8.33	8.50	8.59	8.67	8.76	8.59	8.42	8.33	8.17	9.81	7.89		8.47	8.67	8.31
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	19-Aug-09	time	2.62	3.65	4.66	5.66	6.66	7.69	8.71	9.74	10.78	11.82		12.94	8 / 5			
reaction time	0.149	interval		1.03	1.01	1.00	1.00	1.03	1.02	1.03	1.04	1.04	1.12			3.04	3.05	3.11
wind	0.3 m/s	velocity	4.96	8.25	8.42	8.50	8.50	8.25	8.33	8.25	8.17	8.17	9.38	7.73		8.39	8.36	8.20
Heat 2 - 2009 IAAF World Championships (Berlin, GER)														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	18-Aug-09	time	2.63	3.65	4.65	5.67	6.67	7.69	8.72	9.77	10.82	11.89		13.03	5 / 3			
reaction time	0.148	interval		1.02	1.00	1.02	1.00	1.02	1.03	1.05	1.05	1.07	1.14			3.04	3.05	3.17
wind	-0.3 m/s	velocity	4.94	8.33	8.50	8.33	8.50	8.33	8.25	8.10	8.10	7.94	9.21	7.67		8.39	8.36	8.04
FINAL - 2009 ISTAF (Berlin, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	14-Jun-09	time	2.67	3.69	4.72	5.73	6.76	7.79	8.81	9.85	10.89	11.95		13.01	/ 4			

reaction time	0.201	interval	1.02	1.03	1.01	1.03	1.03	1.02	1.04	1.04	1.06	1.06		3.06	3.08	3.14	
wind	-0.1 m/s	velocity	4.87	8.33	8.25	8.42	8.25	8.25	8.33	8.17	8.17	8.02	9.91	7.69	8.33	8.28	8.12

Semi-Final 1 - 2008 Olympic Games (Beijing, CHN)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	18-Aug-08	time	2.60	3.63	4.66	5.67	6.68	7.70	8.73	9.75	10.79	11.87	12.99	2 / Z 6			
reaction time	0.144	interval	1.03	1.03	1.01	1.01	1.02	1.03	1.02	1.04	1.08	1.12			3.07	3.06	3.14
wind	0.2 m/s	velocity	5.00	8.25	8.25	8.42	8.42	8.33	8.25	8.33	8.17	7.87	9.37	7.70	8.31	8.33	8.12

Obayashi, Risako (JPN)**FINAL - 2018 Shimane High School Championships (Izumo, JPN)** *Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis*

date	27-May-18	time	2.93	4.23	5.48	6.75	8.05	9.35	10.67	12.02	13.40	14.80	16.32	7 / 5			
reaction time		interval	1.30	1.25	1.27	1.30	1.30	1.32	1.35	1.38	1.40	1.52			3.82	3.92	4.13
wind	1.2 m/s	velocity	4.44	6.54	6.80	6.69	6.54	6.54	6.44	6.30	6.16	6.07	6.61	6.13	6.68	6.51	6.17

FINAL - 2017 Shimane High School Championships (Izumo, JPN)*Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis*

date	28-May-17	time	2.83	4.03	5.27	6.53	7.83	9.13	10.47	11.77	13.10	14.50	16.10	8 / 4			
reaction time		interval	1.20	1.24	1.26	1.30	1.30	1.34	1.30	1.33	1.40	1.60			3.70	3.94	4.03
wind	2.6 m/s	velocity	4.59	7.08	6.85	6.75	6.54	6.54	6.34	6.54	6.39	6.07	6.28	6.21	6.89	6.47	6.33

O'Connor, Kate (IRL) (2000)**Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)** *Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.63	3.80	4.91	6.01	7.10	8.22	9.33	10.44	11.57	12.71	14.08	7 / 7			
reaction time	0.137	interval	1.17	1.11	1.10	1.09	1.12	1.11	1.11	1.13	1.14	1.37			3.38	3.32	3.38
wind	0.1 m/s	velocity	4.94	7.26	7.66	7.73	7.80	7.59	7.66	7.66	7.52	7.46	7.34	7.10	7.54	7.68	7.54

Heptathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2024) - Athlete First: 2023 year end hurdle report*

date	19-Aug-23	time	2.76	3.86	4.92	5.95	7.02	8.08	9.14	10.22	11.28	12.38	13.57	7 / 3			
reaction time	0.167	interval	1.10	1.06	1.03	1.07	1.06	1.06	1.08	1.06	1.10	1.19	PB		3.19	3.19	3.24
wind	-1.1 m/s	velocity	4.71	7.73	8.02	8.25	7.94	8.02	8.02	7.87	8.02	7.73	8.45	7.37	7.99	7.99	7.87

O'Dowda, Jade (GBR) (1999)**Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)** *Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.59	3.71	4.77	5.81	6.86	7.92	8.99	10.05	11.13	12.22	13.53	3 / 3			
reaction time	0.200	interval	1.12	1.06	1.04	1.05	1.06	1.07	1.06	1.08	1.09	1.31			3.22	3.18	3.23
wind	0.1 m/s	velocity	5.02	7.59	8.02	8.17	8.10	8.02	7.94	8.02	7.87	7.80	7.67	7.39	7.92	8.02	7.89

Odama, Karin (JPN) (1999)**Heptathlon - Heat 2 - 2023 Japanese Multi-Event National Championships (Akita, JPN)** *Matsubayashi (2024) - performance analysis of heptathlon athletes in the 2023 season*

date	10-Jun-23	time	2.77	3.86	4.94	6.03	7.11	8.18	9.26	10.36	11.49	12.64	13.89	9 / 2			
reaction time		interval	1.09	1.08	1.09	1.08	1.07	1.08	1.08	1.10	1.13	1.15	1.25		3.26	3.23	3.38
wind	-0.3 m/s	velocity	4.69	7.80	7.87	7.80	7.87	7.94	7.87	7.73	7.52	7.39	8.04	7.20	7.82	7.89	7.54

Heptathlon - Heat 2 - 2023 Michitaka Kinami Memorial (Osaka, JPN)*Matsubayashi (2024) - performance analysis of heptathlon athletes in the 2023 season*

date	06-May-23	time	2.84	3.92	4.99	6.05	7.11	8.19	9.27	10.36	11.47	12.60	13.84	6 / 3			
reaction time	0.249	interval	1.08	1.07	1.06	1.06	1.08	1.08	1.09	1.11	1.13	1.24			3.21	3.22	3.33
wind	-0.3 m/s	velocity	4.58	7.87	7.94	8.02	8.02	7.87	7.87	7.80	7.66	7.52	8.10	7.23	7.94	7.92	7.66

Heptathlon - Heat 3 - 2022 Japanese Multi-Event National Championships (Akita, JPN)*Takefu (2023) - performance analysis of heptathletes in the 2022 season*

date	04-Jun-22	time	2.77	3.85	4.93	6.02	7.09	8.18	9.26	10.37	11.47	12.60	13.85	4 / 3			
reaction time		interval	1.08	1.08	1.09	1.07	1.09	1.08	1.11	1.10	1.13	1.25			3.25	3.24	3.34
wind	0.4 m/s	velocity	4.69	7.87	7.87	7.80	7.94	7.80	7.87	7.66	7.73	7.52	8.04	7.22	7.85	7.87	7.63

Heptathlon - Heat 3 - 2021 Japanese Multi-Event National Championships (Nagano, JPN)*Matsubayashi (2021) - 100m hurdles race analysis of heptathletes in the 2021 season*

date	12-Jun-21	time	2.72	3.82	4.89	5.96	7.02	8.07	9.14	10.21	11.29	12.42	13.66	6 / 3			
reaction time	0.189	interval	1.10	1.07	1.07	1.06	1.05	1.07	1.07	1.07	1.08	1.13	1.24		3.24	3.18	3.28
wind	1.4 m/s	velocity	4.78	7.73	7.94	7.94	8.02	8.10	7.94	7.94	7.87	7.52	8.10	7.32	7.87	8.02	7.77

Heptathlon - Heat 3 - 2020 Japanese Multi-Event National Championships (Nagano, JPN)*Matsubayashi (2020) - research athlete performance technique- 2020 databook*

date	26-Sep-20	time	2.76	3.87	4.95	6.02	7.08	8.15	9.22	10.35	11.44	12.59	13.82	5 / 2			
reaction time		interval	1.11	1.08	1.07	1.06	1.07	1.07	1.13	1.09	1.15	1.23			3.26	3.20	3.37
wind	0.1 m/s	velocity	4.71	7.66	7.87	7.94	8.02	7.94	7.94	7.52	7.80	7.39	8.17	7.24	7.82	7.97	7.57

Odvárková, Lucie (CZE) (1996)**FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE)** *Feher (2015) - Final report the U18 & U20 Czech Republic indoor national championships*

date	14-Feb-15	time	2.82	4.07	5.31	6.53	7.82						9.43	8 / 6			
reaction time	0.359	interval	1.25	1.24	1.22	1.29						1.61			3.71		
		velocity	4.61	6.80	6.85	6.97	6.59					8.07	6.36		6.87		

Oeser, Jennifer (GER) (1983)**Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)** *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	2.71	3.78	4.84	5.89	6.96	8.09	9.20	10.28	11.38	12.49	13.62	3 / 6			
reaction time	0.137	interval	1.07	1.06	1.05	1.07	1.13	1.11	1.08	1.10	1.11	1.13			3.18	3.31	3.29
wind	-0.4 m/s	velocity	4.80	7.94	8.02	8.10	7.94	7.52	7.66	7.87	7.73	7.66	9.29	7.34	8.02	7.70	7.75

Oga, Yuri (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 Shimane High School Championships (Izumo, JPN)												Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis					
date	28-May-17	time	2.80	3.97	5.10	6.23	7.37	8.50	9.63	10.80	11.97	13.17	14.58	7 / 1			
reaction time	0.234	interval	1.17	1.13	1.13	1.14	1.13	1.13	1.17	1.17	1.20	1.41			3.43	3.40	3.54
wind	2.6 m/s	velocity	4.64	7.26	7.52	7.52	7.46	7.52	7.52	7.26	7.26	7.08	7.13	6.86	7.43	7.50	7.20
Oikawa, Riko (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	2.78	3.85	5.03	6.19	7.32	8.44	9.55	10.66	11.79	12.91	14.19	5 / 8			
reaction time	0.234	interval	1.07	1.18	1.16	1.13	1.12	1.11	1.11	1.13	1.12	1.28			3.41	3.36	3.36
wind	0.8 m/s	velocity	4.68	7.94	7.20	7.33	7.52	7.59	7.66	7.66	7.52	7.59	7.85	7.05	7.48	7.59	7.59
FINAL - 2023 Japanese U20 National Championships (Osaka, JPN)												Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season					
date	03-Jun-23	time	2.72	3.84	4.94	6.02	7.10	8.17	9.32	10.43	11.53	12.68	14.01	7 / 6			
reaction time	0.181	interval	1.12	1.10	1.08	1.08	1.07	1.15	1.11	1.10	1.15	1.33			3.30	3.30	3.36
wind	-1.4 m/s	velocity	4.78	7.59	7.73	7.87	7.87	7.94	7.39	7.66	7.73	7.39	7.56	7.14	7.73	7.73	7.59
Oikawa, Yuka (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)												Kota (2017) - 70th high school championships: JAF scientific committee- biomechanics data					
date	02-Aug-17	time	2.75	3.89	5.03	6.15	7.28	8.42	9.55	10.68	11.80	12.91	14.16	8 / 4			
reaction time	0.153	interval	1.14	1.14	1.12	1.13	1.14	1.13	1.13	1.12	1.11	1.25			3.40	3.40	3.36
wind	-2.9 m/s	velocity	4.73	7.46	7.46	7.59	7.52	7.46	7.52	7.52	7.59	7.66	8.40	7.06	7.50	7.50	7.59
Semi-Final 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)												(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en					
date	21-Oct-16	time	2.70	3.81	4.92	6.00	7.08	8.15	9.23	10.33	11.45	12.57	13.83	4 / 2			
reaction time		interval	1.11	1.11	1.08	1.08	1.07	1.08	1.10	1.12	1.12	1.26			3.30	3.23	3.34
wind	1.2 m/s	velocity	4.81	7.21	7.21	7.41	7.41	7.48	7.41	7.27	7.14	7.14	11.90	7.23	7.27	7.43	7.19
Heat 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)												(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en					
date	21-Oct-16	time	2.70	3.81	4.93	6.03	7.13	8.22	9.33	10.45	11.59	12.73	14.01	5 / 1			
reaction time		interval	1.11	1.12	1.10	1.10	1.09	1.11	1.12	1.14	1.14	1.28			3.33	3.30	3.40
wind	1.1 m/s	velocity	4.81	7.21	7.14	7.27	7.27	7.34	7.21	7.14	7.02	7.02	11.72	7.14	7.21	7.27	7.06
Oka, Yuka (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	3.12	4.53	5.93	7.38	8.85	10.28	11.77	13.20	14.68	16.17	17.77	2 / 8			
reaction time		interval	1.41	1.40	1.45	1.47	1.43	1.49	1.43	1.48	1.49	1.60			4.26	4.39	4.40
wind	-0.2 m/s	velocity	4.17	6.03	6.07	5.86	5.78	5.94	5.70	5.94	5.74	5.70	6.28	5.63	5.99	5.81	5.80
Okamoto, Rika (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 - 2016 Japanese National Junior Championships (Mizuho, JPN)												(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en					
date	21-Oct-16	time	2.78	3.87	4.95	6.02	7.09	8.16	9.26	10.38	11.53	12.70	13.99	8 / 2			
reaction time		interval	1.09	1.08	1.07	1.07	1.07	1.10	1.12	1.15	1.17	1.29			3.24	3.24	3.44
wind	1.7 m/s	velocity	4.68	7.80	7.87	7.94	7.94	7.94	7.73	7.59	7.39	7.26	8.14	7.15	7.87	7.87	7.41
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)												Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics data					
date	02-Aug-15	time	2.70	3.79	4.88	5.99	7.08	8.18	9.31	10.44	11.58	12.75	14.07	9 / 6			
reaction time		interval	1.09	1.09	1.11	1.09	1.10	1.13	1.13	1.14	1.17	1.32	PB		3.29	3.32	3.44
wind	0.9 m/s	velocity	4.81	7.80	7.80	7.66	7.80	7.73	7.52	7.52	7.46	7.26	7.95	7.11	7.75	7.68	7.41
Okazaki, Nagisa (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 - 2017 Fuse Sprint (Tottori, JPN)												(2017) - tfdata-store.com/2017/06/04/post-848/					
date	04-Jun-17	time	2.68	3.78	4.88	5.97	7.06	8.15	9.25	10.35	11.46	12.60	13.85	2 / 8			
reaction time		interval	1.10	1.10	1.09	1.09	1.09	1.10	1.10	1.11	1.14	1.25			3.29	3.28	3.35
wind	3.7 m/s	velocity	4.85	7.73	7.73	7.80	7.80	7.80	7.73	7.73	7.66	7.46	8.40	7.22	7.75	7.77	7.61
Okori, Reina-Flor (FRA) (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 - 2008 Olympic Games (Beijing, CHN)												Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance					
date	18-Aug-08	time	2.63	3.70	4.65	5.71	6.73	7.74	8.77	9.80	10.84	11.89	13.05	1 / 6			
reaction time	0.153	interval	1.07	0.95	1.06	1.02	1.01	1.03	1.03	1.04	1.05	1.16			3.08	3.06	3.12
wind	0.2 m/s	velocity	4.94	7.94	8.95	8.02	8.33	8.42	8.25	8.25	8.17	8.10	9.05	7.66	8.28	8.33	8.17
Semi-Final 2 - 2004 Olympic Games (Athens, GRE)												Liagone (2007) - Historique: Le 110m haies en chiffres					
date	23-Aug-04	time	2.60	3.66	4.68	5.67	6.64	7.62	8.61	9.62	10.64	11.66	12.81	6 / 6			
reaction time	0.187	interval	1.06	1.02	0.99	0.97	0.98	0.99	1.01	1.02	1.02	1.15	=PB		3.07	2.94	3.05
wind	0.0 m/s	velocity	5.00	8.02	8.33	8.59	8.76	8.67	8.59	8.42	8.33	8.33	9.13	7.81	8.31	8.67	8.36
Okubo, Aoi (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	3.81	4.90	6.00	7.07	8.15	9.25	10.36	11.50	12.73	14.04	9 / 8			
reaction time	0.142	interval	1.13	1.09	1.10	1.07	1.08	1.10	1.11	1.14	1.23	1.31			3.32	3.25	3.48
wind	1.0 m/s	velocity	4.85	7.52	7.80	7.73	7.94	7.87	7.73	7.66	7.46	6.91	7.67	7.12	7.68	7.85	7.33

Okubo, Heki (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)												<i>Takashima (2023) - national high school sports festival - biomechanics data</i>					
date	06-Aug-23	time	2.78	3.91	5.01	6.09	7.16	8.24	9.33	10.42	11.56	12.73	14.01	8 / 7			
reaction time	0.227	interval	1.13	1.10	1.08	1.07	1.08	1.09	1.09	1.14	1.17	1.28			3.31	3.24	3.40
wind	0.8 m/s	velocity	4.68	7.52	7.73	7.87	7.94	7.87	7.80	7.80	7.46	7.26	7.85	7.14	7.70	7.87	7.50
Okubo, Yuri (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)												<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>					
date	29-Apr-22	time	2.74	3.86	4.96	6.04	7.10	8.16	9.24	10.32	11.45	12.58	13.83	7 / 5			
reaction time	0.169	interval	1.12	1.10	1.08	1.06	1.06	1.08	1.08	1.13	1.13	1.25			3.30	3.20	3.34
wind	0.3 m/s	velocity	4.74	7.59	7.73	7.87	8.02	8.02	7.87	7.87	7.52	7.52	8.04	7.23	7.73	7.97	7.63
FINAL - 2021 Japanese National Championships (Osaka, JPN)												<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>					
date	27-Jun-21	time	2.67	3.74	4.80	5.84	6.89	7.91	8.97	10.03	11.11	12.20	13.44	5 / 5			
reaction time	0.132	interval	1.07	1.06	1.04	1.05	1.02	1.06	1.06	1.08	1.09	1.24			3.17	3.13	3.23
wind	0.0 m/s	velocity	4.87	7.94	8.02	8.17	8.10	8.33	8.02	8.02	7.87	7.80	8.10	7.44	8.04	8.15	7.89
FINAL - 2021 Fuse Sprint (Tottori, JPN)												<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>					
date	06-Jun-21	time	2.67	3.72	4.75	5.78	6.79	7.81	8.83	9.88	10.93	12.00	13.21	8 / 6			
reaction time	0.152	interval	1.05	1.03	1.03	1.01	1.02	1.02	1.05	1.05	1.07	1.21	PB		3.11	3.05	3.17
wind	1.8 m/s	velocity	4.87	8.10	8.25	8.25	8.42	8.33	8.33	8.10	8.10	7.94	8.31	7.57	8.20	8.36	8.04
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)												<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>					
date	09-May-21	time	2.64	3.73	4.78	5.83	6.89	7.95	9.00	10.11	11.22	12.33	13.61	3 / 6			
reaction time	0.148	interval	1.09	1.05	1.05	1.06	1.06	1.05	1.11	1.11	1.11	1.28			3.19	3.17	3.33
wind	-0.8 m/s	velocity	4.92	7.80	8.10	8.10	8.02	8.02	8.10	7.66	7.66	7.66	7.85	7.35	7.99	8.04	7.66
FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)												<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>					
date	29-Apr-21	time	2.66	3.71	4.74	5.78	6.80	7.83	8.87	9.93	10.99	12.06	13.31	8 / 3			
reaction time		interval	1.05	1.03	1.04	1.02	1.03	1.04	1.06	1.06	1.07	1.25	PB		3.12	3.09	3.19
wind	1.6 m/s	velocity	4.89	8.10	8.25	8.17	8.33	8.25	8.17	8.02	8.02	7.94	8.04	7.51	8.17	8.25	7.99
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	2.72	3.81	4.88	5.94	7.00	8.06	9.13	10.20	11.29	12.43	13.68	5 / 2			
reaction time		interval	1.09	1.07	1.06	1.06	1.06	1.07	1.07	1.09	1.14	1.25			3.22	3.19	3.30
wind	1.3 m/s	velocity	4.78	7.80	7.94	8.02	8.02	8.02	7.94	7.94	7.80	7.46	8.40	7.31	7.92	7.99	7.73
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)												<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>					
date	24-Jun-18	time	2.73	3.82	4.90	5.97	7.01	8.06	9.13	10.18	11.25	12.36	13.59	8 / 8			
reaction time	0.182	interval	1.09	1.08	1.07	1.04	1.05	1.07	1.05	1.07	1.11	1.23			3.24	3.16	3.23
wind	1.1 m/s	velocity	4.76	7.80	7.87	7.94	8.17	8.10	7.94	8.10	7.94	7.66	8.54	7.36	7.87	8.07	7.89
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)												<i>(2017) - tfdata-store.com/2017/05/01/458/</i>					
date	29-Apr-17	time	2.77	3.85	4.92	5.98	7.04	8.10	9.18	10.26	11.36	12.48	13.67	3 / 4			
reaction time		interval	1.08	1.07	1.06	1.06	1.06	1.08	1.08	1.10	1.12	1.19			3.21	3.20	3.30
wind	4.1 m/s	velocity	4.69	7.87	7.94	8.02	8.02	8.02	7.87	7.87	7.73	7.59	8.82	7.32	7.94	7.97	7.73
Olyslager, Marjan (NED) (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	29-Sep-88	time	2.59	3.65	4.69	5.70	6.70	7.73	8.75	9.79	10.86	11.93	13.08	8 / 5			
reaction time	0.131	interval	1.06	1.04	1.01	1.00	1.03	1.02	1.04	1.07	1.07	1.15			3.11	3.05	3.18
wind	0.4 m/s	velocity	5.02	8.02	8.17	8.42	8.50	8.25	8.33	8.17	7.94	7.94	9.13	7.65	8.20	8.36	8.02
Omatso, Yuki (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 Michitaka Kinami Memorial (Osaka, JPN)												<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>					
date	07-May-23	time	2.64	3.71	4.79	5.85	6.89	7.94	9.01	10.08	11.17	12.27	13.49	9 / 8			
reaction time	0.129	interval	1.07	1.08	1.06	1.04	1.05	1.07	1.07	1.09	1.10	1.22			3.21	3.16	3.26
wind	0.7 m/s	velocity	4.92	7.94	7.87	8.02	8.17	8.10	7.94	7.94	7.80	7.73	8.24	7.41	7.94	8.07	7.82
B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)												<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>					
date	29-Apr-22	time	2.70	3.80	4.90	6.00	7.07	8.16	9.24	10.34	11.48	12.61	13.84	4 / 6			
reaction time	0.153	interval	1.10	1.10	1.10	1.07	1.09	1.08	1.10	1.14	1.13	1.23			3.30	3.24	3.37
wind	0.3 m/s	velocity	4.81	7.73	7.73	7.73	7.94	7.80	7.87	7.73	7.46	7.52	8.17	7.23	7.73	7.87	7.57
Omura, Mika (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 Michitaka Kinami Memorial (Osaka, JPN)												<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>					
date	01-May-22	time	2.72	3.80	4.87	5.96	7.01	8.09	9.20	10.30	11.42	12.55	13.77	8 / 8			
reaction time	0.125	interval	1.08	1.07	1.09	1.05	1.08	1.11	1.10	1.12	1.13	1.22			3.24	3.24	3.35
wind	-0.6 m/s	velocity	4.78	7.87	7.94	7.80	8.10	7.87	7.66	7.73	7.59	7.52	8.24	7.26	7.87	7.87	7.61
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)												<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>					
date	20-Sep-20	time	2.70	3.79	4.85	5.94	7.01	8.09	9.18	10.28	11.39	12.54	13.79	3 / 8			

reaction time	0.153	interval	1.09	1.06	1.09	1.07	1.08	1.09	1.10	1.11	1.15	1.25		3.24	3.24	3.36	
wind	0.0 m/s	velocity	4.81	7.80	8.02	7.80	7.94	7.87	7.80	7.73	7.66	7.39	8.04	7.25	7.87	7.87	7.59

Race 2 - 2020 World Athletics Trials (Fuji, JPN)*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	06-Sep-20	time	2.71	3.81	4.87	5.93	6.99	8.04	9.11	10.21	11.33	12.47	13.71	13.58	7 / 5			
reaction time		interval	1.10	1.06	1.06	1.06	1.05	1.07	1.10	1.12	1.14	1.24				3.22	3.18	3.36
wind	1.3 m/s	velocity	4.80	7.73	8.02	8.02	8.02	8.10	7.94	7.73	7.59	7.46	8.10	7.29		7.92	8.02	7.59

Onda, Misaki (JPN) (2004)**U18 FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (76cm)** *Enomoto (2019) - research on athlete performance and technique- 2019 data book*

date	06-Oct-19	time	2.68	3.77	4.83	5.88	6.93	8.02	9.08	10.14	11.22	12.32	13.58	13.58	7 / 1			
reaction time	0.169	interval	1.09	1.06	1.05	1.05	1.09	1.06	1.06	1.08	1.10	1.26				3.20	3.20	3.24
wind	1.6 m/s	velocity	4.85	7.80	8.02	8.10	8.10	7.80	8.02	8.02	7.87	7.73	8.33	7.36		7.97	7.97	7.87

Ono, Yui (JPN) (1999)**Semi-Final 1 - 2016 Japanese National Junior Championships (Mizuho, JPN)** *(2016.10.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.68	3.76	4.83	5.89	6.94	8.02	9.09	10.18	11.27	12.40	13.64	13.64	3 / 1			
reaction time		interval	1.08	1.07	1.06	1.05	1.08	1.07	1.09	1.09	1.09	1.13	1.24			3.21	3.20	3.31
wind	1.2 m/s	velocity	4.85	7.87	7.94	8.02	8.10	7.87	7.94	7.80	7.80	7.52	8.47	7.33		7.94	7.97	7.70

Heat 3 - 2016 Japanese National Junior Championships (Mizuho, JPN)*(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.68	3.77	4.84	5.92	6.99	8.05	9.13	10.22	11.32	12.45	13.68	13.68	6 / 1			
reaction time		interval	1.09	1.07	1.08	1.07	1.06	1.08	1.08	1.09	1.10	1.13	1.23			3.24	3.21	3.32
wind	1.5 m/s	velocity	4.85	7.80	7.94	7.87	7.94	8.02	7.87	7.80	7.73	7.52	8.54	7.31		7.87	7.94	7.68

FINAL - 2016 Kanto Area High School Championships (Tokyo, JPN)*(2016.06.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	17-Jun-16	time	2.74	3.84	4.98	6.10	7.23	8.37	9.52	10.65	11.81	13.00	14.26	14.26	5 / 1			
reaction time		interval	1.10	1.14	1.12	1.13	1.14	1.15	1.13	1.16	1.19	1.26				3.36	3.42	3.48
wind	-1.5 m/s	velocity	4.74	7.73	7.46	7.59	7.52	7.46	7.39	7.52	7.33	7.14	8.33	7.01		7.59	7.46	7.33

Onyia, Josephine (ESP) (1986)**FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)** *Graubner (2009) - http://www.fgs.uni-halle.de*

date	13-Sep-08	time	2.55	3.59	4.58	5.54	6.50	7.47	8.45	9.44	10.43	11.46	12.54	12.54	6 / 1			
reaction time	0.154	interval	1.04	0.99	0.96	0.96	0.97	0.98	0.99	0.99	1.03	1.08	DV			2.99	2.91	3.01
wind	0.3 m/s	velocity	5.10	8.17	8.59	8.85	8.85	8.76	8.67	8.59	8.59	8.25	9.72	7.97		8.53	8.76	8.47

Semi-Final 1 - 2008 Olympic Games (Beijing, CHN)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	18-Aug-08	time	2.60	3.69	4.71	5.72	6.73	7.73	8.72	9.74	10.76	11.79	12.86	12.86	4 / 5			
reaction time	0.203	interval	1.09	1.02	1.01	1.01	1.00	0.99	1.02	1.02	1.03	1.07	DV			3.12	3.00	3.07
wind	0.2 m/s	velocity	5.00	7.80	8.33	8.42	8.42	8.50	8.59	8.33	8.33	8.25	9.81	7.78		8.17	8.50	8.31

FINAL - 2008 ISTAF (Berlin, GER) (TV Analysis)*Graubner (2008) - http://www.fgs.uni-halle.de*

date	01-Jun-08	time	2.58	3.60	4.58	5.55	6.51	7.48	8.46	9.43	10.41	11.42	12.50	12.50	1 / 1			
reaction time	0.178	interval	1.02	0.98	0.97	0.96	0.97	0.98	0.97	0.98	0.98	1.01	1.08	NR		2.97	2.91	2.96
wind	0.8 m/s	velocity	5.04	8.33	8.67	8.76	8.85	8.76	8.67	8.76	8.67	8.42	9.72	8.00		8.59	8.76	8.61

FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)*Graubner (2007) - http://www.fgs.uni-halle.de*

date	22-Sep-07	time	2.57	3.62	4.62	5.60	6.60	7.58	8.56	9.57	10.59	11.62	12.70	12.70	2 / 2			
reaction time	0.159	interval	1.05	1.00	0.98	1.00	0.98	0.98	1.01	1.02	1.03	1.08				3.03	2.96	3.06
wind	-0.3 m/s	velocity	5.06	8.10	8.50	8.67	8.50	8.67	8.67	8.42	8.33	8.25	9.72	7.87		8.42	8.61	8.33

Oosterwegel, Emma (NED) (1998)**Hepthathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)** *Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.57	3.70	4.77	5.82	6.85	7.89	8.94	9.98	11.03	12.10	13.41	13.41	3 / 1			
reaction time	0.169	interval	1.13	1.07	1.05	1.03	1.04	1.05	1.04	1.05	1.07	1.31				3.25	3.12	3.16
wind	0.0 m/s	velocity	5.06	7.52	7.94	8.10	8.25	8.17	8.10	8.17	8.10	7.94	7.67	7.46		7.85	8.17	8.07

Hepthathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2024) - Athlete First: 2023 year end hurdle report*

date	19-Aug-23	time	2.73	3.80	4.86	5.90	6.92	7.94	8.96	10.02	11.08	12.14	13.38	13.38	5 / 2			
reaction time	0.181	interval	1.07	1.06	1.04	1.02	1.02	1.02	1.06	1.06	1.06	1.24				3.17	3.06	3.18
wind	-0.2 m/s	velocity	4.76	7.94	8.02	8.17	8.33	8.33	8.33	8.02	8.02	8.02	8.10	7.47		8.04	8.33	8.02

Hepthathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2022 year end hurdle report*

date	17-Jul-22	time	2.76	3.80	4.84	5.91	6.95	7.98	9.01	10.04	11.11	12.20	13.44	13.44	1 / 2			
reaction time	0.172	interval	1.04	1.04	1.07	1.04	1.03	1.03	1.03	1.03	1.07	1.09	1.24			3.15	3.10	3.19
wind	1.4 m/s	velocity	4.71	8.17	8.17	7.94	8.17	8.25	8.25	8.25	7.94	7.80	8.10	7.44		8.10	8.23	7.99

Hepthathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	04-Aug-21	time	2.73	3.80	4.84	5.89	6.91	7.93	8.98	10.02	11.06	12.13	13.36	13.36	5 / 2			
reaction time	0.176	interval	1.07	1.04	1.05	1.02	1.02	1.05	1.04	1.04	1.07	1.23	PB			3.16	3.09	3.15
wind	0.2 m/s	velocity	4.76	7.94	8.17	8.10	8.33	8.33	8.10	8.17	8.17	7.94	8.17	7.49		8.07	8.25	8.10

O'Rourke, Derval (IRL) (1981)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2013 European Indoor Championships (Göteborg, SWE)

date	01-Mar-13	time	2.58	3.60	4.61	5.61	6.63												
reaction time	0.141	interval		1.02	1.01	1.00	1.02							1.32				3.03	
wind		velocity	5.04	8.33	8.42	8.50	8.33							9.85	7.55			8.42	

Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx

7.95 2 / 4 3

FINAL - 2010 European Championships (Barcelona, ESP)

date	31-Jul-10	time	2.59	3.61	4.60	5.57	6.55	7.53	8.53	9.53	10.54	11.57								
reaction time	0.172	interval		1.02	0.99	0.97	0.98	0.98	1.00	1.00	1.01	1.03	1.08	NR				2.98	2.96	3.04
wind	-0.5 m/s	velocity	5.02	8.33	8.59	8.76	8.67	8.67	8.50	8.50	8.42	8.25	9.72	7.91				8.56	8.61	8.39

Graubner (2010) - <http://www.fgs.uni-halle.de>

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FINAL - 2009 IAAF World Championships (Berlin, GER)

date	19-Aug-09	time	2.58	3.57	4.55	5.53	6.52	7.51	8.49	9.50	10.52	11.58								
reaction time	0.128	interval		0.99	0.98	0.98	0.99	0.99	0.98	1.01	1.02	1.06	1.09	NR				2.95	2.96	3.09
wind	0.2 m/s	velocity	5.04	8.59	8.67	8.67	8.59	8.59	8.67	8.42	8.33	8.02	9.63	7.89				8.64	8.61	8.25

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

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Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)

date	19-Aug-09	time	2.60	3.60	4.60	5.59	6.57	7.55	8.55	9.58	10.60	11.65								
reaction time	0.148	interval		1.00	1.00	0.99	0.98	0.98	1.00	1.03	1.02	1.05	1.08					2.99	2.96	3.10
wind	0.3 m/s	velocity	5.00	8.50	8.50	8.59	8.67	8.67	8.50	8.25	8.33	8.10	9.72	7.86				8.53	8.61	8.23

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

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Heat 3 - 2009 IAAF World Championships (Berlin, GER)

date	18-Aug-09	time	2.61	3.61	4.61	5.61	6.59	7.60	8.61	9.64	10.70	11.77								
reaction time	0.147	interval		1.00	1.00	1.00	0.98	1.01	1.01	1.03	1.06	1.07	1.09					3.00	3.00	3.16
wind	0.1 m/s	velocity	4.98	8.50	8.50	8.50	8.67	8.42	8.42	8.25	8.02	7.94	9.63	7.78				8.50	8.50	8.07

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

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FINAL - 2009 ISTAF (Berlin, GER)

date	14-Jun-09	time	2.63	3.70	4.72	5.75	6.77	7.81	8.86	9.91	10.99	12.09								
reaction time	0.187	interval		1.07	1.02	1.03	1.02	1.04	1.05	1.05	1.08	1.10	1.12					3.12	3.11	3.23
wind	-0.1 m/s	velocity	4.94	7.94	8.33	8.25	8.33	8.17	8.10	8.10	7.87	7.73	9.37	7.57				8.17	8.20	7.89

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

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Ørving, Tale (NOR) (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 Windsprint (Sundsvall, SWE)																				
date	28-Jul-13	time	2.70	3.82	4.93	6.01	7.11	8.19	9.26	10.34	11.42	12.51		13.74	5 / 3					
reaction time		interval		1.12	1.11	1.08	1.10	1.08	1.07	1.08	1.08	1.09	1.23					3.31	3.25	3.25
wind	1.2 m/s	velocity	4.81	7.59	7.66	7.87	7.73	7.87	7.94	7.87	7.87	7.80	8.54	7.28				7.70	7.85	7.85

(2013) - www.ssg.se/windsprint/Splittider/**Oschenkat, Cornelia (GDR) (1961)**

			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)																				
date	09-Sep-89	time	2.55	3.59	4.58	5.56	6.52	7.50	8.51	9.50	10.51	11.53		12.60	1 / 1					
reaction time		interval		1.04	0.99	0.98	0.96	0.98	1.01	0.99	1.01	1.02	1.07					3.01	2.95	3.02
wind	-0.3 m/s	velocity	5.10	8.17	8.59	8.67	8.85	8.67	8.42	8.59	8.42	8.33	9.81	7.94				8.47	8.64	8.44

Gill (1990) - *atletismo (I) carreras y marcha***FINAL - 1988 Olympic Games (Seoul, KOR)**

date	30-Sep-88	time	2.53	3.56	4.54	5.58	6.58	7.65	8.70	9.77	10.90	12.10		13.73	6 / 8					
reaction time	0.138	interval		1.03	0.98	1.04	1.00	1.07	1.05	1.07	1.13	1.20	1.63					3.05	3.12	3.40
wind	0.2 m/s	velocity	5.14	8.25	8.67	8.17	8.50	7.94	8.10	7.94	7.52	7.08	6.44	7.28				8.36	8.17	7.50

Brüggemann (1990) - *scientific research project at the games of the XXXIV Olympiad, Seoul 1988***Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)**

date	29-Sep-88	time	2.56	3.59	4.59	5.56	6.54	7.51	8.51	9.51	10.51	11.52		12.63	4 / 1					
reaction time	0.138	interval		1.03	1.00	0.97	0.98	0.97	1.00	1.00	1.00	1.01	1.11					3.00	2.95	3.01
wind	0.4 m/s	velocity	5.08	8.25	8.50	8.76	8.67	8.76	8.50	8.50	8.50	8.42	9.46	7.92				8.50	8.64	8.47

Brüggemann (1990) - *scientific research project at the games of the XXXIV Olympiad, Seoul 1988***Riefstahl-Oschenkat, Cornelia (GDR) (1961)**

			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)																				
date	04-Sep-87	time	2.50	3.50	4.48	5.46	6.43	7.40	8.38	9.36	10.35	11.36		12.46	6 / 3					
reaction time		interval		1.00	0.98	0.98	0.97	0.97	0.98	0.98	0.99	1.01	1.10					2.96	2.92	2.98
wind	-0.5 m/s	velocity	5.20	8.50	8.67	8.67	8.76	8.76	8.67	8.67	8.59	8.42	9.55	8.03				8.61	8.73	8.56

Susanka (1988) - *time analysis of the sprint hurdle events at the II World Championships in Athletics***Semi-Final 1 - 1987 IAAF World Championships (Rome, ITA)**

date	04-Sep-87	time	2.47	3.54	4.56	5.56	6.52	7.51	8.50	9.49	10.49	11.53		12.65	4 / 1					
reaction time		interval		1.07	1.02	1.00	0.96	0.99	0.99	0.99	1.00	1.04	1.12					3.09	2.94	3.03
wind	-0.2 m/s	velocity	5.26	7.94	8.33	8.50	8.85	8.59	8.59	8.59	8.50	8.17	9.37	7.91				8.25	8.67	8.42

Susanka (1988) - *time analysis of the sprint hurdle events at the II World Championships in Athletics***Heat 3 - 1987 IAAF World Championships (Rome, ITA)**

date	03-Sep-87	time	2.62	3.66	4.66	5.63	6.62	7.62	8.61	9.62	10.62	11.66		12.83	1 / 1					
reaction time		interval		1.04	1.00	0.97	0.99	1.00	0.99	1.01	1.00	1.04	1.17					3.01	2.98	3.05
wind	-0.8 m/s	velocity	4.96	8.17	8.50	8.76	8.59	8.50	8.59	8.42	8.50	8.17	8.97	7.79				8.47	8.56	8.36

Susanka (1988) - *time analysis of the sprint hurdle events at the II World Championships in Athletics***FINAL - 1987 European Cup (Prague, TCH)**

date	28-Jun-87	time	2.57	3.59	4.56	5.52	6.48	7.44	8.40	9.40	10.40	11.40		12.47	1 / 1					
reaction time		interval		1.02	0.97	0.96	0.96	0.96	0.96	1.00	1.00	1.00	1.07	CR				2.95	2.88	3.00
wind	-0.9 m/s	velocity	5.06	8.33	8.76	8.85	8.85	8.85	8.85	8.50	8.50	8.50	9.81	8.02				8.64	8.85	8.50

Sušanka (1987) - *hints on computer processing of biomechanical data***FINAL - 1987 GDR vs. USSR (Karl-Marx-Stadt, GDR)**Breiser (1990) - *the road to success- skill analysis of leading women hurdlers*

date	21-Jun-87	time	2.50	3.50	4.48	5.46	6.43	7.40	8.38	9.36	10.35	11.36		12.46	/ 1				
reaction time	0.135	interval		1.00	0.98	0.98	0.97	0.97	0.98	0.98	0.99	1.01	1.10			2.96	2.92	2.98	
wind	1.6 m/s	velocity	5.20	8.50	8.67	8.67	8.76	8.76	8.67	8.67	8.59	8.42	9.55	8.03		8.61	8.73	8.56	
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	2.53	3.56	4.56	5.55	6.49	7.48	8.47	9.46	10.45	11.45		12.56	/ 1				
reaction time		interval		1.03	1.00	0.99	0.94	0.99	0.99	0.99	0.99	1.00	1.11			3.02	2.92	2.98	
wind	1.4 m/s	velocity	5.14	8.25	8.50	8.59	9.04	8.59	8.59	8.59	8.59	8.50	9.46	7.96		8.44	8.73	8.56	
Oshiro, Yurika (JPN) (1998)			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) (76cm)			<i>(2016.11.03) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
date	21-Oct-16	time	2.75	3.87	4.99	6.09	7.21	8.33	9.44	10.57	11.72	12.86		14.09	4 / 3				
reaction time		interval		1.12	1.12	1.10	1.12	1.12	1.11	1.13	1.15	1.14	1.23			3.34	3.35	3.42	
wind	2.1 m/s	velocity	4.73	7.14	7.14	7.27	7.14	7.14	7.21	7.08	6.96	7.02	12.20	7.10		7.19	7.16	7.02	
Oshita, Airi (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)			<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>																
date	27-May-18	time	2.82	4.03	5.22	6.45	7.67	8.87	10.12	11.38	12.72	14.02		15.44	3 / 3				
reaction time		interval		1.21	1.19	1.23	1.22	1.20	1.25	1.26	1.34	1.30	1.42			3.63	3.67	3.90	
wind	1.2 m/s	velocity	4.61	7.02	7.14	6.91	6.97	7.08	6.80	6.75	6.34	6.54	7.08	6.48		7.02	6.95	6.54	
FINAL - 2017 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>																
date	28-May-17	time	2.87	4.10	5.30	6.57	7.87	9.13	10.37	11.70	13.00	14.30		15.80	6 / 3				
reaction time		interval		1.23	1.20	1.27	1.30	1.26	1.24	1.33	1.30	1.30	1.50			3.70	3.80	3.93	
wind	2.6 m/s	velocity	4.53	6.91	7.08	6.69	6.54	6.75	6.85	6.39	6.54	6.54	6.70	6.33		6.89	6.71	6.49	
Otani, Sumire (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 Japanese High School National Championships (Fukui, JPN)			<i>Shibayama (2021) - national high school and U20 national championships</i>																
date	01-Aug-21	time	2.71	3.82	4.90	5.98	7.06	8.13	9.20	10.30	11.42	12.56		13.81	8 / 7				
reaction time	0.185	interval		1.11	1.08	1.08	1.08	1.07	1.07	1.10	1.12	1.14	1.25			3.27	3.22	3.36	
wind	1.8 m/s	velocity	4.80	7.66	7.87	7.87	7.87	7.94	7.94	7.73	7.59	7.46	8.04	7.24		7.80	7.92	7.59	
FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)			<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																
date	26-Jun-21	time	2.74	3.85	4.96	6.05	7.14	8.23	9.33	10.43	11.56	12.72		13.92	7 / 4				
reaction time	0.199	interval		1.11	1.11	1.09	1.09	1.09	1.10	1.10	1.13	1.16	1.20			3.31	3.28	3.39	
wind	0.2 m/s	velocity	4.74	7.66	7.66	7.80	7.80	7.80	7.73	7.73	7.52	7.33	8.38	7.18		7.70	7.77	7.52	
Otoha, Osaki (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)			<i>Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis</i>																
date	28-May-22	time	2.90	4.15	5.40	6.60	7.90	9.17	10.40	11.65	12.96	14.25		15.60	4 / 4				
reaction time		interval		1.25	1.25	1.20	1.30	1.27	1.23	1.25	1.31	1.29	1.35			3.70	3.80	3.85	
wind	-0.4 m/s	velocity	4.48	6.80	6.80	7.08	6.54	6.69	6.91	6.80	6.49	6.59	7.44	6.41		6.89	6.71	6.62	
FINAL - 2021 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis</i>																
date	30-May-21	time	2.95	4.20	5.45	6.72	7.95	9.22	10.47	11.77	13.08	14.40		15.80	7 / 5				
reaction time		interval		1.25	1.25	1.27	1.23	1.27	1.25	1.30	1.31	1.32	1.40			3.77	3.75	3.93	
wind	1.7 m/s	velocity	4.41	6.80	6.80	6.69	6.91	6.69	6.80	6.54	6.49	6.44	7.18	6.33		6.76	6.80	6.49	
Ouchi, Kokoro (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 National Sports Festival (Hitachinaka, JPN) (76cm)			<i>Enomoto (2019) - research on athlete performance and technique- 2019 data book</i>																
date	06-Oct-19	time	2.74	3.85	4.97	6.07	7.15	8.27	9.35	10.47	11.58	12.69		13.91	6 / 5				
reaction time	0.175	interval		1.11	1.12	1.10	1.08	1.12	1.08	1.12	1.11	1.11	1.22			3.33	3.28	3.34	
wind	1.6 m/s	velocity	4.74	7.66	7.59	7.73	7.87	7.59	7.87	7.59	7.66	7.66	8.61	7.19		7.66	7.77	7.63	
Owens, Bridgette (USA) (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 Bislett Games (Oslo, NOR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																
date	07-Jun-18	time	2.56	3.60	4.62	5.62	6.60	7.60	8.62	9.64	10.66	11.72		12.98	1 / 7				
reaction time	0.232	interval		1.04	1.02	1.00	0.98	1.00	1.02	1.02	1.02	1.06	1.26			3.06	3.00	3.10	
wind	1.1 m/s	velocity	5.08	8.17	8.33	8.50	8.67	8.50	8.33	8.33	8.33	8.02	8.33	7.70		8.33	8.50	8.23	
Oyamada, Tamaki (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) (76cm)			<i>(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
date	21-Oct-16	time	2.74	3.83	4.91	5.99	7.10	8.22	9.34	10.48	11.63	12.84		14.15	8 / 3				
reaction time		interval		1.09	1.08	1.08	1.11	1.12	1.12	1.14	1.15	1.21	1.31			3.25	3.35	3.50	
wind	0.4 m/s	velocity	4.74	7.34	7.41	7.41	7.21	7.14	7.14	7.02	6.96	6.61	11.45	7.07		7.38	7.16	6.86	
Ozaki, Saki (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 - 2016 Japanese National Junior Championships (Mizuho, JPN)			<i>(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
date	21-Oct-16	time	2.79	3.93	5.05	6.16	7.26	8.39	9.52	10.64	11.79	12.98		14.29	2 / 3				
reaction time		interval		1.14	1.12	1.11	1.10	1.13	1.13	1.12	1.15	1.19	1.31			3.37	3.36	3.46	
wind	1.5 m/s	velocity	4.66	7.46	7.59	7.66	7.73	7.52	7.52	7.59	7.39	7.14	8.02	7.00		7.57	7.59	7.37	
Paetz, Sabine (GDR) (1957)			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	2.54	3.58	4.59	5.61	6.58	7.56	8.58	9.62	10.64	11.71		12.89	/ 4			
reaction time		interval		1.04	1.01	1.02	0.97	0.98	1.02	1.04	1.02	1.07	1.18			3.07	2.97	3.13
wind	1.4 m/s	velocity	5.12	8.17	8.42	8.33	8.76	8.67	8.33	8.17	8.33	7.94	8.90	7.76		8.31	8.59	8.15

Pang Jiewen (CHN) (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 Chinese National Games (Beijing, CHN)***Bo (1996) - a study on female 100m hurdles running rhythm in the 7th national games*

date	09-Sep-93	time	2.53	3.57	4.60	5.62	6.64	7.68	8.72	9.76	10.82	11.98		13.12	/ 4			
reaction time		interval		1.04	1.03	1.02	1.02	1.04	1.04	1.04	1.06	1.16	1.14			3.09	3.10	3.26
wind	0.1 m/s	velocity	5.14	8.17	8.25	8.33	8.33	8.17	8.17	8.17	8.02	7.33	9.21	7.62		8.25	8.23	7.82

Pang Yuting (CHN) (1995)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)***CAA Hurdle Development (2019)*

date	23-Aug-19	time	2.77	3.92	5.10	6.26	7.41	8.58	9.73	10.91	12.11	13.33		14.69	5 / 2			
reaction time	0.172	interval		1.15	1.18	1.16	1.15	1.17	1.15	1.18	1.20	1.22	1.36			3.49	3.47	3.60
wind	?? m/s	velocity	4.69	7.39	7.20	7.33	7.39	7.26	7.39	7.20	7.08	6.97	7.72	6.81		7.31	7.35	7.08

Heptathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	08-Jul-19	time	2.75	3.95	5.09	6.21	7.31	8.53	9.69	10.86	12.03	13.23		14.62	3 / 3			
reaction time	0.180	interval		1.20	1.14	1.12	1.10	1.22	1.16	1.17	1.17	1.20	1.39			3.46	3.48	3.54
wind	0.8 m/s	velocity	4.73	7.08	7.46	7.59	7.73	6.97	7.33	7.26	7.26	7.08	7.55	6.84		7.37	7.33	7.20

Patzwahl, Kristin (GER) (1965)**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)***Graubner (2008) - http://www.fgs.uni-halle.de*

date	30-Jun-91	time	2.62	3.65	4.67	5.69	6.70	7.72	8.74	9.78	10.83	11.90		13.10	/ 3			
reaction time		interval		1.03	1.02	1.02	1.01	1.02	1.02	1.04	1.05	1.07	1.20			3.07	3.05	3.16
wind	-2.1 m/s	velocity	4.96	8.25	8.33	8.33	8.42	8.33	8.33	8.17	8.10	7.94	8.75	7.63		8.31	8.36	8.07

Pearson, Sally (AUS) (1986)**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)***Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps*

date	19-May-19	time	2.56	3.57	4.55	5.53	6.51	7.49	8.48	9.48	10.50	11.54		12.70	5 / 2			
reaction time	0.136	interval		1.01	0.98	0.98	0.98	0.98	0.99	1.00	1.02	1.04	1.16			2.97	2.95	3.06
wind	0.4 m/s	velocity	5.08	8.42	8.67	8.67	8.67	8.67	8.59	8.50	8.33	8.17	9.05	7.87		8.59	8.64	8.33

A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)*Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

date	28-Apr-19	time	2.61	3.65	4.64	5.66	6.64	7.63	8.65	9.66	10.71	11.78		12.99	3 / 1			
reaction time		interval		1.04	0.99	1.02	0.98	0.99	1.02	1.01	1.05	1.07	1.21			3.05	2.99	3.13
wind	0.6 m/s	velocity	4.98	8.17	8.59	8.33	8.67	8.59	8.33	8.42	8.10	7.94	8.68	7.70		8.36	8.53	8.15

FINAL - 2017 Weltklasse (Zürich, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	24-Aug-17	time	2.48	3.50	4.48	5.46	6.44	7.40	8.38	9.36	10.36	11.38		12.55	6 / 1			
reaction time	0.117	interval		1.02	0.98	0.98	0.98	0.96	0.98	0.98	1.00	1.02	1.17			2.98	2.92	3.00
wind	-0.3 m/s	velocity	5.24	8.33	8.67	8.67	8.67	8.85	8.67	8.67	8.50	8.33	8.97	7.97		8.56	8.73	8.50

FINAL - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date	12-Aug-17	time	2.41	3.45	4.46	5.45	6.43	7.39	8.36	9.35	10.35	11.37		12.59	4 / 1			
reaction time	0.127	interval		1.04	1.01	0.99	0.98	0.96	0.97	0.99	1.00	1.02	1.22			3.04	2.91	3.01
wind	0.1 m/s	velocity	5.39	8.17	8.42	8.59	8.67	8.85	8.76	8.59	8.50	8.33	8.61	7.94		8.39	8.76	8.47

Semi-Final 1 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date	11-Aug-17	time	2.39	3.43	4.42	5.40	6.37	7.31	8.28	9.27	10.27	11.29		12.53	6 / 1			
reaction time	0.119	interval		1.04	0.99	0.98	0.97	0.94	0.97	0.99	1.00	1.02	1.24			3.01	2.88	3.01
wind	0.5 m/s	velocity	5.44	8.17	8.59	8.67	8.76	9.04	8.76	8.59	8.50	8.33	8.47	7.98		8.47	8.85	8.47

FINAL - 2017 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	21-Jul-17	time	2.52	3.54	4.56	5.56	6.54	7.54	8.52	9.50	10.50	11.54		12.68	5 / 5			
reaction time	0.134	interval		1.02	1.02	1.00	0.98	1.00	0.98	0.98	1.00	1.04	1.14			3.04	2.96	3.02
wind	-0.2 m/s	velocity	5.16	8.33	8.33	8.50	8.67	8.50	8.67	8.67	8.50	8.17	9.21	7.89		8.39	8.61	8.44

FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	09-Jul-17	time	2.48	3.48	4.46	5.42	6.38	7.34	8.30	9.26	10.26	11.30		12.48	4 / 2			
reaction time	0.139	interval		1.00	0.98	0.96	0.96	0.96	0.96	0.96	1.00	1.04	1.18			2.94	2.88	3.00
wind	0.2 m/s	velocity	5.24	8.50	8.67	8.85	8.85	8.85	8.85	8.85	8.50	8.17	8.90	8.01		8.67	8.85	8.50

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	4.48	5.48	6.48	7.48	8.48	9.48	10.50	11.54		12.76	7 / 6			
reaction time	0.135	interval		1.02	0.98	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.22			3.00	3.00	3.06
wind	0.1 m/s	velocity	5.24	8.33	8.67	8.50	8.50	8.50	8.50	8.50	8.33	8.17	8.61	7.84		8.50	8.50	8.33

FINAL - 2016 Bislett Games (Oslo, NOR) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	09-Jun-16	time	2.54	3.56	4.60	5.62	6.64	7.66	8.68	9.72	10.80	11.86		13.14	1 / 7			
reaction time	0.116	interval		1.02	1.04	1.02	1.02	1.02	1.02	1.04	1.08	1.06	1.28			3.08	3.06	3.18
wind	-0.4 m/s	velocity	5.12	8.33	8.17	8.33	8.33	8.33	8.33	8.17	7.87	8.02	8.20	7.61		8.28	8.33	8.02

FINAL - 2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	05-Jun-16	time	2.53	3.56	4.60	5.63	6.66	7.68	8.70	9.74	10.80	11.93	13.25	4 / 7			
reaction time	0.129	interval		1.03	1.04	1.03	1.03	1.02	1.02	1.04	1.06	1.13	1.32	3.10	3.07	3.23	
wind	-0.3 m/s	velocity	5.14	8.25	8.17	8.25	8.25	8.33	8.33	8.17	8.02	7.52	7.95	7.55	8.23	8.31	7.89

FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	10-May-15	time	2.57	3.59	4.58	5.56	6.54	7.51	8.49	9.49	10.49	11.54	12.66	4 / 1			
reaction time	0.144	interval		1.02	0.99	0.98	0.98	0.97	0.98	1.00	1.00	1.05	1.12	2.99	2.93	3.05	
wind	0.9 m/s	velocity	5.06	8.33	8.59	8.67	8.67	8.76	8.67	8.50	8.50	8.10	9.37	7.90	8.53	8.70	8.36

FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)*Henson (2021) - Athlete First: major championships report*

date	17-Aug-13	time	2.46	3.46	4.44	5.40	6.36	7.32	8.28	9.28	10.28	11.32	12.50	6 / 2			
reaction time	0.154	interval		1.00	0.98	0.96	0.96	0.96	0.96	1.00	1.00	1.04	1.18	2.94	2.88	3.04	
wind	-0.6 m/s	velocity	5.28	8.50	8.67	8.85	8.85	8.85	8.85	8.50	8.50	8.17	8.90	8.00	8.67	8.85	8.39

FINAL - 2013 Athletissima Diamond League Meeting (Lausanne, SUI)*Vazel (2013) - hurdle observations*

date	04-Jul-13	time	2.55	3.57	4.56	5.53	6.51	7.50	8.48	9.47	10.50	11.55	12.69	7 / 7			
reaction time	0.136	interval		1.02	0.99	0.97	0.98	0.99	0.98	0.99	1.03	1.05	1.14	2.98	2.95	3.07	
wind	1.2 m/s	velocity	5.10	8.33	8.59	8.76	8.67	8.59	8.67	8.59	8.25	8.10	9.21	7.88	8.56	8.64	8.31

FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)*Henson (2021) - Athlete First: major championships report*

date	07-Aug-12	time	2.44	3.42	4.38	5.34	6.30	7.24	8.20	9.18	10.18	11.18	12.35	7 / 1			
reaction time	0.137	interval		0.98	0.96	0.96	0.96	0.94	0.96	0.98	1.00	1.00	1.17	OR	2.90	2.86	2.98
wind	-0.2 m/s	velocity	5.33	8.67	8.85	8.85	8.85	9.04	8.85	8.67	8.50	8.50	8.97	8.10	8.79	8.92	8.56

FINAL - 2012 Areva Diamond League Meeting (Saint-Denis, FRA)*Vazel (2012) - hurdle observations*

date	06-Jul-12	time	2.51	3.50	4.50	5.46	6.43	7.40	8.36	9.32	10.30	11.30	12.40	5 / 1			
reaction time	0.147	interval		0.99	1.00	0.96	0.97	0.97	0.96	0.96	0.98	1.00	1.10	2.95	2.90	2.94	
wind	0.0 m/s	velocity	5.18	8.59	8.50	8.85	8.76	8.76	8.85	8.85	8.67	8.50	9.55	8.06	8.64	8.79	8.67

FINAL - 2012 Melbourne Track Classic (Melbourne, AUS)*kitkat1 (2012) - www.charliefrancis.com/community/showthread.php?22163-Sally-Pearson-s-12-49*

date	03-Mar-12	time	2.55	3.55	4.53	5.51	6.47	7.44	8.41	9.39	10.38	11.41	12.49	1 / 1			
reaction time		interval		1.00	0.98	0.98	0.96	0.97	0.97	0.98	0.99	1.03	1.08	2.96	2.90	3.00	
wind	0.8 m/s	velocity	5.10	8.50	8.67	8.67	8.85	8.76	8.76	8.67	8.59	8.25	9.72	8.01	8.61	8.79	8.50

FINAL - 2011 IAAF World Championships (Daegu, KOR)*KSSB (2011) - biomechanical analysis of women's 100m hurdle*

date	03-Sep-11	time	2.53	3.52	4.49	5.42	6.37	7.31	8.27	9.22	10.21	11.20	12.28	3 / 1			
reaction time	0.145	interval		0.99	0.97	0.93	0.95	0.94	0.96	0.95	0.99	0.99	1.08	CR / AR	2.89	2.85	2.93
wind	1.1 m/s	velocity	5.14	8.59	8.76	9.14	8.95	9.04	8.85	8.95	8.59	8.59	9.72	8.14	8.82	8.95	8.70

Heat 2 - 2011 IAAF World Championships (Daegu, KOR)*KSSB (2011) - biomechanical analysis of women's 100m hurdle*

date	02-Sep-11	time	2.52	3.51	4.50	5.47	6.44	7.42	8.38	9.38	10.38	11.40	12.53	2 / 1			
reaction time	0.141	interval		0.99	0.99	0.97	0.97	0.98	0.96	1.00	1.00	1.02	1.13	2.95	2.91	3.02	
wind	-0.6 m/s	velocity	5.16	8.59	8.59	8.76	8.76	8.67	8.85	8.50	8.50	8.33	9.29	7.98	8.64	8.76	8.44

*McLellan, Sally (AUS) (1986)***FINAL - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.55	3.56	4.55	5.52	6.51	7.48	8.46	9.46	10.48	11.51	12.70	7 / 5			
reaction time	0.139	interval		1.01	0.99	0.97	0.99	0.97	0.98	1.00	1.02	1.03	1.19	2.97	2.94	3.05	
wind	0.2 m/s	velocity	5.10	8.42	8.59	8.76	8.59	8.76	8.67	8.50	8.33	8.25	8.82	7.87	8.59	8.67	8.36

Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.54	3.56	4.56	5.54	6.53	7.51	8.49	9.48	10.50	11.54	12.66	6 / 2			
reaction time	0.139	interval		1.02	1.00	0.98	0.99	0.98	0.98	0.99	1.02	1.04	1.12	3.00	2.95	3.05	
wind	0.3 m/s	velocity	5.12	8.33	8.50	8.67	8.59	8.67	8.67	8.59	8.33	8.17	9.37	7.90	8.50	8.64	8.36

Heat 3 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	2.55	3.57	4.57	5.55	6.53	7.53	8.54	9.57	10.60	11.67	12.82	2 / 1			
reaction time	0.140	interval		1.02	1.00	0.98	0.98	1.00	1.01	1.03	1.03	1.07	1.15	3.00	2.99	3.13	
wind	0.1 m/s	velocity	5.10	8.33	8.50	8.67	8.67	8.50	8.42	8.25	8.25	7.94	9.13	7.80	8.50	8.53	8.15

FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date	13-Sep-08	time	2.54	3.58	4.60	5.62	6.62	7.62	8.62	9.63	10.65	11.68	12.82	5 / 7 6			
reaction time	0.137	interval		1.04	1.02	1.02	1.00	1.00	1.00	1.01	1.02	1.03	1.14	3.08	3.00	3.06	
wind	0.3 m/s	velocity	5.12	8.17	8.33	8.33	8.50	8.50	8.50	8.42	8.33	8.25	9.21	7.80	8.28	8.50	8.33

FINAL - 2008 Olympic Games (Beijing, CHN)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	19-Aug-08	time	2.50	3.51	4.51	5.50	6.50	7.47	8.45	9.45	10.46	11.50	12.64	3 / 2			
reaction time	0.138	interval		1.01	1.00	0.99	1.00	0.97	0.98	1.00	1.01	1.04	1.14	3.00	2.95	3.05	
wind	0.1 m/s	velocity	5.20	8.42	8.50	8.59	8.50	8.76	8.67	8.50	8.42	8.17	9.21	7.91	8.50	8.64	8.36

Semi-Final 1 - 2008 Olympic Games (Beijing, CHN)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	18-Aug-08	time	2.54	3.55	4.54	5.53	6.51	7.51	8.52	9.52	10.54	11.57	12.70	9 / 4
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reaction time	0.140	interval	1.01	0.99	0.99	0.98	1.00	1.01	1.00	1.02	1.03	1.13		2.99	2.99	3.05	
wind	0.2 m/s	velocity	5.12	8.42	8.59	8.59	8.67	8.50	8.42	8.50	8.33	8.25	9.29	7.87	8.53	8.53	8.36

FINAL - 2007 Seiko Super Grand Prix (Yokohama, JPN)*Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles*

date	30-Sep-07	time	2.49	3.58	4.64	5.69	6.73	7.76	8.79	9.84	10.90	11.97	13.27	1 / 1			
reaction time		interval	1.09	1.06	1.05	1.04	1.03	1.03	1.05	1.06	1.07	1.30			3.20	3.10	3.18
wind	-0.8 m/s	velocity	5.22	7.80	8.02	8.10	8.17	8.25	8.25	8.10	8.02	7.94	8.08	7.54	7.97	8.23	8.02

Pedersen, Isabelle (NOR) (1992)**FINAL - 2020 New Balance Indoor Grand Prix (Boston, MA)** *PrimeTime Timing (2020) - https://results.nbindoorgandprix.com/*

date	25-Jan-20	time	2.67	3.69	4.69	5.72	6.70							8.10	6 / 5		
reaction time		interval	1.02	1.00	1.03	0.98						1.40				3.05	
wind		velocity	4.87	8.33	8.50	8.25	8.67					9.29	7.41			8.36	

Heat 2 - 2020 New Balance Indoor Grand Prix (Boston, MA)*PrimeTime Timing (2020) - https://results.nbindoorgandprix.com/*

date	25-Jan-20	time	2.64	3.68	4.68	5.68	6.68							8.06	4 / 2		
reaction time		interval	1.04	1.00	1.00	1.00						1.38				3.04	
wind		velocity	4.92	8.17	8.50	8.50	8.50					9.42	7.44			8.39	

FINAL - 2019 Bislett Games (Oslo, NOR) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	13-Jun-19	time	2.56	3.58	4.56	5.56	6.60	7.60	8.64	9.68	10.74	11.84	13.08	1 / 6				
reaction time	0.157	interval	1.02	0.98	1.00	1.04	1.00	1.04	1.04	1.06	1.10	1.10	1.24			3.00	3.08	3.20
wind	1.1 m/s	velocity	5.08	8.33	8.67	8.50	8.17	8.50	8.17	8.17	8.02	7.73	8.47	7.65		8.50	8.28	7.97

FINAL - 2019 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	03-May-19	time	2.60	3.64	4.64	5.64	6.64	7.66	8.70	9.76	10.86	11.96	13.26	1 / 9				
reaction time	0.187	interval	1.04	1.00	1.00	1.00	1.02	1.04	1.06	1.10	1.10	1.30				3.04	3.06	3.26
wind	0.9 m/s	velocity	5.00	8.17	8.50	8.50	8.50	8.33	8.17	8.02	7.73	7.73	8.08	7.54		8.39	8.33	7.82

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	3.52	4.50	5.48	6.46	7.44	8.44	9.44	10.46	11.52	12.73	2 / 8				
reaction time	0.172	interval	1.00	0.98	0.98	0.98	0.98	1.00	1.00	1.02	1.06	1.21				2.96	2.96	3.08
wind	0.6 m/s	velocity	5.16	8.50	8.67	8.67	8.67	8.67	8.50	8.50	8.33	8.02	8.68	7.86		8.61	8.61	8.28

FINAL - 2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	10-Jun-18	time	2.54	3.56	4.52	5.50	6.48	7.46	8.46	9.50	10.54	11.60	12.82	2 / 7				
reaction time	0.167	interval	1.02	0.96	0.98	0.98	0.98	1.00	1.04	1.04	1.06	1.22				2.96	2.96	3.14
wind	1.3 m/s	velocity	5.12	8.33	8.85	8.67	8.67	8.67	8.50	8.17	8.17	8.02	8.61	7.80		8.61	8.61	8.12

FINAL - 2018 Bislett Games (Oslo, NOR) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	07-Jun-18	time	2.46	3.46	4.46	5.44	6.42	7.42	8.44	9.46	10.50	11.54	12.78	4 / 4				
reaction time	0.150	interval	1.00	1.00	0.98	0.98	1.00	1.02	1.02	1.04	1.04	1.24				2.98	3.00	3.10
wind	1.1 m/s	velocity	5.28	8.50	8.50	8.67	8.67	8.50	8.33	8.33	8.17	8.17	8.47	7.82		8.56	8.50	8.23

FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	12-May-18	time	2.48	3.50	4.48	5.46	6.44	7.42	8.42	9.42	10.44	11.50	12.76	2 / 5				
reaction time	0.173	interval	1.02	0.98	0.98	0.98	0.98	1.00	1.00	1.02	1.06	1.26				2.98	2.96	3.08
wind	0.9 m/s	velocity	5.24	8.33	8.67	8.67	8.67	8.67	8.50	8.50	8.33	8.02	8.33	7.84		8.56	8.61	8.28

FINAL - 2018 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	04-May-18	time	2.48	3.48	4.48	5.46	6.44	7.42	8.44	9.46	10.50	11.56	12.82	1 / 6				
reaction time	0.181	interval	1.00	1.00	0.98	0.98	0.98	1.02	1.02	1.04	1.06	1.26				2.98	2.98	3.12
wind	0.5 m/s	velocity	5.24	8.50	8.50	8.67	8.67	8.67	8.33	8.33	8.17	8.02	8.33	7.80		8.56	8.56	8.17

FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)*Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60m Hurdles Women*

date	03-Mar-18	time	2.68	3.71	4.70	5.67	6.66						7.94	2 / 6			
reaction time	0.168	interval	1.03	0.99	0.97	0.99						1.28				2.99	
wind		velocity	4.85	8.25	8.59	8.76	8.59					10.16	12.59			8.53	

Semi-Final 3 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date	11-Aug-17	time	2.42	3.45	4.46	5.45	6.43	7.42	8.42	9.43	10.46	11.53	12.87	5 / 4				
reaction time	0.149	interval	1.03	1.01	0.99	0.98	0.99	1.00	1.01	1.03	1.07	1.34				3.03	2.97	3.11
wind	0.2 m/s	velocity	5.37	8.25	8.42	8.59	8.67	8.59	8.50	8.42	8.25	7.94	7.84	7.77		8.42	8.59	8.20

FINAL - 2017 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	21-Jul-17	time	2.60	3.64	4.64	5.62	6.62	7.62	8.64	9.66	10.74	11.82	13.03	1 / 8				
reaction time	0.187	interval	7 steps	1.04	1.00	0.98	1.00	1.00	1.02	1.02	1.08	1.08	1.21			3.02	3.02	3.18
wind	-0.2 m/s	velocity	5.00	8.17	8.50	8.67	8.50	8.50	8.33	8.33	7.87	7.87	8.68	7.67		8.44	8.44	8.02

FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	09-Jul-17	time	2.54	3.54	4.54	5.54	6.54	7.56	8.58	9.62	10.66	11.74	13.01	1 / 7				
reaction time	0.157	interval	7 steps	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.04	1.08	1.27			3.00	3.04	3.16
wind	0.2 m/s	velocity	5.12	8.50	8.50	8.50	8.50	8.33	8.33	8.17	8.17	7.87	8.27	7.69		8.50	8.39	8.07

FINAL - 2017 Bislett Games (Oslo, NOR) (TV Analysis)

date	15-Jun-17	time	2.48	3.50	4.48	5.46	6.46	7.44	8.42	9.46	10.48	11.50	12.75	5 / 3				
reaction time	0.122	interval	7 steps	1.02	0.98	0.98	1.00	0.98	0.98	1.04	1.02	1.02	1.25	PB	2.98	2.96	3.08	
wind	0.8 m/s	velocity	5.24	8.33	8.67	8.67	8.50	8.67	8.67	8.17	8.33	8.33	8.40	7.84	8.56	8.61	8.28	

Henson (2020) - Athlete First: 2017 year end hurdle report

FINAL - 2016 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)

date	16-Jun-16	time	2.57	3.60	4.60	5.60	6.62	7.64	8.67	9.71	10.77	11.84	13.15	8 / 6				
reaction time	0.190	interval	7 steps	1.03	1.00	1.00	1.02	1.02	1.03	1.04	1.06	1.07	1.31		3.03	3.07	3.17	
wind	-0.4 m/s	velocity	5.06	8.25	8.50	8.50	8.33	8.33	8.25	8.17	8.02	7.94	8.02	7.60	8.42	8.31	8.04	

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

FINAL - 2016 Bislett Games (Oslo, NOR) (TV Analysis)

date	09-Jun-16	time	2.52	3.56	4.56	5.58	6.58	7.60	8.60	9.66	10.72	11.82	13.12	2 / 6				
reaction time	0.156	interval	7 steps	1.04	1.00	1.02	1.00	1.02	1.00	1.06	1.06	1.10	1.30		3.06	3.02	3.22	
wind	-0.4 m/s	velocity	5.16	8.17	8.50	8.33	8.50	8.33	8.50	8.02	8.02	7.73	8.08	7.62	8.33	8.44	7.92	

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

FINAL - 2011 Landskamp FIN-SWE-NOR (Tammefors, FIN)

date	05-Feb-11	time	2.56	3.64	4.68	5.74	6.80						8.38					
reaction time		interval		1.08	1.04	1.06	1.06						1.58		3.18			
		velocity	5.08	7.87	8.17	8.02	8.02						8.23	7.16	8.02			

Blomkvist (2011) - www.sub13.se

Penda, Helnsarah (USA)

Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)																		
CAA Hurdle Development (2020)																		
date	15-Feb-20	time	2.70	3.82	4.92	6.02	7.12						8.67	4 / 5				
reaction time	0.168	interval		1.12	1.10	1.10	1.10						1.55		3.32			
		velocity	4.81	7.59	7.73	7.73	7.73						8.39	6.92	7.68			

Pennella, Giulia (ITA) (1989)

FINAL - 2015 Italian National Championships (Torino, ITA)																		
Incalza (FIDAL - Centro Studi & Ricerche) (2015) - https://www.youtube.com/watch?v=E1vh3mZh5kw																		
date	25-Jul-15	time	2.80	3.87	4.89	5.90	6.90	7.91	8.93	9.92	10.96	12.01	13.12	7 / 1				
reaction time		interval		1.07	1.02	1.01	1.00	1.01	1.02	0.99	1.04	1.05	1.11		PB	3.10	3.03	3.08
wind	1.7 m/s	velocity	4.64	7.94	8.33	8.42	8.50	8.42	8.33	8.59	8.17	8.10	9.46	7.62		8.23	8.42	8.28

FINAL - 2014 Italian National Indoor Championships (Ancona, ITA)

FIDAL - Centro Studi & Ricerche (2014) - www.youtube.com/watch?v=7_FeLg_p08Y																		
date	22-Feb-14	time	2.66	3.66	4.67	5.67	6.65						8.04	5 / 1				
reaction time		interval		1.00	1.01	1.00	0.98						1.39		3.01			
		velocity	4.89	8.50	8.42	8.50	8.67						9.35	7.46	8.47			

Perry, Michelle (USA) (1979)

FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)																		
Graubner (2007) - http://www.fgs.uni-halle.de																		
date	22-Sep-07	time	2.59	3.62	4.62	5.62	6.60	7.58	8.58	9.57	10.56	11.58	12.68	6 / 1				
reaction time	0.132	interval		1.03	1.00	1.00	0.98	0.98	1.00	0.99	0.99	1.02	1.10		3.03	2.96	3.00	
wind	-0.3 m/s	velocity	5.02	8.25	8.50	8.50	8.67	8.67	8.50	8.59	8.59	8.33	9.55	7.89	8.42	8.61	8.50	

FINAL - 2007 IAAF World Championships (Osaka, JPN)

Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data																		
date	29-Aug-07	time	2.40	3.42	4.40	5.35	6.32	7.28	8.27	9.24	10.34	11.27	12.46	6 / 1				
reaction time	0.105	interval		1.02	0.98	0.95	0.97	0.96	0.99	0.97	1.10	0.93	1.19		2.95	2.92	3.00	
wind	-0.1 m/s	velocity	5.42	8.33	8.67	8.95	8.76	8.85	8.59	8.76	7.73	9.14	8.82	8.03	8.64	8.73	8.50	

Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)

Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles																		
date	28-Aug-07	time	2.57	3.57	4.57	5.54	6.52	7.50	8.48	9.46	10.44	11.47	12.55	5 / 1				
reaction time	0.137	interval		1.00	1.00	0.97	0.98	0.98	0.98	0.98	0.98	1.03	1.08		2.97	2.94	2.99	
wind	-0.1 m/s	velocity	5.06	8.50	8.50	8.76	8.67	8.67	8.67	8.67	8.67	8.67	8.25	9.72	7.97	8.59	8.67	8.53

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	27-Aug-07	time	2.57	3.59	4.59	5.59	6.57	7.55	8.55	9.55	10.55	11.62	12.72	5 / 1				
reaction time	0.129	interval		1.02	1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.07	1.10		3.02	2.96	3.07	
wind	0.2 m/s	velocity	5.06	8.33	8.50	8.50	8.67	8.67	8.50	8.50	8.50	7.94	9.55	7.86	8.44	8.61	8.31	

FINAL - 2007 USATF National Championships (Indianapolis, IN)

USATF Men's Hurdle Development (2007)																		
date	23-Jun-07	time	2.59	3.62	4.62	5.61	6.51	7.59	8.59	9.58	10.61	11.63	12.72	1 / 2				
reaction time		interval		1.03	1.00	0.99	0.90	1.08	1.00	0.99	1.03	1.02	1.09		3.02	2.98	3.04	
wind	-1.3 m/s	velocity	5.02	8.25	8.50	8.59	9.44	7.87	8.50	8.59	8.25	8.33	9.63	7.86	8.44	8.56	8.39	

FINAL - 2006 IAAF World Athletic Final (Stuttgart, GER) (TV Analysis)

Graubner (2008) - http://www.fgs.uni-halle.de																		
date	10-Sep-06	time	2.58	3.58	4.57	5.54	6.50	7.48	8.45	9.42	10.42	11.44	12.52	6 / 1				
reaction time	0.135	interval		1.00	0.99	0.97	0.96	0.98	0.97	0.97	1.00	1.02	1.08		2.96	2.91	2.99	
wind	0.6 m/s	velocity	5.04	8.50	8.59	8.76	8.85	8.67	8.76	8.76	8.50	8.33	9.72	7.99	8.61	8.76	8.53	

FINAL - 2006 DLV Gala (Nurnberg, GER)

Graubner (2008) - http://www.fgs.uni-halle.de																		
date	30-Jul-06	time	2.61	3.63	4.63	5.61	6.59	7.57	8.56	9.54	10.51	11.53	12.59	1 / 1				
reaction time	0.133	interval		1.02	1.00	0.98	0.98	0.98	0.99	0.98	0.97	1.02	1.06		3.00	2.95	2.97	
wind	0.5 m/s	velocity	4.98	8.33	8.50	8.67	8.67	8.67	8.59	8.67	8.76	8.33	9.91	7.94	8.50	8.64	8.59	

FINAL - 2006 USATF National Championships (Indianapolis, IN)

USATF Women's Hurdle Development (2006)

date	24-Jun-06	time	2.60	3.65	4.64	5.57	6.57	7.56	8.53	9.53	10.54	11.57	12.67	6 / 3				
reaction time		interval		1.05	0.99	0.93	1.00	0.99	0.97	1.00	1.01	1.03	1.10			2.97	2.96	3.04
wind	-0.4 m/s	velocity	5.00	8.10	8.59	9.14	8.50	8.59	8.76	8.50	8.42	8.25	9.55	7.89		8.59	8.61	8.39

FINAL - 2003 USATF National Championships (Palo Alto, CA)

USATF Women's Sprint Development (2003)

date	22-Jun-03	time	2.54	3.67	4.84	5.87	6.87	7.90	8.93	9.95	10.99	12.05	13.26	1 / 8 7				
reaction time		interval		1.13	1.17	1.03	1.00	1.03	1.03	1.02	1.04	1.06	1.21			3.33	3.06	3.12
wind	-0.1 m/s	velocity	5.12	7.52	7.26	8.25	8.50	8.25	8.25	8.33	8.17	8.02	8.68	7.54		7.66	8.33	8.17

Pesiridou, Elisávet (GRE) (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 European Championships (Amsterdam, NED) (TV Analysis)

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

date	07-Jul-16	time	2.62	3.68	4.72	5.72	6.72	7.74	8.76	9.76	10.80	11.84	13.05	8 / 6				
reaction time	0.142	interval	7 steps	1.06	1.04	1.00	1.00	1.02	1.02	1.00	1.04	1.04	1.21			3.10	3.04	3.08
wind	-0.7 m/s	velocity	4.96	8.02	8.17	8.50	8.50	8.33	8.33	8.50	8.17	8.17	8.68	7.66		8.23	8.39	8.28

Petrova, Natalya (URS) (1957)

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	11-Jul-81	time	2.65	3.69	4.70	5.74	6.82	7.91	8.95	9.96	11.07	12.16	13.32	1 / 4				
reaction time		interval		1.04	1.01	1.04	1.08	1.09	1.04	1.01	1.11	1.09	1.16			3.09	3.21	3.21
wind	0.3 m/s	velocity	4.91	8.17	8.42	8.17	7.87	7.80	8.17	8.42	7.66	7.80	9.05	7.51		8.25	7.94	7.94

Phillips, Leah (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 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)

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

date	29-Jun-24	time	2.57	3.62	4.66	5.70	6.73	7.76	8.81	9.84	10.91	12.00	13.24	8 / 8				
reaction time		interval		1.05	1.04	1.04	1.03	1.03	1.05	1.03	1.07	1.09	1.24			3.13	3.11	3.19
wind	0.8 m/s	velocity	5.06	8.10	8.17	8.17	8.25	8.25	8.10	8.25	7.94	7.80	8.10	7.55		8.15	8.20	7.99

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

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

date	28-Jun-24	time	2.58	3.62	4.66	5.69	6.74	7.77	8.84	9.88	10.93	12.01	13.23	3 / 4				
reaction time		interval		1.04	1.04	1.03	1.05	1.03	1.07	1.04	1.05	1.08	1.22			3.11	3.15	3.17
wind	0.2 m/s	velocity	5.04	8.17	8.17	8.25	8.10	8.25	7.94	8.17	8.10	7.87	8.24	7.56		8.20	8.10	8.04

FINAL - 2020 Millrose Games (New York, NY)PrimeTime Timing (2020) - <http://results.nyrrmillrosegames.org/>

date	08-Feb-20	time	2.70	3.79	4.86	5.90	6.94						8.44	1 / 7				
reaction time	0.217	interval		1.09	1.07	1.04	1.04						1.50			3.20		
		velocity	4.81	7.80	7.94	8.17	8.17						8.67	7.11		7.97		

Pickler, Diana (USA) (1983)

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

Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)

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

date	15-Aug-09	time	2.72	3.78	4.84	5.90	6.94	8.00	9.04	10.11	11.20	12.30	13.50	4 / 4				
reaction time	0.169	interval		1.06	1.06	1.06	1.04	1.06	1.04	1.07	1.09	1.10	1.20			3.18	3.14	3.26
wind	-0.4 m/s	velocity	4.78	8.02	8.02	8.02	8.17	8.02	8.17	7.94	7.80	7.73	8.75	7.41		8.02	8.12	7.82

Piffaretti, Emma (SUI) (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 Galà dei Castelli (Bellinzona, SUI) (TV Analysis)

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

date	15-Sep-20	time	2.72	3.84	4.96	6.08	7.18	8.32	9.48	10.64	11.80	12.98	14.27	1 / 8				
reaction time		interval	7 steps	1.12	1.12	1.12	1.10	1.14	1.16	1.16	1.16	1.18	1.29			3.36	3.40	3.50
wind	0.0 m/s	velocity	4.78	7.59	7.59	7.59	7.73	7.46	7.33	7.33	7.33	7.20	7.79	7.01		7.59	7.50	7.29

Pirelli, Camila (PAR) (1989)

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)

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

date	31-Jul-21	time	2.73	3.85	4.96	6.08	7.15	8.21	9.31	10.40	11.56	12.73	13.98	1 / 9				
reaction time	0.166	interval		1.12	1.11	1.12	1.07	1.06	1.10	1.09	1.16	1.17	1.25			3.35	3.23	3.42
wind	0.3 m/s	velocity	4.76	7.59	7.66	7.59	7.94	8.02	7.73	7.80	7.33	7.26	8.04	7.15		7.61	7.89	7.46

Piquereau, Anne (FRA) (1964)

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

FINAL - 1987 European Cup (Prague, TCH)

Sušanka (1987) - hints on computer processing of biomechanical data

date	28-Jun-87	time	2.68	3.72	4.76	5.79	6.80	7.84	8.87	9.88	10.96	12.04	13.15	3 / 5				
reaction time		interval		1.04	1.04	1.03	1.01	1.04	1.03	1.01	1.08	1.08	1.11			3.11	3.08	3.17
wind	-0.9 m/s	velocity	4.85	8.17	8.17	8.25	8.42	8.17	8.25	8.42	7.87	7.87	9.46	7.60		8.20	8.28	8.04

FINAL - 1986 French National Indoor Championships (Lieviv, FRA)

Aubert (1986) - indoor - video - haies, etude des performances

date	26-Jan-86	time	2.61	3.66	4.67	5.68	6.67						8.00	1 / 1				
reaction time		interval		1.05	1.01	1.01	0.99						1.33			3.07		
		velocity	4.98	8.10	8.42	8.42	8.59						9.77	7.50		8.31		

Semi-Final ? - 1986 French National Indoor Championships (Lieviv, FRA)

Aubert (1986) - indoor - video - haies, etude des performances

date	25-Jan-86	time	2.67	3.74	4.76	5.76	6.78						8.13	1 / 1				
reaction time		interval		1.07	1.02	1.00	1.02						1.35			3.09		
		velocity	4.87	7.94	8.33	8.50	8.33						9.63	7.38		8.25		

reaction time	0.156	interval	1.00	0.98	0.98	0.97	0.97	1.00	0.98	1.05	1.04	1.25			2.96	2.94	3.07	
wind	2.0 m/s	velocity	5.26	8.50	8.67	8.67	8.76	8.76	8.50	8.67	8.10	8.17	8.04	7.88	8.61	8.67	8.31	
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	2.48	3.52	4.50	5.48	6.50						7.92	8 / 3				
reaction time	0.156	interval	1.04	0.98	0.98	1.02							1.42		3.00			
		velocity	5.24	8.17	8.67	8.67	8.33						9.15	7.58	8.50			
FINAL - 2020 New Balance Indoor Grand Prix (Boston, MA)													<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>					
date	25-Jan-20	time	2.66	3.73	4.76	5.78	6.79						8.21	8 / 8				
reaction time		interval	1.07	1.03	1.02	1.01							1.42		3.12			
		velocity	4.89	7.94	8.25	8.33	8.42						9.15	7.31	8.17			
Heat 2 - 2020 New Balance Indoor Grand Prix (Boston, MA)													<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>					
date	25-Jan-20	time	2.67	3.76	4.79	5.81	6.83						8.24	3 / 4				
reaction time		interval	1.09	1.03	1.02	1.02							1.41		3.14			
		velocity	4.87	7.80	8.25	8.33	8.33						9.22	7.28	8.12			
FINAL - 2017 Bislett Games (Oslo, NOR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	15-Jun-17	time	2.50	3.52	4.54	5.54	6.54	7.54	8.58	9.58	10.62	11.66	12.93	3 / 5				
reaction time	0.124	interval	1.02	1.02	1.00	1.00	1.00	1.04	1.00	1.04	1.04	1.27			3.04	3.04	3.08	
wind	0.8 m/s	velocity	5.20	8.33	8.33	8.50	8.50	8.50	8.17	8.50	8.17	8.17	8.27	7.73	8.39	8.39	8.28	
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	2.53	2.63	4.66	5.68	6.70	7.73	8.73	9.76	10.83	11.90	13.20	1 / 8				
reaction time		interval	0.10	2.03	1.02	1.02	1.03	1.00	1.03	1.07	1.07	1.30			3.15	3.05	3.17	
wind	1.0 m/s	velocity	5.14	85.00	4.19	8.33	8.33	8.25	8.50	8.25	7.94	7.94	8.08	7.58	8.10	8.36	8.04	
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	17-Aug-16	time	2.40	3.40	4.40	5.37	6.34	7.34	8.34	9.34	10.37	11.41	12.76	3 / 7				
reaction time	0.142	interval	1.00	1.00	0.97	0.97	1.00	1.00	1.00	1.03	1.04	1.35			2.97	2.97	3.07	
wind	0.0 m/s	velocity	5.42	8.50	8.50	8.76	8.76	8.50	8.50	8.50	8.25	8.17	7.78	7.84	8.59	8.59	8.31	
FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	22-Jul-16	time	2.48	3.50	4.50	5.50	6.48	7.46	8.46	9.46	10.46	11.48	12.70	2 / 6				
reaction time	0.119	interval	1.02	1.00	1.00	0.98	0.98	0.98	1.00	1.00	1.00	1.02	1.22		3.02	2.96	3.02	
wind	0.3 m/s	velocity	5.24	8.33	8.50	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.61	7.87	8.44	8.61	8.44	
FINAL - 2016 European Championships (Amsterdam, NED) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	07-Jul-16	time	2.52	3.54	4.52	5.50	6.50	7.48	8.46	9.48	10.50	11.54	12.76	4 / 3				
reaction time	0.133	interval	1.02	0.98	0.98	1.00	0.98	0.98	1.02	1.02	1.04	1.22			2.98	2.96	3.08	
wind	-0.7 m/s	velocity	5.16	8.33	8.67	8.67	8.50	8.67	8.67	8.33	8.33	8.17	8.61	7.84	8.56	8.61	8.28	
FINAL - 2016 Bislett Games (Oslo, NOR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	09-Jun-16	time	2.52	3.54	4.56	5.56	6.54	7.54	8.54	9.56	10.60	11.68	12.94	7 / 4				
reaction time	0.143	interval	1.02	1.02	1.00	0.98	1.00	1.00	1.02	1.04	1.08	1.26			3.04	2.98	3.14	
wind	-0.4 m/s	velocity	5.16	8.33	8.33	8.50	8.67	8.50	8.50	8.33	8.17	7.87	8.33	7.73	8.39	8.56	8.12	
FINAL - 2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	05-Jun-16	time	2.50	3.53	4.53	5.56	6.53	7.53	8.53	9.53	10.53	11.60	12.86	3 / 5				
reaction time	0.136	interval	1.03	1.00	1.03	0.97	1.00	1.00	1.00	1.00	1.07	1.26			3.06	2.97	3.07	
wind	-0.3 m/s	velocity	5.20	8.25	8.50	8.25	8.76	8.50	8.50	8.50	8.50	7.94	8.33	7.78	8.33	8.59	8.31	
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	28-May-16	time	2.48	3.52	4.52	5.50	6.48	7.48	8.48	9.50	10.54	11.60	12.90	7 / 7				
reaction time		interval	1.04	1.00	0.98	0.98	0.98	1.00	1.00	1.02	1.04	1.06	1.30		3.02	2.98	3.12	
wind	0.7 m/s	velocity	5.24	8.17	8.50	8.67	8.67	8.50	8.50	8.33	8.17	8.02	8.08	7.75	8.44	8.56	8.17	
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)													<i>Henson (2021) - Athlete First: major championships report</i>					
date	28-Aug-15	time	2.52	3.52	4.50	5.48	6.46	7.42	8.40	9.38	10.38	11.46	12.68	7 / 5				
reaction time	0.140	interval	1.00	0.98	0.98	0.98	0.96	0.98	0.98	0.98	1.00	1.08	1.22		2.96	2.92	3.06	
wind	-0.3 m/s	velocity	5.16	8.50	8.67	8.67	8.67	8.85	8.67	8.67	8.50	7.87	8.61	7.89	8.61	8.73	8.33	
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)													<i>Henson (2021) - Athlete First: major championships report</i>					
date	17-Aug-13	time	2.46	3.48	4.46	5.42	6.38	7.34	8.30	9.30	10.30	11.32	12.55	4 / 3				
reaction time	0.149	interval	1.02	0.98	0.96	0.96	0.96	0.96	0.96	1.00	1.00	1.02	1.23		2.96	2.88	3.02	
wind	-0.6 m/s	velocity	5.28	8.33	8.67	8.85	8.85	8.85	8.85	8.50	8.50	8.33	8.54	7.97	8.61	8.85	8.44	
FINAL - 2011 IAAF World Championships (Daegu, KOR)													<i>KSSB (2011) - biomechanical analysis of women's 100m hurdle</i>					
date	03-Sep-11	time	2.57	3.57	4.57	5.50	6.46	7.43	8.40	9.38	10.36	11.40	12.63	5 / 4				
reaction time	0.158	interval	1.00	1.00	0.93	0.96	0.97	0.97	0.98	0.98	1.04	1.23			2.93	2.90	3.00	
wind	1.1 m/s	velocity	5.06	8.50	8.50	9.14	8.85	8.76	8.76	8.67	8.67	8.17	8.54	7.92	8.70	8.79	8.50	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Powell, Virginia (Ginnie) (USA) (1983)																		
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)																		
date	13-Mar-10	time	2.63	3.65	4.64	5.62	6.61						7.97	1 / 5				
reaction time	0.150	interval		1.02	0.99	0.98	0.99										2.99	
		velocity	4.94	8.33	8.59	8.67	8.59					1.36	9.56	7.53			8.53	
Crawford, Virginia (Ginnie) (USA) (1983)																		
FINAL - 2009 IAAF World Championships (Berlin, GER)																		
date	19-Aug-09	time	2.60	3.62	4.60	5.56	6.52	7.50	8.50	9.51	10.55	11.63		12.78	2 / 6			
reaction time	0.146	interval		1.02	0.98	0.96	0.96	0.98	1.00	1.01	1.04	1.08	1.15			2.96	2.94	3.13
wind	0.2 m/s	velocity	5.00	8.33	8.67	8.85	8.85	8.67	8.50	8.42	8.17	7.87	9.13	7.82		8.61	8.67	8.15
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)																		
date	19-Aug-09	time	2.58	3.60	4.58	5.55	6.51	7.49	8.49	9.52	10.56	11.60		12.73	6 / 3			
reaction time	0.138	interval		1.02	0.98	0.97	0.96	0.98	1.00	1.03	1.04	1.04	1.13			2.97	2.94	3.11
wind	-0.1 m/s	velocity	5.04	8.33	8.67	8.76	8.85	8.67	8.50	8.25	8.17	8.17	9.29	7.86		8.59	8.67	8.20
Heat 4 - 2009 IAAF World Championships (Berlin, GER)																		
date	18-Aug-09	time	2.60	3.60	4.58	5.56	6.52	7.50	8.50	9.51	10.54	11.61		12.77	6 / 2			
reaction time	0.156	interval		1.00	0.98	0.98	0.96	0.98	1.00	1.01	1.03	1.07	1.16			2.96	2.94	3.11
wind	-0.3 m/s	velocity	5.00	8.50	8.67	8.67	8.85	8.67	8.50	8.42	8.25	7.94	9.05	7.83		8.61	8.67	8.20
FINAL - 2008 USA Olympic Trials (Eugene, OR)																		
date	06-Jul-08	time	2.56	3.58	4.58	5.55	6.55	7.54	8.52	9.50	10.51	11.59		12.74	8 / 6			
reaction time		interval		1.02	1.00	0.97	1.00	0.99	0.98	0.98	1.01	1.08	1.15			2.99	2.97	3.07
wind	3.8 m/s	velocity	5.08	8.33	8.50	8.76	8.50	8.59	8.67	8.67	8.42	7.87	9.13	7.85		8.53	8.59	8.31
FINAL - 2007 IAAF World Championships (Osaka, JPN)																		
date	29-Aug-07	time	2.55	3.57	4.55	5.52	6.47	7.44	8.41	9.39	10.37	11.39		12.55	9 / 5			
reaction time	0.120	interval		1.02	0.98	0.97	0.95	0.97	0.97	0.98	0.98	1.02	1.16			2.97	2.89	2.98
wind	-0.1 m/s	velocity	5.10	8.33	8.67	8.76	8.95	8.76	8.76	8.67	8.67	8.33	9.05	7.97		8.59	8.82	8.56
Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)																		
date	28-Aug-07	time	2.62	3.64	4.62	5.60	6.58	7.55	8.53	9.53	10.53	11.55		12.67	7 / 4			
reaction time	0.133	interval		1.02	0.98	0.98	0.98	0.97	0.98	1.00	1.02	1.12				2.98	2.93	3.02
wind	-0.1 m/s	velocity	4.96	8.33	8.67	8.67	8.67	8.76	8.67	8.50	8.50	8.33	9.38	7.89		8.56	8.70	8.44
Heat 3 - 2007 IAAF World Championships (Osaka, JPN)																		
date	27-Aug-07	time	2.64	3.66	4.66	5.64	6.62	7.60	8.60	9.58	10.60	11.63		12.74	6 / 1			
reaction time	0.151	interval		1.02	1.00	0.98	0.98	0.98	1.00	0.98	1.02	1.03	1.11			3.00	2.96	3.03
wind	-0.8 m/s	velocity	4.92	8.33	8.50	8.67	8.67	8.67	8.50	8.67	8.33	8.25	9.46	7.85		8.50	8.61	8.42
FINAL - 2007 USATF National Championships (Indianapolis, IN)																		
date	23-Jun-07	time	2.59	3.57	4.57	5.56	6.55	7.53	8.51	9.51	10.50	11.53		12.63	1 / 1			
reaction time		interval		0.98	1.00	0.99	0.99	0.98	0.98	1.00	0.99	1.03	1.10			2.97	2.95	3.02
wind	-1.3 m/s	velocity	5.02	8.67	8.50	8.59	8.59	8.67	8.67	8.50	8.59	8.25	9.55	7.92		8.59	8.64	8.44
FINAL - 2006 USATF National Championships (Indianapolis, IN)																		
date	24-Jun-06	time	2.54	3.54	4.52	5.47	6.44	7.37	8.38	9.37	10.38	11.46		12.63	4 / 1			
reaction time		interval		1.00	0.98	0.95	0.97	0.93	1.01	0.99	1.01	1.08	1.17			2.93	2.91	3.08
wind	-0.4 m/s	velocity	5.12	8.50	8.67	8.95	8.76	9.14	8.42	8.59	8.42	7.87	8.97	7.92		8.70	8.76	8.28
Press, Irina (URS) (1939)		H1	H2	H3	H4	H5	H6	H7	H8				Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles)																		
date	19-Oct-64	time			4.1		7.1							10.6	4 / 4			
reaction time		interval	7 steps				3.00						3.50	(10.62)				
wind	2.3 m/s	velocity		6.83			8.00						6.86	9.43				
Semi-Final 1 - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles)																		
date	19-Oct-64	time			4.3		7.2							10.8	1 / 3			
reaction time		interval	7 steps				2.90						3.60	(10.85)				
wind	???	velocity		6.51			8.28						6.67	9.26				
Prochová, Hana (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 - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE)																		
date	14-Feb-15	time	2.87	4.03	5.20	6.33	7.52							8.96	2 / 3			
reaction time	0.132	interval		1.16	1.17	1.13	1.19						1.44			3.46		
		velocity	4.53	7.33	7.26	7.52	7.14						9.03	6.70		7.37		
Pu Jing (CHN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																		
date	23-Aug-19	time	3.02	4.29	5.57	6.81	8.09	9.38	10.68	11.98	13.30	14.62		15.99	3 / 7			
reaction time	0.207	interval		1.27	1.28	1.24	1.28	1.29	1.30	1.30	1.32	1.32	1.37			3.79	3.87	3.94
wind	?? m/s	velocity	4.30	6.69	6.64	6.85	6.64	6.59	6.54	6.54	6.44	6.44	7.66	6.25		6.73	6.59	6.47

Heptathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)

CAA Hurdle Development (2019)

date	08-Jul-19	time	3.02	4.35	5.65	6.94	8.15	9.40	10.66	11.94	13.25	14.57		15.93	8 / 8			
reaction time	0.213	interval		1.33	1.30	1.29	1.21	1.25	1.26	1.28	1.31	1.32	1.36			3.92	3.72	3.91
wind	0.8 m/s	velocity	4.30	6.39	6.54	6.59	7.02	6.80	6.75	6.64	6.49	6.44	7.72	6.28		6.51	6.85	6.52

Purvis, Julian (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 - 2005 USATF National Junior Championships (Carson, CA)

USATF Women's Sprint Development (2005)

date	23-Jun-05	time	2.79	3.87	5.04	6.16	7.29	8.45	9.54	10.74	11.91	13.09		14.40	9 / 9			
reaction time		interval		1.08	1.17	1.12	1.13	1.16	1.09	1.20	1.17	1.18	1.31			3.37	3.38	3.55
wind	-0.7 m/s	velocity	4.66	7.87	7.26	7.59	7.52	7.33	7.80	7.08	7.26	7.20	8.02	6.94		7.57	7.54	7.18

Qin Hongyan (CHN) (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 3 - 2021 Chinese National Games (Xi'an, CHN)

CAA Hurdle Development (2021)

date	21-Sep-21	time	2.62	3.66	4.79	5.85	6.94	7.99	9.09	10.22	11.34	12.50		13.85	4 / 6			
reaction time	0.158	interval		1.04	1.13	1.06	1.09	1.05	1.10	1.13	1.12	1.16	1.35			3.23	3.24	3.41
wind	0.1 m/s	velocity	4.96	8.17	7.52	8.02	7.80	8.10	7.73	7.52	7.59	7.33	7.44	7.22		7.89	7.87	7.48

Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.73	3.84	4.96	6.05	7.14	8.25	9.36	10.48	11.65	12.83		14.15	7 / 4			
reaction time	0.230	interval		1.11	1.12	1.09	1.09	1.11	1.11	1.12	1.17	1.18	1.32			3.32	3.31	3.47
wind	-1.8 m/s	velocity	4.76	7.66	7.59	7.80	7.80	7.66	7.66	7.59	7.26	7.20	7.61	7.07		7.68	7.70	7.35

FINAL - 2021 Chinese East Region Athletics Meeting (Fuzhou, CHN)

CAA Hurdle Development (2021)

date	23-May-21	time	2.73	3.84	4.93	6.01	7.09	8.17	9.27	10.37	11.49	12.65		13.93	3 / 7			
reaction time	0.179	interval		1.11	1.09	1.08	1.08	1.08	1.10	1.10	1.12	1.16	1.28	PB		3.28	3.26	3.38
wind	-0.5 m/s	velocity	4.76	7.66	7.80	7.87	7.87	7.87	7.73	7.73	7.59	7.33	7.85	7.18		7.77	7.82	7.54

FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)

CAA Hurdle Development (2021)

date	08-Apr-21	time	2.76	3.88	5.00	6.14	7.24	8.38	9.50	10.64	11.78	12.94		14.24	1 / 7			
reaction time		interval		1.12	1.12	1.14	1.10	1.14	1.12	1.14	1.14	1.16	1.30			3.38	3.36	3.44
wind	-0.1 m/s	velocity	4.71	7.59	7.59	7.46	7.73	7.46	7.59	7.46	7.46	7.33	7.73	7.02		7.54	7.59	7.41

U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN)

CAA Hurdle Development (2019)

date	14-Aug-19	time	2.75	3.89	5.04	6.16	7.27	8.39	9.53	10.68	11.86	13.05		14.39	8 / 4			
reaction time	0.162	interval		1.14	1.15	1.12	1.11	1.12	1.14	1.15	1.18	1.19	1.34			3.41	3.37	3.52
wind	0.5 m/s	velocity	4.73	7.46	7.39	7.59	7.66	7.59	7.46	7.39	7.20	7.14	7.84	6.95		7.48	7.57	7.24

Quenot, Fanny (FRA) (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 French National Championships (Albi, FRA) (TV Analysis)

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

date	12-Sep-20	time	2.60	3.61	4.66	5.70	6.75	7.80	8.81	9.93	10.94	12.05		13.36	6 / 3			
reaction time	0.483	interval		1.01	1.05	1.04	1.05	1.05	1.01	1.12	1.01	1.11	1.31			3.10	3.11	3.24
wind	1.5 m/s	velocity	5.00	8.42	8.10	8.17	8.10	8.10	8.42	7.59	8.42	7.66	7.67	7.49		8.23	8.20	7.87

Rajmová, Katerina (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 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	2.81	3.99	5.13	6.28	7.45	8.61	9.75	10.95	12.24				2 / --			
reaction time	0.144	interval		1.18	1.14	1.15	1.17	1.16	1.14	1.20	1.29		DQ			3.47	3.47	
wind	-1.0 m/s	velocity	4.63	7.20	7.46	7.39	7.26	7.33	7.46	7.08	6.59					7.35	7.35	

Rákosníková, Iveta (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) (76cm)

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

date	28-Jun-14	time	2.92	4.13	5.36	6.61	7.87	9.16	10.46	11.79	13.11	14.48		16.04	8 / 4			
reaction time	0.192	interval		1.21	1.23	1.25	1.26	1.29	1.30	1.33	1.32	1.37	1.56			3.69	3.85	4.02
wind	-7.3 m/s	velocity	4.45	7.02	6.91	6.80	6.75	6.59	6.54	6.39	6.44	6.20	6.73	6.23		6.91	6.62	6.34

Rakotozafy, Rosa (MAD) (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	2.53	3.56	4.57	5.59	6.58	7.60	8.60	9.62	10.66	11.72		13.07	1 / 5			
reaction time	0.157	interval		1.03	1.01	1.02	0.99	1.02	1.00	1.02	1.04	1.06	1.35			3.06	3.01	3.12
wind	1.5 m/s	velocity	5.14	8.25	8.42	8.33	8.59	8.33	8.50	8.33	8.17	8.02	7.78	7.65		8.33	8.47	8.17

Rallins, Mamie (USA) (1941)

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

Heat 3 - 1972 Olympic Games (Munich, FRG)

Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften

date	04-Sep-72	time	2.5				6.7							13.51	4 / 3			
reaction time		interval					4.26											
wind	0.6 m/s	velocity	5.24				7.98							7.40				

Ramalanirina, Nicole (FRA) (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 2 - 1999 IAAF World Championships (Sevilla, ESP)

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

date	27-Aug-99	time	2.59	3.63	4.67	5.67	6.68	7.67	8.67	9.69	10.72	11.76		12.96	2 / 7			
reaction time	0.151	interval		1.04	1.04	1.00	1.01	0.99	1.00	1.02	1.03	1.04	1.20			3.08	3.00	3.09
wind	1.0 m/s	velocity	5.02	8.17	8.17	8.50	8.42	8.59	8.50	8.33	8.25	8.17	8.75	7.72		8.28	8.50	8.25

FINAL - 1998 European Championships (Budapest, HUN)*Sanchez (1998) - Budapest '98: análisis de la carreras con villas*

date	23-Aug-98	time	2.59	3.63	4.67	5.66	6.60	7.61	8.61	9.63	10.66	11.73	12.87	5 / 4			
reaction time		interval		1.04	1.04	0.99	0.94	1.01	1.00	1.02	1.03	1.07	1.14		3.07	2.95	3.12
wind	1.5 m/s	velocity	5.02	8.17	8.17	8.59	9.04	8.42	8.50	8.33	8.25	7.94	9.21	7.77	8.31	8.64	8.17

Rard-Reuse, Clélia (SUI) (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 Athletissime (Luusanne, SUI) (TV Analysis)***Henson (2020) - Athlete First: 2016 year end hurdle report*

date	25-Aug-16	time	2.56	3.60	4.62	5.64	6.66	7.66	8.70	9.72	10.74	11.78	13.00	3 / 6			
reaction time	0.142	interval		1.04	1.02	1.02	1.02	1.00	1.04	1.02	1.02	1.04	1.22		3.08	3.06	3.08
wind	0.7 m/s	velocity	5.08	8.17	8.33	8.33	8.33	8.50	8.17	8.33	8.33	8.17	8.61	7.69	8.28	8.33	8.28

FINAL - 2016 European Championships (Amsterdam, NED) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	07-Jul-16	time	2.54	3.58	4.60	5.62	6.62	7.62	8.62	9.66	10.70	11.76	12.96	6 / 4			
reaction time	0.133	interval		1.04	1.02	1.02	1.00	1.00	1.00	1.04	1.04	1.06	1.20		3.08	3.00	3.14
wind	-0.7 m/s	velocity	5.12	8.17	8.33	8.33	8.50	8.50	8.50	8.17	8.17	8.02	8.75	7.72	8.28	8.50	8.12

FINAL - 2016 Schweizer Verein Meisterschaften (St. Gallen, SUI)*Swiss Athletics (2016) - sprint and hurdle analysis*

date	21-May-16	time	2.70	3.72	4.74	5.76	6.76	7.78	8.82	9.84	10.88	11.94	13.09	1 / 1			
reaction time		interval		1.02	1.02	1.02	1.00	1.02	1.04	1.02	1.04	1.06	1.15		3.06	3.06	3.12
wind	-0.4 m/s	velocity	4.81	8.33	8.33	8.33	8.50	8.33	8.17	8.33	8.17	8.02	9.13	7.64	8.33	8.33	8.17

FINAL - 2016 Hürden-und Sprintmeeting (Basel, SUI)*Swiss Athletics (2016) - sprint and hurdle analysis*

date	07-May-16	time	2.68	3.70	4.72	5.72	6.74	7.76	8.78	9.82	10.84	11.90	13.06	1 / 1			
reaction time		interval		1.02	1.02	1.00	1.02	1.02	1.02	1.04	1.02	1.06	1.16	PB	3.04	3.06	3.12
wind	1.0 m/s	velocity	4.85	8.33	8.33	8.50	8.33	8.33	8.33	8.17	8.33	8.02	9.05	7.66	8.39	8.33	8.17

Rašková, Adéla (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) (76cm)***Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	3.08	4.44	5.77	7.13	8.48	9.87	11.21	12.61	13.97	15.36	16.83	6 / 8			
reaction time	0.210	interval		1.36	1.33	1.36	1.35	1.39	1.34	1.40	1.36	1.39	1.47		4.05	4.08	4.15
wind	-1.8 m/s	velocity	4.22	6.25	6.39	6.25	6.30	6.12	6.34	6.07	6.25	6.12	7.14	5.94	6.30	6.25	6.14

Redoúmi, Flóra (GRE) (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 European Cup (Munich, GER)***Graubner (2007) - <http://www.fgs.uni-halle.de>*

date	24-Jun-07	time	2.72	3.76	4.78	5.81	6.81	7.83	8.84	9.87	10.92	11.98	13.15	1 / 5			
reaction time	0.222	interval		1.04	1.02	1.03	1.00	1.02	1.01	1.03	1.05	1.06	1.17		3.09	3.03	3.14
wind	0.9 m/s	velocity	4.78	8.17	8.33	8.25	8.50	8.33	8.42	8.25	8.10	8.02	8.97	7.60	8.25	8.42	8.12

Reháková, Karolína (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)***Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.96	4.20	5.48	6.74	8.01	9.29	10.63	11.93	13.23	14.57	15.94	1 / 6			
reaction time	0.233	interval		1.24	1.28	1.26	1.27	1.28	1.34	1.30	1.30	1.34	1.37		3.78	3.89	3.94
wind	-4.5 m/s	velocity	4.39	6.85	6.64	6.75	6.69	6.64	6.34	6.54	6.54	6.34	7.66	6.27	6.75	6.56	6.47

Rehwagen, Corinna (GER) (1981)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2002 German National Indoor Championships (Sindelfingen, GER)***Hücklekemkes (2002) - explosive starten vielfältig erlernen*

date	16-Feb-02	time	2.66	3.73	4.78	5.82	6.88						8.22	1 / 3			
reaction time	0.149	interval		1.07	1.05	1.04	1.06						1.34		3.16		
wind		velocity	4.89	7.94	8.10	8.17	8.02						9.70	7.30	8.07		

Remesová, Dominika (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)***Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	3.04	4.27	5.57	6.83	8.10	9.42	10.75	12.09	13.47	15.08	16.79	2 / 6			
reaction time	0.225	interval		1.23	1.30	1.26	1.27	1.32	1.33	1.34	1.38	1.61	1.71		3.79	3.92	4.33
wind	-1.5 m/s	velocity	4.28	6.91	6.54	6.75	6.69	6.44	6.39	6.34	6.16	5.28	6.14	5.96	6.73	6.51	5.89

Ren Shimei (CHN) (1996)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)***CAA Hurdle Development (2021)*

date	24-Jun-21	time	2.73	3.87	5.00	6.15	7.29	8.44	9.59	10.76	11.93	13.11	14.35	4 / 1			
reaction time	0.167	interval		1.14	1.13	1.15	1.14	1.15	1.15	1.17	1.17	1.18	1.24		3.42	3.44	3.52
wind	0.2 m/s	velocity	4.76	7.46	7.52	7.39	7.46	7.39	7.39	7.26	7.26	7.20	8.10	6.97	7.46	7.41	7.24

FINAL - 2021 National Grand Prix (Chengdu, CHN)*CAA Hurdle Development (2021)*

date	02-Apr-21	time	2.81	3.94	5.08	6.22	7.34	8.48	9.61	10.73	11.86	13.02	14.25	2 / 7			
reaction time	0.229	interval		1.13	1.14	1.14	1.12	1.14	1.13	1.12	1.13	1.16	1.23		3.41	3.39	3.41
wind	0.1 m/s	velocity	4.63	7.52	7.46	7.46	7.59	7.46	7.52	7.59	7.52	7.33	8.17	7.02	7.48	7.52	7.48

Heat 2 - 2021 National Grand Prix (Chengdu, CHN)*CAA Hurdle Development (2021)*

date	02-Apr-21	time	2.74	3.86	4.98	6.10	7.20	8.30	9.42	10.56	11.68	12.82	14.09	4 / 2			
reaction time	0.195	interval		1.12	1.12	1.12	1.10	1.10	1.12	1.14	1.12	1.14	1.27		3.36	3.32	3.40
wind	0.4 m/s	velocity	4.74	7.59	7.59	7.59	7.73	7.73	7.59	7.46	7.59	7.46	7.91	7.10	7.59	7.68	7.50

Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)

CAA Hurdle Development (2019)

date	08-Jul-19	time	2.85	4.02	5.19	6.36	7.51	8.69	9.86	11.09	12.31	13.56		14.92	2 / 4			
reaction time	0.224	interval		1.17	1.17	1.17	1.15	1.18	1.17	1.23	1.22	1.25	1.36	PB		3.51	3.50	3.70
wind	0.1 m/s	velocity	4.56	7.26	7.26	7.26	7.39	7.20	7.26	6.91	6.97	6.80	7.72	6.70		7.26	7.29	6.89

Reppert, Axelle (FRA) (2001)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)

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

date	12-Sep-20	time	2.63	3.75	4.79	5.91	6.99	8.07	9.18	10.33	11.44	12.60		13.97	8 / 7			
reaction time	0.223	interval		1.12	1.04	1.12	1.08	1.08	1.11	1.15	1.11	1.16	1.37	PB		3.28	3.27	3.42
wind	1.5 m/s	velocity	4.94	7.59	8.17	7.59	7.87	7.87	7.66	7.39	7.66	7.33	7.34	7.16		7.77	7.80	7.46

Richardson, Ke'Nyia (USA) (1989)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2005 USATF National Junior Championships (Carson, CA)

USATF Women's Sprint Development (2005)

date	23-Jun-05	time	2.75	3.90	5.04	6.16	7.26	8.31	9.54	10.71	11.85	13.01		14.36	1 / 8			
reaction time		interval		1.15	1.14	1.12	1.10	1.05	1.23	1.17	1.14	1.16	1.35	PB		3.41	3.38	3.47
wind	-0.7 m/s	velocity	4.73	7.39	7.46	7.59	7.73	8.10	6.91	7.26	7.46	7.33	7.78	6.96		7.48	7.54	7.35

Rito, Nonoka (JPN) (1995)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heptathlon - Heat 3 - 2022 Japanese Multi-Event National Championships (Akita, JPN)

Takefu (2023) - performance analysis of heptathletes in the 2022 season

date	04-Jun-22	time	2.77	3.90	5.03	6.18	7.30	8.46	9.61	10.76	11.94	13.16		14.49	9 / 7			
reaction time		interval		1.13	1.13	1.15	1.12	1.16	1.15	1.15	1.18	1.22	1.33			3.41	3.43	3.55
wind	0.4 m/s	velocity	4.69	7.52	7.52	7.39	7.59	7.33	7.39	7.39	7.20	6.97	7.56	6.90		7.48	7.43	7.18

Heptathlon - Heat 3 - 2021 Japanese Multi-Event National Championships (Nagano, JPN)

Matsubayashi (2021) - 100m hurdles race analysis of heptathletes in the 2021 season

date	12-Jun-21	time	2.72	3.82	4.93	6.02	7.12	8.23	9.33	10.48	11.62	12.80		14.05	3 / 6			
reaction time	0.169	interval		1.10	1.11	1.09	1.10	1.11	1.10	1.15	1.14	1.18	1.25			3.30	3.31	3.47
wind	1.4 m/s	velocity	4.78	7.73	7.66	7.80	7.73	7.66	7.73	7.39	7.46	7.20	8.04	7.12		7.73	7.70	7.35

Roberts, Trecia (THA) (1971)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)

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

date	27-Aug-99	time	2.51	3.51	4.52	5.51	6.49	7.49	8.48	9.50	10.53	11.58		12.83	7 / 5			
reaction time	0.170	interval		1.00	0.170	0.99	0.98	1.00	0.99	1.02	1.03	1.05	1.25	NR		3.00	2.97	3.10
wind	1.9 m/s	velocity	5.18	8.50	50.00	8.59	8.67	8.50	8.59	8.33	8.25	8.10	8.40	7.79		8.50	8.59	8.23

Robinson, Kaylah (USA) (1999)

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

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

date	29-Jun-24	time	2.60	3.66	4.69	5.71	6.71	7.72	8.74	9.76	10.79	11.85		13.07	3 / 6			
reaction time		interval		1.06	1.03	1.02	1.00	1.01	1.02	1.02	1.03	1.06	1.22			3.11	3.03	3.11
wind	0.8 m/s	velocity	5.00	8.02	8.25	8.33	8.50	8.42	8.33	8.33	8.25	8.02	8.24	7.65		8.20	8.42	8.20

Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)

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

date	28-Jun-24	time	2.69	3.74	4.74	5.74	6.72	7.70	8.68	9.70	10.78	11.86		13.08	6 / 4			
reaction time		interval		1.05	1.00	1.00	0.98	0.98	0.98	1.02	1.08	1.08	1.22			3.05	2.94	3.18
wind	0.1 m/s	velocity	4.83	8.10	8.50	8.50	8.67	8.67	8.67	8.33	7.87	7.87	8.24	7.65		8.36	8.67	8.02

FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)

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

date	11-Jun-22	time	2.50	3.55	4.57	5.59	6.59	7.59	8.57	9.57	10.59	11.62		12.86	3 / 5			
reaction time		interval		1.05	1.02	1.02	1.00	1.00	0.98	1.00	1.02	1.03	1.24			3.09	2.98	3.05
wind	-0.2 m/s	velocity	5.20	8.10	8.33	8.33	8.50	8.50	8.67	8.50	8.33	8.25	8.10	7.78		8.25	8.56	8.36

University FINAL - 2022 Texas Relays (Austin, TX) (TV Analysis)

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

date	26-Mar-22	time	2.50	3.50	4.50	5.47	6.43	7.40	8.36	9.30	10.28	11.27		12.49	5 / 2			
reaction time		interval		1.00	1.00	0.97	0.96	0.97	0.96	0.94	0.98	0.99	1.22			2.97	2.89	2.91
wind	2.5 m/s	velocity	5.20	8.50	8.50	8.76	8.85	8.76	8.85	9.04	8.67	8.59	8.24	8.01		8.59	8.82	8.76

Robinson, Kira (USA) (1987)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2005 USATF National Junior Championships (Carson, CA)

USATF Women's Sprint Development (2005)

date	23-Jun-05	time	2.70	3.77	4.84	5.92	6.97	8.03	9.11	10.21	11.34	12.48		13.72	4 / 1			
reaction time		interval		1.07	1.07	1.08	1.05	1.06	1.08	1.10	1.13	1.14	1.24			3.22	3.19	3.37
wind	-0.7 m/s	velocity	4.81	7.94	7.94	7.87	8.10	8.02	7.87	7.73	7.52	7.46	8.47	7.29		7.92	7.99	7.57

Robinson, TeJyrica (USA) (1998)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)

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

date	09-Sep-21	time	2.52	3.60	4.66	5.72	6.80	7.88	8.96	10.00	11.10	12.28		13.70	1 / 9			
reaction time	0.134	interval		1.08	1.06	1.06	1.08	1.08	1.08	1.04	1.10	1.18	1.42			3.20	3.24	3.32
wind	0.4 m/s	velocity	5.16	7.87	8.02	8.02	7.87	7.87	7.87	8.17	7.73	7.20	7.08	7.30		7.97	7.87	7.68

FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)

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

date	13-Jul-21	time	2.50	3.57	4.57	5.59	6.57	7.59	8.64	9.71	10.77	11.84		13.14	2 / 6			
reaction time	0.147	interval		1.07	1.00	1.02	0.98	1.02	1.05	1.07	1.06	1.07	1.30			3.09	3.05	3.20
wind	1.5 m/s	velocity	5.20	7.94	8.50	8.33	8.67	8.33	8.10	7.94	8.02	7.94	7.73	7.61		8.25	8.36	7.97

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

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

date	20-Jun-21	time	2.48	3.57	4.59	5.59	6.59	7.59	8.61	9.63	10.66	11.71		12.99	9 / 9								
reaction time	0.143	interval		1.09	1.02	1.00	1.00	1.00	1.02	1.02	1.03	1.05	1.28			3.11	3.02	3.10					
wind	0.8 m/s	velocity	5.24	7.80	8.33	8.50	8.50	8.50	8.33	8.33	8.25	8.10	7.85	7.70		8.20	8.44	8.23					
Semi Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>									
date	20-Jun-21	time	2.43	3.47	4.47	5.44	6.40	7.37	8.37	9.37	10.39	11.42		12.65	1 / 4								
reaction time	0.173	interval		1.04	1.00	0.97	0.96	0.97	1.00	1.00	1.02	1.03	1.23	PB		3.01	2.93	3.05					
wind	1.3 m/s	velocity	5.35	8.17	8.50	8.76	8.85	8.76	8.50	8.50	8.33	8.25	8.17	7.91		8.47	8.70	8.36					
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>									
date	12-Jun-21	time	2.48	3.50	4.50	5.47	6.47	7.47	8.50	9.51	10.60	11.68		29.11	3 / 8								
reaction time	0.152	interval		1.02	1.00	0.97	1.00	1.00	1.03	1.01	1.09	1.08	17.43			2.99	3.03	3.18					
wind	0.4 m/s	velocity	5.24	8.33	8.50	8.76	8.50	8.50	8.25	8.42	7.80	7.87	0.58	3.44		8.53	8.42	8.02					
Rocheleau-Baumann, Julie (CAN) (1988)																							
FINAL - 1988 Olympic Games (Seoul, KOR)														<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>									
date	30-Sep-88	time	2.56	3.61	4.62	5.62	6.67	7.68	8.70	9.74	10.78	11.82		12.99	2 / 6								
reaction time	0.149	interval		1.05	1.01	1.00	1.05	1.01	1.02	1.04	1.04	1.04	1.17			3.06	3.08	3.12					
wind	0.2 m/s	velocity	5.08	8.10	8.42	8.50	8.10	8.42	8.33	8.17	8.17	8.17	8.97	7.70		8.33	8.28	8.17					
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	29-Sep-88	time	2.55	3.60	4.64	5.65	6.65	7.67	8.68	9.69	10.73	11.77		12.91	5 / 3								
reaction time	0.137	interval		1.05	1.04	1.01	1.00	1.02	1.01	1.01	1.04	1.04	1.14			3.10	3.03	3.09					
wind	0.5 m/s	velocity	5.10	8.10	8.17	8.42	8.50	8.33	8.42	8.42	8.17	8.17	9.21	7.75		8.23	8.42	8.25					
Rocker, Destinee (USA) (1999)																							
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>									
date	11-Jun-22	time	2.55	3.60	4.62	5.64	6.62	7.62	8.64	9.67	10.71	11.79		13.07	1 / 8								
reaction time		interval		1.05	1.02	1.02	0.98	1.00	1.02	1.03	1.04	1.08	1.28			3.09	3.00	3.15					
wind	-0.2 m/s	velocity	5.10	8.10	8.33	8.33	8.67	8.50	8.33	8.25	8.17	7.87	7.85	7.65		8.25	8.50	8.10					
Rodríguez, Jessica (ESP) (1975)																							
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)														<i>Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas</i>									
date	01-Aug-98	time	2.69	3.78	4.87	5.99	7.11	8.23	9.32	10.45	11.59	12.77		14.14	7 / 4								
reaction time		interval		1.09	1.09	1.12	1.12	1.12	1.09	1.13	1.14	1.18	1.37			3.30	3.33	3.45					
wind	0.0 m/s	velocity	4.83	7.80	7.80	7.59	7.59	7.59	7.80	7.52	7.46	7.20	7.66	7.07		7.73	7.66	7.39					
Rodríguez, Yorgelis (CUB) (1995)																							
Heptathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>									
date	04-Aug-21	time	2.80	3.91											dnf	2 / --							
reaction time	0.132	interval		1.11																			
wind	0.2 m/s	velocity	4.64	7.66																			
Rogemyr, Maja (SWE) (1991)																							
FINAL - 2011 Windsprint (Sundsvall, SWE)														<i>Blomkvist (2011) - www.sub13.se</i>									
date	31-Jul-11	time	2.84	3.97	5.09	6.21	7.33	8.46	9.61	10.76	11.94	13.14		14.45	7 / 7								
reaction time		interval		1.13	1.12	1.12	1.12	1.13	1.15	1.15	1.18	1.20	1.31			3.37	3.40	3.53					
wind	1.4 m/s	velocity	4.58	7.52	7.59	7.59	7.59	7.52	7.39	7.39	7.20	7.08	8.02	6.92		7.57	7.50	7.22					
FINAL - 2010 Swedish National Championships (Falun, SWE)														<i>Blomkvist (2010) - www.sub13.se</i>									
date	22-Aug-10	time	2.83	3.93	5.03	6.14	7.24	8.39	9.54	10.72	11.92	13.15		14.50	7 / 7								
reaction time		interval		1.10	1.10	1.11	1.10	1.15	1.15	1.18	1.20	1.23	1.35			3.31	3.40	3.61					
wind	-0.2 m/s	velocity	4.59	7.73	7.73	7.66	7.73	7.39	7.39	7.20	7.08	6.91	7.78	6.90		7.70	7.50	7.06					
FINAL - 2010 Windsprint (Sundsvall, SWE)														<i>Blomkvist (2010) - 100/110m Hurdles: Development</i>									
date	08-Aug-10	time	2.84	3.99	5.10	6.20	7.33	8.46	9.61	10.78	11.95	13.14		14.50	7 / 4								
reaction time		interval		1.15	1.11	1.10	1.13	1.13	1.15	1.17	1.17	1.19	1.36			3.36	3.41	3.53					
wind	0.6 m/s	velocity	4.58	7.39	7.66	7.73	7.52	7.52	7.39	7.26	7.26	7.14	7.72	6.90		7.59	7.48	7.22					
Roleder, Cindy (GER) (1989)																							
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>									
date	06-Oct-19	time	2.54	3.58	4.60	5.60	6.58	7.58	8.56	9.58	10.60	11.62		12.86	4 / 4								
reaction time	0.144	interval		1.04	1.02	1.00	0.98	1.00	0.98	1.02	1.02	1.02	1.24			3.06	2.96	3.06					
wind	1.0 m/s	velocity	5.12	8.17	8.33	8.50	8.67	8.50	8.67	8.33	8.33	8.33	8.10	7.78		8.33	8.61	8.33					
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	2.63	3.67	4.70	5.70	6.70	7.70	8.74	9.77	10.81	11.87		13.12	1 / 6								
reaction time	0.125	interval		1.04	1.03	1.00	1.00	1.00	1.04	1.03	1.04	1.06	1.25			3.07	3.04	3.13					
wind	0.0 m/s	velocity	4.94	8.17	8.25	8.50	8.50	8.50	8.17	8.25	8.17	8.02	8.40	7.62		8.31	8.39	8.15					
FINAL - 2019 Bislett Games (Oslo, NOR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>									
date	13-Jun-19	time	2.68	3.70	4.72	5.72	6.70	7.70	8.68	9.70	10.72	11.78		12.93	7 / 4								
reaction time	0.144	interval		1.02	1.02	1.00	0.98	1.00	0.98	1.02	1.02	1.06	1.15			3.04	2.96	3.10					

wind	1.1 m/s	velocity	4.85	8.33	8.33	8.50	8.67	8.50	8.67	8.33	8.33	8.02	9.13	7.73		8.39	8.61	8.23	
FINAL - 2019 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	30-May-19	time	2.64	3.68	4.68	5.68	6.68	7.68	8.70	9.70	10.72	11.76		12.94		2 / 4			
reaction time	0.137	interval		1.04	1.00	1.00	1.00	1.00	1.02	1.00	1.02	1.04	1.18				3.04	3.02	3.06
wind	1.3 m/s	velocity	4.92	8.17	8.50	8.50	8.50	8.50	8.33	8.50	8.33	8.17	8.90	7.73			8.39	8.44	8.33
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)														<i>CAA Hurdle Development (2019)</i>					
date	21-May-19	time	2.65	3.67	4.69	5.69	6.70	7.70	8.70	9.72	10.75	11.79		12.94		4 / 6			
reaction time	0.138	interval		1.02	1.02	1.00	1.01	1.00	1.00	1.02	1.03	1.04	1.15				3.04	3.01	3.09
wind	-1.0 m/s	velocity	4.91	8.33	8.33	8.50	8.42	8.50	8.50	8.33	8.25	8.17	9.13	7.73			8.39	8.47	8.25
FINAL - 2019 ISTAF Indoor (Berlin, GER) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	1-Feb-19	time	2.58	3.58	4.58	5.56	6.54							7.91		3 / 2			
reaction time	0.126	interval		1.00	1.00	0.98	0.98						1.37				2.98		
		velocity	5.04	8.50	8.50	8.67	8.67						9.49	7.59			8.56		
FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	13-Jul-18	time	2.56	3.60	4.58	5.58	6.58	7.58	8.58	9.60	10.60	11.66		12.87		7 / 6			
reaction time	0.128	interval		1.04	0.98	1.00	1.00	1.00	1.00	1.02	1.00	1.06	1.21				3.02	3.00	3.08
wind	0.1 m/s	velocity	5.08	8.17	8.67	8.50	8.50	8.50	8.50	8.33	8.50	8.02	8.68	7.77			8.44	8.50	8.28
FINAL - 2018 Spitzzen Leichtathletik (Luzern, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	09-Jul-18	time	2.60	3.60	4.60	5.60	6.60	7.56	8.58	9.60	10.60	11.64		12.81		7 / 6			
reaction time		interval		1.00	1.00	1.00	1.00	0.96	1.02	1.02	1.00	1.04	1.17				3.00	2.98	3.06
wind	0.9 m/s	velocity	5.00	8.50	8.50	8.50	8.50	8.85	8.33	8.33	8.50	8.17	8.97	7.81			8.50	8.56	8.33
FINAL - 2018 Bislett Games (Oslo, NOR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	07-Jun-18	time	2.56	3.56	4.54	5.52	6.52	7.52	8.50	9.48	10.48	11.50		12.81		2 / 5			
reaction time	0.152	interval		1.00	0.98	0.98	1.00	1.00	0.98	0.98	1.00	1.02	1.31				2.96	2.98	3.00
wind	1.1 m/s	velocity	5.08	8.50	8.67	8.67	8.50	8.50	8.67	8.67	8.50	8.33	8.02	7.81			8.61	8.56	8.50
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	3.58	4.58	5.56	6.56	7.54	8.56	9.56	10.60	11.62		12.81		1 / 7			
reaction time	0.130	interval		1.02	1.00	0.98	1.00	0.98	1.02	1.00	1.04	1.02	1.19				3.00	3.00	3.06
wind	0.9 m/s	velocity	5.08	8.33	8.50	8.67	8.50	8.67	8.33	8.50	8.17	8.33	8.82	7.81			8.50	8.50	8.33
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)														<i>Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60m Hurdles Women</i>					
date	03-Mar-18	time	2.65	3.68	4.68	5.65	6.61							7.87		7 / 5			
reaction time	0.141	interval		1.03	1.00	0.97	0.96						1.26				3.00		
		velocity	4.91	8.25	8.50	8.76	8.85						10.32	12.71			8.50		
FINAL - 2017 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	05-May-17	time	2.58	3.62	4.64	5.64	6.64	7.64	8.66	9.68	10.70	11.74		12.90		3 / 2			
reaction time	0.138	interval		1.04	1.02	1.00	1.00	1.00	1.02	1.02	1.02	1.04	1.16				3.06	3.02	3.08
wind	-2.3 m/s	velocity	5.04	8.17	8.33	8.50	8.50	8.50	8.33	8.33	8.33	8.17	9.05	7.75			8.33	8.44	8.28
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	2.68	3.67	4.64	5.63	6.60							7.88		6 / 1			
reaction time		interval		0.99	0.97	0.99	0.97						1.28				2.95		
		velocity	4.85	8.59	8.76	8.59	8.76						10.16	12.69			8.64		
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>					
date	09-Sep-16	time	2.60	3.64	4.64	5.62	6.62	7.62	8.64	9.66	10.66	11.72		12.91		4 / 4			
reaction time	0.125	interval		1.04	1.00	0.98	1.00	1.00	1.02	1.02	1.00	1.06	1.19				3.02	3.02	3.08
wind	0.1 m/s	velocity	5.00	8.17	8.50	8.67	8.50	8.50	8.33	8.33	8.50	8.02	8.82	7.75			8.44	8.44	8.28
FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	01-Sep-16	time	2.58	3.60	4.58	5.58	6.58	7.56	8.56	9.56	10.58	11.60		12.80		4 / 5			
reaction time	0.120	interval		1.02	0.98	1.00	1.00	0.98	1.00	1.00	1.02	1.02	1.20				3.00	2.98	3.04
wind	0.4 m/s	velocity	5.04	8.33	8.67	8.50	8.50	8.67	8.50	8.50	8.33	8.33	8.75	7.81			8.50	8.56	8.39
FINAL - 2016 Meeting Paris (Saint-Denis, FRA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	27-Aug-16	time	2.54	3.58	4.58	5.58	6.56	7.54	8.54	9.54	10.56	11.60		12.78		4 / 5			
reaction time	0.129	interval		1.04	1.00	1.00	0.98	0.98	1.00	1.00	1.02	1.04	1.18				3.04	2.96	3.06
wind	0.2 m/s	velocity	5.12	8.17	8.50	8.50	8.67	8.67	8.50	8.50	8.33	8.17	8.90	7.82			8.39	8.61	8.33
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	17-Aug-16	time	2.43	3.44	4.44	5.40	6.42	7.42	8.40	9.40	10.41	11.44		12.74		2 / 5			
reaction time	0.130	interval		1.01	1.00	0.96	1.02	1.00	0.98	1.00	1.01	1.03	1.30				2.97	3.00	3.04
wind	0.0 m/s	velocity	5.35	8.42	8.50	8.85	8.33	8.50	8.67	8.50	8.42	8.25	8.08	7.85			8.59	8.50	8.39
FINAL - 2016 European Championships (Amsterdam, NED) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					

date	07-Jul-16	time	2.58	3.58	4.56	5.54	6.52	7.50	8.50	9.48	10.48	11.50		12.62	7 / 1				
reaction time	0.135	interval		1.00	0.98	0.98	0.98	0.98	1.00	0.98	1.00	1.02	1.12			2.96	2.96	3.00	
wind	-0.7 m/s	velocity	5.04	8.50	8.67	8.67	8.67	8.67	8.50	8.67	8.50	8.33	9.38	7.92		8.61	8.61	8.50	
FINAL - 2016 Bislett Games (Oslo, NOR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	09-Jun-16	time	2.64	3.68	4.68	5.68	6.68	7.68	8.68	9.70	10.72	11.78		12.94	8 / 5				
reaction time	0.145	interval		1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.06	1.16			3.04	3.00	3.10	
wind	-0.4 m/s	velocity	4.92	8.17	8.50	8.50	8.50	8.50	8.50	8.33	8.33	8.02	9.05	7.73		8.39	8.50	8.23	
FINAL - 2015 IAAF World Championships (Beijing, CHN)														<i>Мирзоев (2015) - Временные характеристики технического мастерства бега на 100м с барьерами</i>					
date	28-Aug-15	time	2.59	3.59	4.56	5.53	6.51	7.49	8.45	9.44	10.45	11.46		12.59	8 / 2				
reaction time	0.145	interval		1.00	0.97	0.97	0.98	0.98	0.96	0.99	1.01	1.01	1.13	PB		2.94	2.92	3.01	
wind	-0.3 m/s	velocity	5.02	8.50	8.76	8.76	8.67	8.67	8.85	8.59	8.42	8.42	9.29	7.94		8.67	8.73	8.47	
Romero, Genesis (VEN) (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 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	06-Oct-19	time	2.64	3.68	4.72	5.74	6.76	7.76	8.76	9.78	10.82	11.88		13.18	3 / 8				
reaction time	0.193	interval		1.04	1.04	1.02	1.02	1.00	1.00	1.02	1.04	1.06	1.30			3.10	3.02	3.12	
wind	1.0 m/s	velocity	4.92	8.17	8.17	8.33	8.33	8.50	8.50	8.33	8.17	8.02	7.73	7.59		8.23	8.44	8.17	
Rooth, Andrea (NOR) (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 ISTAF (Berlin, GER) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>					
date	04-Sep-22	time	2.68	3.80	4.92	6.00	7.08	8.16	9.24	10.40	11.52	12.64		13.87	9 / 9				
reaction time	0.139	interval		1.12	1.12	1.08	1.08	1.08	1.08	1.16	1.12	1.12	1.23			3.32	3.24	3.40	
wind	-0.3 m/s	velocity	4.85	7.59	7.59	7.87	7.87	7.87	7.87	7.33	7.59	7.59	8.17	7.21		7.68	7.87	7.50	
Rose, Dionne (JAM) (1969)			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	28-Aug-99	time	2.55	3.56	4.55	5.54	6.52	7.52	8.50	9.52	10.55	11.59		12.80	7 / 6				
reaction time	0.107	interval		1.01	0.99	0.99	0.98	1.00	0.98	1.02	1.03	1.04	1.21			2.99	2.96	3.09	
wind	0.7 m/s	velocity	5.10	8.42	8.59	8.59	8.67	8.50	8.67	8.33	8.25	8.17	8.68	7.81		8.53	8.61	8.25	
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>					
date	27-Aug-99	time	2.55	3.57	4.58	5.58	6.57	7.55	8.56	9.57	10.60	11.63		12.79	4 / 3				
reaction time	0.133	interval		1.02	1.01	1.00	0.99	0.98	1.01	1.01	1.03	1.03	1.16			3.03	2.98	3.07	
wind	1.0 m/s	velocity	5.10	8.33	8.42	8.50	8.59	8.67	8.42	8.42	8.25	8.25	9.05	7.82		8.42	8.56	8.31	
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	10-Aug-97	time	2.60	3.58	4.58	5.56	6.56	7.56	8.58	9.60	10.64	11.66		12.87	1 / 5				
reaction time	0.118	interval		0.98	1.00	0.98	1.00	1.00	1.02	1.02	1.04	1.02	1.21			2.96	3.02	3.08	
wind	-0.3 m/s	velocity	5.00	8.67	8.50	8.67	8.50	8.50	8.33	8.33	8.17	8.33	8.68	7.77		8.61	8.44	8.28	
FINAL - 1996 Olympic Games (Atlanta, GA)														<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>					
date	31-Jul-96	time	2.47	3.50	4.52	5.50	6.50	7.48	8.48	9.47	10.50	11.52		12.74	2 / 5				
reaction time	0.179	interval		1.03	1.02	0.98	1.00	0.98	1.00	0.99	1.03	1.02	1.22			3.03	2.98	3.04	
wind	0.2 m/s	velocity	5.26	8.25	8.33	8.67	8.50	8.67	8.50	8.59	8.25	8.33	8.61	7.85		8.42	8.56	8.39	
Roswell, Demisha (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 - 2022 NCAA Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	11-Jun-22	time	2.48	3.54	4.54	5.56	6.56	7.59	8.59	9.61	10.63	11.69		12.94	8 / 7				
reaction time		interval		1.06	1.00	1.02	1.00	1.03	1.00	1.02	1.02	1.06	1.25			3.08	3.03	3.10	
wind	-0.2 m/s	velocity	5.24	8.02	8.50	8.33	8.50	8.25	8.50	8.33	8.33	8.02	8.04	7.73		8.28	8.42	8.23	
Rothwell, Cha'mia (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)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	12-Jun-21	time	2.60	3.64	4.70	5.74	6.77	7.77	8.77	9.80	10.84	11.91		13.14	8 / 7				
reaction time	0.175	interval		1.04	1.06	1.04	1.03	1.00	1.00	1.03	1.04	1.07	1.23			3.14	3.03	3.14	
wind	0.4 m/s	velocity	5.00	8.17	8.02	8.17	8.25	8.50	8.50	8.25	8.17	7.94	8.17	7.61		8.12	8.42	8.12	
Quarter Final 1 - 2021 NCAA Championships Preliminary East Round (Jacksonville, FL) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	29-May-21	time	2.57	3.63	4.67	5.67	6.65	7.67	8.69	9.70	10.73	11.77		12.95	3 / 3				
reaction time		interval		1.06	1.04	1.00	0.98	1.02	1.02	1.01	1.03	1.04	1.18	PB		3.10	3.02	3.08	
wind	0.8 m/s	velocity	5.06	8.02	8.17	8.50	8.67	8.33	8.33	8.42	8.25	8.17	8.52	7.72		8.23	8.44	8.28	
Rusnak, Hannah (USA)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)														<i>CAA Hurdle Development (2020)</i>					
date	14-Feb-20	time	2.64	3.72	4.79	5.84	6.92							8.39	7 / 6				
reaction time		interval		1.08	1.07	1.05	1.08						1.47			3.20			
		velocity	4.92	7.87	7.94	8.10	7.87						8.84	7.15		7.97			
Russell, Masai (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 Weltklasse (Zürich, SUI)														<i>Omega Timing (2024) - diamond league race analysis</i>					
date	05-Sep-24	time	2.44	3.48	4.48	5.45	6.42	7.37	8.33	9.31	10.28	11.27		12.47	5 / 3				

reaction time	0.149	interval	1.04	1.00	0.97	0.97	0.95	0.96	0.98	0.97	0.99	1.20			3.01	2.88	2.94		
wind	0.8 m/s	velocity	5.33	8.17	8.50	8.76	8.76	8.95	8.85	8.67	8.76	8.59	8.37	8.02	8.47	8.85	8.67		
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)														<i>Omega Timing (2024) - diamond league race analysis</i>					
date	30-Aug-24	time	2.41	3.45	4.44	5.41	6.36	7.31	8.26	9.21	10.17	11.13		12.31	4 / 2				
reaction time	0.152	interval	1.04	0.99	0.97	0.95	0.95	0.95	0.95	0.95	0.96	0.96	1.18			3.00	2.85	2.87	
wind	-0.4 m/s	velocity	5.39	8.17	8.59	8.76	8.95	8.95	8.95	8.95	8.85	8.85	8.52	8.12		8.50	8.95	8.89	
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2024) - diamond league race analysis</i>					
date	25-Aug-24	time	2.44	3.49	4.48	5.45	6.41	7.36	8.31	9.27	10.25	11.22		12.40	1 / 4				
reaction time	0.151	interval	1.05	0.99	0.97	0.96	0.96	0.95	0.95	0.96	0.98	0.97	1.18			3.01	2.86	2.91	
wind	-0.5 m/s	velocity	5.33	8.10	8.59	8.76	8.85	8.95	8.95	8.85	8.67	8.76	8.52	8.06		8.47	8.92	8.76	
Heat B - 2024 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2024) - diamond league race analysis</i>					
date	25-Aug-24	time	2.44	3.47	4.46	5.42	6.41	7.39	8.37	9.36	10.35	11.34		12.56	5 / 5				
reaction time	0.156	interval	1.03	0.99	0.96	0.99	0.98	0.98	0.99	0.99	0.99	1.22				2.98	2.95	2.97	
wind	0.6 m/s	velocity	5.33	8.25	8.59	8.85	8.59	8.67	8.67	8.59	8.59	8.59	8.24	7.96		8.56	8.64	8.59	
FINAL - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	10-Aug-24	time	2.40	3.44	4.45	5.42	6.38	7.32	8.27	9.22	10.18	11.14		12.33	5 / 1				
reaction time	0.137	interval	1.04	1.01	0.97	0.96	0.94	0.95	0.95	0.96	0.96	1.19				3.02	2.85	2.87	
wind	-0.3 m/s	velocity	5.42	8.17	8.42	8.76	8.85	9.04	8.95	8.95	8.85	8.85	8.45	8.11		8.44	8.95	8.89	
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	09-Aug-24	time	2.41	3.47	4.46	5.43	6.39	7.34	8.30	9.26	10.23	11.21		12.42	7 / 2				
reaction time	0.155	interval	1.06	0.99	0.97	0.96	0.95	0.96	0.96	0.96	0.97	0.98	1.21			3.02	2.87	2.91	
wind	-0.7 m/s	velocity	5.39	8.02	8.59	8.76	8.85	8.95	8.85	8.85	8.76	8.67	8.31	8.05		8.44	8.89	8.76	
Heat 3 - 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	5.48	6.44	7.40	8.37	9.34	10.32	11.31		12.53	6 / 1				
reaction time	0.151	interval	1.05	1.00	0.97	0.96	0.96	0.97	0.97	0.98	0.99	1.22				3.02	2.89	2.94	
wind	0.8 m/s	velocity	5.28	8.10	8.50	8.76	8.85	8.85	8.76	8.76	8.67	8.59	8.24	7.98		8.44	8.82	8.67	
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	30-Jun-24	time	2.54	3.55	4.55	5.51	6.46	7.39	8.35	9.29	10.23	11.19		12.25	4 / 1				
reaction time		interval	1.01	1.00	0.96	0.95	0.93	0.96	0.94	0.94	0.96	1.06		PB		2.97	2.84	2.84	
wind	0.7 m/s	velocity	5.12	8.42	8.50	8.85	8.95	9.14	8.85	9.04	9.04	8.85	9.48	8.16		8.59	8.98	8.98	
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	28-Jun-24	time	2.57	3.56	4.55	5.53	6.48	7.44	8.39	9.34	10.31	11.28		12.35	5 / 1				
reaction time		interval	0.99	0.99	0.98	0.95	0.96	0.95	0.95	0.95	0.97	0.97	1.07		PB		2.96	2.86	2.89
wind	0.2 m/s	velocity	5.06	8.59	8.59	8.67	8.95	8.85	8.95	8.95	8.76	8.76	9.39	8.10		8.61	8.92	8.82	
FINAL - 2024 Prefontaine Classic (Eugene, OR)														<i>Omega Timing (2024) - diamond league race analysis</i>					
date	25-May-24	time	2.46	3.53	4.54	5.54	6.53	7.52	8.51	9.51	10.51	11.56		12.80	1 / 9				
reaction time	0.141	interval	1.07	1.01	1.00	0.99	0.99	0.99	1.00	1.00	1.05	1.24				3.08	2.97	3.05	
wind	-0.9 m/s	velocity	5.28	7.94	8.42	8.50	8.59	8.59	8.59	8.50	8.50	8.10	8.10	7.81		8.28	8.59	8.36	
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	27-Apr-24	time	2.53	3.57	4.59	5.59	6.57	7.55	8.53	9.53	10.55	11.58		12.76	7 / 5-4				
reaction time	0.134	interval	1.04	1.02	1.00	0.98	0.98	0.98	1.00	1.02	1.03	1.18				3.06	2.94	3.05	
wind	0.3 m/s	velocity	5.14	8.17	8.33	8.50	8.67	8.67	8.67	8.50	8.33	8.25	8.52	7.84		8.33	8.67	8.36	
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)														<i>Omega Timing (2024) - diamond league race analysis</i>					
date	20-Apr-24	time	2.44	3.49	4.50	5.50	6.48	7.46	8.45	9.44	10.44	11.44		12.67	9 / 6				
reaction time	0.155	interval	1.05	1.01	1.00	0.98	0.98	0.99	0.99	1.00	1.00	1.23				3.06	2.95	2.99	
wind	-0.2 m/s	velocity	5.33	8.10	8.42	8.50	8.67	8.67	8.59	8.59	8.50	8.50	8.17	7.89		8.33	8.64	8.53	
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)														<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>					
date	03-Mar-24	time	2.54	3.58	4.56	5.54	6.52							7.81	3 / 4				
reaction time	0.142	interval	1.04	0.98	0.98	0.98							1.29			3.00			
		velocity	5.12	8.17	8.67	8.67	8.67						10.08	7.68		8.50			
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)														<i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>					
date	16-Feb-24	time	2.53	3.57	4.54	5.54	6.49							7.80	6 / 3				
reaction time	0.151	interval	1.04	0.97	1.00	0.95							1.31			3.01			
		velocity	5.14	8.17	8.76	8.50	8.95						9.92	7.69		8.47			
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)														<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>					
date	04-Feb-24	time	2.50	3.52	4.52	5.50	6.48							7.84	6 / 4				
reaction time	0.174	interval	1.02	1.00	0.98	0.98							1.36			3.00			
		velocity	5.20	8.33	8.50	8.67	8.67						9.56	7.65		8.50			

Sallaz, Christine (FRA) (1961)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1986 French National Indoor Championships (Lievin, FRA)												<i>Aubert (1986) - indoor - video - haies, etude des performances</i>					
date	26-Jan-86	time	2.70	3.82	4.90	5.93	6.99						8.34	6 / 6			
reaction time		interval		1.12	1.08	1.03	1.06					1.35			3.23		
		velocity	4.81	7.59	7.87	8.25	8.02					9.63	7.19		7.89		
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)												<i>Aubert (1986) - indoor - video - haies, etude des performances</i>					
date	25-Jan-86	time	2.71	3.80	4.84	5.87	6.90						8.28	3 / 3			
reaction time		interval		1.09	1.04	1.03	1.03					1.38			3.16		
		velocity	4.80	7.80	8.17	8.25	8.25					9.42	7.25		8.07		
Heat ? - 1986 French National Indoor Championships (Lievin, FRA)												<i>Aubert (1986) - indoor - video - haies, etude des performances</i>					
date	25-Jan-86	time	2.66	3.75	4.84	5.91	6.95						8.36	3 / 3			
reaction time		interval		1.09	1.09	1.07	1.04					1.41			3.25		
		velocity	4.89	7.80	7.80	7.94	8.17					9.22	7.18		7.85		
Salmon, Paula (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)												<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	10-Jun-23	time	2.57	3.57	4.57	5.55	6.55	7.55	8.56	9.59	10.63	11.69	12.92	1 / 8			
reaction time		interval		1.00	1.00	0.98	1.00	1.00	1.01	1.03	1.04	1.06	1.23		2.98	3.01	3.13
wind	3.8 m/s	velocity	5.06	8.50	8.50	8.67	8.50	8.50	8.42	8.25	8.17	8.02	8.17	7.74	8.56	8.47	8.15
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)												<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	25-Jun-22	time	2.65	3.65	4.65	5.63	6.61	7.60	8.59	9.60	10.62	11.65	12.78	2 / 6			
reaction time		interval		1.00	1.00	0.98	0.98	0.99	0.99	1.01	1.02	1.03	1.13		2.98	2.96	3.06
wind	-1.4 m/s	velocity	4.91	8.50	8.50	8.67	8.67	8.59	8.59	8.42	8.33	8.25	8.89	7.82	8.56	8.61	8.33
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)												<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	11-Jun-22	time	2.55	3.55	4.59	5.57	6.57	7.57	8.57	9.57	10.57	11.60	12.85	6 / 4			
reaction time		interval		1.00	1.04	0.98	1.00	1.00	1.00	1.00	1.00	1.03	1.25		3.02	3.00	3.03
wind	-0.2 m/s	velocity	5.10	8.50	8.17	8.67	8.50	8.50	8.50	8.50	8.50	8.25	8.04	7.78	8.44	8.50	8.42
Quarter Final 1 - 2021 NCAA Championships Preliminary East Round (Jacksonville, FL) (TV Analysis)												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	29-May-21	time	2.57	3.57	4.55	5.53	6.50	7.53	8.55	9.57	10.63	11.68	12.89	4 / 2			
reaction time		interval		1.00	0.98	0.98	0.97	1.03	1.02	1.02	1.06	1.05	1.21	PB	2.96	3.02	3.13
wind	0.8 m/s	velocity	5.06	8.50	8.67	8.67	8.76	8.25	8.33	8.33	8.02	8.10	8.31	7.76	8.61	8.44	8.15
Samba-Mayela, Cyréna (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 - 2024 Memorial van damme (Brussels, BEL)												<i>Omega Timing (2024) - diamond league race analysis</i>					
date	14-Sep-24	time	2.59	3.63	4.60	5.58	6.57	7.54	8.54	9.52	10.57	11.63	12.78	6 / 7			
reaction time	0.132	interval		1.04	0.97	0.98	0.99	0.97	1.00	0.98	1.05	1.06	1.15		2.99	2.96	3.09
wind	0.4 m/s	velocity	5.02	8.17	8.76	8.67	8.59	8.76	8.50	8.67	8.10	8.02	8.74	7.82	8.53	8.61	8.25
FINAL - 2024 Weltklasse (Zürich, SUI)												<i>Omega Timing (2024) - diamond league race analysis</i>					
date	05-Sep-24	time	2.46	3.48	4.45	5.41	6.36	7.30	8.25	9.23	10.20	11.19	12.40	6 / 2			
reaction time	0.121	interval		1.02	0.97	0.96	0.95	0.94	0.95	0.98	0.97	0.99	1.21		2.95	2.84	2.94
wind	0.8 m/s	velocity	5.28	8.33	8.76	8.85	8.95	9.04	8.95	8.67	8.76	8.59	8.31	8.06	8.64	8.98	8.67
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)												<i>Omega Timing (2024) - diamond league race analysis</i>					
date	30-Aug-24	time	2.43	3.46	4.45	5.44	6.41	7.38	8.36	9.35	10.33	11.33	12.57	5 / 4			
reaction time	0.141	interval		1.03	0.99	0.99	0.97	0.97	0.98	0.99	0.98	1.00	1.24		3.01	2.92	2.97
wind	-0.4 m/s	velocity	5.35	8.25	8.59	8.59	8.76	8.76	8.67	8.59	8.67	8.50	8.10	7.96	8.47	8.73	8.59
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)												<i>Omega Timing (2024) - diamond league race analysis</i>					
date	25-Aug-24	time	2.45	3.46	4.47	5.40	6.36	7.33	8.26	9.26	10.24	11.26	12.47	8 / 6			
reaction time	0.162	interval		1.01	1.01	0.93	0.96	0.97	0.93	1.00	0.98	1.02	1.21		2.95	2.86	3.00
wind	-0.5 m/s	velocity	5.31	8.42	8.42	9.14	8.85	8.76	9.14	8.50	8.67	8.33	8.31	8.02	8.64	8.92	8.50
Heat A - 2024 Kamila Skolimowska Memorial (Silesia, POL)												<i>Omega Timing (2024) - diamond league race analysis</i>					
date	25-Aug-24	time	2.34	3.42	4.40	5.36	6.31		8.23	9.22	10.19	11.19	12.49	5 / 3			
reaction time	0.138	interval		1.08	0.98	0.96	0.95		1.92	0.99	0.97	1.00	1.30		3.02	2.87	2.96
wind	-0.3 m/s	velocity	5.56	7.87	8.67	8.85	8.95		8.85	8.59	8.76	8.50	7.73	8.01	8.44	8.89	8.61
FINAL - 2024 Athletissima (Lausanne, SUI)												<i>Omega Timing (2024) - diamond league race analysis</i>					
date	22-Aug-24	time	2.46	3.48	4.46	5.43	6.41	7.41	8.41	9.41	10.42	11.44	12.69	4 / 7			
reaction time	0.144	interval		1.02	0.98	0.97	0.98	1.00	1.00	1.00	1.01	1.02	1.25		2.97	2.98	3.03
wind	-0.9 m/s	velocity	5.28	8.33	8.67	8.76	8.67	8.50	8.50	8.50	8.42	8.33	8.04	7.88	8.59	8.56	8.42
FINAL - 2024 Olympic Games (Paris, FRA)												<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	10-Aug-24	time	2.42	3.44	4.43	5.39	6.34	7.29	8.22	9.18	10.15	11.12	12.34	2 / 2			
reaction time	0.143	interval		1.02	0.99	0.96	0.95	0.95	0.93	0.96	0.97	0.97	1.22		2.97	2.83	2.90
wind	-0.3 m/s	velocity	5.37	8.33	8.59	8.85	8.95	8.95	9.14	8.85	8.76	8.76	8.24	8.10	8.59	9.01	8.79

Semi-Final 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	09-Aug-24	time	2.42	3.44	4.44	5.41	6.38	7.33	8.29	9.26	10.24	11.23		12.52	6 / 4		
reaction time	0.147	interval		1.02	1.00	0.97	0.97	0.95	0.96	0.97	0.98	0.99	1.29		2.99	2.88	2.94
wind	-0.7 m/s	velocity	5.37	8.33	8.50	8.76	8.76	8.95	8.85	8.76	8.67	8.59	7.79	7.99	8.53	8.85	8.67
Heat 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	07-Aug-24	time	2.46	3.49	4.49	5.45	6.41	7.37	8.34	9.31	10.30	11.31		12.56	3 / 3		
reaction time	0.142	interval		1.03	1.00	0.96	0.96	0.96	0.97	0.97	0.99	1.01	1.25		2.99	2.89	2.97
wind	0.8 m/s	velocity	5.28	8.25	8.50	8.85	8.85	8.85	8.76	8.76	8.59	8.42	8.04	7.96	8.53	8.82	8.59
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	08-Jun-24	time	2.54	3.54	4.52	5.46	6.42	7.34	8.30	9.26	10.23	11.22		12.31	5 / 1		
reaction time	0.150	interval		1.00	0.98	0.94	0.96	0.92	0.96	0.96	0.97	0.99	1.09	NR PB	2.92	2.84	2.92
wind	0.8 m/s	velocity	5.12	8.50	8.67	9.04	8.85	9.24	8.85	8.85	8.76	8.59	9.22	8.12	8.73	8.98	8.73
FINAL - 2024 Prefontaine Classic (Eugene, OR)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	25-May-24	time	2.44	3.46	4.45	5.41	6.36	7.33	8.30	9.29	10.28	11.30		12.52	8 / 1		
reaction time	0.132	interval		1.02	0.99	0.96	0.95	0.97	0.97	0.99	0.99	1.02	1.22	=NR =PB	2.97	2.89	3.00
wind	-0.9 m/s	velocity	5.33	8.33	8.59	8.85	8.95	8.76	8.76	8.59	8.59	8.33	8.24	7.99	8.59	8.82	8.50
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	20-Apr-24	time	2.44	3.47	4.46	5.43	6.40	7.36	8.33	9.31	10.28	11.28		12.55	10 / 3		
reaction time	0.141	interval		1.03	0.99	0.97	0.97	0.96	0.97	0.98	0.97	1.00	1.27	NR PB	2.99	2.90	2.95
wind	-0.2 m/s	velocity	5.33	8.25	8.59	8.76	8.76	8.85	8.76	8.67	8.76	8.50	7.91	7.97	8.53	8.79	8.64
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)														<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>			
date	03-Mar-24	time	2.52	3.52	4.52	5.50	6.45							7.74	5 / 2		
reaction time	0.141	interval		1.00	1.00	0.98	0.95						1.29		2.98		
		velocity	5.16	8.50	8.50	8.67	8.95						10.08	7.75	8.56		
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	23-Aug-23	time	2.53	3.56	4.57	5.55	6.54	7.52	8.55	9.61	10.65	11.73		12.95	8 / 5		
reaction time	0.170	interval		1.03	1.01	0.98	0.99	0.98	1.03	1.06	1.04	1.08	1.22		3.02	3.00	3.18
wind	-0.7 m/s	velocity	5.14	8.25	8.42	8.67	8.59	8.67	8.25	8.02	8.17	7.87	8.24	7.72	8.44	8.50	8.02
Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	22-Aug-23	time	2.50	3.53	4.55	5.53	6.48	7.46	8.45	9.46	10.48	11.53		12.71	9 / 4		
reaction time	0.144	interval		1.03	1.02	0.98	0.95	0.98	0.99	1.01	1.02	1.05	1.18		3.03	2.92	3.08
wind	0.1 m/s	velocity	5.20	8.25	8.33	8.67	8.95	8.67	8.59	8.42	8.33	8.10	8.52	7.87	8.42	8.73	8.28
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	21-Aug-22	time	2.56	3.58	4.58	5.60	6.63	7.66	8.69	9.69	10.73	11.81		13.05	7 / 7		
reaction time	0.152	interval		1.02	1.00	1.02	1.03	1.03	1.03	1.00	1.04	1.08	1.24		3.04	3.09	3.12
wind	-0.1 m/s	velocity	5.08	8.33	8.50	8.33	8.25	8.25	8.25	8.50	8.17	7.87	8.10	7.66	8.39	8.25	8.17
Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	23-Jul-22	time	2.50	3.56	4.56	5.56	6.60	7.64	8.70	9.74	10.80	11.90		13.15	2 / 4		
reaction time	0.108	interval		1.06	1.00	1.00	1.04	1.04	1.06	1.04	1.06	1.10	1.25		3.06	3.14	3.20
wind	-0.4 m/s	velocity	5.20	8.02	8.50	8.50	8.17	8.17	8.02	8.17	8.02	7.73	8.04	7.60	8.33	8.12	7.97
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	2.44	3.44	4.44	5.42	6.42	7.40	8.40	9.42	10.44	11.50		12.76	4 / 4		
reaction time	0.123	interval		1.00	1.00	0.98	1.00	0.98	1.00	1.02	1.02	1.06	1.26		2.98	2.98	3.10
wind	-0.4 m/s	velocity	5.33	8.50	8.50	8.67	8.50	8.67	8.50	8.33	8.33	8.02	7.98	7.84	8.56	8.56	8.23
FINAL - 2022 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	13-May-22	time	2.53	3.56	4.53	5.50	6.47	7.44	8.42	9.44	10.50	11.51		12.72	5 / 5		
reaction time	0.169	interval		1.03	0.97	0.97	0.97	0.97	0.98	1.02	1.06	1.01	1.21		2.97	2.92	3.09
wind	3.8 m/s	velocity	5.14	8.25	8.76	8.76	8.76	8.76	8.67	8.33	8.02	8.42	8.31	7.86	8.59	8.73	8.25
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	19-Mar-22	time	2.42	3.44	4.44	5.40	6.36							7.78	5 / 1		
reaction time	0.119	interval		1.02	1.00	0.96	0.96						1.42	NR	2.98		
		velocity	5.37	8.33	8.50	8.85	8.85						9.15	7.71	8.56		
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	2.48	3.66	4.78	5.84	6.88	7.90	8.92	9.92	10.94	12.00		13.29	7 / 7		
reaction time	0.131	interval		1.18	1.12	1.06	1.04	1.02	1.02	1.00	1.02	1.06	1.29		3.36	3.08	3.08
wind	0.1 m/s	velocity	5.24	7.20	7.59	8.02	8.17	8.33	8.33	8.50	8.33	8.02	7.79	7.52	7.59	8.28	8.28
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>			
date	12-Sep-20	time	2.46	3.49	4.46	5.47	6.48	7.50	8.49	9.46	10.48	11.48		12.73	4 / 1		

reaction time	0.297	interval	1.03	0.97	1.01	1.01	1.02	0.99	0.97	1.02	1.00	1.25	PB	3.01	3.02	2.99	
wind	1.5 m/s	velocity	5.28	8.25	8.76	8.42	8.42	8.33	8.59	8.76	8.33	8.50	8.04	7.86	8.47	8.44	8.53

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	3.53	4.57	5.61		7.64	8.64	9.67	10.71	11.78		13.07	8 / 4			
reaction time	0.147	interval	1.06	1.04	1.04		2.03	1.00	1.03	1.04	1.07	1.29				3.14	3.03	3.14
wind	-0.2 m/s	velocity	5.26	8.02	8.17	8.17		8.37	8.50	8.25	8.17	7.94	7.79	7.65		8.12	8.42	8.12

Samuel, Aleesa (USA) (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 Millrose Games (New York, NY) (TV Analysis)***Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date	11-Feb-24	time	2.58	3.64	4.70	5.74	6.82							8.26	9 / 9		
reaction time	0.202	interval	1.06	1.06	1.04	1.08						1.44	PB			3.16	
wind		velocity	5.04	8.02	8.02	8.17	7.87					9.03	7.26			8.07	

Samuelsson, Jessica (SWE) (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 Windsprint (Sundsvall, SWE)***Blomkvist (2011) - www.sub13.se*

date	31-Jul-11	time	2.77	3.88	4.96	6.06	7.15	8.25	9.34	10.46	11.61	12.76		13.95	1 / 5			
reaction time		interval	1.11	1.08	1.10	1.09	1.10	1.09	1.12	1.15	1.15	1.19				3.29	3.28	3.42
wind	1.4 m/s	velocity	4.69	7.66	7.87	7.73	7.80	7.73	7.80	7.59	7.39	7.39	8.82	7.17		7.75	7.77	7.46

FINAL - 2010 Swedish National Championships (Falun, SWE)*Blomkvist (2010) - www.sub13.se*

date	22-Aug-10	time	2.78	3.89	5.04	6.14	7.25	8.40	9.56	10.72	11.90	13.11		14.35	1 / 6			
reaction time		interval	1.11	1.15	1.10	1.11	1.15	1.16	1.16	1.18	1.21	1.24				3.36	3.42	3.55
wind	-0.2 m/s	velocity	4.68	7.66	7.39	7.73	7.66	7.39	7.33	7.33	7.20	7.02	8.47	6.97		7.59	7.46	7.18

Heptathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	2.78	3.90	5.00	6.10	7.20	8.30	9.41	10.51	11.63	12.78		13.96	8 / 3			
reaction time	0.182	interval	1.12	1.10	1.10	1.10	1.10	1.10	1.11	1.10	1.12	1.15	1.18			3.32	3.31	3.37
wind	-0.1 m/s	velocity	4.68	7.59	7.73	7.73	7.73	7.73	7.66	7.73	7.59	7.39	8.90	7.16		7.68	7.70	7.57

Sasaki, Aogi (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 - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)***Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps*

date	01-Sep-19	time	2.67	3.74	4.80	5.85	6.92	8.00	9.06	10.15	11.27	12.39		13.66	8 / 7			
reaction time		interval	1.07	1.06	1.05	1.07	1.08	1.06	1.09	1.12	1.12	1.27				3.18	3.21	3.33
wind	1.2 m/s	velocity	4.87	7.94	8.02	8.10	7.94	7.87	8.02	7.80	7.59	7.59	8.27	7.32		8.02	7.94	7.66

B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)*Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

date	28-Apr-19	time	2.70	3.82	4.90	5.96	7.04	8.11	9.21	10.34	11.48	12.65		13.96	7 / 6			
reaction time		interval	1.12	1.08	1.06	1.08	1.07	1.10	1.13	1.14	1.17	1.31				3.26	3.25	3.44
wind	1.3 m/s	velocity	4.81	7.59	7.87	8.02	7.87	7.94	7.73	7.52	7.46	7.26	8.02	7.16		7.82	7.85	7.41

Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)*(2017) - tfdata-store.com/2017/06/08/post-920/*

date	26-May-17	time	2.66	3.74	4.79	5.84	6.90	7.98	9.07	10.17	11.28	12.44		13.69	4 / 4			
reaction time	0.194	interval	1.08	1.05	1.05	1.06	1.08	1.09	1.10	1.11	1.16	1.25	=PB			3.18	3.23	3.37
wind	1.9 m/s	velocity	4.89	7.87	8.10	8.10	8.02	7.87	7.80	7.73	7.66	7.33	8.40	7.30		8.02	7.89	7.57

B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)*(2017) - tfdata-store.com/2017/05/01/458/*

date	29-Apr-17	time	2.68	3.75	4.79	5.84	6.87	7.90	8.97	10.07	11.16	12.28		13.53	4 / 2			
reaction time		interval	1.07	1.04	1.05	1.03	1.03	1.07	1.10	1.09	1.12	1.25				3.16	3.13	3.31
wind	4.1 m/s	velocity	4.85	7.94	8.17	8.10	8.25	8.25	7.94	7.73	7.80	7.59	8.40	7.39		8.07	8.15	7.70

Heat 4 - 2016 Japanese National Junior Championships (Mizuho, JPN)*(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.68	3.78	4.86	5.94	7.03	8.11	9.21	10.32	11.50	12.67		13.97	3 / 2			
reaction time		interval	1.10	1.08	1.08	1.09	1.08	1.10	1.11	1.18	1.17	1.30				3.26	3.27	3.46
wind	1.5 m/s	velocity	4.85	7.73	7.87	7.87	7.80	7.87	7.73	7.66	7.20	7.26	8.08	7.16		7.82	7.80	7.37

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)*Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics data*

date	02-Aug-15	time	2.67	3.75	4.83	5.90	7.00	8.07	9.19	10.32	11.46	12.63		13.93	7 / 2			
reaction time		interval	1.08	1.08	1.07	1.10	1.07	1.12	1.13	1.14	1.17	1.30	PB			3.23	3.29	3.44
wind	0.9 m/s	velocity	4.87	7.87	7.87	7.94	7.73	7.94	7.59	7.52	7.46	7.26	8.08	7.18		7.89	7.75	7.41

Sasaki, Ayumi (JPN) (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 - 1991 IAAF World Championships (Tokyo, JPN)***Numazawa (1991) - analysis of time in the 3rd world athletics championships, women's 100m hurdles*

date	29-Aug-91	time	2.69	3.81	4.93	5.98	7.05	8.15	9.25	10.35	11.47	12.62		13.85	2 / 7			
reaction time		interval	1.12	1.12	1.05	1.07	1.10	1.10	1.10	1.12	1.15	1.23				3.29	3.27	3.37
wind	0.5 m/s	velocity	4.83	7.59	7.59	8.10	7.94	7.73	7.73	7.73	7.59	7.39	8.54	7.22		7.75	7.80	7.57

Sasaki, 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 - 2018 Kinami Michitaka Memorial (Osaka, JPN)***Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	06-May-18	time	2.74	3.82	4.91	5.97	7.05	8.13	9.21	10.31	11.42	12.54		13.75	3 / 6			
reaction time		interval	1.08	1.09	1.06	1.08	1.08	1.08	1.10	1.11	1.12	1.21				3.23	3.24	3.33
wind	-0.5 m/s	velocity	4.74	7.87	7.80	8.02	7.87	7.87	7.87	7.73	7.66	7.59	8.68	7.27		7.89	7.87	7.66

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Sasaki, Ten (JPN) (1997)																		
Race 2 - 2020 World Athletics Trials (Fuji, JPN)		<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>																
date	06-Sep-20	time	2.66	3.74	4.80	5.86	6.92	7.97	9.07	10.16	11.27	12.42		13.69	/ 3			
reaction time		interval		1.08	1.06	1.06	1.06	1.05	1.10	1.09	1.11	1.15	1.27			3.20	3.21	3.35
wind	1.3 m/s	velocity	4.89	7.87	8.02	8.02	8.02	8.10	7.73	7.80	7.66	7.39	7.91	7.30		7.97	7.94	7.61
FINAL - 2017 Mito Invitational (Mito, JPN)		<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>																
date	05-May-17	time	2.67	3.76	4.85	5.91	6.98	8.06	9.16	10.24	11.36	12.51		13.81	4 / 2			
reaction time		interval		1.09	1.09	1.06	1.07	1.08	1.10	1.08	1.12	1.15	1.30			3.24	3.25	3.35
wind	1.0 m/s	velocity	4.87	7.80	7.80	8.02	7.94	7.87	7.73	7.87	7.59	7.39	8.08	7.24		7.87	7.85	7.61
Heat 1 - 2017 Mito Invitational (Mito, JPN)		<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>																
date	05-May-17	time	2.70	3.81	4.90	6.01	7.11	8.22	9.36	10.49	11.70	12.87		14.22	7 / 2			
reaction time		interval		1.11	1.09	1.11	1.10	1.11	1.14	1.13	1.21	1.17	1.35			3.31	3.35	3.51
wind	-2.7 m/s	velocity	4.81	7.66	7.80	7.66	7.73	7.66	7.46	7.52	7.02	7.26	7.78	7.03		7.70	7.61	7.26
Semi-Final 1 - 2016 Japanese National Junior Championships (Mizuho, JPN)		<i>(2016.10.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
date	21-Oct-16	time	2.66	3.74	4.82	5.88	6.95	8.02	9.11	10.21	11.32	12.49		13.80	5 / 2			
reaction time		interval		1.08	1.08	1.06	1.07	1.07	1.09	1.10	1.11	1.17	1.31			3.22	3.23	3.38
wind	1.2 m/s	velocity	4.89	7.87	7.87	8.02	7.94	7.94	7.80	7.73	7.66	7.26	8.02	7.25		7.92	7.89	7.54
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	2.70	3.80	4.89	5.95	7.05	8.14	9.24	10.36	11.51	12.66		13.97	6 / 3			
reaction time		interval		1.10	1.09	1.06	1.10	1.09	1.10	1.12	1.15	1.15	1.31			3.25	3.29	3.42
wind	3.2 m/s	velocity	4.81	7.73	7.80	8.02	7.73	7.80	7.73	7.59	7.39	7.39	8.02	7.16		7.85	7.75	7.46
Sato, Nodoka (JPN) (1999)																		
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)		<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data collection</i>																
date	02-Aug-17	time	2.71	3.81	4.90	6.00	7.10	8.21	9.33	10.47	11.60	12.75		14.01	7 / 2			
reaction time	0.133	interval		1.10	1.09	1.10	1.10	1.11	1.12	1.14	1.13	1.15	1.26			3.29	3.33	3.42
wind	-2.9 m/s	velocity	4.80	7.73	7.80	7.73	7.73	7.66	7.59	7.46	7.52	7.39	8.33	7.14		7.75	7.66	7.46
Schäfer, Carolin (GER) (1991)																		
Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)		<i>Paris 2024 Olympc Games - Results Book (2024)</i>																
date	08-Aug-24	time	2.62	3.73	4.79	5.84	6.89	7.93	8.97	10.02	11.07	12.14		13.42	6 / 2			
reaction time	0.192	interval		1.11	1.06	1.05	1.05	1.04	1.04	1.05	1.05	1.07	1.28			3.22	3.13	3.17
wind	0.0 m/s	velocity	4.96	7.66	8.02	8.10	8.10	8.17	8.17	8.10	8.10	7.94	7.85	7.45		7.92	8.15	8.04
Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)		<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>																
date	19-Aug-23	time	2.82	3.88	4.93	5.97	7.05	8.08	9.14	10.21	11.32	12.42		13.60	9 / 7			
reaction time	0.151	interval		1.06	1.05	1.04	1.08	1.03	1.06	1.07	1.11	1.10	1.18			3.15	3.17	3.28
wind	0.4 m/s	velocity	4.61	8.02	8.10	8.17	7.87	8.25	8.02	7.94	7.66	7.73	8.52	7.35		8.10	8.04	7.77
Heptathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																
date	04-Aug-21	time	2.66	3.75	4.80	5.83	6.85	7.86	8.88	9.95	11.02	12.06		13.29	9 / 3			
reaction time	0.141	interval		1.09	1.05	1.03	1.02	1.01	1.02	1.07	1.07	1.04	1.23			3.17	3.05	3.18
wind	0.3 m/s	velocity	4.89	7.80	8.10	8.25	8.33	8.42	8.33	7.94	7.94	8.17	8.17	7.52		8.04	8.36	8.02
Schaller-Klier, Johanna (GDR) (1952)																		
FINAL - 1978 European Championships (Prague, TCH)		<i>Lamare (1978) - championnats d'Europa 1978</i>																
date	02-Sep-78	time	2.69				6.52							12.62	4 / 1			
reaction time		interval					3.83											
wind	0.6 m/s	velocity	4.83				8.88							7.92				
FINAL - 1976 Olympic Games (Montreal, CAN)		<i>Ilyin (1979) - successes of women hurdlers</i>																
date	29-Jul-76	time	2.56	3.58	4.58	5.56	6.54	7.54	8.54	9.54	10.56	11.60		12.77	5 / 1			
reaction time		interval		1.02	1.00	0.98	0.98	1.00	1.00	1.00	1.02	1.04	1.17			3.00	2.98	3.06
wind	0.0 m/s	velocity	5.08	8.33	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.17	8.97	7.83		8.50	8.56	8.33
Schrott, Beate (AUT) (1988)																		
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)		<i>CAA Hurdle Development (2019)</i>																
date	06-Oct-19	time	2.71	3.77	4.78	5.81	6.81	7.83	8.85	9.89	10.94	12.02		13.25	3 / 7 6			
reaction time	0.150	interval		1.06	1.01	1.03	1.00	1.02	1.02	1.04	1.05	1.08	1.23			3.10	3.04	3.17
wind	0.6 m/s	velocity	4.80	8.02	8.42	8.25	8.50	8.33	8.33	8.17	8.10	7.87	8.17	7.55		8.23	8.39	8.04
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)		<i>Henson (2021) - Athlete First: major championships report</i>																
date	07-Aug-12	time	2.58	3.60	4.62	5.62	6.62	7.62	8.62	9.66	10.70	11.78		13.07	9 / 8 7			
reaction time	0.156	interval		1.02	1.02	1.00	1.00	1.00	1.00	1.04	1.04	1.08	1.29			3.04	3.00	3.16
wind	-0.2 m/s	velocity	5.04	8.33	8.33	8.50	8.50	8.50	8.50	8.17	8.17	7.87	8.14	7.65		8.39	8.50	8.07
Schwarzkopf, Lilli (GER) (1983)																		
Heptathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)		<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																
date	15-Aug-09	time	2.79	3.87	4.95	6.01	7.09	8.15	9.22	10.33	11.45	12.57		13.80	4 / 2			

reaction time	0.143	interval	1.08	1.08	1.06	1.08	1.06	1.07	1.11	1.12	1.12	1.23			3.22	3.21	3.35
wind	-0.3 m/s	velocity	4.66	7.87	7.87	8.02	7.87	8.02	7.94	7.66	7.59	7.59	8.54	7.25	7.92	7.94	7.61

Šebestíková, Nikol (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)												<i>Feher (2014) - Final report from the Czech Republic national championships</i>					
date	02-Aug-14	time	2.71	3.81	4.96	6.07	7.20	8.35	9.51	10.66	11.85	13.05	14.39	1 / 6			
reaction time	0.187	interval	1.10	1.15	1.11	1.13	1.15	1.16	1.15	1.19	1.20	1.34		3.36	3.44	3.54	
wind	0.2 m/s	velocity	4.80	7.73	7.39	7.66	7.52	7.39	7.33	7.39	7.14	7.08	7.84	6.95	7.59	7.41	7.20

Secher Myrnel, Lene (NOR) (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)												<i>(2013) - www.ssg.se/windsprint/Splittider/</i>					
date	28-Jul-13	time	2.82	3.93	5.04	6.14	7.22	8.27	9.36	10.46	11.59	12.70	13.94	2 / 5			
reaction time		interval	1.11	1.11	1.10	1.08	1.05	1.09	1.10	1.13	1.11	1.24		3.32	3.22	3.34	
wind	1.2 m/s	velocity	4.61	7.66	7.66	7.73	7.87	8.10	7.80	7.73	7.52	7.66	8.47	7.17	7.68	7.92	7.63

Sedney, Zoë (NED) (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 Paavo Nurmi Games (Turku, FIN) (TV Analysis)												<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>					
date	14-Jun-22	time	2.56	3.60	4.62	5.64	6.64	7.64	8.66	9.68	10.74	11.84	13.07	7 / 8			
reaction time	0.165	interval	1.04	1.02	1.02	1.00	1.00	1.02	1.02	1.06	1.10	1.23		3.08	3.02	3.18	
wind	0.2 m/s	velocity	5.08	8.17	8.33	8.33	8.50	8.50	8.33	8.33	8.02	7.73	8.17	7.65	8.28	8.44	8.02

FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)

date	19-Mar-22	time	2.54	3.58	4.60	5.62	6.64						8.07	6 / 6			
reaction time	0.169	interval	1.04	1.02	1.02	1.02						1.43		3.08			
		velocity	5.12	8.17	8.33	8.33	8.33					9.09	7.43	8.28			

Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

date	31-Jul-21	time	2.53	3.56	4.61	5.63	6.64	7.67	8.72	9.76	10.80	11.87	13.03	9 / 7			
reaction time	0.162	interval	1.03	1.05	1.02	1.01	1.03	1.05	1.04	1.04	1.07	1.16		3.10	3.09	3.15	
wind	0.3 m/s	velocity	5.14	8.25	8.10	8.33	8.42	8.25	8.10	8.17	8.17	7.94	8.66	7.67	8.23	8.25	8.10

FINAL - 2021 Müller Grand Prix (Gateshead, GBR) (TV Analysis)

date	23-May-21	time	2.64	3.72	4.76	5.82	6.90	7.96	9.02	10.10	11.20	12.32	13.57	2 / 6			
reaction time	0.186	interval	1.08	1.04	1.06	1.08	1.06	1.06	1.08	1.10	1.12	1.25		3.18	3.20	3.30	
wind	-3.9 m/s	velocity	4.92	7.87	8.17	8.02	7.87	8.02	8.02	7.87	7.73	7.59	8.04	7.37	8.02	7.97	7.73

FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)

date	07-Mar-21	time	2.48	3.54	4.56	5.58	6.58						8.00	2 / 7			
reaction time	0.171	interval	1.06	1.02	1.02	1.00						1.42		3.10			
		velocity	5.24	8.02	8.33	8.33	8.50					9.15	7.50	8.23			

FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)

date	25-Sep-20	time	2.56	3.63	4.66	5.73	6.73	7.73	8.76	9.83	10.86	12.00	13.24	2 / 5			
reaction time	0.168	interval	1.07	1.03	1.07	1.00	1.00	1.03	1.07	1.03	1.14	1.24	PB		3.17	3.03	3.24
wind	1.1 m/s	velocity	5.08	7.94	8.25	7.94	8.50	8.50	8.25	7.94	8.25	7.46	8.10	7.55	8.04	8.42	7.87

Sember, Cindy (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 B - 2024 Kamila Skolimowska Memorial (Silesia, POL)												<i>Omega Timing (2024) - diamond league race analysis</i>					
date	25-Aug-24	time	2.53	3.47	4.43	5.40	6.37	7.37	8.38	9.39	10.40	11.40	12.67	2 / 7			
reaction time	0.150	interval	0.94	0.96	0.97	0.97	1.00	1.01	1.01	1.01	1.00	1.27		2.87	2.98	3.02	
wind	0.6 m/s	velocity	5.14	9.04	8.85	8.76	8.76	8.50	8.42	8.42	8.42	8.50	7.91	7.89	8.89	8.56	8.44

Semi-Final 3 - 2024 Olympic Games (Paris, FRA)

date	09-Aug-24	time	2.47	3.52	4.52	5.49	6.44	7.41	8.40	9.42			dnf	8 / --			
reaction time	0.139	interval	1.05	1.00	0.97	0.95	0.97	0.99	1.02					3.02	2.91		
wind	-0.7 m/s	velocity	5.26	8.10	8.50	8.76	8.95	8.76	8.59	8.33				8.44	8.76		

Heat 2 - 2024 Olympic Games (Paris, FRA)

date	07-Aug-24	time	2.47	3.51	4.50	5.46	6.43	7.40	8.39	9.41	10.43	11.46	12.72	9 / 2			
reaction time	0.155	interval	1.04	0.99	0.96	0.97	0.97	0.99	1.02	1.02	1.03	1.26		2.99	2.93	3.07	
wind	0.0 m/s	velocity	5.26	8.17	8.59	8.85	8.76	8.76	8.59	8.33	8.33	8.25	7.98	7.86	8.53	8.70	8.31

FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)

date	08-Jun-24	time	2.54	3.60	4.57	5.54	6.51	7.48	8.44	9.42	10.40	11.42	12.56	7 / 4			
reaction time	0.175	interval	1.06	0.97	0.97	0.97	0.97	0.96	0.98	0.98	1.02	1.14		3.00	2.90	2.98	
wind	0.8 m/s	velocity	5.12	8.02	8.76	8.76	8.76	8.76	8.85	8.67	8.67	8.33	8.82	7.96	8.50	8.79	8.56

FINAL - 2024 Prefontaine Classic (Eugene, OR)

date	25-May-24	time	2.54	3.60	4.61	5.59	6.57	7.55	8.52	9.50	10.50	11.51	12.76	9 / 7			
reaction time	0.175	interval	1.06	1.01	0.98	0.98	0.98	0.97	0.98	1.00	1.01	1.25		3.05	2.93	2.99	
wind	-0.9 m/s	velocity	5.12	8.02	8.42	8.67	8.67	8.67	8.76	8.67	8.50	8.42	8.04	7.84	8.36	8.70	8.53

FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

date 03-Mar-24 time 2.60 3.65 4.65 5.62 6.60
 reaction time 0.164 interval 1.05 1.00 0.97 0.98
 velocity 5.00 8.10 8.50 8.76 8.67

7.92 8 / 7
 1.32 3.02
 9.85 7.58 8.44

FINAL - 2024 Millrose Games (New York, NY) (TV Analysis)*Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date 11-Feb-24 time 2.58 3.60 4.60 5.58 6.56
 reaction time 0.170 interval 1.02 1.00 0.98 0.98
 velocity 5.04 8.33 8.50 8.67 8.67

7.91 1 / 5
 1.35 3.00
 9.63 7.59 8.50

FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)*Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date 04-Feb-24 time 2.55 3.62 4.62 5.62 6.62
 reaction time 0.490 interval 1.07 1.00 1.00 1.00
 velocity 5.10 7.94 8.50 8.50 8.50

8.00 2 / 5
 1.38 3.07
 9.42 7.50 8.31

Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date 23-Aug-23 time 2.60 3.62 4.62 5.60 6.64 7.62 8.62 9.64 10.69 11.75
 reaction time 0.167 interval 1.02 1.00 0.98 1.04 0.98 1.00 1.02 1.05 1.06 1.22
 wind 0.5 m/s velocity 5.00 8.33 8.50 8.67 8.17 8.67 8.50 8.33 8.10 8.02 8.24 7.71

12.97 8 / 6
 3.00 3.02 3.13
 8.50 8.44 8.15

Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date 22-Aug-23 time 2.60 3.64 4.64 5.62 6.60 7.59 8.58 9.58 10.60 11.63
 reaction time 0.173 interval 1.04 1.00 0.98 0.98 0.99 1.00 1.02 1.03 1.20
 wind 0.1 m/s velocity 5.00 8.17 8.50 8.67 8.67 8.59 8.59 8.50 8.33 8.25 8.38 7.79

12.83 8 / 4
 3.02 2.96 3.05
 8.44 8.61 8.36

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 2.60 3.63 4.67 5.67 6.65 7.65 8.67 9.76 11.08
 reaction time 0.201 interval 1.03 1.04 1.00 0.98 1.00 1.02 1.09 1.32
 wind 2.8 m/s velocity 5.00 8.25 8.17 8.50 8.67 8.50 8.33 7.80 6.44

dnf 7 / --
 3.07 3.00
 8.31 8.50

FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date 21-Aug-22 time 2.54 3.58 4.74 5.80 6.85 7.81 8.85 9.81 10.83 11.89
 reaction time 0.175 interval 1.04 1.16 1.06 1.05 0.96 1.04 0.96 1.02 1.06 1.27
 wind -0.1 m/s velocity 5.12 8.17 7.33 8.02 8.10 8.85 8.17 8.85 8.33 8.02 7.91 7.60

13.16 3 / 8
 3.26 3.05 3.04
 7.82 8.36 8.39

FINAL - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date 07-Aug-22 time 2.52 3.52 4.52 5.52 6.48 7.44 8.40 9.40 10.38 11.40
 reaction time 0.145 interval 1.00 1.00 1.00 0.96 0.96 0.96 1.00 0.98 1.02 1.19
 wind -0.2 m/s velocity 5.16 8.50 8.50 8.50 8.85 8.85 8.85 8.50 8.67 8.33 8.45 7.94

12.59 3 / 3
 3.00 2.88 3.00
 8.50 8.85 8.50

FINAL - 2022 World Athletics Championships (Eugene, OR)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date 24-Jul-22 time 2.57 3.58 4.53 5.51 6.44 7.37 8.33 9.29 10.27 11.27
 reaction time 0.158 interval 1.01 0.95 0.98 0.93 0.93 0.96 0.96 0.98 1.00 1.11
 wind 2.5 m/s velocity 5.06 8.42 8.95 8.67 9.14 9.14 8.85 8.85 8.67 8.50 9.05 8.08

12.38 1 / 5
 2.94 2.82 2.94
 8.67 9.04 8.67

Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date 24-Jul-22 time 2.50 3.50 4.47 5.45 6.42 7.37 8.33 9.30 10.30 11.30
 reaction time 0.158 interval 1.00 0.97 0.98 0.97 0.95 0.96 0.97 1.00 1.00 1.20
 wind 0.9 m/s velocity 5.20 8.50 8.76 8.67 8.76 8.95 8.85 8.76 8.50 8.50 8.38 8.00

12.50 5 / 4
 NR PB 2.95 2.88 2.97
 8.64 8.85 8.59

Heat 6 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date 23-Jul-22 time 2.47 3.52 4.50 5.46 6.46 7.40 8.40 9.38 10.38 11.40
 reaction time 0.149 interval 1.05 0.98 0.96 1.00 0.94 1.00 0.98 1.00 1.02 1.27
 wind -0.4 m/s velocity 5.26 8.10 8.67 8.85 8.50 9.04 8.50 8.67 8.50 8.33 7.91 7.89

12.67 5 / 2
 2.99 2.94 3.00
 8.53 8.67 8.50

FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date 18-Jun-22 time 2.52 3.54 4.52 5.52 6.49 7.47 8.47 9.45 10.47 11.50
 reaction time 0.161 interval 1.02 0.98 1.00 0.97 0.98 1.00 0.98 1.02 1.03 1.23
 wind -0.4 m/s velocity 5.16 8.33 8.67 8.50 8.76 8.67 8.50 8.67 8.33 8.25 8.17 7.86

12.73 3 / 3
 3.00 2.95 3.03
 8.50 8.64 8.42

FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date 28-May-22 time 2.53 3.57 4.56 5.55 6.53 7.50 8.50 9.50 10.50 11.52
 reaction time 0.149 interval 1.04 0.99 0.99 0.98 0.97 1.00 1.00 1.00 1.02 1.17
 wind -0.7 m/s velocity 5.14 8.17 8.59 8.59 8.67 8.76 8.50 8.50 8.50 8.33 8.59 7.88

12.69 2 / 4
 3.02 2.95 3.02
 8.44 8.64 8.44

FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date 22-Apr-22 time 2.60 3.63 4.63 5.61 6.59 7.55 8.53 9.51 10.51 11.51
 reaction time interval 1.03 1.00 0.98 0.98 0.96 0.98 0.98 1.00 1.00 1.12
 wind 0.8 m/s velocity 5.00 8.25 8.50 8.67 8.67 8.85 8.67 8.67 8.50 8.50 8.97 7.92

12.63 3 / 5
 3.01 2.92 2.98
 8.47 8.73 8.56

FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date 09-Sep-21 time 2.54 3.56 4.54 5.52 6.50 7.50 8.48 9.46 10.48 11.52
 reaction time 0.161 interval 1.02 0.98 0.98 0.98 1.00 0.98 0.98 1.02 1.04 1.19
 wind 0.4 m/s velocity 5.12 8.33 8.67 8.67 8.67 8.50 8.67 8.67 8.33 8.17 8.45 7.87

12.71 6 / 5
 2.98 2.96 3.04
 8.56 8.61 8.39

FINAL - 2021 Memorial van Damme (Brussels, BEL) (TV Analysis)

date	03-Sep-21	time	2.56	3.62	4.62	5.60	6.60	7.58	8.56	9.54	10.58	11.62	12.79	2 / 4			
reaction time	0.174	interval		1.06	1.00	0.98	1.00	0.98	0.98	0.98	1.04	1.04	1.17		3.04	2.96	3.06
wind	0.7 m/s	velocity	5.08	8.02	8.50	8.67	8.50	8.67	8.67	8.67	8.17	8.17	8.59	7.82	8.39	8.61	8.33

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

Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

date	01-Aug-21	time	2.58	3.62	4.61	5.61	6.58	7.57	8.57	9.56	10.57	11.62	12.76	3 / 7			
reaction time	0.163	interval		1.04	0.99	1.00	0.97	0.99	1.00	0.99	1.01	1.05	1.14		3.03	2.96	3.05
wind	-0.2 m/s	velocity	5.04	8.17	8.59	8.50	8.76	8.59	8.50	8.59	8.42	8.10	8.82	7.84	8.42	8.61	8.36

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

Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

date	31-Jul-21	time	2.57	3.62	4.66	5.66	6.68	7.71	8.71	9.75	10.79	11.82	13.00	5 / 4			
reaction time	0.178	interval		1.05	1.04	1.00	1.02	1.03	1.00	1.04	1.04	1.03	1.18		3.09	3.05	3.11
wind	1.0 m/s	velocity	5.06	8.10	8.17	8.50	8.33	8.25	8.50	8.17	8.17	8.25	8.52	7.69	8.25	8.36	8.20

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

FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)

date	13-Jul-21	time	2.54	3.57	4.57	5.55	6.51	7.47	8.45	9.45	10.46	11.48	12.69	4 / 1			
reaction time	0.195	interval		1.03	1.00	0.98	0.96	0.96	0.98	1.00	1.01	1.02	1.21		3.01	2.90	3.03
wind	1.5 m/s	velocity	5.12	8.25	8.50	8.67	8.85	8.85	8.67	8.50	8.42	8.33	8.31	7.88	8.47	8.79	8.42

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

FINAL - 2021 Müller Grand Prix (Gateshead, GBR) (TV Analysis)

date	23-May-21	time	2.56	3.66	4.72	5.76	6.78	7.80	8.82	9.86	10.94	12.02	13.28	5 / 1			
reaction time	0.159	interval		1.10	1.06	1.04	1.02	1.02	1.02	1.04	1.08	1.08	1.26		3.20	3.06	3.20
wind	-3.9 m/s	velocity	5.08	7.73	8.02	8.17	8.33	8.33	8.33	8.17	7.87	7.87	7.98	7.53	7.97	8.33	7.97

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

FINAL - 2021 USATF Golden Games (Walnut, CA) (TV Analysis)

date	09-May-21	time	2.53	3.54	4.53	5.50	6.47	7.43	8.39	9.38	10.37	11.37	12.53	3 / 2			
reaction time	0.173	interval		1.01	0.99	0.97	0.97	0.96	0.96	0.99	0.99	1.00	1.16	PB	2.97	2.89	2.98
wind	2.0 m/s	velocity	5.14	8.42	8.59	8.76	8.76	8.85	8.85	8.59	8.59	8.50	8.66	7.98	8.59	8.82	8.56

Henson (2021) - Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season

FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)

date	07-Mar-21	time	2.48	3.54	4.52	5.48	6.44							6 / 2			
reaction time	0.165	interval		1.06	0.98	0.96	0.96						1.45	=PB	3.00		
		velocity	5.24	8.02	8.67	8.85	8.85						8.97	7.60	8.50		

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

Ofili, Cindy (GBR) (1994)

FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)

date	25-Sep-20	time	2.56	3.60	4.63	5.63	6.63	7.63	8.63	9.66	10.70	11.76	13.02	4 / 3			
reaction time	0.180	interval		1.04	1.03	1.00	1.00	1.00	1.00	1.03	1.04	1.06	1.26		3.07	3.00	3.13
wind	1.1 m/s	velocity	5.08	8.17	8.25	8.50	8.50	8.50	8.50	8.25	8.17	8.02	7.98	7.68	8.31	8.50	8.15

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

FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)

date	17-Sep-20	time	2.52	3.58	4.58	5.58	6.58	7.60	8.62	9.66	10.72	11.78	13.02	3 / 4			
reaction time	0.136	interval		1.06	1.00	1.00	1.00	1.02	1.02	1.04	1.06	1.06	1.24		3.06	3.04	3.16
wind	0.1 m/s	velocity	5.16	8.02	8.50	8.50	8.50	8.33	8.33	8.17	8.02	8.02	8.10	7.68	8.33	8.39	8.07

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

Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)

date	06-Oct-19	time	2.46	3.50	4.50	5.50	6.50	7.48	8.48	9.50	10.54	11.58	12.95	9 / 6			
reaction time	0.189	interval		1.04	1.00	1.00	1.00	0.98	1.00	1.02	1.04	1.04	1.37		3.04	2.98	3.10
wind	0.8 m/s	velocity	5.28	8.17	8.50	8.50	8.50	8.67	8.50	8.33	8.17	8.17	7.34	7.72	8.39	8.56	8.23

Henson (2020) - Athlete First: 2019 year end hurdle report

FINAL - 2017 Doha Diamond League (Doha, QAT) (TV Analysis)

date	05-May-17	time	2.64	3.70	4.78	5.84	6.88	7.92	8.96	10.00	11.04	12.14	13.42	7 / 7			
reaction time	0.158	interval		1.06	1.08	1.06	1.04	1.04	1.04	1.04	1.04	1.10	1.28		3.20	3.12	3.18
wind	-2.3 m/s	velocity	4.92	8.02	7.87	8.02	8.17	8.17	8.17	8.17	8.17	7.73	8.20	7.45	7.97	8.17	8.02

Henson (2020) - Athlete First: 2017 year end hurdle report

FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)

date	29-Apr-17	time	2.53	3.60	4.60	5.63	6.63	7.63	8.63	9.63	10.63	11.66	12.92	6 / 6			
reaction time		interval		1.07	1.00	1.03	1.00	1.00	1.00	1.00	1.00	1.03	1.26		3.10	3.00	3.03
wind	1.0 m/s	velocity	5.14	7.94	8.50	8.25	8.50	8.50	8.50	8.50	8.50	8.25	8.33	7.74	8.23	8.50	8.42

Henson (2020) - Athlete First: 2017 year end hurdle report

FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)

date	01-Sep-16	time	2.46	3.48	4.48	5.48	6.46	7.44	8.44	9.44	10.44	11.44	12.70	6 / 2			
reaction time	0.139	interval		1.02	1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.00	1.26		3.02	2.96	3.00
wind	0.4 m/s	velocity	5.28	8.33	8.50	8.50	8.67	8.67	8.50	8.50	8.50	8.50	8.33	7.87	8.44	8.61	8.50

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

FINAL - 2016 Meeting Paris (Saint-Denis, FRA) (TV Analysis)

date	27-Aug-16	time	2.52	3.56	4.56	5.56	6.52	7.50	8.48	9.46	10.46	11.48	12.66	7 / 3			
reaction time	0.146	interval		1.04	1.00	1.00	0.96	0.98	0.98	0.98	1.00	1.02	1.18		3.04	2.92	3.00
wind	0.2 m/s	velocity	5.16	8.17	8.50	8.50	8.85	8.67	8.67	8.67	8.50	8.33	8.90	7.90	8.39	8.73	8.50

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

FINAL - 2016 Athletissima (Luusanne, SUI) (TV Analysis)

date	25-Aug-16	time	2.56	3.58	4.60	5.58	6.54	7.52	8.52	9.54	10.56	11.60	12.80	7 / 4			
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Henson (2020) - Athlete First: 2016 year end hurdle report

reaction time	0.145	interval	1.02	1.02	0.98	0.96	0.98	1.00	1.02	1.02	1.04	1.20			3.02	2.94	3.08
wind	0.7 m/s	velocity	5.08	8.33	8.33	8.67	8.85	8.67	8.50	8.33	8.33	8.17	8.75	7.81	8.44	8.67	8.28

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	17-Aug-16	time	2.37	3.40	4.40	5.37	6.34	7.31	8.31	9.31	10.31	11.34			12.63	8 / 4	
reaction time	0.161	interval	1.03	1.00	0.97	0.97	0.97	1.00	1.00	1.00	1.03	1.29					3.00 2.94 3.03
wind	0.0 m/s	velocity	5.49	8.25	8.50	8.76	8.76	8.76	8.50	8.50	8.50	8.25	8.14	7.92			8.50 8.67 8.42

Semecká, Tereza (CZE) (1998)**FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)** *Feher (2015) - Final report U18 & U20 Czech Republic indoor national championships*

date	14-Feb-15	time	2.85	3.93	5.01	6.08	7.16								8.59	4 / 2	
reaction time	0.160	interval	1.08	1.08	1.07	1.08											3.23
		velocity	4.56	7.87	7.87	7.94	7.87								9.09		7.89

FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.84	3.99	5.09	6.16	7.25	8.33	9.42	10.51	11.62	12.73			13.98	5 / 1	
reaction time	0.160	interval	1.15	1.10	1.07	1.09	1.08	1.09	1.09	1.11	1.11	1.25					3.32 3.26 3.31
wind	-3.6 m/s	velocity	4.58	7.39	7.73	7.94	7.80	7.87	7.80	7.80	7.66	7.66	8.40	7.15			7.68 7.82 7.70

Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.93	4.01	5.10	6.20	7.29	8.39	9.47	10.57	11.67	12.83			14.06	3 / 1	
reaction time	0.242	interval	1.08	1.09	1.10	1.09	1.10	1.08	1.10	1.10	1.16	1.23					3.27 3.27 3.36
wind	-3.6 m/s	velocity	4.44	7.87	7.80	7.73	7.80	7.73	7.87	7.73	7.73	7.33	8.54	7.11			7.80 7.80 7.59

Sena, Françoise (FRA)**Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)** *Aubert (1986) - indoor - video - haies, etude des performances*

date	25-Jan-86	time	2.74	3.83	4.91	5.94	6.98								8.40	1 / 5	
reaction time		interval	1.09	1.08	1.03	1.04											3.20
		velocity	4.74	7.80	7.87	8.25	8.17								9.15		7.97

Heat ? - 1986 French National Indoor Championships (Lievin, FRA)*Aubert (1986) - indoor - video - haies, etude des performances*

date	25-Jan-86	time	2.71	3.81	4.88	5.92	6.98								8.42	1 / 5	
reaction time		interval	1.10	1.07	1.04	1.06											3.21
		velocity	4.80	7.73	7.94	8.17	8.02								9.03		7.94

Sevila, Emeline (FRA) (1994)**FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)** *Henson (2020) - Athlete First: 2020 year end hurdle report*

date	12-Sep-20	time	2.63	3.71	4.76	5.91	6.96	8.04	9.18	10.33	11.41	12.60			13.99	1 / 8	
reaction time	0.208	interval	1.08	1.05	1.15	1.05	1.08	1.14	1.15	1.08	1.19	1.39					3.28 3.27 3.42
wind	1.5 m/s	velocity	4.94	7.87	8.10	7.39	8.10	7.87	7.46	7.39	7.87	7.14	7.23	7.15			7.77 7.80 7.46

Seymour, Pedrya (BAH) (1995)**Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)** *Henson (2024) - Athlete First: 2021 year end hurdle report*

date	01-Aug-21	time	2.57	3.63	4.68	5.70	6.69	7.70	8.69	9.69	10.72	11.81			13.09	3 / 8	
reaction time	0.185	interval	1.06	1.05	1.02	0.99	1.01	0.99	1.00	1.03	1.09	1.28					3.13 2.99 3.12
wind	0.0 m/s	velocity	5.06	8.02	8.10	8.33	8.59	8.42	8.59	8.50	8.25	7.80	7.85	7.64			8.15 8.53 8.17

Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	31-Jul-21	time	2.61	3.66	4.69	5.69	6.67	7.67	8.72	9.77	10.79	11.86			13.04	7 / 4	
reaction time		interval	1.05	1.03	1.00	0.98	1.00	1.05	1.05	1.02	1.07	1.18					3.08 3.03 3.14
wind	-1.1 m/s	velocity	4.98	8.10	8.25	8.50	8.67	8.50	8.10	8.10	8.33	7.94	8.52	7.67			8.28 8.42 8.12

FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	10-Jun-21	time	2.56	3.62	4.72	5.80	6.84	7.88	8.94	10.02	11.08	12.18			13.51	1 / 7	
reaction time	0.168	interval	1.06	1.10	1.08	1.04	1.04	1.06	1.08	1.06	1.10	1.33					3.24 3.14 3.24
wind	-0.8 m/s	velocity	5.08	8.02	7.73	7.87	8.17	8.17	8.02	7.87	8.02	7.73	7.56	7.40			7.87 8.12 7.87

FINAL - 2021 Müller Grand Prix (Gateshead, GBR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	23-May-21	time	2.64	3.74	4.84	5.88	6.96	8.00	9.04	10.08	11.18	12.28			13.57	8 / 7	
reaction time	0.191	interval	1.10	1.10	1.04	1.08	1.04	1.04	1.04	1.04	1.10	1.10	1.29				3.24 3.16 3.24
wind	-3.9 m/s	velocity	4.92	7.73	7.73	8.17	7.87	8.17	8.17	8.17	7.73	7.73	7.79	7.37			7.87 8.07 7.87

FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	08-Aug-19	time	2.50	3.58	4.62	5.64	6.65	7.66	8.67	9.71	10.72	11.81			13.12	7 / 5	
reaction time	0.164	interval	1.08	1.04	1.02	1.01	1.01	1.01	1.04	1.01	1.09	1.31					3.14 3.03 3.14
wind	0.1 m/s	velocity	5.20	7.87	8.17	8.33	8.42	8.42	8.42	8.17	8.42	7.80	8.02	7.62			8.12 8.42 8.12

FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	20-Jul-19	time	2.54	3.58	4.62	5.60	6.60	7.62	8.64	9.64	10.68	11.74			12.96	3 / 6	
reaction time	0.172	interval	1.04	1.04	0.98	1.00	1.02	1.02	1.00	1.04	1.06	1.22					3.06 3.04 3.10
wind	0.8 m/s	velocity	5.12	8.17	8.17	8.67	8.50	8.33	8.33	8.50	8.17	8.02	8.61	7.72			8.33 8.39 8.23

FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	30-May-19	time	2.56	3.64	4.68	5.72	6.74	7.74	8.74	9.74	10.74	11.78		12.97	8 / 6			
reaction time	0.150	interval		1.08	1.04	1.04	1.02	1.00	1.00	1.00	1.00	1.04	1.19			3.16	3.02	3.04
wind	1.3 m/s	velocity	5.08	7.87	8.17	8.17	8.33	8.50	8.50	8.50	8.50	8.17	8.82	7.71		8.07	8.44	8.39
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)																		
date	21-May-19	time	2.56	3.61	4.64	5.64	6.65	7.64	8.64	9.63	10.62	11.67		12.83	7 / 5			
reaction time	0.149	interval		1.05	1.03	1.00	1.01	0.99	1.00	0.99	0.99	1.05	1.16			3.08	3.00	3.03
wind	-1.0 m/s	velocity	5.08	8.10	8.25	8.50	8.42	8.59	8.50	8.59	8.59	8.10	9.05	7.79		8.28	8.50	8.42
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)																		
date	19-May-19	time	2.68	3.70	4.72	5.73	6.73	7.70	8.68	9.68	10.69	11.74		12.90	8 / 3			
reaction time	0.274	interval		1.02	1.02	1.01	1.00	0.97	0.98	1.00	1.01	1.05	1.16			3.05	2.95	3.06
wind	0.4 m/s	velocity	4.85	8.33	8.33	8.42	8.50	8.76	8.67	8.50	8.42	8.10	9.05	7.75		8.36	8.64	8.33
FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)																		
date	09-Jun-18	time	2.56	3.63	4.66	5.66	6.66	7.66	8.66	9.70	10.73	11.76		13.04	6 / 4			
reaction time		interval		1.07	1.03	1.00	1.00	1.00	1.00	1.04	1.03	1.03	1.28			3.10	3.00	3.10
wind	0.9 m/s	velocity	5.08	7.94	8.25	8.50	8.50	8.50	8.50	8.17	8.25	8.25	8.20	7.67		8.23	8.50	8.23
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)																		
date	17-Aug-16	time	2.38	3.43	4.45	5.43	6.41	7.40	8.37	9.37	10.34	11.34		12.76	5 / 6			
reaction time	0.179	interval		1.05	1.02	0.98	0.98	0.99	0.97	1.00	0.97	1.00	1.42			3.05	2.94	2.97
wind	0.0 m/s	velocity	5.46	8.10	8.33	8.67	8.67	8.59	8.76	8.50	8.76	8.50	7.39	7.84		8.36	8.67	8.59
Shkhamarov, Esther (ISR) (1952)																		
Heat 1 - 1972 Olympic Games (Munich, FRG)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
date	04-Sep-72	time	2.5		6.7							13.17	2 / 4					
reaction time		interval			4.20													
wind	0.0 m/s	velocity	5.26		8.10							7.59						
Shekhodanova, Nataliya (RUS) (1971)																		
FINAL - 1996 Olympic Games (Atlanta, GA)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
date	31-Jul-96	time	2.45	3.50	4.48	5.45	6.43	7.44	8.46	9.47	10.51	11.51		12.80	1 / 7			
reaction time	0.195	interval		1.05	0.98	0.97	0.98	1.01	1.02	1.01	1.04	1.00	1.29	DV		3.00	3.01	3.05
wind	0.2 m/s	velocity	5.31	8.10	8.67	8.76	8.67	8.42	8.33	8.42	8.17	8.50	8.14	7.81		8.50	8.47	8.36
Shen Muhan (CHN) (1997)																		
Heptathlon - Heat 2 - 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		
date	24-Jun-21	time	2.78	3.94	5.07	6.19	7.31	8.44	9.59	10.76	11.94	13.16		14.48	4 / 2			
reaction time	0.195	interval		1.16	1.13	1.12	1.12	1.13	1.15	1.17	1.18	1.22	1.32			3.41	3.40	3.57
wind	0.6 m/s	velocity	4.68	7.33	7.52	7.59	7.59	7.52	7.39	7.26	7.20	6.97	7.61	6.91		7.48	7.50	7.14
FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)																		
date	18-Mar-21	time	2.81	3.99	5.13	6.25	7.40							8.96	1 / 6			
reaction time	0.222	interval		1.18	1.14	1.12	1.15						1.56			3.44		
		velocity	4.63	7.20	7.46	7.59	7.39					8.33	6.70			7.41		
Heptathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																		
date	23-Aug-19	time	2.84	3.99	5.15	6.29	7.44	8.58	9.74	10.91	12.12	13.34		14.68	7 / 1			
reaction time	0.217	interval		1.15	1.16	1.14	1.15	1.14	1.16	1.17	1.21	1.22	1.34			3.45	3.45	3.60
wind	?? m/s	velocity	4.58	7.39	7.33	7.46	7.39	7.46	7.33	7.26	7.02	6.97	7.84	6.81		7.39	7.39	7.08
Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)																		
date	08-Jul-19	time	2.83	4.00	5.12	6.24	7.36	8.49	9.64	10.79	12.00	13.23		14.57	8 / 2			
reaction time	0.230	interval		1.17	1.12	1.12	1.12	1.13	1.15	1.15	1.21	1.23	1.34			3.41	3.40	3.59
wind	0.1 m/s	velocity	4.59	7.26	7.59	7.59	7.59	7.52	7.39	7.39	7.02	6.91	7.84	6.86		7.48	7.50	7.10
Sherman, Alandra (USA) (1985)																		
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
date	22-Jun-03	time	2.56	3.65	4.70	5.76	6.81	7.84	8.89	9.96	11.01	12.10		13.36	7 / 2			
reaction time		interval		1.09	1.05	1.06	1.05	1.03	1.05	1.07	1.05	1.09	1.26			3.20	3.13	3.21
wind	2.3 m/s	velocity	5.08	7.80	8.10	8.02	8.10	8.25	8.10	7.94	8.10	7.80	8.33	7.49		7.97	8.15	7.94
Shiba, Risa (JPN) (1981)																		
Heat 3 - 2009 Japanese National Championships (Hiroshima, JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
date	25-Jun-09	time	2.46	3.57	4.66	5.74	6.82	7.91	9.01	10.12	11.24	12.37		13.81	4 / 2			
reaction time		interval		1.11	1.09	1.08	1.08	1.09	1.10	1.11	1.12	1.13	1.44			3.28	3.27	3.36
wind	0.0 m/s	velocity	5.28	7.66	7.80	7.87	7.87	7.80	7.73	7.66	7.59	7.52	7.29	7.24		7.77	7.80	7.59
Shibata, Aika (JPN) (2001)																		
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		
date	08-Oct-18	time	2.66	3.71	4.75	5.79	6.81	7.82	8.85	9.90	10.99	12.10		13.31	4 / 2			
reaction time	0.149	interval		1.05	1.04	1.04	1.02	1.01	1.03	1.05	1.09	1.11	1.21			3.13	3.06	3.25

wind 2.5 m/s velocity 4.89 8.10 8.17 8.17 8.33 8.42 8.25 8.10 7.80 7.66 8.68 7.51 8.15 8.33 7.85

FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) *Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data*

date 02-Aug-18 time 2.65 3.72 4.80 5.87 6.94 8.02 9.06 10.18 11.32 12.43 13.68 3 / 3

reaction time interval 1.07 1.08 1.07 1.07 1.08 1.04 1.12 1.14 1.11 1.25 **PB** 3.22 3.19 3.37

wind -0.3 m/s velocity 4.91 7.94 7.87 7.94 7.94 7.87 8.17 7.59 7.46 7.66 8.40 7.31 7.92 7.99 7.57

Shibata, Manaka (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 Seiko Golden Grand Prix (Yokohama, JPN) *Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date 21-May-23 time 2.67 3.73 4.78 5.80 6.82 7.84 8.85 9.89 10.93 12.00 13.13 1 / 9

reaction time 0.151 interval 1.06 1.05 1.02 1.02 1.02 1.01 1.04 1.04 1.07 1.13 **PB** 3.13 3.05 3.15

wind 0.4 m/s velocity 4.87 8.02 8.10 8.33 8.33 8.33 8.42 8.17 8.17 7.94 8.89 7.62 8.15 8.36 8.10

FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN) *Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date 07-May-23 time 2.70 3.75 4.79 5.80 6.81 7.81 8.84 9.88 10.94 12.03 13.14 7 / 4

reaction time 0.172 interval 1.05 1.04 1.01 1.01 1.00 1.03 1.04 1.06 1.09 1.11 **PB** 3.10 3.04 3.19

wind 0.7 m/s velocity 4.81 8.10 8.17 8.42 8.42 8.50 8.25 8.17 8.02 7.80 9.05 7.61 8.23 8.39 7.99

FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN) *Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date 29-Apr-23 time 2.72 3.81 4.86 5.88 6.92 7.97 9.03 10.09 11.18 12.26 13.41 1 / 6

reaction time 0.172 interval 1.09 1.05 1.02 1.04 1.05 1.06 1.06 1.09 1.08 1.15 3.16 3.15 3.23

wind 0.6 m/s velocity 4.78 7.80 8.10 8.33 8.17 8.10 8.02 8.02 7.80 7.87 8.74 7.46 8.07 8.10 7.89

FINAL - 2021 Japanese National Championships (Osaka, JPN) *Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date 27-Jun-21 time 2.69 3.78 4.88 5.93 6.97 8.02 9.07 10.16 11.26 12.38 13.59 3 / 8

reaction time 0.139 interval 1.09 1.10 1.05 1.04 1.05 1.05 1.09 1.10 1.12 1.21 3.24 3.14 3.31

wind 0.0 m/s velocity 4.83 7.80 7.73 8.10 8.17 8.10 8.10 7.80 7.73 7.59 8.31 7.36 7.87 8.12 7.70

U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) *Kijima (2019) - research on athlete performance and technique- 2019 data book*

date 18-Oct-19 time 2.66 3.73 4.78 5.81 6.85 7.89 8.93 9.99 11.09 12.20 13.45 6 / 1

reaction time 0.142 interval 1.07 1.05 1.03 1.04 1.04 1.04 1.06 1.10 1.11 1.25 3.15 3.12 3.27

wind -0.5 m/s velocity 4.89 7.94 8.10 8.25 8.17 8.17 8.17 8.02 7.73 7.66 8.40 7.43 8.10 8.17 7.80

B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN) *Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

date 28-Apr-19 time 2.75 3.86 4.96 6.05 7.12 8.20 9.32 10.43 11.55 12.71 13.99 2 / 7

reaction time interval 1.11 1.10 1.09 1.07 1.08 1.12 1.11 1.12 1.16 1.28 3.30 3.27 3.39

wind 1.3 m/s velocity 4.73 7.66 7.73 7.80 7.94 7.87 7.59 7.66 7.59 7.33 8.20 7.15 7.73 7.80 7.52

Shichibu, Miki (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) (76cm) *(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date 21-Oct-16 time 2.73 3.80 4.87 5.95 7.02 8.10 9.19 10.29 11.42 12.57 13.86 6 / 1

reaction time interval 1.07 1.07 1.08 1.07 1.08 1.09 1.10 1.13 1.15 1.29 3.22 3.24 3.38

wind 1.3 m/s velocity 4.76 7.48 7.48 7.41 7.48 7.41 7.34 7.27 7.08 6.96 11.63 7.22 7.45 7.41 7.10

Shimamura, Aozora (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 National Sports Festival (Hitachinaka, JPN) (76cm) *Enomoto (2019) - research on athlete performance and technique- 2019 data book*

date 06-Oct-19 time 2.68 3.78 4.87 5.96 7.05 8.13 9.23 10.36 11.48 12.63 13.95 3 / 6

reaction time 0.138 interval 1.10 1.09 1.09 1.09 1.08 1.10 1.13 1.12 1.15 1.32 3.28 3.27 3.40

wind 1.6 m/s velocity 4.85 7.73 7.80 7.80 7.80 7.87 7.73 7.52 7.59 7.39 7.95 7.17 7.77 7.80 7.50

Shimano, Maki (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) *Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data*

date 08-Aug-19 time 2.68 3.76 4.83 5.94 7.04 8.17 9.28 10.40 11.52 12.69 13.97 5 / 1

reaction time interval 1.08 1.07 1.11 1.10 1.13 1.11 1.12 1.12 1.17 1.28 3.26 3.34 3.41

wind -4.1 m/s velocity 4.85 7.87 7.94 7.66 7.73 7.52 7.66 7.59 7.59 7.26 8.20 7.16 7.82 7.63 7.48

Shimano, Mao (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 - 2021 Ready Steady Tokyo (Tokyo, JPN) *Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date 09-May-21 time 2.69 3.77 4.82 5.87 6.92 7.97 9.06 10.14 11.23 12.37 13.57 9 / 5

reaction time 0.141 interval 1.08 1.05 1.05 1.05 1.05 1.09 1.08 1.09 1.14 1.20 3.18 3.19 3.31

wind -0.8 m/s velocity 4.83 7.87 8.10 8.10 8.10 8.10 7.80 7.87 7.80 7.46 8.37 7.37 8.02 7.99 7.70

FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN) *Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date 29-Apr-21 time 2.63 3.71 4.75 5.80 6.82 7.86 8.91 10.00 11.08 12.19 13.40 2 / 6

reaction time interval 1.08 1.04 1.05 1.02 1.04 1.05 1.09 1.08 1.11 1.21 3.17 3.11 3.28

wind 1.6 m/s velocity 4.94 7.87 8.17 8.10 8.33 8.17 8.10 7.80 7.87 7.66 8.31 7.46 8.04 8.20 7.77

U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) *Kijima (2019) - research on athlete performance and technique- 2019 data book*

date 18-Oct-19 time 2.71 3.81 4.85 5.91 6.97 8.05 9.15 10.24 11.39 12.53 13.78 4 / 2

reaction time 0.153 interval 1.10 1.04 1.06 1.06 1.08 1.10 1.09 1.15 1.14 1.25 3.20 3.24 3.38

wind -0.5 m/s velocity 4.80 7.73 8.17 8.02 8.02 7.87 7.73 7.80 7.39 7.46 8.40 7.26 7.97 7.87 7.54

Shimura, Hitomi (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 - 2023 Japanese National Championships (Osaka, JPN)

date	03-Jun-23	time	2.66	3.72	4.78	5.81	6.85	7.90	8.94	10.00	11.06	12.15	13.35	2 / 6			
reaction time	0.162	interval		1.06	1.06	1.03	1.04	1.05	1.04	1.06	1.06	1.09	1.20		3.15	3.13	3.21
wind	-1.2 m/s	velocity	4.89	8.02	8.02	8.25	8.17	8.10	8.17	8.02	8.02	7.80	8.38	7.49	8.10	8.15	7.94

*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season***FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)**

date	07-May-23	time	2.65	3.70	4.73	5.76	6.77	7.79	8.83	9.89	10.94	12.01	13.18	3 / 5			
reaction time	0.145	interval		1.05	1.03	1.03	1.01	1.02	1.04	1.06	1.05	1.07	1.17		3.11	3.07	3.18
wind	0.7 m/s	velocity	4.91	8.10	8.25	8.25	8.42	8.33	8.17	8.02	8.10	7.94	8.59	7.59	8.20	8.31	8.02

*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season***FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)**

date	29-Apr-23	time	2.63	3.69	4.76	5.80	6.82	7.86	8.89	9.93	10.98	12.04	13.20	7 / 4			
reaction time	0.149	interval		1.06	1.07	1.04	1.02	1.04	1.03	1.04	1.05	1.06	1.16		3.17	3.09	3.15
wind	0.6 m/s	velocity	4.94	8.02	7.94	8.17	8.33	8.17	8.25	8.17	8.10	8.02	8.66	7.58	8.04	8.25	8.10

*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season***FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)**

date	08-May-22	time	2.66	3.72	4.75	5.79	6.83	7.85	8.89	9.96	11.04	12.13	13.31	9 / 6			
reaction time	0.140	interval		1.06	1.03	1.04	1.04	1.02	1.04	1.07	1.08	1.09	1.18		3.13	3.10	3.24
wind	-0.1 m/s	velocity	4.89	8.02	8.25	8.17	8.17	8.33	8.17	7.94	7.87	7.80	8.52	7.51	8.15	8.23	7.87

*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season***FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)**

date	01-May-22	time	2.64	3.71	4.74	5.77	6.79	7.82	8.86	9.91	10.98	12.05	13.23	5 / 2			
reaction time	0.153	interval		1.07	1.03	1.03	1.02	1.03	1.04	1.05	1.07	1.07	1.18		3.13	3.09	3.19
wind	-0.6 m/s	velocity	4.92	7.94	8.25	8.25	8.33	8.25	8.17	8.10	7.94	7.94	8.52	7.56	8.15	8.25	7.99

*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season***FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)**

date	29-Apr-22	time	2.67	3.73	4.82	5.88	6.96	8.04	9.11	10.20	11.27	12.34	13.49	6 / 4			
reaction time	0.147	interval		1.06	1.09	1.06	1.08	1.08	1.07	1.09	1.07	1.07	1.15		3.21	3.23	3.23
wind	-2.8 m/s	velocity	4.87	8.02	7.80	8.02	7.87	7.87	7.94	7.80	7.94	7.94	8.74	7.41	7.94	7.89	7.89

*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season***FINAL - 2021 Fuse Sprint (Tottori, JPN)**

date	06-Jun-21	time	2.71	3.78	4.82	5.85	6.87	7.90	8.95	9.98	11.04	12.12	13.29	9 / 8			
reaction time	0.158	interval		1.07	1.04	1.03	1.02	1.03	1.05	1.03	1.06	1.08	1.17		3.14	3.10	3.17
wind	1.8 m/s	velocity	4.80	7.94	8.17	8.25	8.33	8.25	8.10	8.25	8.02	7.87	8.59	7.52	8.12	8.23	8.04

*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season***FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)**

date	09-May-21	time	2.65	3.76	4.81	5.86	6.90	7.96	9.02	10.10	11.18	12.27	13.63	7 / 7			
reaction time	0.138	interval		1.11	1.05	1.05	1.04	1.06	1.06	1.08	1.08	1.09	1.36		3.21	3.16	3.25
wind	-0.8 m/s	velocity	4.91	7.66	8.10	8.10	8.17	8.02	8.02	7.87	7.87	7.80	7.39	7.34	7.94	8.07	7.85

*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season***FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)**

date	29-Apr-21	time	2.67	3.74	4.81	5.86	6.89	7.92	8.97	10.03	11.12	12.21	13.37	4 / 5			
reaction time		interval		1.07	1.07	1.05	1.03	1.03	1.05	1.06	1.09	1.09	1.16		3.19	3.11	3.24
wind	1.6 m/s	velocity	4.87	7.94	7.94	8.10	8.25	8.25	8.10	8.02	7.80	7.80	8.66	7.48	7.99	8.20	7.87

*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season***FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)**

date	24-Oct-20	time	2.66	3.73	4.77	5.83	6.88	7.94	9.01	10.08	11.19	12.29	13.29	6 / 1			
reaction time		interval		1.07	1.04	1.06	1.05	1.06	1.07	1.07	1.11	1.10	1.00		3.17	3.18	3.28
wind	-1.4 m/s	velocity	4.89	7.94	8.17	8.02	8.10	8.02	7.94	7.94	7.66	7.73	10.05	7.52	8.04	8.02	7.77

*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers***FINAL - 2020 Japanese National Championships (Niigata, JPN)**

date	03-Oct-20	time	2.67	3.75	4.80	5.83	6.88	7.94	9.00	10.08	11.19	12.29	13.52	7 / 6			
reaction time	0.174	interval		1.08	1.05	1.03	1.05	1.06	1.06	1.08	1.11	1.10	1.23		3.16	3.17	3.29
wind	-0.1 m/s	velocity	4.87	7.87	8.10	8.25	8.10	8.02	8.02	7.87	7.66	7.73	8.17	7.40	8.07	8.04	7.75

*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers***FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)**

date	20-Sep-20	time	2.66	3.72	4.78	5.80	6.84	7.87	8.92	9.97	11.04	12.13	13.32	7 / 3			
reaction time	0.149	interval		1.06	1.06	1.02	1.04	1.03	1.05	1.05	1.07	1.09	1.19		3.14	3.12	3.21
wind	0.0 m/s	velocity	4.89	8.02	8.02	8.33	8.17	8.25	8.10	8.10	7.94	7.80	8.45	7.51	8.12	8.17	7.94

*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers***FINAL - 2020 Athlete Night Games (Fukui, JPN)**

date	29-Aug-20	time	2.67	3.72	4.75	5.77	6.78	7.80	8.82	9.86	10.91	11.97	13.14	/ 5			
reaction time		interval		1.05	1.03	1.02	1.01	1.02	1.02	1.04	1.05	1.06	1.17		3.10	3.05	3.15
wind	2.1 m/s	velocity	4.87	8.10	8.25	8.33	8.42	8.33	8.33	8.17	8.10	8.02	8.59	7.61	8.23	8.36	8.10

*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers***FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)**

date	23-Aug-20	time	2.62	3.69	4.75	5.78	6.82	7.85	8.90	9.97	11.05	12.14	13.36	4 / 7			
reaction time	0.148	interval		1.07	1.06	1.03	1.04	1.03	1.05	1.07	1.08	1.09	1.22		3.16	3.12	3.24
wind	0.3 m/s	velocity	4.96	7.94	8.02	8.25	8.17	8.25	8.10	7.94	7.87	7.80	8.24	7.49	8.07	8.17	7.87

*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers***Semi-Final 1 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)**

date	14-Feb-20	time	2.68	3.75	4.81	5.86	6.95						8.43	5 / 4			
reaction time		interval		1.07	1.06	1.05	1.09						1.48		3.18		

CAA Hurdle Development (2020)

velocity 4.85 7.94 8.02 8.10 7.80 8.78 7.12 8.02

FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN) *Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps*
 date 01-Sep-19 time 2.64 3.69 4.73 5.76 6.77 7.85 8.90 9.97 11.05 12.13 13.32 3 / 5
 reaction time interval 1.05 1.04 1.03 1.01 1.08 1.05 1.07 1.08 1.08 1.19 3.12 3.14 3.23
 wind 1.2 m/s velocity 4.92 8.10 8.17 8.25 8.42 7.87 8.10 7.94 7.87 8.82 7.51 8.17 8.12 7.89

FINAL - 2019 Japanese National Championships (Fukuoka, JPN) *Yamanaka (2019) - research on athlete performance and technique- 2019 data book*
 date 29-Jun-19 time 2.64 3.69 4.72 5.75 6.77 7.80 8.83 9.88 10.94 12.03 13.20 9 / 4
 reaction time 0.156 interval 1.05 1.03 1.03 1.02 1.03 1.03 1.05 1.06 1.09 1.17 3.11 3.08 3.20
 wind 0.6 m/s velocity 4.92 8.10 8.25 8.25 8.33 8.25 8.25 8.10 8.02 7.80 8.97 7.58 8.20 8.28 7.97

FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN) *CAA Hurdle Development (2019)*
 date 07-Jun-19 time 2.63 3.69 4.73 5.75 6.77 7.79 8.81 9.86 10.89 11.94 13.11 5 / 1
 reaction time 0.183 interval 1.06 1.04 1.02 1.02 1.02 1.02 1.05 1.03 1.05 1.17 3.12 3.06 3.13
 wind 2.3 m/s velocity 4.94 8.02 8.17 8.33 8.33 8.33 8.33 8.10 8.25 8.10 8.97 7.63 8.17 8.33 8.15

FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN) *CAA Hurdle Development (2019)*
 date 04-Jun-19 time 2.61 3.70 4.73 5.77 6.82 7.85 8.92 9.97 11.06 12.13 13.31 4 / 1
 reaction time 0.145 interval 1.09 1.03 1.04 1.05 1.03 1.07 1.05 1.09 1.07 1.18 3.16 3.15 3.21
 wind -1.2 m/s velocity 4.98 7.80 8.25 8.17 8.10 8.25 7.94 8.10 7.80 7.94 8.90 7.51 8.07 8.10 7.94

FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN) *Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps*
 date 19-May-19 time 2.62 3.69 4.73 5.76 6.79 7.83 8.87 9.94 11.02 12.12 13.33 9 / 8
 reaction time 0.157 interval 1.07 1.04 1.03 1.03 1.04 1.04 1.07 1.08 1.10 1.21 3.14 3.11 3.25
 wind 0.4 m/s velocity 4.96 7.94 8.17 8.25 8.25 8.17 8.17 7.94 7.87 7.73 8.68 7.50 8.12 8.20 7.85

FINAL - 2019 Kinami Memorial (Osaka, JPN) *Matsubayashi (2019) - research on athlete performance and technique- 2019 data book*
 date 06-May-19 time 2.62 3.67 4.72 5.75 6.78 7.83 8.87 9.92 10.98 12.05 13.22 6 / 2
 reaction time interval 1.05 1.05 1.03 1.03 1.05 1.04 1.05 1.06 1.07 1.17 3.13 3.12 3.18
 wind 0.6 m/s velocity 4.96 8.10 8.10 8.25 8.25 8.10 8.17 8.10 8.02 7.94 8.97 7.56 8.15 8.17 8.02

A 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 3.75 4.80 5.85 6.89 7.92 8.98 10.03 11.10 12.19 13.39 4 / 3
 reaction time interval 1.06 1.05 1.05 1.04 1.03 1.06 1.05 1.07 1.09 1.20 3.16 3.13 3.21
 wind 0.6 m/s velocity 4.83 8.02 8.10 8.10 8.17 8.25 8.02 8.10 7.94 7.80 8.75 7.47 8.07 8.15 7.94

FINAL - 2018 Japanese National Championships (Yamaguchi, JPN) *Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*
 date 24-Jun-18 time 2.65 3.70 4.75 5.77 6.80 7.82 8.86 9.91 10.98 12.05 13.21 5 / 2
 reaction time 0.167 interval 1.05 1.05 1.02 1.03 1.02 1.04 1.05 1.07 1.07 1.16 3.12 3.09 3.19
 wind 1.1 m/s velocity 4.91 8.10 8.10 8.33 8.25 8.33 8.17 8.10 7.94 7.94 9.05 7.57 8.17 8.25 7.99

FINAL - 2018 Fuse Sprint (Tottori, JPN) *Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*
 date 03-Jun-18 time 2.63 3.69 4.72 5.74 6.76 7.80 8.84 9.88 10.93 11.99 13.18 1 / 2
 reaction time interval 1.06 1.03 1.02 1.02 1.04 1.04 1.04 1.05 1.06 1.19 3.11 3.10 3.15
 wind 0.6 m/s velocity 4.94 8.02 8.25 8.33 8.33 8.17 8.17 8.17 8.10 8.02 8.82 7.59 8.20 8.23 8.10

FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN) *Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*
 date 20-May-18 time 2.69 3.79 4.84 5.88 6.92 7.97 9.03 10.11 11.18 12.28 13.45 6 / 5
 reaction time 0.155 interval 1.10 1.05 1.04 1.04 1.05 1.06 1.08 1.07 1.10 1.17 3.19 3.15 3.25
 wind -0.6 m/s velocity 4.83 7.73 8.10 8.17 8.17 8.10 8.02 7.87 7.94 7.73 8.97 7.43 7.99 8.10 7.85

FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN) *Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*
 date 06-May-18 time 2.72 3.80 4.85 5.88 6.93 7.96 9.01 10.08 11.16 12.25 13.34 7 / 2
 reaction time interval 1.08 1.05 1.03 1.05 1.03 1.05 1.07 1.08 1.09 1.09 3.16 3.13 3.24
 wind -0.5 m/s velocity 4.78 7.87 8.10 8.25 8.10 8.25 8.10 7.94 7.87 7.80 9.63 7.50 8.07 8.15 7.87

FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN) *Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*
 date 29-Apr-18 time 2.65 3.73 4.77 5.79 6.84 7.85 8.88 9.91 10.96 12.02 13.16 4 / 3
 reaction time interval 1.08 1.04 1.02 1.05 1.01 1.03 1.03 1.05 1.06 1.14 3.14 3.09 3.14
 wind 3.6 m/s velocity 4.91 7.87 8.17 8.33 8.10 8.42 8.25 8.25 8.10 8.02 9.21 7.60 8.12 8.25 8.12

FINAL - 2017 Japanese National Championships (Osaka, JPN) *(2017) - tfdata-store.com/2017/07/19/post-1068/*
 date 25-Jun-17 time 2.65 3.70 4.75 5.78 6.83 7.87 8.91 9.96 11.03 12.12 13.31 4 / 2
 reaction time 0.148 interval 1.05 1.05 1.03 1.05 1.04 1.04 1.05 1.07 1.09 1.19 3.13 3.13 3.21
 wind 0.4 m/s velocity 4.91 8.10 8.10 8.25 8.10 8.17 8.17 8.10 7.94 7.80 8.82 7.51 8.15 8.15 7.94

Semi-Final 2 - 2017 Japanese National Championships (Osaka, JPN) *(2017.07.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*
 date 24-Jun-17 time 2.59 3.64 4.66 5.67 6.69 7.69 8.73 9.76 10.81 11.87 13.03 4 / 1
 reaction time 0.128 interval 1.05 1.02 1.01 1.02 1.00 1.04 1.03 1.05 1.06 1.16 3.08 3.06 3.14
 wind 0.3 m/s velocity 5.02 8.10 8.33 8.42 8.33 8.50 8.17 8.25 8.10 8.02 9.05 7.67 8.28 8.33 8.12

FINAL - 2017 Fuse Sprint (Tottori, JPN) *(2017) - tfdata-store.com/2017/06/04/post-848/*

date	04-Jun-17	time	2.65	3.70	4.74	5.76	6.80	7.82	8.84	9.89	10.95	12.00		13.13	8 / 2			
reaction time		interval		1.05	1.04	1.02	1.04	1.02	1.02	1.05	1.06	1.05	1.13			3.11	3.08	3.16
wind	3.7 m/s	velocity	4.91	8.10	8.17	8.33	8.17	8.33	8.33	8.10	8.02	8.10	9.29	7.62		8.20	8.28	8.07
Heat 3 - 2017 Fuse Sprint (Tottori, JPN)															(2017) - tfdata-store.com/2017/06/04/post-848/			
date	04-Jun-17	time	2.67	3.75	4.82	5.87	6.93	7.98	9.05	10.13	11.21	12.31		13.49	4 / 3			
reaction time		interval		1.08	1.07	1.05	1.06	1.05	1.07	1.08	1.08	1.10	1.18			3.20	3.18	3.26
wind	1.3 m/s	velocity	4.87	7.87	7.94	8.10	8.02	8.10	7.94	7.87	7.87	7.73	8.90	7.41		7.97	8.02	7.82
FINAL - 2016 Japanese National Corporate Championships (Osaka, JPN)															(2016.09.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en			
date	25-Sep-16	time	2.64	3.68	4.71	5.73	6.75	7.77	8.80	9.84	10.88	11.96		13.10	7 / 1			
reaction time	0.141	interval		1.04	1.03	1.02	1.02	1.02	1.03	1.04	1.04	1.08	1.14			3.09	3.07	3.16
wind	1.0 m/s	velocity	4.92	8.17	8.25	8.33	8.33	8.33	8.25	8.17	8.17	7.87	9.21	7.63		8.25	8.31	8.07
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	2.67	3.74	4.82	5.87	6.90	7.94	8.99	10.05	11.14	12.23		13.39	5 / 2			
reaction time		interval		1.07	1.08	1.05	1.03	1.04	1.05	1.06	1.09	1.09	1.16			3.20	3.12	3.24
wind	1.1 m/s	velocity	4.87	7.94	7.87	8.10	8.25	8.17	8.10	8.02	7.80	7.80	9.05	7.47		7.97	8.17	7.87
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	2.67	3.75	4.80	5.86	6.91	7.97	9.04	10.11	11.19	12.27		13.43	7 / 4			
reaction time	0.140	interval		1.08	1.05	1.06	1.05	1.06	1.07	1.07	1.08	1.08	1.16			3.19	3.18	3.23
wind	2.1 m/s	velocity	4.87	7.87	8.10	8.02	8.10	8.02	7.94	7.94	7.87	7.87	9.05	7.45		7.99	8.02	7.89
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	2.65	3.75	4.81	5.85	6.88	7.91	8.95	9.99	11.04	12.11		13.24	4 / 2			
reaction time		interval		1.10	1.06	1.04	1.03	1.03	1.04	1.04	1.05	1.07	1.13			3.20	3.10	3.16
wind	1.1 m/s	velocity	4.91	7.73	8.02	8.17	8.25	8.25	8.17	8.17	8.10	7.94	9.29	7.55		7.97	8.23	8.07
FINAL - 2015 Japanese National Championships (Niigata, JPN)															Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions			
date	27-Jun-15	time	2.64	3.69	4.73	5.75	6.80	7.82	8.85	9.92	10.99	12.07		13.27	6 / 1			
reaction time	0.147	interval		1.05	1.04	1.02	1.05	1.02	1.03	1.07	1.07	1.08	1.20			3.11	3.10	3.22
wind	-0.2 m/s	velocity	4.92	8.10	8.17	8.33	8.10	8.33	8.25	7.94	7.94	7.87	8.75	7.54		8.20	8.23	7.92
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	2.65	3.73	4.78	5.82	6.84	7.89	8.94	10.01	11.08	12.15		13.32	1 / 2			
reaction time		interval		1.08	1.05	1.04	1.02	1.05	1.05	1.07	1.07	1.07	1.17			3.17	3.12	3.21
wind	0.2 m/s	velocity	4.91	7.87	8.10	8.17	8.33	8.10	8.10	7.94	7.94	7.94	8.97	7.51		8.04	8.17	7.94
Heat 5 - 2009 Japanese National Championships (Hiroshima, JPN)															Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season			
date	25-Jun-09	time	2.54	3.64	4.71	5.78	6.85	7.92	9.00	10.08	11.18	12.30		13.66	4 / 1			
reaction time		interval		1.10	1.07	1.07	1.07	1.07	1.08	1.08	1.10	1.12	1.36			3.24	3.22	3.30
wind	1.5 m/s	velocity	5.12	7.73	7.94	7.94	7.94	7.94	7.87	7.87	7.73	7.59	7.72	7.32		7.87	7.92	7.73
Shing Cho Yan (HKG) (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)															CAA Hurdle Development (2019)			
date	14-Aug-19	time	2.62	3.74	4.84	5.96	7.06	8.19	9.34	10.53	11.73	12.95		14.40	8 / 7			
reaction time	0.144	interval		1.12	1.10	1.12	1.10	1.13	1.15	1.19	1.20	1.22	1.45			3.34	3.38	3.61
wind	-0.1 m/s	velocity	4.96	7.59	7.73	7.59	7.73	7.52	7.39	7.14	7.08	6.97	7.24	6.94		7.63	7.54	7.06
U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN)															CAA Hurdle Development (2019)			
date	14-Aug-19	time	2.67	3.81	4.91	6.00	7.09	8.21	9.33	10.49	11.66	12.89		14.25	6 / 2			
reaction time	0.135	interval		1.14	1.10	1.09	1.09	1.12	1.12	1.16	1.17	1.23	1.36	PB		3.33	3.33	3.56
wind	0.5 m/s	velocity	4.87	7.46	7.73	7.80	7.80	7.59	7.59	7.33	7.26	6.91	7.72	7.02		7.66	7.66	7.16
Shinga, Chiori (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 Perfecture High School Championships (Chiba, JPN)															(2016.10.26) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en			
date	24-Sep-16	time	2.81	3.93	5.05	6.19	7.31	8.46	9.60	10.77	11.95	13.14		14.46	4 / 1			
reaction time		interval		1.12	1.12	1.14	1.12	1.15	1.14	1.17	1.18	1.19	1.32			3.38	3.41	3.54
wind	0.5 m/s	velocity	4.63	7.59	7.59	7.46	7.59	7.39	7.46	7.26	7.20	7.14	7.95	6.92		7.54	7.48	7.20
Shishido, Riko (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 National Sports Festival (Fukui, JPN)															Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad			
date	08-Oct-18	time	2.66	3.74	4.83	5.92	6.97	8.02	9.10	10.19	11.26	12.38		13.65	8 / 6			
reaction time	0.173	interval		1.08	1.09	1.09	1.05	1.05	1.08	1.09	1.07	1.12	1.27			3.26	3.18	3.28
wind	2.5 m/s	velocity	4.89	7.87	7.80	7.80	8.10	8.10	7.87	7.80	7.94	7.59	8.27	7.33		7.82	8.02	7.77
Shishigina, Olga (KZK) (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	2.62	3.64	4.64	5.63	6.62	7.62	8.61	9.62	10.62	11.65		12.74	1 / 3			
reaction time	0.169	interval		1.02	1.00	0.99	0.99	1.00	0.99	1.01	1.00	1.03	1.09			3.01	2.98	3.04
wind	-0.2 m/s	velocity	4.96	8.33	8.50	8.59	8.59	8.50	8.59	8.42	8.50	8.25	9.63	7.85		8.47	8.56	8.39

FINAL - 1999 IAAF World Championships (Sevilla, ESP)

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

date	28-Aug-99	time	2.60	3.60	4.59	5.56	6.52	7.49	8.47	9.44	10.44	11.45	12.51	4 / 4			
reaction time	0.150	interval		1.00	0.99	0.97	0.96	0.97	0.98	0.97	1.00	1.01	1.06		2.96	2.91	2.98
wind	0.7 m/s	velocity	5.00	8.50	8.59	8.76	8.85	8.76	8.67	8.76	8.50	8.42	9.91	7.99	8.61	8.76	8.56

Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)

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

date	27-Aug-99	time	2.61	3.64	4.66	5.65	6.63	7.61	8.60	9.59	10.58	11.60	12.75	6 / 2			
reaction time	0.152	interval		1.03	1.02	0.99	0.98	0.98	0.99	0.99	0.99	1.02	1.15		3.04	2.95	3.00
wind	1.0 m/s	velocity	4.98	8.25	8.33	8.59	8.67	8.67	8.59	8.59	8.59	8.33	9.13	7.84	8.39	8.64	8.50

Shunji, Natsuki (JPN)**Heat 5 - 2016 Japanese National Junior Championships (Mizuho, JPN)**(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en

date	21-Oct-16	time	2.79	3.90	5.01	6.12	7.22	8.36	9.48	10.64	11.80	12.96	14.24	3 / 1			
reaction time		interval		1.11	1.11	1.11	1.10	1.14	1.12	1.16	1.16	1.16	1.28		3.33	3.36	3.48
wind	0.9 m/s	velocity	4.66	7.66	7.66	7.66	7.73	7.46	7.59	7.33	7.33	7.33	8.20	7.02	7.66	7.59	7.33

Shynzybekova, Aygerim (KAZ) (1992)**FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)**

CAA Hurdle Development (2019)

date	07-Jun-19	time	2.78	3.85	4.92	5.98	7.05	8.10	9.17	10.22	11.31	12.40	13.60	8 / 5			
reaction time	0.186	interval		1.07	1.07	1.06	1.07	1.05	1.07	1.05	1.09	1.09	1.20		3.20	3.19	3.23
wind	2.3 m/s	velocity	4.68	7.94	7.94	8.02	7.94	8.10	7.94	8.10	7.80	7.80	8.75	7.35	7.97	7.99	7.89

FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)

CAA Hurdle Development (2019)

date	04-Jun-19	time	2.75	3.85	4.95	6.03	7.12	8.20	9.29	10.39	11.51	12.62	13.91	7 / 6			
reaction time	0.147	interval		1.10	1.10	1.08	1.09	1.08	1.09	1.10	1.12	1.11	1.29		3.28	3.26	3.33
wind	-1.2 m/s	velocity	4.73	7.73	7.73	7.87	7.80	7.87	7.80	7.73	7.59	7.66	8.14	7.19	7.77	7.82	7.66

FINAL - 2019 Asian Athletics Championships (Doha, QAT)

CAA Hurdle Development (2019)

date	24-Apr-19	time	2.68	3.77	4.83	5.87	6.94	7.98	9.05	10.12	11.19	12.29	13.50	3 / 8			
reaction time	0.132	interval		1.09	1.06	1.04	1.07	1.04	1.07	1.07	1.07	1.10	1.21		3.19	3.18	3.24
wind	1.3 m/s	velocity	4.85	7.80	8.02	8.17	7.94	8.17	7.94	7.94	7.94	7.73	8.68	7.41	7.99	8.02	7.87

Siciarz, Klaudia (POL) (1998)**FINAL - 2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)**

Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season

date	03-Jun-22	time	2.56	3.60	4.64	5.66	6.68	7.68	8.68	9.72	10.76	11.84	13.08	7 / 6			
reaction time		interval	7 steps	1.04	1.04	1.02	1.02	1.00	1.00	1.04	1.04	1.08	1.24		3.10	3.02	3.16
wind	0.2 m/s	velocity	5.08	8.17	8.17	8.33	8.33	8.50	8.50	8.17	8.17	7.87	8.10	7.65	8.23	8.44	8.07

Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

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

date	01-Aug-21	time	2.46	3.51	4.54	5.53	6.51	7.51	8.51	9.54	10.57	11.62	12.84	2 / 5			
reaction time	0.146	interval	7 steps	1.05	1.03	0.99	0.98	1.00	1.00	1.03	1.03	1.05	1.22		3.07	2.98	3.11
wind	-0.8 m/s	velocity	5.28	8.10	8.25	8.59	8.67	8.50	8.50	8.25	8.25	8.10	8.24	7.79	8.31	8.56	8.20

Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

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

date	31-Jul-21	time	2.59	3.66	4.70	5.72	6.72	7.70	8.72	9.74	10.76	11.79	12.98	3 / 6			
reaction time	0.165	interval	7 steps	1.07	1.04	1.02	1.00	0.98	1.02	1.02	1.02	1.03	1.19		3.13	3.00	3.07
wind	0.3 m/s	velocity	5.02	7.94	8.17	8.33	8.50	8.67	8.33	8.33	8.33	8.25	8.45	7.70	8.15	8.50	8.31

Siebert, Gloria (GDR) (1964)**FINAL - 1988 Olympic Games (Seoul, KOR)**

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

date	30-Sep-88	time	2.60	3.61	4.62	5.58	6.54	7.50	8.46	9.46	10.46	11.46	12.61	4 / 2			
reaction time	0.196	interval		1.01	1.01	0.96	0.96	0.96	0.96	1.00	1.00	1.00	1.15		2.98	2.88	3.00
wind	0.2 m/s	velocity	5.00	8.42	8.42	8.85	8.85	8.85	8.85	8.50	8.50	8.50	9.13	7.93	8.56	8.85	8.50

Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)

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

date	29-Sep-88	time	2.60	3.62	4.61	5.61	6.57	7.53	8.49	9.49	10.49	11.49	12.60	3 / 2			
reaction time	0.182	interval		1.02	0.99	1.00	0.96	0.96	0.96	1.00	1.00	1.00	1.11		3.01	2.88	3.00
wind	0.5 m/s	velocity	5.00	8.33	8.59	8.50	8.85	8.85	8.85	8.50	8.50	8.50	9.46	7.94	8.47	8.85	8.50

Uibel-Siebert, Gloria (GDR) (1964)**FINAL - 1987 IAAF World Championships (Rome, ITA)**

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

date	04-Sep-87	time	2.57	3.58	4.56	5.50	6.48	7.44	8.42	9.36	10.33	11.34	12.44	4 / 2			
reaction time	0.193	interval		1.01	0.98	0.94	0.98	0.96	0.98	0.94	0.97	1.01	1.10	PB	2.93	2.92	2.92
wind	-0.5 m/s	velocity	5.06	8.42	8.67	9.04	8.67	8.85	8.67	9.04	8.76	8.42	9.55	8.04	8.70	8.73	8.73

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	04-Sep-87	time	2.65	3.66	4.65	5.63	6.60	7.57	8.54	9.53	10.54	11.55	12.68	4 / 1			
reaction time		interval		1.01	0.99	0.98	0.97	0.97	0.97	0.99	1.01	1.01	1.13		2.98	2.91	3.01
wind	-0.9 m/s	velocity	4.91	8.42	8.59	8.67	8.76	8.76	8.76	8.59	8.42	8.42	9.29	7.89	8.56	8.76	8.47

Heat 4 - 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	2.61	3.62	4.60	5.59	6.58	7.58	8.57	9.59	10.60	11.67	12.81	/ 1			
reaction time		interval		1.01	0.98	0.99	0.99	1.00	0.99	1.02	1.01	1.07	1.14		2.98	2.98	3.10
wind	-1.6 m/s	velocity	4.98	8.42	8.67	8.59	8.59	8.50	8.59	8.33	8.42	7.94	9.21	7.81	8.56	8.56	8.23

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Siirtola, Anni (FIN) (1998)																		
FINAL - 2020 Finnish National Championships (Turku, FIN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	14-Aug-20	time	2.66	3.80	4.86	5.90	7.00	8.06	9.10	10.20	11.30	12.40		13.71	8 / 5			
reaction time	0.193	interval		1.14	1.06	1.04	1.10	1.06	1.04	1.10	1.10	1.10	1.31			3.24	3.20	3.30
wind	1.0 m/s	velocity	4.89	7.46	8.02	8.17	7.73	8.02	8.17	7.73	7.73	7.73	7.67	7.29		7.87	7.97	7.73
FINAL - 2020 Motonet GP (Jyräskylä, FIN) (TV Analysis)																		
date	08-Jul-20	time	2.60	3.70									<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
reaction time		interval		1.10									dnf 7 / --					
wind	0.7 m/s	velocity	5.00	7.73														
Siles, Isabel (ESP) (1973)																		
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)													<i>Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas</i>					
date	01-Aug-98	time	2.69	3.81	4.91	6.05	7.17	8.33	9.51	10.70	11.88	13.11		14.54	8 / 7			
reaction time		interval		1.12	1.10	1.14	1.12	1.16	1.18	1.19	1.18	1.23	1.43			3.36	3.46	3.60
wind	0.0 m/s	velocity	4.83	7.59	7.73	7.46	7.59	7.33	7.20	7.14	7.20	6.91	7.34	6.88		7.59	7.37	7.08
Šimečková, Michaela (CZE) (1997)																		
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)													<i>Feher (2014) - Final report from the Czech Republic national championships</i>					
date	02-Aug-14	time	2.91	4.05	5.21	6.36	7.48	8.64	9.78	10.95	12.14	13.36		14.57	7 / 5			
reaction time	0.159	interval		1.14	1.16	1.15	1.12	1.16	1.14	1.17	1.19	1.22	1.21			3.45	3.42	3.58
wind	-1.0 m/s	velocity	4.47	7.46	7.33	7.39	7.59	7.33	7.46	7.26	7.14	6.97	8.68	6.86		7.39	7.46	7.12
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)													<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.83	3.98	5.08	6.16	7.25	8.33	9.43	10.56	11.71	12.90		14.17	7 / 3			
reaction time	0.213	interval		1.15	1.10	1.08	1.09	1.08	1.10	1.13	1.15	1.19	1.27			3.33	3.27	3.47
wind	-3.6 m/s	velocity	4.59	7.39	7.73	7.87	7.80	7.87	7.73	7.52	7.39	7.14	8.27	7.06		7.66	7.80	7.35
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)													<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.80	3.94	5.06	6.22	7.34	8.50	9.67	10.86	12.07	13.31		14.67	7 / 2			
reaction time	0.170	interval		1.14	1.12	1.16	1.12	1.16	1.17	1.19	1.21	1.24	1.36			3.42	3.45	3.64
wind	-7.3 m/s	velocity	4.64	7.46	7.59	7.33	7.59	7.33	7.26	7.14	7.02	6.85	7.72	6.82		7.46	7.39	7.01
Škloudová, Eliška (CZE) (1990)																		
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)													<i>Feher (2014) - Final report from the Czech Republic national championships</i>					
date	02-Aug-14	time	2.80	3.97	5.11	6.26	7.42	8.58	9.75	10.93	12.13	13.32		14.67	7 / 7			
reaction time	0.209	interval		1.17	1.14	1.15	1.16	1.16	1.17	1.18	1.20	1.19	1.35			3.46	3.49	3.57
wind	0.2 m/s	velocity	4.64	7.26	7.46	7.39	7.33	7.33	7.26	7.20	7.08	7.14	7.78	6.82		7.37	7.31	7.14
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	2.79	3.95	5.11	6.27	7.43	8.60	9.65	10.96	12.16	13.56		14.96	6 / 4			
reaction time	0.159	interval		1.16	1.16	1.16	1.16	1.17	1.05	1.31	1.20	1.40	1.40			3.48	3.38	3.91
wind	-1.0 m/s	velocity	4.66	7.33	7.33	7.33	7.33	7.26	8.10	6.49	7.08	6.07	7.50	6.68		7.33	7.54	6.52
Skálová, Annemarie (CZE) (1996)																		
FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE)													<i>Feher (2015) - Final report the U18 & U20 Czech Republic indoor national championships</i>					
date	14-Feb-15	time	2.80	3.93	5.09	6.26	7.42						8.95 4 / 2					
reaction time	0.148	interval		1.13	1.16	1.17	1.16						1.53 8.50 6.70			3.46		
wind		velocity	4.64	7.52	7.33	7.26	7.33									7.37		
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE)													<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.95	4.14	5.36	6.58	7.83	9.07	10.29	11.58	12.90	14.22		15.65	7 / 6			
reaction time	0.241	interval		1.19	1.22	1.22	1.25	1.24	1.22	1.29	1.32	1.32	1.43			3.63	3.71	3.93
wind	-3.9 m/s	velocity	4.41	7.14	6.97	6.97	6.80	6.85	6.97	6.59	6.44	6.44	7.34	6.39		7.02	6.87	6.49
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE)													<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.89	3.96	5.17	6.35	7.59	8.80	10.06	11.34	12.63	13.93		15.31	3 / 3			
reaction time	0.149	interval		1.07	1.21	1.18	1.24	1.21	1.26	1.28	1.29	1.30	1.38			3.46	3.71	3.87
wind	-4.5 m/s	velocity	4.50	7.94	7.02	7.20	6.85	7.02	6.75	6.64	6.59	6.54	7.61	6.53		7.37	6.87	6.59
Skeete, Lesley-Ann (GBR) (1967)																		
FINAL - 1991 European Cup (Frankfurt, GER)													<i>Graubner (2008) - http://www.fgs.uni-halle.de</i>					
date	30-Jun-91	time	2.61	3.68	4.74	5.78	6.81	7.86	8.90	9.94	11.02	12.08		13.26	1 / 5			
reaction time		interval		1.07	1.06	1.04	1.03	1.05	1.04	1.04	1.08	1.06	1.18			3.17	3.12	3.18
wind	-2.1 m/s	velocity	4.98	7.94	8.02	8.17	8.25	8.10	8.17	8.17	7.87	8.02	8.90	7.54		8.04	8.17	8.02
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	29-Sep-88	time	2.64	3.69	4.75	5.77	6.81	7.82	8.85	9.89	10.97	12.05		13.23	1 / 6			
reaction time	0.178	interval		1.05	1.06	1.02	1.04	1.01	1.03	1.04	1.08	1.08	1.18			3.13	3.08	3.20
wind	0.5 m/s	velocity	4.92	8.10	8.02	8.33	8.17	8.42	8.25	8.17	7.87	7.87	8.90	7.56		8.15	8.28	7.97
FINAL - 1987 European Cup (Prague, TCH)													<i>Sušanka (1987) - hints on computer processing of biomechanical data</i>					

date	28-Jun-87	time	2.68	3.80	4.88	5.96	7.02	8.08	9.20	10.27	11.39	12.52		13.66	2 / 7				
reaction time		interval		1.12	1.08	1.08	1.06	1.06	1.12	1.07	1.12	1.13	1.14				3.28	3.24	3.32
wind	-0.9m/s	velocity	4.85	7.59	7.87	7.87	8.02	8.02	7.59	7.94	7.59	7.52	9.21	7.32			7.77	7.87	7.68
FINAL - 1985 European Junior Championships (Cottbus, GDR)															<i>Warburton (1985) - 1985 european junior championships - hurdles</i>				
date	23-Aug-85	time	2.39	3.59	4.57	5.64	6.64	7.70	8.80	9.91	11.01	12.13		13.51	/ 5				
reaction time		interval		1.20	0.98	1.07	1.00	1.06	1.10	1.11	1.10	1.12	1.38				3.25	3.16	3.33
wind	2.0 m/s	velocity	5.44	7.08	8.67	7.94	8.50	8.02	7.73	7.66	7.73	7.59	7.61	7.40			7.85	8.07	7.66
Semi-Final 1 - 1985 European Junior Championships (Cottbus, GDR)															<i>Warburton (1985) - 1985 european junior championships - hurdles</i>				
date	23-Aug-85	time	2.52	3.60	4.67	5.76	6.81	7.90	8.92	9.99	11.07	12.17		13.60	/ 4				
reaction time		interval		1.08	1.07	1.09	1.05	1.09	1.02	1.07	1.08	1.10	1.43				3.24	3.16	3.25
wind	1.5 m/s	velocity	5.16	7.87	7.94	7.80	8.10	7.80	8.33	7.94	7.87	7.73	7.34	7.35			7.87	8.07	7.85
Heat 1 - 1985 European Junior Championships (Cottbus, GDR)															<i>Warburton (1985) - 1985 european junior championships - hurdles</i>				
date	23-Aug-85	time	2.38	3.54	4.59	5.61	6.68	7.88	8.97	9.96	11.04	12.19		13.68	/ 3				
reaction time		interval		1.16	1.05	1.02	1.07	1.20	1.09	0.99	1.08	1.15	1.49				3.23	3.36	3.22
wind	0.6 m/s	velocity	5.46	7.33	8.10	8.33	7.94	7.08	7.80	8.59	7.87	7.39	7.05	7.31			7.89	7.59	7.92
Skogström, Charlotte (SWE) (1993)															<i>Blomkvist (2012) - www.sub13.se</i>				
FINAL - 2012 Windsprint (Sundsvall, SWE)															<i>Blomkvist (2012) - www.sub13.se</i>				
date	17-Jun-12	time	2.91	4.06	5.15	6.23	7.32	8.43	9.57	10.71	11.85	13.00		14.31	/ 6				
reaction time		interval		1.15	1.09	1.08	1.09	1.11	1.14	1.14	1.14	1.15	1.31				3.32	3.34	3.43
wind	0.8 m/s	velocity	4.47	7.39	7.80	7.87	7.80	7.66	7.46	7.46	7.46	7.39	8.02	6.99			7.68	7.63	7.43
Skogström, Malin (SWE) (1995)															<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
FINAL - 2020 Bauhaus Galan (Stockholm, SWE) (TV Analysis)															<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	23-Aug-20	time	2.73	3.87	5.00	6.17	7.23	8.37	9.47	10.63	11.83	13.00		14.32	1 / 8				
reaction time	0.144	interval		1.14	1.13	1.17	1.06	1.14	1.10	1.16	1.20	1.17	1.32				3.44	3.30	3.53
wind	1.4 m/s	velocity	4.76	7.46	7.52	7.26	8.02	7.46	7.73	7.33	7.08	7.26	7.61	6.98			7.41	7.73	7.22
Škrobáková, Lucie (CZE) (1982)															<i>Feher (2014) - Final report from the Czech Republic national championships</i>				
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)															<i>Feher (2014) - Final report from the Czech Republic national championships</i>				
date	02-Aug-14	time	2.62	3.66	4.68	5.66	6.65	7.65	8.68	9.69	10.74	11.79		12.99	4 / 1				
reaction time	0.113	interval		1.04	1.02	0.98	0.99	1.00	1.03	1.01	1.05	1.05	1.20				3.04	3.02	3.11
wind	0.4 m/s	velocity	4.96	8.17	8.33	8.67	8.59	8.50	8.25	8.42	8.10	8.10	8.75	7.70			8.39	8.44	8.20
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)															<i>Feher (2014) - Final report from the Czech Republic national championships</i>				
date	02-Aug-14	time	2.68	3.73	4.74	5.74	6.73	7.73	8.75	9.76	10.81	11.85		13.06	4 / 1				
reaction time	0.201	interval		1.05	1.01	1.00	0.99	1.00	1.02	1.01	1.05	1.04	1.21				3.06	3.01	3.10
wind	0.2 m/s	velocity	4.85	8.10	8.42	8.50	8.59	8.50	8.33	8.42	8.10	8.17	8.68	7.66			8.33	8.47	8.23
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	2.60	3.62	4.62	5.59	6.58	7.56	8.56	9.57	10.58	11.61		12.79	4 / 1				
reaction time	0.151	interval		1.02	1.00	0.97	0.99	0.98	1.00	1.01	1.01	1.03	1.18				2.99	2.97	3.05
wind	0.3 m/s	velocity	5.00	8.33	8.50	8.76	8.59	8.67	8.50	8.42	8.42	8.25	8.90	7.82			8.53	8.59	8.36
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	2.61	3.67	4.68	5.70	6.69	7.71	8.72	9.74	10.77	11.83		13.04	4 / 1				
reaction time	0.158	interval		1.06	1.01	1.02	0.99	1.02	1.01	1.02	1.03	1.06	1.21				3.09	3.02	3.11
wind	-1.0 m/s	velocity	4.98	8.02	8.42	8.33	8.59	8.33	8.42	8.33	8.25	8.02	8.68	7.67			8.25	8.44	8.20
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)															<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	19-Aug-09	time	2.65	3.69	4.68	5.68	6.66	7.65	8.66	9.67	10.70	11.74		12.92	7 / 4				
reaction time	0.158	interval		1.04	0.99	1.00	0.98	0.99	1.01	1.01	1.03	1.04	1.18				3.03	2.98	3.08
wind	-0.1 m/s	velocity	4.91	8.17	8.59	8.50	8.67	8.59	8.42	8.42	8.25	8.17	8.90	7.74			8.42	8.56	8.28
FINAL - 2001 European Cup (Bremen, GER)															<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>				
date	24-Jun-01	time	2.64	3.84	4.91	5.98	7.03	8.10	9.18	10.26	11.37	12.49		13.70	/ 7				
reaction time	0.222	interval		1.20	1.07	1.07	1.05	1.07	1.08	1.08	1.11	1.12	1.21				3.34	3.20	3.31
wind	0.6 m/s	velocity	4.92	7.08	7.94	7.94	8.10	7.94	7.87	7.87	7.66	7.59	8.68	7.30			7.63	7.97	7.70
Skrzyszowska, Pia (POL) (2001)															<i>Omega Timing (2024) - diamond league race analysis</i>				
FINAL - 2024 Memorial van damme (Brussels, BEL)															<i>Omega Timing (2024) - diamond league race analysis</i>				
date	14-Sep-24	time	2.64	3.67	4.70	5.70	6.72	7.74	8.77	9.80	10.86	11.94		13.16	8 / 8				
reaction time	0.165	interval		1.03	1.03	1.00	1.02	1.02	1.03	1.03	1.06	1.08	1.22				3.06	3.07	3.17
wind	0.4 m/s	velocity	4.92	8.25	8.25	8.50	8.33	8.33	8.25	8.25	8.02	7.87	8.24	7.60			8.33	8.31	8.04
FINAL - 2024 Weltklasse (Zürich, SUI)															<i>Omega Timing (2024) - diamond league race analysis</i>				
date	05-Sep-24	time	2.48	3.52	4.52	5.51	6.49	7.49	8.49	9.50	10.55	11.61		12.90	9 / 8				
reaction time	0.134	interval		1.04	1.00	0.99	0.98	1.00	1.00	1.01	1.05	1.06	1.29				3.03	2.98	3.12
wind	0.8 m/s	velocity	5.24	8.17	8.50	8.59	8.67	8.50	8.50	8.42	8.10	8.02	7.79	7.75			8.42	8.56	8.17

Heat B - 2024 Kamila Skolimowska Memorial (Silesia, POL)

Omega Timing (2024) - diamond league race analysis

date	25-Aug-24	time	2.40	3.42	4.40	5.37	6.32	7.28	8.26	9.26	10.28	11.30	12.58	6 / 6				
reaction time	0.119	interval		1.02	0.98	0.97	0.95	0.96	0.98	1.00	1.02	1.02	1.28			2.97	2.89	3.04
wind	0.6 m/s	velocity	5.42	8.33	8.67	8.76	8.95	8.85	8.67	8.50	8.33	8.33	7.85	7.95		8.59	8.82	8.39

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

Paris 2024 Olympic Games - Results Book (2024)

date	09-Aug-24	time	2.41	3.43	4.41	5.39	6.34	7.30	8.28	9.27	10.28	11.29	12.55	8 / 3				
reaction time	0.148	interval		1.02	0.98	0.98	0.95	0.96	0.98	0.99	1.01	1.01	1.26			2.98	2.89	3.01
wind	0.5 m/s	velocity	5.39	8.33	8.67	8.67	8.95	8.85	8.67	8.59	8.42	8.42	7.98	7.97		8.56	8.82	8.47

Heat 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time	2.46	3.51	4.51	5.51	6.51	7.50	8.49	9.50	10.52	11.55	12.82	8 / 3				
reaction time	0.143	interval		1.05	1.00	1.00	1.00	0.99	0.99	1.01	1.02	1.03	1.27			3.05	2.98	3.06
wind	0.0 m/s	velocity	5.28	8.10	8.50	8.50	8.50	8.59	8.59	8.42	8.33	8.25	7.91	7.80		8.36	8.56	8.33

A FINAL - 2024 Resisprint International (La Chaux-de-Fonds, SUI) (TV Analysis)

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

date	14-Jul-24	time	2.56	3.55	4.53	5.48	6.43	7.38	8.33	9.29	10.28	11.28	12.37	5 / 2					
reaction time		interval		0.99	0.98	0.95	0.95	0.95	0.95	0.96	0.99	1.00	1.09			PB	2.92	2.85	2.95
wind	1.6 m/s	velocity	5.08	8.59	8.67	8.95	8.95	8.95	8.95	8.85	8.59	8.50	9.22	8.08			8.73	8.95	8.64

FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis)

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

date	07-Jul-24	time	2.54	3.55	4.52	5.48	6.46	7.43	8.41	9.40	10.37	11.42	12.57	6 / 4					
reaction time	0.133	interval		1.01	0.97	0.96	0.98	0.97	0.98	0.99	0.97	1.05	1.15				2.94	2.93	3.01
wind	1.6 m/s	velocity	5.12	8.42	8.76	8.85	8.67	8.76	8.67	8.59	8.76	8.10	8.74	7.96			8.67	8.70	8.47

Heat 2 - 2024 FBK Games (Hengelo, NED)

Omega Timing (2024) - continental tour gold race analysis

date	07-Jul-24	time	2.42	3.44	4.43	5.40	6.38	7.37	8.37	9.37	10.37	11.39	12.64	6 / 2					
reaction time	0.113	interval		1.02	0.99	0.97	0.98	0.99	1.00	1.00	1.00	1.02	1.25				2.98	2.97	3.02
wind	0.3 m/s	velocity	5.37	8.33	8.59	8.76	8.67	8.59	8.50	8.50	8.50	8.33	8.04	7.91			8.56	8.59	8.44

FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)

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

date	08-Jun-24	time	2.54	3.53	4.50	5.46	6.44	7.37	8.33	9.30	10.28	11.28	12.42	6 / 3						
reaction time	0.151	interval		0.99	0.97	0.96	0.98	0.93	0.96	0.97	0.98	1.00	1.14				PB	2.92	2.87	2.95
wind	0.8 m/s	velocity	5.12	8.59	8.76	8.85	8.67	9.14	8.85	8.76	8.67	8.50	8.82	8.05				8.73	8.89	8.64

FINAL - 2024 Seashore Doha Meeting (Doha, QAT) (TV Analysis)

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

date	10-May-24	time	2.57	3.57	4.58	5.55	6.51	7.47	8.44	9.41	10.41	11.41	12.53	3 / 3						
reaction time	0.124	interval		1.00	1.01	0.97	0.96	0.96	0.97	0.97	1.00	1.00	1.12					2.98	2.89	2.97
wind	1.7 m/s	velocity	5.06	8.50	8.42	8.76	8.85	8.85	8.76	8.76	8.50	8.50	8.97	7.98				8.56	8.82	8.59

FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

date	03-Mar-24	time	2.56	3.56	4.54	5.54	6.52						7.79	6 / 3				
reaction time	0.142	interval		1.00	0.98	1.00	0.98						1.27					2.98
		velocity	5.08	8.50	8.67	8.50	8.67						10.24	7.70				8.56

FINAL - 2024 Villa de Madrid Indoor Meeting (Madrid, ESP) (TV Analysis)

Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

date	23-Feb-24	time	2.52	3.56	4.53	5.50	6.47						7.83	6 / 3				
reaction time	0.127	interval		1.04	0.97	0.97	0.97						1.36					2.98
		velocity	5.16	8.17	8.76	8.76	8.76						9.56	7.66				8.56

FINAL - 2023 Prefontaine Classic (Eugene, OR)

Omega Timing (2023) - diamond league race analysis

date	17-Sep-23	time	2.47	3.52	4.54	5.54	6.53	7.51	8.50	9.50	10.51	11.54	12.81	1 / 8						
reaction time	0.140	interval		1.05	1.02	1.00	0.99	0.98	0.99	1.00	1.01	1.03	1.27					3.07	2.96	3.04
wind	1.8 m/s	velocity	5.26	8.10	8.33	8.50	8.59	8.67	8.59	8.50	8.42	8.25	7.91	7.81				8.31	8.61	8.39

FINAL - 2023 Weltklasse (Zürich, SUI)

Omega Timing (2023) - diamond league race analysis

date	31-Aug-23	time	2.45	3.50	4.54	5.53	6.52	7.51	8.52	9.54	10.59	11.68	13.10	9 / 9						
reaction time	0.134	interval		1.05	1.04	0.99	0.99	0.99	1.01	1.02	1.05	1.09	1.42					3.08	2.99	3.16
wind	-0.2 m/s	velocity	5.31	8.10	8.17	8.59	8.59	8.59	8.42	8.33	8.10	7.80	7.08	7.63				8.28	8.53	8.07

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

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

date	23-Aug-23	time	2.53	3.54	4.55	5.50	6.48	7.45	8.42	9.39	10.41	11.48	12.71	7 / 4						
reaction time	0.136	interval		1.01	1.01	0.95	0.98	0.97	0.97	0.97	1.02	1.07	1.23					2.97	2.92	3.06
wind	-0.4 m/s	velocity	5.14	8.42	8.42	8.95	8.67	8.76	8.76	8.76	8.33	7.94	8.17	7.87				8.59	8.73	8.33

Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

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

date	22-Aug-23	time	2.56	3.60	4.60	5.58	6.56	7.54	8.53	9.53	10.53	11.52	12.65	4 / 2						
reaction time	0.142	interval		1.04	1.00	0.98	0.98	0.98	0.99	1.00	1.00	0.99	1.13					3.02	2.95	2.99
wind	0.0 m/s	velocity	5.08	8.17	8.50	8.67	8.67	8.67	8.59	8.50	8.50	8.59	8.89	7.91				8.44	8.64	8.53

FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)

Omega Timing (2023) - diamond league race analysis

date	21-Jul-23	time	2.43	3.46	4.45	5.42	6.38	7.34	8.30	9.29	10.33	11.41	12.68	3 / 5						
reaction time	0.125	interval		1.03	0.99	0.97	0.96	0.96	0.96	0.99	1.04	1.08	1.27					2.99	2.88	3.11

wind	0.6 m/s	velocity	5.35	8.25	8.59	8.76	8.85	8.85	8.85	8.59	8.17	7.87	7.91	7.89		8.53	8.85	8.20
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)															<i>Omega Timing (2023) - diamond league race analysis</i>			
date	16-Jul-23	time	2.44	3.48	4.48	5.46	6.43	7.40	8.38	9.37	10.38	11.41		12.67	7 / 8			
reaction time	0.130	interval		1.04	1.00	0.98	0.97	0.97	0.98	0.99	1.01	1.03	1.26			3.02	2.92	3.03
wind	0.9 m/s	velocity	5.33	8.17	8.50	8.67	8.76	8.76	8.67	8.59	8.42	8.25	7.98	7.89		8.44	8.73	8.42
FINAL - 2023 Bauhaus Galan (Stockholm, SWE)															<i>Omega Timing (2023) - diamond league race analysis</i>			
date	02-Jul-23	time	2.42	3.44	4.43	5.41	6.38	7.37	8.35	9.33	10.37	11.47		12.78	5 / 3			
reaction time	0.132	interval		1.02	0.99	0.98	0.97	0.99	0.98	0.98	1.04	1.10	1.31			2.99	2.94	3.12
wind	0.9 m/s	velocity	5.37	8.33	8.59	8.67	8.76	8.59	8.67	8.67	8.17	7.73	7.67	7.82		8.53	8.67	8.17
FINAL - 2023 Athletissima (Lausanne, SUI)															<i>Omega Timing (2023) - diamond league race analysis</i>			
date	30-Jun-23	time	2.43	3.46	4.46	5.44	6.43	7.42	8.41	9.43	10.46	11.52		12.81	8 / 4			
reaction time	0.139	interval		1.03	1.00	0.98	0.99	0.99	0.99	1.02	1.03	1.06	1.29			3.01	2.97	3.11
wind	-1.4 m/s	velocity	5.35	8.25	8.50	8.67	8.59	8.59	8.59	8.33	8.25	8.02	7.79	7.81		8.47	8.59	8.20
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	08-Sep-22	time	2.47	3.50	4.47	5.45	6.41	7.39	8.37	9.35	10.37	11.41		12.72	9 / 7			
reaction time	0.162	interval		1.03	0.97	0.98	0.96	0.98	0.98	0.98	1.02	1.04	1.31			2.98	2.92	3.04
wind	-0.3 m/s	velocity	5.26	8.25	8.76	8.67	8.85	8.67	8.67	8.67	8.33	8.17	7.67	7.86		8.56	8.73	8.39
FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	02-Sep-22	time	2.47	3.50	4.50	5.50	6.47	7.47	8.47	9.50	10.54	11.58		12.81	7 / 7			
reaction time	0.136	interval		1.03	1.00	1.00	0.97	1.00	1.00	1.03	1.04	1.04	1.23			3.03	2.97	3.11
wind	0.1 m/s	velocity	5.26	8.25	8.50	8.50	8.76	8.50	8.50	8.25	8.17	8.17	8.17	7.81		8.42	8.59	8.20
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	21-Aug-22	time	2.52	3.52	4.52	5.48	6.45	7.41	8.39	9.35	10.33	11.33		12.53	6 / 1			
reaction time	0.134	interval		1.00	1.00	0.96	0.97	0.96	0.98	0.96	0.98	1.00	1.20			2.96	2.91	2.94
wind	-0.1 m/s	velocity	5.16	8.50	8.50	8.85	8.76	8.85	8.67	8.85	8.67	8.50	8.38	7.98		8.61	8.76	8.67
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	24-Jul-22	time	2.46	3.46	4.44	5.44	6.43	7.40	8.40	9.40	10.40	11.42		12.62	6 / 4			
reaction time	0.119	interval		1.00	0.98	1.00	0.99	0.97	1.00	1.00	1.00	1.02	1.20	PB		2.98	2.96	3.02
wind	-0.1 m/s	velocity	5.28	8.50	8.67	8.50	8.59	8.76	8.50	8.50	8.50	8.33	8.38	7.92		8.56	8.61	8.44
Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	23-Jul-22	time	2.46	3.50	4.50	5.50	6.50	7.46	8.44	9.46	10.46	11.50		12.70	7 / 1			
reaction time	0.131	interval		1.04	1.00	1.00	1.00	0.96	0.98	1.02	1.00	1.04	1.20			3.04	2.94	3.06
wind	0.7 m/s	velocity	5.28	8.17	8.50	8.50	8.50	8.85	8.67	8.33	8.50	8.17	8.38	7.87		8.39	8.67	8.33
FINAL - 2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	30-Jun-22	time	2.50	3.53	4.53	5.56	6.56	7.56	8.56	9.62	10.65	11.70		12.91	8 / 7			
reaction time	0.132	interval		1.03	1.00	1.03	1.00	1.00	1.00	1.06	1.03	1.05	1.21			3.06	3.00	3.14
wind	-0.5 m/s	velocity	5.20	8.25	8.50	8.25	8.50	8.50	8.50	8.02	8.25	8.10	8.31	7.75		8.33	8.50	8.12
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	09-Jun-22	time	2.47	3.52	4.48	5.45	6.43	7.41	8.39	9.40	10.43	11.47		12.74	1 / 4			
reaction time	0.132	interval		1.05	0.96	0.97	0.98	0.98	0.98	1.01	1.03	1.04	1.27			2.98	2.94	3.08
wind	0.1 m/s	velocity	5.26	8.10	8.85	8.76	8.67	8.67	8.67	8.42	8.25	8.17	7.91	7.85		8.56	8.67	8.28
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)															<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>			
date	01-Aug-21	time	2.53	3.61	4.65	5.66	6.64	7.62	8.62	9.62	10.64	11.69		12.89	5 / 6			
reaction time	0.128	interval		1.08	1.04	1.01	0.98	0.98	1.00	1.00	1.02	1.05	1.20			3.13	2.96	3.07
wind	0.0 m/s	velocity	5.14	7.87	8.17	8.42	8.67	8.67	8.50	8.50	8.33	8.10	8.37	7.76		8.15	8.61	8.31
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)															<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>			
date	31-Jul-21	time	2.57	3.61	4.59	5.58	6.57	7.55	8.54	9.54	10.57	11.60		12.75	6 / 3			
reaction time	0.144	interval		1.04	0.98	0.99	0.99	0.98	0.99	1.00	1.03	1.03	1.15	PB		3.01	2.96	3.06
wind	0.4 m/s	velocity	5.06	8.17	8.67	8.59	8.59	8.67	8.59	8.50	8.25	8.25	8.74	7.84		8.47	8.61	8.33
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	2.54	3.58	4.62	5.64	6.64	7.68	8.68	9.70	10.76	11.80		13.03	7 / 6			
reaction time	0.151	interval		1.04	1.04	1.02	1.00	1.04	1.00	1.02	1.06	1.04	1.23			3.10	3.04	3.12
wind	-0.8 m/s	velocity	5.12	8.17	8.17	8.33	8.50	8.17	8.50	8.33	8.02	8.17	8.17	7.67		8.23	8.39	8.17
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	2.48	3.54	4.58	5.58	6.56							7.95	4 / 5			
reaction time	0.147	interval		1.06	1.04	1.00	0.98						1.39			3.10		
		velocity	5.24	8.02	8.17	8.50	8.67						9.35	7.55		8.23		

Škvarková, Stanislava (SVK) (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 - 2024 FBK Games (Hengelo, NED)*Omega Timing (2024) - continental tour gold race analysis*

date	07-Jul-24	time	2.49	3.63	4.68	5.70	6.76	7.82	8.91	9.98	11.06	12.16	13.49	9 / 7				
reaction time	0.150	interval		1.14	1.05	1.02	1.06	1.06	1.09	1.07	1.08	1.10	1.33		3.21	3.21	3.25	
wind	0.3 m/s	velocity	5.22	7.46	8.10	8.33	8.02	8.02	7.80	7.94	7.87	7.73	7.56	7.41	7.94	7.94	7.85	

Sloan, Emily (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 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)***CAA Hurdle Development (2020)*

date	14-Feb-20	time	2.67	3.70	4.76	5.77	6.82							8.18	4 / 1			
reaction time		interval		1.03	1.06	1.01	1.05						1.36	PB		3.10		
wind		velocity	4.87	8.25	8.02	8.42	8.10						9.56	7.33		8.23		

Smith, Jalaysiya (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	29-Jun-24	time	2.65	3.69	4.72	5.70	6.69	7.71	8.71	9.76	10.78	11.86	13.05	3 / 5				
reaction time		interval		1.04	1.03	0.98	0.99	1.02	1.00	1.05	1.02	1.08	1.19		3.05	3.01	3.15	
wind	1.0 m/s	velocity	4.91	8.17	8.25	8.67	8.59	8.33	8.50	8.10	8.33	7.87	8.45	7.66	8.36	8.47	8.10	

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

date	28-Jun-24	time	2.63	3.69	4.69	5.69	6.69	7.69	8.68	9.69	10.70	11.76	12.93	5 / 5				
reaction time		interval		1.06	1.00	1.00	1.00	1.00	0.99	1.01	1.01	1.06	1.17		3.06	2.99	3.08	
wind	0.2 m/s	velocity	4.94	8.02	8.50	8.50	8.50	8.50	8.59	8.42	8.42	8.02	8.59	7.73	8.33	8.53	8.28	

FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	08-Jun-24	time	2.60	3.64	4.65	5.67	6.65	7.66	8.68	9.69	10.73	11.81	12.96	7 / 8				
reaction time		interval		1.04	1.01	1.02	0.98	1.01	1.02	1.01	1.04	1.08	1.15		3.07	3.01	3.13	
wind	-0.5 m/s	velocity	5.00	8.17	8.42	8.33	8.67	8.42	8.33	8.42	8.17	7.87	8.74	7.72	8.31	8.47	8.15	

Snihur, Yevheniya (UKR) (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 European Cup (Munich, GER)***Graubner (2007) - <http://www.fgs.uni-halle.de>*

date	24-Jun-07	time	2.60	3.64	4.66	5.66	6.66	7.67	8.68	9.69	10.72	11.77	12.92	1 / 1				
reaction time	0.129	interval		1.04	1.02	1.00	1.00	1.01	1.01	1.01	1.03	1.05	1.15		3.06	3.02	3.09	
wind	0.9 m/s	velocity	5.00	8.17	8.33	8.50	8.50	8.42	8.42	8.42	8.25	8.10	9.13	7.74	8.33	8.44	8.25	

Södergren, Maria (SWE) (1998)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)***Omega Timing (2023) - diamond league race analysis*

date	02-Jul-23	time	2.67	3.82	4.95	6.06	7.14	8.25	9.36	10.52	11.69	12.87	14.35	8 / 8				
reaction time	0.140	interval		1.15	1.13	1.11	1.08	1.11	1.11	1.16	1.17	1.18	1.48		3.39	3.30	3.51	
wind	0.6 m/s	velocity	4.87	7.39	7.52	7.66	7.87	7.66	7.66	7.33	7.26	7.20	6.79	6.97	7.52	7.73	7.26	

Soma, Eriko (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 Michitaka Kinami Memorial (Osaka, JPN)***Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	24-Oct-20	time	2.71	3.80	4.86	5.95	7.02	8.09	9.18	10.27	11.37	12.50	13.74	3 / 8				
reaction time		interval		1.09	1.06	1.09	1.07	1.07	1.09	1.09	1.10	1.13	1.24		3.24	3.23	3.32	
wind	-1.4 m/s	velocity	4.80	7.80	8.02	7.80	7.94	7.94	7.80	7.80	7.73	7.52	8.10	7.28	7.87	7.89	7.68	

Race 2 - 2020 World Athletics Trials (Fuji, JPN)*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	06-Sep-20	time	2.74	3.84	4.91	5.96	7.00	8.05	9.13	10.23	11.34	12.47	13.70	1 / 4				
reaction time		interval		1.10	1.07	1.05	1.04	1.05	1.08	1.10	1.11	1.13	1.23		3.22	3.17	3.34	
wind	1.3 m/s	velocity	4.74	7.73	7.94	8.10	8.17	8.10	7.87	7.73	7.66	7.52	8.17	7.30	7.92	8.04	7.63	

FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)*Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	20-May-18	time	2.67	3.76	4.83	5.92	7.00	8.08	9.18	10.29	11.40	12.52	13.76	9 / 8				
reaction time	0.141	interval		1.09	1.07	1.09	1.08	1.08	1.10	1.11	1.11	1.12	1.24		3.25	3.26	3.34	
wind	-0.6 m/s	velocity	4.87	7.80	7.94	7.80	7.87	7.87	7.73	7.66	7.66	7.59	8.47	7.27	7.85	7.82	7.63	

FINAL - 2017 Japanese National Championships (Osaka, JPN)*(2017) - tfd-data-store.com/2017/07/19/post-1068/*

date	25-Jun-17	time	2.69	3.78	4.85	5.91	6.94	7.98	9.03	10.10	11.18	12.28	13.44	6 / 3				
reaction time	0.137	interval		1.09	1.07	1.06	1.03	1.04	1.05	1.07	1.08	1.10	1.16		3.22	3.12	3.25	
wind	0.4 m/s	velocity	4.83	7.80	7.94	8.02	8.25	8.17	8.10	7.94	7.87	7.73	9.05	7.44	7.92	8.17	7.85	

FINAL - 2017 Fuse Sprint (Tottori, JPN)*(2017) - tfd-data-store.com/2017/06/04/post-848/*

date	04-Jun-17	time	2.62	3.68	4.72	5.72	6.75	7.83	8.98	10.12	11.25	12.34	13.52	5 / 4				
reaction time		interval		1.06	1.04	1.00	1.03	1.08	1.15	1.14	1.13	1.09	1.18		3.10	3.26	3.36	
wind	3.7 m/s	velocity	4.96	8.02	8.17	8.50	8.25	7.87	7.39	7.46	7.52	7.80	8.90	7.40	8.23	7.82	7.59	

Heat 3 - 2017 Fuse Sprint (Tottori, JPN)*(2017) - tfd-data-store.com/2017/06/04/post-848/*

date	04-Jun-17	time	2.66	3.74	4.78	5.81	6.84	7.88	8.96	10.02	11.08	12.17	13.34	5 / 2				
reaction time		interval		1.08	1.04	1.03	1.03	1.04	1.08	1.06	1.06	1.09	1.17		3.15	3.15	3.21	
wind	1.3 m/s	velocity	4.89	7.87	8.17	8.25	8.25	8.17	7.87	8.02	8.02	7.80	8.97	7.50	8.10	8.10	7.94	

FINAL - 2017 Mito Invitational (Mito, JPN)*(2017) - tfd-data-store.com/2017/05/06/post-423/*

date	05-May-17	time	2.67	3.76	4.83	5.88	6.94	7.99	9.07	10.13	11.21	12.30	13.47	6 / 1				
reaction time		interval		1.09	1.07	1.05	1.06	1.05	1.08	1.06	1.08	1.09	1.17		3.21	3.19	3.23	

wind	1.0 m/s	velocity	4.87	7.80	7.94	8.10	8.02	8.10	7.87	8.02	7.87	7.80	8.97	7.42		7.94	7.99	7.89	
Heat 1 - 2017 Mito Invitational (Mito, JPN)															<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>				
date	05-May-17	time	2.66	3.76	4.83	5.89	6.96	8.03	9.12	10.21	11.31	12.43		13.65		5 / 1			
reaction time		interval		1.10	1.07	1.06	1.07	1.07	1.09	1.09	1.10	1.12	1.22				3.23	3.23	3.31
wind	-2.7 m/s	velocity	4.89	7.73	7.94	8.02	7.94	7.94	7.80	7.73	7.59	8.61		7.33			7.89	7.89	7.70
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)															<i>(2017) - tfdata-store.com/2017/05/01/458/</i>				
date	29-Apr-17	time	2.70	3.79	4.87	5.94	7.02	8.08	9.15	10.22	11.28	12.36		13.52		8 / 5			
reaction time		interval		1.09	1.08	1.07	1.08	1.06	1.07	1.07	1.06	1.08	1.16				3.24	3.21	3.21
wind	2.0 m/s	velocity	4.81	7.80	7.87	7.94	7.87	8.02	7.94	7.94	8.02	7.87	9.05	7.40			7.87	7.94	7.94
FINAL - 2016 National Sports Festival (Kitakami, JPN)															<i>(2016.11.14) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	10-Oct-16	time	2.68	3.76	4.80	5.86	6.91	7.97	9.05	10.14	11.27	12.40		13.61		8 / 4			
reaction time	0.155	interval		1.08	1.04	1.06	1.05	1.06	1.08	1.09	1.13	1.13	1.21				3.18	3.19	3.35
wind	2.8 m/s	velocity	4.85	7.87	8.17	8.02	8.10	8.02	7.87	7.80	7.52	7.52	8.68	7.35			8.02	7.99	7.61
FINAL - 2016 Japanese National Corporate Championships (Osaka, JPN)															<i>(2016.09.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	25-Sep-16	time	2.67	3.74	4.79	5.82	6.85	7.89	8.94	9.98	11.05	12.15		13.32		6 / 2			
reaction time	0.141	interval		1.07	1.05	1.03	1.03	1.04	1.05	1.04	1.07	1.10	1.17				3.15	3.12	3.21
wind	1.0 m/s	velocity	4.87	7.94	8.10	8.25	8.25	8.17	8.10	8.17	7.94	7.73	8.97	7.51			8.10	8.17	7.94
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	2.66	3.74	4.80	5.86	6.93	7.98	9.03	10.11	11.18	12.27		13.43		6 / 5			
reaction time	0.134	interval		1.08	1.06	1.06	1.07	1.05	1.05	1.08	1.07	1.09	1.16				3.20	3.17	3.24
wind	2.1 m/s	velocity	4.89	7.87	8.02	8.02	7.94	8.10	8.10	7.87	7.94	7.80	9.05	7.45			7.97	8.04	7.87
Sotáková, Jana (CZE) (1992)			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)															<i>Feher (2014) - Final report from the Czech Republic national championships</i>				
date	02-Aug-14	time	2.74	3.84	4.94	6.00	7.08	8.16	9.27	10.37	11.50	12.63		13.89		2 / 7			
reaction time	0.150	interval		1.10	1.10	1.06	1.08	1.08	1.11	1.10	1.13	1.13	1.26				3.26	3.27	3.36
wind	0.4 m/s	velocity	4.74	7.73	7.73	8.02	7.87	7.87	7.66	7.73	7.52	7.52	8.33	7.20			7.82	7.80	7.59
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)															<i>Feher (2014) - Final report from the Czech Republic national championships</i>				
date	02-Aug-14	time	2.72	3.84	4.91	5.99	7.05	8.13	9.20	10.30	11.41	12.55		13.84		5 / 4			
reaction time	0.143	interval		1.12	1.07	1.08	1.06	1.08	1.07	1.10	1.11	1.14	1.29				3.27	3.21	3.35
wind	0.2 m/s	velocity	4.78	7.59	7.94	7.87	8.02	7.87	7.94	7.73	7.66	7.46	8.14	7.23			7.80	7.94	7.61
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	2.74	3.84	4.91	5.95	6.98	8.02	9.05	10.11	11.20	12.29		13.49		5 / 2			
reaction time	0.165	interval		1.10	1.07	1.04	1.03	1.04	1.03	1.06	1.09	1.09	1.20	PB			3.21	3.10	3.24
wind	0.3 m/s	velocity	4.74	7.73	7.94	8.17	8.25	8.17	8.25	8.02	7.80	7.80	8.75	7.41			7.94	8.23	7.87
Heat 2 - 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	2.70	3.80	4.87	5.93	6.99	8.03	9.11	10.19	11.27	12.38		13.62		4 / 1			
reaction time	0.133	interval		1.10	1.07	1.06	1.06	1.04	1.08	1.08	1.08	1.11	1.24				3.23	3.18	3.27
wind	-0.9 m/s	velocity	4.81	7.73	7.94	8.02	8.02	8.17	7.87	7.87	7.87	7.66	8.47	7.34			7.89	8.02	7.80
FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)															<i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>				
date	25-Feb-12	time	2.78	3.93	5.07	6.22	7.35							8.86		7 / 5			
reaction time	0.136	interval		1.15	1.14	1.15	1.13										3.44		
		velocity	4.68	7.39	7.46	7.39	7.52							8.61	6.77		7.41		
Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)															<i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>				
date	25-Feb-12	time	2.79	3.93	5.06	6.16	7.28							8.83		5 / 3			
reaction time	0.162	interval		1.14	1.13	1.10	1.12										3.37		
		velocity	4.66	7.46	7.52	7.73	7.59							8.39	6.80		7.57		
Sprenger, Juliane (GER) (1977)			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	2.66	3.72	4.76	5.80	6.83	7.88	8.93					13.39		/ 8			
reaction time	0.166	interval		1.06	1.04	1.04	1.03	1.05	1.05								3.14	3.13	
wind	-0.2 m/s	velocity	4.89	8.02	8.17	8.17	8.25	8.10	8.10					7.47			8.12	8.15	
Štáhlková, Zuzana (CZE) (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 Czech Republic National Indoor Championships (Praha, CZE)															<i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>				
date	25-Feb-12	time	2.73	3.83	4.99	6.06	7.20							8.75		2 / 4			
reaction time	0.138	interval		1.10	1.16	1.07	1.14										3.33		
		velocity	4.76	7.73	7.33	7.94	7.46							8.39	6.86		7.66		
Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)															<i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>				
date	25-Feb-12	time	2.76	3.90	5.03	6.18	7.32							8.88		6 / 4			
reaction time	0.135	interval		1.14	1.13	1.15	1.14										3.42		

velocity 4.71 7.46 7.52 7.39 7.46 8.33 6.76 7.46

Stamejčić, Draga (YUG) (1937)		H1	H2	H3	H4	H5	H6	H7	H8	Run-In Official Time Lane / Place			H1-H4	H4-H7	H7-H10	
FINAL - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles) <i>Breitschaft (1965) - die leichtathletik wettkämpfe der 1964 olympischen sommerspielen - 80m hürdenlauf</i>																
date	19-Oct-64	time	4.3			7.3		3.00			10.8		5 / 7			
reaction time		interval						3.50			(10.86)		3.33 3.20 3.33			
wind	2.3 m/s	velocity	6.51			8.00		6.86			9.26					

Stång, Sonja (FIN) (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 Motonet GP (Jyräskylä, FIN) (TV Analysis) <i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																		
date	08-Jul-20	time	2.70	3.83	4.93	6.03	7.10	8.16	9.23	10.33	11.43	12.56	13.82		2 / 5			
reaction time		interval	1.13 1.10 1.10			1.07 1.06		1.07 1.10 1.10			1.13 1.26		PB		3.33 3.20 3.33			
wind	0.7 m/s	velocity	4.81	7.52	7.73	7.73	7.94	8.02	7.94	7.73	7.73	7.52	7.98	7.24	7.66 7.97 7.66			

Stanley-Boutte, Tananjaly (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 - 1996 USA Olympic Trials (Atlanta, GA) <i>USATF Women's Sprint Development (1996)</i>																		
date	23-Jun-96	time	2.40	3.44	4.48	5.50	6.50	7.51	8.51	9.53	10.54	11.56	12.97		8 / 6			
reaction time		interval	1.04 1.04 1.02			1.00 1.01		1.00 1.02 1.01			1.02 1.41				3.10 3.01 3.05			
wind	0.6 m/s	velocity	5.42	8.17	8.17	8.33	8.50	8.42	8.50	8.33	8.42	8.33	7.45	7.71	8.23 8.47 8.36			

Stark, Grace (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 Memorial van damme (Brussels, BEL) <i>Omega Timing (2024) - diamond league race analysis</i>																		
date	14-Sep-24	time	2.60	3.60	4.60	5.58	6.56	7.54	8.51	9.50	10.50	11.50	12.59		3 / 4			
reaction time	0.153	interval	1.00 1.00 0.98			0.98 0.98		0.98 0.97 0.99			1.00 1.00		1.09		2.98 2.93 2.99			
wind	0.4 m/s	velocity	5.00	8.50	8.50	8.67	8.67	8.67	8.76	8.59	8.50	8.50	9.22	7.94	8.56 8.70 8.53			

FINAL - 2024 Weltklasse (Zürich, SUI)		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 (2024) - diamond league race analysis</i>																		
date	05-Sep-24	time	2.44	3.48	4.48	5.45	6.42	7.37	8.33	9.31	10.28	11.27	12.47		5 / 3			
reaction time	0.149	interval	1.04 1.00 0.97			0.97 0.95		0.96 0.98 0.97			0.99 1.20				3.01 2.88 2.94			
wind	0.8 m/s	velocity	5.33	8.17	8.50	8.76	8.76	8.95	8.85	8.67	8.76	8.59	8.37	8.02	8.47 8.85 8.67			

FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)		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 (2024) - diamond league race analysis</i>																		
date	25-Aug-24	time	2.38	3.41	4.39	5.35	6.30	7.25	8.20	9.17	10.17	11.17	12.37		7 / 2			
reaction time	0.142	interval	1.03 0.98 0.96			0.95 0.95		0.95 0.97 1.00			1.00 1.20				2.97 2.85 2.97			
wind	-0.5 m/s	velocity	5.46	8.25	8.67	8.85	8.95	8.95	8.95	8.76	8.50	8.50	8.38	8.08	8.59 8.95 8.59			

Heat A - 2024 Kamila Skolimowska Memorial (Silesia, POL)		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 (2024) - diamond league race analysis</i>																		
date	25-Aug-24	time				5.34	6.29	7.26	8.22	9.22	10.19	11.19	12.42		6 / 2			
reaction time	0.137	interval				0.95 0.97		0.96 1.00 0.97			1.00 1.23				2.88 2.97			
wind	-0.3 m/s	velocity				7.21	8.95	8.76	8.85	8.50	8.76	8.50	8.17	8.05	8.85 8.59			

FINAL - 2024 Athletissima (Lausanne, SUI)		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 (2024) - diamond league race analysis</i>																		
date	22-Aug-24	time	2.40	3.42	4.41	5.37	6.31	7.26	8.22	9.18	10.16	11.17	12.38		7 / 2			
reaction time	0.145	interval	1.02 0.99 0.96			0.94 0.95		0.96 0.96 0.98			1.01 1.21				2.97 2.85 2.95			
wind	-0.9 m/s	velocity	5.42	8.33	8.59	8.85	9.04	8.95	8.85	8.85	8.67	8.42	8.31	8.08	8.59 8.95 8.64			

FINAL - 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	
<i>Paris 2024 Olympic Games - Results Book (2024)</i>																		
date	10-Aug-24	time	2.41	3.44	4.42	5.40	6.36	7.31	8.28	9.25	10.22	11.20	12.43		4 / 5			
reaction time	0.161	interval	1.03 0.98 0.98			0.96 0.95		0.97 0.97 0.97			0.97 0.98		1.23		2.99 2.88 2.92			
wind	-0.3 m/s	velocity	5.39	8.25	8.67	8.67	8.85	8.95	8.76	8.76	8.76	8.67	8.17	8.05	8.53 8.85 8.73			

Semi-Final 1 - 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	
<i>Paris 2024 Olympic Games - Results Book (2024)</i>																		
date	09-Aug-24	time	2.38	3.40	4.38	5.33	6.28	7.22	8.19	9.16	10.15	11.15	12.39		4 / 1			
reaction time	0.148	interval	1.02 0.98 0.95			0.95 0.94		0.97 0.97 0.99			1.00 1.24				2.95 2.86 2.96			
wind	0.5 m/s	velocity	5.46	8.33	8.67	8.95	8.95	9.04	8.76	8.76	8.59	8.50	8.10	8.07	8.64 8.92 8.61			

Heat 5 - 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	
<i>Paris 2024 Olympic Games - Results Book (2024)</i>																		
date	07-Aug-24	time	2.43	3.46	4.45	5.45	6.48	7.48	8.48	9.48	10.48	11.49	12.72		9 / 3			
reaction time	0.172	interval	1.03 0.99 1.00			1.03 1.00		1.00 1.00 1.00			1.01 1.23				3.02 3.03 3.01			
wind	-0.6 m/s	velocity	5.35	8.25	8.59	8.50	8.25	8.50	8.50	8.50	8.50	8.42	8.17	7.86	8.44 8.42 8.47			

FINAL - 2024 USA Olympic Trials (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: 2024 year end hurdle report</i>																		
date	30-Jun-24	time	2.52	3.54	4.53	5.46	6.42	7.37	8.33	9.27	10.25	11.25	12.31		8 / 3			
reaction time		interval	1.02 0.99 0.93			0.96 0.95		0.96 0.94 0.98			1.00 1.06		PB		2.94 2.87 2.92			
wind	0.7 m/s	velocity	5.16	8.33	8.59	9.14	8.85	8.95	8.85	9.04	8.67	8.50	9.48	8.12	8.67 8.89 8.73			

Heat 4 - 2024 USA Olympic Trials (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: 2024 year end hurdle report</i>																		
date	28-Jun-24	time	2.55	3.55	4.52	5.49	6.49	7.48	8.46	9.45	10.44	11.43	12.52		8 / 2			
reaction time		interval	1.00 0.97 0.97			1.00 0.99		0.98 0.99 0.99			1.09				2.94 2.97 2.97			
wind	0.2 m/s	velocity	5.10	8.50	8.76	8.76	8.50	8.59	8.67	8.59	8.59	8.59	9.22	7.99	8.67 8.59 8.59			

FINAL - 2024 NCAA 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: 2024 year end hurdle report</i>																		
date	08-Jun-24	time	2.53	3.57	4.54	5.51	6.47	7.44	8.41	9.38	10.37	11.36	12.47		8 / 1			

reaction time	interval	1.04	0.97	0.97	0.96	0.97	0.97	0.97	0.97	0.99	0.99	1.11	PB	2.98	2.90	2.95
wind	-0.5 m/s velocity	5.14	8.17	8.76	8.76	8.85	8.76	8.76	8.76	8.59	8.59	9.05	8.02	8.56	8.79	8.64

FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	08-Jul-23	time	2.57	3.59	4.58	5.57	6.56	7.54	8.53	9.52	10.53	11.56	12.70	8 / 8			
reaction time	interval	1.02	0.99	0.99	0.99	0.98	0.99	0.99	0.99	1.01	1.03	1.14		3.00	2.96	3.03	
wind	0.4 m/s velocity	5.06	8.33	8.59	8.59	8.59	8.67	8.59	8.59	8.42	8.25	8.82	7.87	8.50	8.61	8.42	

FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	10-Jun-23	time	2.50	3.52	4.54	5.50	6.52	7.52	8.50	9.49	10.51	11.53	12.72	2 / 5			
reaction time	interval	1.02	1.02	0.96	1.02	1.00	0.98	0.99	0.99	1.02	1.02	1.19		3.00	3.00	3.03	
wind	3.8 m/s velocity	5.20	8.33	8.33	8.85	8.33	8.50	8.67	8.59	8.33	8.33	8.45	7.86	8.50	8.50	8.42	

Semi Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	20-Jun-21	time	2.50	3.50	4.50	5.50	6.47	7.47	8.50	9.50	10.50	11.58	12.79	3 / 8			
reaction time	0.193 interval	1.00	1.00	1.00	0.97	1.00	1.03	1.00	1.00	1.00	1.08	1.21		3.00	3.00	3.08	
wind	1.3 m/s velocity	5.20	8.50	8.50	8.50	8.76	8.50	8.25	8.50	8.50	7.87	8.31	7.82	8.50	8.50	8.28	

FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	12-Jun-21	time	2.57	3.60	4.60	5.60	6.61	7.59	8.57	9.57	10.60	11.63	12.89	6 / 4			
reaction time	0.207 interval	1.03	1.00	1.00	1.01	0.98	0.98	1.00	1.03	1.03	1.26			3.03	2.97	3.06	
wind	0.4 m/s velocity	5.06	8.25	8.50	8.50	8.42	8.67	8.67	8.50	8.25	8.25	7.98	7.76	8.42	8.59	8.33	

Steenkamp, Rikenette (RSA) (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) (TV Analysis)***Henson (2020) - Athlete First: 2019 year end hurdle report*

date	06-Oct-19	time	2.42	3.46	4.48	5.48	6.48	7.48	8.50	9.52	10.56	11.62	12.96	3 / 7			
reaction time	0.145 interval	1.04	1.02	1.00	1.00	1.00	1.02	1.02	1.02	1.04	1.06	1.34		3.06	3.02	3.12	
wind	0.8 m/s velocity	5.37	8.17	8.33	8.50	8.50	8.50	8.33	8.33	8.17	8.02	7.50	7.72	8.33	8.44	8.17	

Stewart, Talia (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 - 2005 USATF National Junior Championships (Carson, CA)***USATF Women's Sprint Development (2005)*

date	23-Jun-05	time	2.72	3.87	4.96	6.04	7.11	8.22	9.31	10.41	11.53	12.66	13.89	5 / 2			
reaction time	interval	1.15	1.09	1.08	1.07	1.11	1.09	1.10	1.12	1.13	1.23			3.32	3.27	3.35	
wind	-0.7 m/s velocity	4.78	7.39	7.80	7.87	7.94	7.66	7.80	7.73	7.59	7.52	8.54	7.20	7.68	7.80	7.61	

FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)*USATF Women's Sprint Development (2003)*

date	22-Jun-03	time	2.61	3.75	4.86	5.94	7.02	8.14	9.24	10.36	11.46	12.58	13.92	3 / 5			
reaction time	interval	1.14	1.11	1.08	1.08	1.12	1.10	1.12	1.10	1.12	1.34			3.33	3.30	3.34	
wind	2.3 m/s velocity	4.98	7.46	7.66	7.87	7.87	7.59	7.73	7.59	7.73	7.59	7.84	7.18	7.66	7.73	7.63	

Stowers, Jasmin (USA) (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 - 2020 New Balance Indoor Grand Prix (Boston, MA)***PrimeTime Timing (2020) - <https://results.nbindoorgrandprix.com/>*

date	25-Jan-20	time	2.68											dnf	7 / --		
reaction time	interval	4.85															
	velocity																

FINAL - 2018 Bislett Games (Oslo, NOR) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	07-Jun-18	time	2.52	3.56	4.58	5.58	6.60	7.62	8.64	9.66	10.68	11.78	12.99	6 / 8			
reaction time	0.157 interval	1.04	1.02	1.00	1.02	1.02	1.02	1.02	1.02	1.02	1.10	1.21		3.06	3.06	3.14	
wind	1.1 m/s velocity	5.16	8.17	8.33	8.50	8.33	8.33	8.33	8.33	8.33	7.73	8.68	7.70	8.33	8.33	8.12	

FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	12-May-18	time	2.50	3.52	4.52	5.50	6.48	7.46	8.46	9.46	10.46	11.50	12.71	7 / 4			
reaction time	0.150 interval	1.02	1.00	0.98	0.98	0.98	1.00	1.00	1.00	1.00	1.04	1.21		3.00	2.96	3.04	
wind	0.9 m/s velocity	5.20	8.33	8.48	8.69	8.67	8.67	8.50	8.50	8.50	8.17	8.68	7.87	8.50	8.61	8.39	

FINAL - 2018 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	04-May-18	time	2.52	3.54	4.54	5.52	6.50	7.50	8.50	9.50	10.52	11.54	12.77	2 / 4			
reaction time	0.137 interval	1.02	1.00	0.98	0.98	1.00	1.00	1.00	1.00	1.02	1.02	1.23		3.00	2.98	3.04	
wind	0.5 m/s velocity	5.16	8.33	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.33	8.54	7.83	8.50	8.56	8.39	

FINAL - 2017 Weltklasse (Zürich, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	24-Aug-17	time	2.58	3.58	4.62	5.62	6.62	7.62	8.64	9.70	10.70	11.78	12.95	3 / 7			
reaction time	0.135 interval	1.00	1.04	1.00	1.00	1.00	1.02	1.06	1.00	1.00	1.08	1.17		3.04	3.02	3.14	
wind	-0.3 m/s velocity	5.04	8.50	8.17	8.50	8.50	8.50	8.33	8.02	8.50	7.87	8.97	7.72	8.39	8.44	8.12	

FINAL - 2017 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	21-Jul-17	time	2.56	3.58	4.56	5.56	6.54	7.52	8.52	9.54	10.54	11.58	12.75	3 / 6			
reaction time	0.134 interval	1.02	0.98	1.00	0.98	0.98	1.00	1.02	1.00	1.02	1.04	1.17		3.00	2.96	3.06	
wind	-0.2 m/s velocity	5.08	8.33	8.67	8.50	8.67	8.67	8.50	8.33	8.50	8.17	8.97	7.84	8.50	8.61	8.33	

FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	09-Jul-17	time	2.50	3.50	4.48	5.44	6.40	7.36	8.34	9.30	10.30		dnf	6 / --			
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reaction time	0.124	interval	1.00	0.98	0.96	0.96	0.96	0.98	0.96	1.00							2.94	2.90	
wind	0.2 m/s	velocity	5.20	8.50	8.67	8.85	8.85	8.85	8.67	8.85	8.50						8.67	8.79	
FINAL - 2017 Athletissima (Lausanne, SUI) (TV Analysis)																			
date	06-Jul-17	time	2.46	3.46	4.44	5.43	6.40	7.35	8.33	9.32	10.32	11.33				12.57	5 / 2		
reaction time	0.119	interval	1.00	0.98	0.99	0.97	0.95	0.98	0.99	1.00	1.01	1.24					2.97	2.90	3.00
wind	-0.1 m/s	velocity	5.28	8.50	8.67	8.59	8.76	8.95	8.67	8.59	8.50	8.42	8.47	7.96			8.59	8.79	8.50
FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)																			
date	04-Jul-17	time	2.50	3.50	4.50	5.46	6.42	7.40	8.38	9.38	10.40	11.42				12.66	6 / 2		
reaction time	0.148	interval	1.00	1.00	0.96	0.96	0.98	0.98	1.00	1.02	1.02	1.24					2.96	2.92	3.04
wind	0.1 m/s	velocity	5.20	8.50	8.50	8.85	8.85	8.67	8.67	8.50	8.33	8.33	8.47	7.90			8.61	8.73	8.39
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)																			
date	27-May-17	time	2.50	3.50	4.48	5.46	6.42	7.40	8.40	9.40	10.40	11.40				12.59	2 / 1		
reaction time	0.154	interval	1.00	0.98	0.98	0.96	0.98	1.00	1.00	1.00	1.00	1.19					2.96	2.94	3.00
wind	0.8 m/s	velocity	5.20	8.50	8.67	8.67	8.85	8.67	8.50	8.50	8.50	8.50	8.82	7.94			8.61	8.67	8.50
FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)																			
date	29-Apr-17	time	2.56	3.58	4.56	5.56	6.53	7.53	8.53	9.53	10.53	11.53				12.76	2 / 2		
reaction time		interval		1.02	0.98	1.00	0.97	1.00	1.00	1.00	1.00	1.00	1.23				3.00	2.97	3.00
wind	1.0 m/s	velocity	5.08	8.33	8.67	8.50	8.76	8.50	8.50	8.50	8.50	8.50	8.54	7.84			8.50	8.59	8.50
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)																			
date	09-Sep-16	time	2.56	3.58	4.56	5.56	6.54	7.52	8.50	9.50	10.52	11.54				12.78	6 / 1		
reaction time	0.186	interval		1.02	0.98	1.00	0.98	0.98	0.98	1.00	1.02	1.02	1.24				3.00	2.94	3.04
wind	0.1 m/s	velocity	5.08	8.33	8.67	8.50	8.67	8.67	8.67	8.50	8.33	8.33	8.47	7.82			8.50	8.67	8.39
FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)																			
date	01-Sep-16	time	2.48	3.52	4.50	5.50	6.50	7.50	8.48	9.50	10.52	11.56				12.78	3 / 4		
reaction time	0.120	interval		1.04	0.98	1.00	1.00	1.00	0.98	1.02	1.02	1.04	1.22				3.02	2.98	3.08
wind	0.4 m/s	velocity	5.24	8.17	8.67	8.50	8.50	8.50	8.67	8.33	8.33	8.17	8.61	7.82			8.44	8.56	8.28
FINAL - 2016 Meeting Paris (Saint-Denis, FRA) (TV Analysis)																			
date	27-Aug-16	time	2.54	3.58	4.58	5.56	6.54	7.52	8.52	9.52	10.54	11.58				12.76	6 / 4		
reaction time	0.140	interval		1.04	1.00	0.98	0.98	0.98	1.00	1.00	1.02	1.04	1.18				3.02	2.96	3.06
wind	0.2 m/s	velocity	5.12	8.17	8.50	8.67	8.67	8.67	8.50	8.50	8.33	8.17	8.90	7.84			8.44	8.61	8.33
FINAL - 2016 Athletissima (Luasanne, SUI) (TV Analysis)																			
date	25-Aug-16	time	2.56	3.58	4.58	5.56	6.54	7.54	8.54	9.54	10.56	11.58				12.75	6 / 3		
reaction time	0.135	interval		1.02	1.00	0.98	0.98	1.00	1.00	1.00	1.02	1.02	1.17				3.00	2.98	3.04
wind	0.7 m/s	velocity	5.08	8.33	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.33	8.97	7.84			8.50	8.56	8.39
FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)																			
date	22-Jul-16	time	2.52	3.52	4.50	5.50											dnf	4 / --	
reaction time	0.132	interval		1.00	0.98	1.00												2.98	
wind	0.3 m/s	velocity	5.16	8.50	8.67	8.50												8.56	
Heat 2 - 2016 London Anniversary Games (London, GBR) (TV Analysis)																			
date	22-Jul-16	time	2.56	3.56	4.56	5.54	6.52	7.48	8.44	9.44	10.40	11.44				12.58	7 / 2		
reaction time	0.143	interval		1.00	1.00	0.98	0.98	0.96	0.96	1.00	0.96	1.04	1.14				2.98	2.90	3.00
wind	0.2 m/s	velocity	5.08	8.50	8.50	8.67	8.67	8.85	8.85	8.50	8.85	8.17	9.21	7.95			8.56	8.79	8.50
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)																			
date	08-Jul-16	time	2.53	3.53	4.50	5.48	6.44	7.40	8.37	9.34	10.34	11.31				17.13	7 / 8		
reaction time	0.190	interval		1.00	0.97	0.98	0.96	0.96	0.97	0.97	1.00	0.97	5.82				2.95	2.89	2.94
wind	1.2 m/s	velocity	5.14	8.50	8.76	8.67	8.85	8.85	8.76	8.76	8.50	8.76	1.80	5.84			8.64	8.82	8.67
FINAL - 2016 Bislett Games (Oslo, NOR) (TV Analysis)																			
date	09-Jun-16	time	2.60	3.64	4.62	5.60	6.58	7.54	8.56	9.56	10.58	11.60				12.79	6 / 3		
reaction time	0.188	interval		1.04	0.98	0.98	0.98	0.96	1.02	1.00	1.02	1.02	1.19				3.00	2.96	3.04
wind	-0.4 m/s	velocity	5.00	8.17	8.67	8.67	8.67	8.85	8.33	8.50	8.33	8.33	8.82	7.82			8.50	8.61	8.39
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)																			
date	28-May-16	time	2.54	3.54	4.50	5.46	6.42	7.38	8.34	9.34	10.32	11.32				12.55	7 / 3		
reaction time		interval		1.00	0.96	0.96	0.96	0.96	0.96	1.00	0.98	1.00	1.23				2.92	2.88	2.98
wind	0.7 m/s	velocity	5.12	8.50	8.85	8.85	8.85	8.85	8.85	8.50	8.67	8.50	8.54	7.97			8.73	8.85	8.56
Su Yiping (CHN) (1979)																			
			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 (Beijing, CHN)																			
date	18-Nov-01	time	2.62	3.66	4.65	5.63	6.59	7.57	8.55	9.54	10.56	11.59				12.70	1 / 1		
reaction time		interval		1.04	0.99	0.98	0.96	0.98	0.98	0.99	1.02	1.03	1.11				3.01	2.92	3.04
wind	2.2 m/s	velocity	4.96	8.17	8.59	8.67	8.85	8.67	8.67	8.59	8.33	8.25	9.46	7.87			8.47	8.73	8.39

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Suchelová, Nikola (CZE) (1991)																		
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)													<i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>					
date	25-Feb-12	time	2.98	4.18	5.40	6.64	7.87						9.47	7 / 5				
reaction time	0.258	interval	1.20	1.22	1.24	1.23						1.60			3.66			
		velocity	4.36	7.08	6.97	6.85	6.91					8.13	6.34		6.97			
Sulek-Schubert, Adrianna (POL) (1999)																		
Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	08-Aug-24	time	2.56	3.66	4.73	5.78	6.82	7.86	8.91	9.95	10.99	12.05		13.32	4 / 1			
reaction time	0.153	interval	1.10	1.07	1.05	1.04	1.04	1.05	1.04	1.04	1.06	1.27			3.22	3.13	3.14	
wind	0.1 m/s	velocity	5.08	7.73	7.94	8.10	8.17	8.17	8.10	8.17	8.17	8.02	7.91	7.51	7.92	8.15	8.12	
Sufek, Adrianna (POL) (1999)																		
Heptathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>					
date	17-Jul-22	time	2.68	3.75	4.80	5.82	6.87	7.91	8.95	10.00	11.04	12.13		13.28	2 / 5			
reaction time	0.141	interval	1.07	1.05	1.02	1.05	1.04	1.04	1.05	1.04	1.09	1.15			3.14	3.13	3.18	
wind	0.7 m/s	velocity	4.85	7.94	8.10	8.33	8.10	8.17	8.17	8.10	8.17	7.80	8.74	7.53	8.12	8.15	8.02	
Heptathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	04-Aug-21	time	2.79	3.86	4.92	6.00	7.06	8.07	9.14	10.22	11.27	12.35		13.58	3 / 6			
reaction time	0.182	interval	1.07	1.06	1.08	1.06	1.01	1.07	1.08	1.05	1.08	1.23			3.21	3.14	3.21	
wind	0.3 m/s	velocity	4.66	7.94	8.02	7.87	8.02	8.42	7.94	7.87	8.10	7.87	8.17	7.36	7.94	8.12	7.94	
Sun Jingyuan (CHN) (2002)																		
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (76cm)													<i>CAA Hurdle Development (2019)</i>					
date	14-Aug-19	time	2.94	4.12	5.24	6.39	7.56	8.71	9.88	11.06	12.25	13.48		14.83	2 / 8			
reaction time	0.224	interval	1.18	1.12	1.15	1.17	1.15	1.17	1.18	1.19	1.23	1.35			3.45	3.49	3.60	
wind	0.0 m/s	velocity	4.42	7.20	7.59	7.39	7.26	7.39	7.26	7.20	7.14	6.91	7.78	6.74	7.39	7.31	7.08	
Sun Lan (CHN) (2002)																		
Heptathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	24-Jun-21	time	2.93	4.14	5.35	6.59	7.80	9.06	10.29	11.60	12.91	14.25		15.70	7 / 6			
reaction time	0.203	interval	1.21	1.21	1.24	1.21	1.26	1.23	1.31	1.31	1.34	1.45			3.66	3.70	3.96	
wind	0.6 m/s	velocity	4.44	7.02	7.02	6.85	7.02	6.75	6.91	6.49	6.49	6.34	6.93	6.37	6.97	6.89	6.44	
Heptathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)													<i>CAA Hurdle Development (2019)</i>					
date	23-Aug-19	time	2.88	4.09	5.27	6.46	7.66	8.83	10.03	11.25	12.48	13.70		15.09	4 / 4			
reaction time	0.199	interval	1.21	1.18	1.19	1.20	1.17	1.20	1.22	1.23	1.22	1.39			3.58	3.57	3.67	
wind	?? m/s	velocity	4.51	7.02	7.20	7.14	7.08	7.26	7.08	6.97	6.91	6.97	7.55	6.63	7.12	7.14	6.95	
Heptathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)													<i>CAA Hurdle Development (2019)</i>					
date	08-Jul-19	time	2.87	4.10	5.29	6.47	7.64	8.84	9.99	11.21	12.43	13.65		15.01	6 / 5			
reaction time	0.193	interval	1.23	1.19	1.18	1.17	1.20	1.15	1.22	1.22	1.22	1.36	PB		3.60	3.52	3.66	
wind	0.8 m/s	velocity	4.53	6.91	7.14	7.20	7.26	7.08	7.39	6.97	6.97	6.97	7.72	6.66	7.08	7.24	6.97	
Sun Minjing (CHN) (1988)																		
FINAL - 2017 Chinese National Games (Tianjin, CHN)													<i>Henson (2017) - coaching observations</i>					
date	04-Sep-17	time	2.75	3.83	4.92	5.98	7.03	8.09	9.13	10.23	11.34	12.49		13.78	9 / 8			
reaction time		interval	1.08	1.09	1.06	1.05	1.06	1.04	1.10	1.11	1.15	1.29			3.23	3.15	3.36	
wind	-0.2 m/s	velocity	4.73	7.87	7.80	8.02	8.10	8.02	8.17	7.73	7.66	7.39	8.14	7.26	7.89	8.10	7.59	
Sun Xue (CHN)																		
FINAL - 1993 Chinese National Games (Beijing, CHN)													<i>Bo (1996) - a study on female 100m hurdles running rhythm in the 7th national games</i>					
date	09-Sep-93	time	2.69	3.75	4.79	5.83	6.87	7.91	8.95	9.99	11.05	12.13		13.28	1 / 7			
reaction time		interval	1.06	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.06	1.08	1.15		3.14	3.12	3.18	
wind	0.1 m/s	velocity	4.83	8.02	8.17	8.17	8.17	8.17	8.17	8.17	8.02	7.87	9.13	7.53	8.12	8.17	8.02	
Štová, Eva (CZE) (1990)																		
Heat 2 - 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	2.87	4.05	5.26	6.46	7.66	8.91	10.17	11.45	12.74	14.12		15.47	2 / 5			
reaction time	0.168	interval	1.18	1.21	1.20	1.20	1.25	1.26	1.28	1.29	1.38	1.35			3.59	3.71	3.95	
wind	-0.9 m/s	velocity	4.53	7.20	7.02	7.08	7.08	6.80	6.75	6.64	6.59	6.16	7.78	6.46	7.10	6.87	6.46	
Suzuki, Miho (JPN) (1996)																		
FINAL - 2023 Japanese National Championships (Osaka, JPN)													<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>					
date	03-Jun-23	time	2.73	3.80	4.84	5.86	6.89	7.90	8.95	10.01	11.09	12.19		13.42	3 / 7			
reaction time	0.224	interval	1.07	1.04	1.02	1.03	1.01	1.05	1.06	1.08	1.10	1.23			3.13	3.09	3.24	
wind	-1.2 m/s	velocity	4.76	7.94	8.17	8.33	8.25	8.42	8.10	8.02	7.87	7.73	8.17	7.45	8.15	8.25	7.87	
FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)													<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>					
date	07-May-23	time	2.67	3.74	4.78	5.81	6.85	7.88	8.94	10.00	11.07	12.17		13.39	2 / 7			
reaction time	0.155	interval	1.07	1.04	1.03	1.04	1.03	1.06	1.06	1.07	1.10	1.22			3.14	3.13	3.23	
wind	0.7 m/s	velocity	4.87	7.94	8.17	8.25	8.17	8.25	8.02	8.02	7.94	7.73	8.24	7.47	8.12	8.15	7.89	

FINAL - 2022 Japanese National Championships (Osaka, JPN)

date	11-Jun-22	time	2.74	3.82	4.86	5.92	6.98	8.02	9.09	10.14	11.24	12.34	13.52	9 / 7			
reaction time	0.171	interval		1.08	1.04	1.06	1.06	1.04	1.07	1.05	1.10	1.10	1.18		3.18	3.17	3.25
wind	0.8 m/s	velocity	4.74	7.87	8.17	8.02	8.02	8.17	7.94	8.10	7.73	7.73	8.52	7.40	8.02	8.04	7.85

*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season***FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)**

date	08-May-22	time	2.72	3.80	4.85	5.90	6.93	7.98	9.04	10.11	11.19	12.29	13.48	1 / 8			
reaction time	0.168	interval		1.08	1.05	1.05	1.03	1.05	1.06	1.07	1.08	1.10	1.19		3.18	3.14	3.25
wind	-0.1 m/s	velocity	4.78	7.87	8.10	8.10	8.25	8.10	8.02	7.94	7.87	7.73	8.45	7.42	8.02	8.12	7.85

*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season***FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)**

date	01-May-22	time	2.70	3.74	4.77	5.80	6.82	7.85	8.89	9.96	11.03	12.12	13.33	3 / 3			
reaction time	0.183	interval		1.04	1.03	1.03	1.02	1.03	1.04	1.07	1.07	1.09	1.21		3.10	3.09	3.23
wind	-0.6 m/s	velocity	4.81	8.17	8.25	8.25	8.33	8.25	8.17	7.94	7.94	7.80	8.31	7.50	8.23	8.25	7.89

*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season***FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)**

date	29-Apr-22	time	2.76	3.87	4.93	6.02	7.09	8.17	9.26	10.35	11.44	12.54	13.72	2 / 7			
reaction time	0.266	interval		1.11	1.06	1.09	1.07	1.08	1.09	1.09	1.09	1.10	1.18		3.26	3.24	3.28
wind	-2.8 m/s	velocity	4.71	7.66	8.02	7.80	7.94	7.87	7.80	7.80	7.80	7.73	8.52	7.29	7.82	7.87	7.77

*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season***FINAL - 2021 Japanese National Championships (Osaka, JPN)**

date	27-Jun-21	time	2.70	3.79	4.83	5.87	6.90	7.92	8.98	10.03	11.10	12.18	13.35	4 / 3			
reaction time	0.170	interval		1.09	1.04	1.04	1.03	1.02	1.06	1.05	1.07	1.08	1.17		3.17	3.11	3.20
wind	0.0 m/s	velocity	4.81	7.80	8.17	8.17	8.25	8.33	8.02	8.10	7.94	7.87	8.59	7.49	8.04	8.20	7.97

*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season***FINAL - 2021 Fuse Sprint (Tottori, JPN)**

date	06-Jun-21	time	2.68	3.72	4.75	5.75	6.76	7.77	8.78	9.79	10.83	11.89	13.01	6 / 3			
reaction time	0.163	interval		1.04	1.03	1.00	1.01	1.01	1.01	1.01	1.04	1.06	1.12		3.07	3.03	3.11
wind	1.8 m/s	velocity	4.85	8.17	8.25	8.50	8.42	8.42	8.42	8.42	8.17	8.02	8.97	7.69	8.31	8.42	8.20

*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season***FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)**

date	01-Jun-21	time	2.70	3.76	4.79	5.82	6.82	7.84	8.87	9.91	10.97	12.02	13.15	7 / 2			
reaction time	0.199	interval		1.06	1.03	1.03	1.00	1.02	1.03	1.04	1.06	1.05	1.13		3.12	3.05	3.15
wind	0.3 m/s	velocity	4.81	8.02	8.25	8.25	8.50	8.33	8.25	8.17	8.02	8.10	8.89	7.60	8.17	8.36	8.10

*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season***FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)**

date	09-May-21	time	2.71	3.76	4.80	5.84	6.85	7.89	8.93	9.97	11.04	12.23	13.52	4 / 4			
reaction time	0.160	interval		1.05	1.04	1.04	1.01	1.04	1.04	1.04	1.07	1.19	1.29		3.13	3.09	3.30
wind	-0.8 m/s	velocity	4.80	8.10	8.17	8.17	8.42	8.17	8.17	8.17	7.94	7.14	7.79	7.40	8.15	8.25	7.73

*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season***FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)**

date	29-Apr-21	time	2.72	3.78	4.82	5.86	6.89	7.90	8.93	9.96	11.00	12.06	13.22	6 / 2			
reaction time		interval		1.06	1.04	1.04	1.03	1.01	1.03	1.03	1.04	1.06	1.16		3.14	3.07	3.13
wind	1.6 m/s	velocity	4.78	8.02	8.17	8.17	8.25	8.42	8.25	8.25	8.17	8.02	8.66	7.56	8.12	8.31	8.15

*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season***FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)**

date	24-Oct-20	time	2.60	3.68	4.75	5.80	6.85	7.90	8.95	10.03	11.13	12.25	13.66	4 / 6			
reaction time		interval		1.08	1.07	1.05	1.05	1.05	1.05	1.08	1.10	1.12	1.41		3.20	3.15	3.30
wind	-1.4 m/s	velocity	5.00	7.87	7.94	8.10	8.10	8.10	8.10	7.87	7.73	7.59	7.13	7.32	7.97	8.10	7.73

*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers***FINAL - 2020 Japanese National Championships (Niigata, JPN)**

date	03-Oct-20	time	2.69	3.78	4.83	5.89	6.92	7.96	9.04	10.11	11.17	12.28	13.49	9 / 5			
reaction time	0.153	interval		1.09	1.05	1.06	1.03	1.04	1.08	1.07	1.06	1.11	1.21		3.20	3.15	3.24
wind	-0.1 m/s	velocity	4.83	7.80	8.10	8.02	8.25	8.17	7.87	7.94	8.02	7.66	8.31	7.41	7.97	8.10	7.87

*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers***FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)**

date	20-Sep-20	time	2.72	3.76	4.80	5.82	6.84	7.86	8.90	9.94	11.02	12.10	13.30	5 / 2			
reaction time	0.202	interval		1.04	1.04	1.02	1.02	1.02	1.04	1.04	1.08	1.08	1.20		3.10	3.08	3.20
wind	0.0 m/s	velocity	4.78	8.17	8.17	8.33	8.33	8.33	8.17	8.17	7.87	7.87	8.37	7.52	8.23	8.28	7.97

*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers***FINAL - 2020 Athlete Night Games (Fukui, JPN)**

date	29-Aug-20	time	2.69	3.73	4.74	5.76	6.76	7.77	8.79	9.84	10.89	11.99	13.12	1 / 4			
reaction time		interval		1.04	1.01	1.02	1.00	1.01	1.02	1.05	1.05	1.10	1.13		3.07	3.03	3.20
wind	2.1 m/s	velocity	4.83	8.17	8.42	8.33	8.50	8.42	8.33	8.10	8.10	7.73	8.89	7.62	8.31	8.42	7.97

*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers***FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)**

date	23-Aug-20	time	2.72	3.78	4.83	5.86	6.89	7.92	8.96	10.03	11.08	12.17	13.30	2 / 5			
reaction time	0.184	interval		1.06	1.05	1.03	1.03	1.03	1.04	1.07	1.05	1.09	1.13		3.14	3.10	3.21
wind	0.3 m/s	velocity	4.78	8.02	8.10	8.25	8.25	8.25	8.17	7.94	8.10	7.80	8.89	7.52	8.12	8.23	7.94

*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers***FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)**

date	01-Sep-19	time	2.73	3.78	4.82	5.85	6.86	7.90	8.95	10.00	11.07	12.13	13.29	2 / 4			
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Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps

reaction time	interval	1.05	1.04	1.03	1.01	1.04	1.05	1.05	1.07	1.06	1.16		3.12	3.10	3.18		
wind	1.2 m/s	velocity	4.76	8.10	8.17	8.25	8.42	8.17	8.10	8.10	7.94	8.02	9.05	7.52	8.17	8.23	8.02

FINAL - 2019 Japanese National Championships (Fukuoka, JPN)*Yamanaka (2019) - research on athlete performance and technique- 2019 data book*

date	29-Jun-19	time	2.72	3.77	4.80	5.84	6.87	7.91	8.95	10.00	11.07	12.14	13.31	8 / 7			
reaction time	0.191	interval	1.05	1.03	1.04	1.03	1.04	1.04	1.05	1.07	1.07	1.17	PB		3.12	3.11	3.19
wind	0.6 m/s	velocity	4.78	8.10	8.25	8.17	8.25	8.17	8.10	7.94	7.94	8.97	7.51		8.17	8.20	7.99

FINAL - 2019 Fuse Sprint (Tottori, JPN)*Kijima (2019) - research on athlete performance and technique- 2019 data book*

date	02-Jun-19	time	2.72	3.78	4.82	5.87	6.92	7.95	8.99	10.03	11.11	12.19	13.35	9 / 6			
reaction time	0.155	interval	1.06	1.04	1.05	1.05	1.03	1.04	1.04	1.04	1.08	1.16			3.15	3.12	3.20
wind	3.5 m/s	velocity	4.78	8.02	8.17	8.10	8.10	8.25	8.17	8.17	7.87	7.87	9.05	7.49	8.10	8.17	7.97

A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)*Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

date	28-Apr-19	time	2.72	3.80	4.87	5.93	6.97	8.05	9.12	10.20	11.29	12.40	13.62	1 / 7			
reaction time		interval	1.08	1.07	1.06	1.04	1.08	1.07	1.08	1.09	1.11	1.22			3.21	3.19	3.28
wind	0.6 m/s	velocity	4.78	7.87	7.94	8.02	8.17	7.87	7.94	7.87	7.80	7.66	8.61	7.34	7.94	7.99	7.77

Suzuki, Risa (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 National Sports Festival (Hitachinaka, JPN) (76cm)***Enomoto (2019) - research on athlete performance and technique- 2019 data book*

date	06-Oct-19	time	2.80	3.93	5.03	6.12	7.21	8.29	9.38	10.48	11.58	12.68	13.90	9 / 4			
reaction time	0.226	interval	1.13	1.10	1.09	1.09	1.08	1.09	1.10	1.10	1.10	1.22			3.32	3.26	3.30
wind	1.6 m/s	velocity	4.64	7.52	7.73	7.80	7.80	7.87	7.80	7.73	7.73	7.73	8.61	7.19	7.68	7.82	7.73

Švehláková, Eva (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) (76cm)***Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	3.01	4.27	5.54	6.81	8.08	9.38	10.66	11.95	13.23	14.55	15.98	1 / 8			
reaction time	0.239	interval	1.26	1.27	1.27	1.27	1.30	1.28	1.29	1.28	1.32	1.43			3.80	3.85	3.89
wind	-1.3 m/s	velocity	4.32	6.75	6.69	6.69	6.69	6.54	6.64	6.59	6.64	6.44	7.34	6.26	6.71	6.62	6.56

Svobodová, Lenka (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)***Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.75	3.89	5.05	6.21	7.36	8.51	9.65	10.85	12.04	13.24	14.57	5 / 2			
reaction time	0.123	interval	1.14	1.16	1.16	1.15	1.15	1.14	1.20	1.19	1.20	1.33			3.46	3.44	3.59
wind	-3.9 m/s	velocity	4.73	7.46	7.33	7.33	7.39	7.39	7.46	7.08	7.14	7.08	7.89	6.86	7.37	7.41	7.10

Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE)*Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.77	3.93	5.08	6.24	7.40	8.56	9.74	10.91	12.11	13.34	14.76	7 / 1			
reaction time	0.389	interval	1.16	1.15	1.16	1.16	1.16	1.18	1.17	1.20	1.23	1.42			3.47	3.50	3.60
wind	-1.5 m/s	velocity	4.69	7.33	7.39	7.33	7.33	7.33	7.20	7.26	7.08	6.91	7.39	6.78	7.35	7.29	7.08

Svojanovská, Michaela (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 - 2012 Czech Republic National Indoor Championships (Praha, CZE)***Fehér (2012) - Czech Republic indoor national championships - women's 60m hurdles*

date	25-Feb-12	time	2.97	4.19	5.42	6.63	7.88						9.52	8 / 6			
reaction time	0.159	interval	1.22	1.23	1.21	1.25							1.64		3.66		
		velocity	4.38	6.97	6.91	7.02	6.80						7.93		6.30		6.97

Taguchi, Mayu (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	2.70	3.78	4.84	5.89	6.93	7.98	9.03	10.10	11.19	12.29	13.52	5 / 1			
reaction time	0.138	interval	1.08	1.06	1.05	1.04	1.05	1.05	1.07	1.09	1.10	1.23	PB		3.19	3.14	3.26
wind	1.8 m/s	velocity	4.81	7.87	8.02	8.10	8.17	8.10	8.10	7.94	7.80	7.73	8.17	7.40	7.99	8.12	7.82

FiNAL - 2021 Japanese U20 National Championships (Osaka, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	26-Jun-21	time	2.72	3.85	4.94	6.01	7.08	8.17	9.28	10.39	11.54	12.70	13.96	2 / 6			
reaction time	0.153	interval	1.13	1.09	1.07	1.07	1.09	1.11	1.11	1.15	1.16	1.26	PB		3.29	3.27	3.42
wind	0.2 m/s	velocity	4.78	7.52	7.80	7.94	7.94	7.80	7.66	7.66	7.39	7.33	7.98	7.16	7.75	7.80	7.46

Takada, Momoka (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	2.72	3.83	4.95	6.07	7.20	8.33	9.48	10.63	11.82	13.02	14.31	4 / 2			
reaction time		interval	1.11	1.12	1.12	1.13	1.13	1.13	1.15	1.15	1.19	1.20	1.29		3.35	3.41	3.54
wind	1.2 m/s	velocity	4.78	7.66	7.59	7.59	7.52	7.52	7.39	7.39	7.14	7.08	7.79	6.99	7.61	7.48	7.20

FINAL - 2017 Shimane High School Championships (Izumo, JPN)*Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis*

date	28-May-17	time	2.70	3.87	5.03	6.17	7.30	8.47	9.60	10.80	12.00	13.27	14.69	5 / 2			
reaction time		interval	1.17	1.16	1.14	1.13	1.17	1.13	1.20	1.20	1.27	1.42			3.47	3.43	3.67
wind	2.6 m/s	velocity	4.81	7.26	7.33	7.46	7.52	7.26	7.52	7.08	7.08	6.69	7.08	6.81	7.35	7.43	6.95

Takada, Natsuki (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	2.88	4.10	5.32	6.55	7.79	9.02	10.36	11.67	13.04	14.41	15.91	7 / 3			
reaction time		interval	1.22	1.22	1.23	1.24	1.23	1.34	1.31	1.37	1.37	1.50			3.67	3.81	4.05

wind 1.9 m/s velocity 4.51 6.97 6.97 6.91 6.85 6.91 6.34 6.49 6.20 6.20 6.70 6.29 6.95 6.69 6.30

FINAL - 2018 Shimane High School Championships (Izumo, JPN) *Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis*
 date 27-May-18 time 2.95 4.23 5.50 6.80 8.10 9.42 10.77 12.12 13.53 15.03 16.61 1 / 6
 reaction time interval 1.28 1.27 1.30 1.30 1.32 1.35 1.35 1.41 1.50 1.58 3.85 3.97 4.26
 wind 1.2 m/s velocity 4.41 6.64 6.69 6.54 6.54 6.44 6.30 6.30 6.03 5.67 6.36 6.02 6.62 6.42 5.99

Takahashi, Ami (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 U20 National Championships (Osaka, JPN) *Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*
 date 03-Jun-23 time 2.72 3.81 4.91 6.00 7.07 8.15 9.26 10.35 11.47 12.59 13.88 9 / 3
 reaction time 0.180 interval 1.09 1.10 1.09 1.07 1.08 1.11 1.09 1.12 1.12 1.29 3.28 3.26 3.33
 wind -1.4 m/s velocity 4.78 7.80 7.73 7.80 7.94 7.87 7.66 7.80 7.59 7.79 7.20 7.77 7.82 7.66

FINAL - 2022 Japanese National High School Championships (Naruto, JPN) *Kishima (2022) - national high school championships biomechanics data collection*
 date 07-Aug-22 time 2.64 3.76 4.87 5.96 7.06 8.15 9.26 10.36 11.47 12.61 13.85 6 / 2
 reaction time 0.141 interval 1.12 1.11 1.09 1.10 1.09 1.11 1.10 1.11 1.14 1.24 3.32 3.30 3.35
 wind -1.5 m/s velocity 4.92 7.59 7.66 7.80 7.73 7.80 7.66 7.73 7.66 7.46 8.10 7.22 7.68 7.73 7.61

FINAL - 2021 Japanese High School National Championships (Fukui, JPN) *Shibayama (2021) - national high school and U20 national championships*
 date 01-Aug-21 time 2.69 3.81 4.89 5.97 7.05 8.15 9.22 10.33 11.42 12.54 13.75 7 / 6
 reaction time 0.151 interval 1.12 1.08 1.08 1.08 1.10 1.07 1.11 1.09 1.12 1.21 **PB** 3.28 3.25 3.32
 wind 1.8 m/s velocity 4.83 7.59 7.87 7.87 7.87 7.73 7.94 7.66 7.80 7.59 8.31 7.27 7.77 7.85 7.68

Takahashi, Aoi (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 2.95 4.20 5.52 6.80 8.08 9.40 10.75 12.10 13.52 14.93 16.34 3 / 7
 reaction time interval 1.25 1.32 1.28 1.28 1.32 1.35 1.35 1.42 1.41 1.41 3.85 3.95 4.18
 wind -1.0 m/s velocity 4.41 6.80 6.44 6.64 6.64 6.44 6.30 6.30 5.99 6.03 7.13 6.12 6.62 6.46 6.10

Takahashi, Makato (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 Junior Championships (Mizuho, JPN) *(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*
 date 21-Oct-16 time 2.80 3.93 5.05 6.15 7.25 8.35 9.45 10.56 11.70 12.83 14.02 3 / 2
 reaction time interval 1.13 1.12 1.10 1.10 1.10 1.10 1.11 1.14 1.13 1.19 3.35 3.30 3.38
 wind 1.3 m/s velocity 4.64 7.52 7.59 7.73 7.73 7.73 7.73 7.66 7.46 7.52 8.82 7.13 7.61 7.73 7.54

FINAL - 2016 Kanto Area High School Championships (Tokyo, JPN) *(2016.06.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*
 date 17-Jun-16 time 2.79 3.92 5.11 6.24 7.36 8.48 9.63 10.77 11.88 13.04 14.27 3 / 1
 reaction time interval 1.13 1.19 1.13 1.12 1.12 1.15 1.14 1.11 1.16 1.23 3.45 3.39 3.41
 wind -1.5 m/s velocity 4.66 7.52 7.14 7.52 7.59 7.59 7.39 7.46 7.66 7.33 8.54 7.01 7.39 7.52 7.48

Takahashi, Mihiro (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 2.92 4.18 5.52 6.95 8.42 9.85 11.23 12.63 14.00 15.45 17.07 1 / 7
 reaction time interval 1.26 1.34 1.43 1.47 1.43 1.38 1.40 1.37 1.45 1.62 4.03 4.28 4.22
 wind -0.2 m/s velocity 4.45 6.75 6.34 5.94 5.78 5.94 6.16 6.07 6.20 5.86 6.20 5.86 6.33 5.96 6.04

Takahashi, Natsuki (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) *Kota (2016) - 69th high school championships: JAF scientific committee- biomechanics data*
 date 02-Aug-16 time 2.79 3.91 5.02 6.14 7.24 8.34 9.44 10.54 11.65 12.76 13.95 6 / 7
 reaction time 0.183 interval 1.12 1.11 1.12 1.10 1.10 1.10 1.10 1.11 1.11 1.19 **PB** 3.35 3.30 3.32
 wind 1.5 m/s velocity 4.66 7.59 7.66 7.59 7.73 7.73 7.73 7.73 7.66 7.66 8.82 7.17 7.61 7.73 7.68

Takami, Towa (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) *Shibayama (2021) - national high school and U20 national championships*
 date 01-Aug-21 time 2.66 3.72 4.78 5.84 6.94 8.02 9.11 10.21 11.33 12.44 13.64 1 / 3
 reaction time 0.158 interval 1.06 1.06 1.06 1.10 1.08 1.09 1.10 1.12 1.11 1.20 **PB** 3.18 3.27 3.33
 wind 1.8 m/s velocity 4.89 8.02 8.02 8.02 7.73 7.87 7.80 7.73 7.59 7.66 8.37 7.33 8.02 7.80 7.66

Takebe, Mao (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) - tfdata-store.com/2017/05/01/458/*
 date 29-Apr-17 time 2.71 3.79 4.85 5.91 6.98 8.01 9.09 10.16 11.26 12.39 13.73 7 / 6
 reaction time interval 1.08 1.06 1.06 1.07 1.03 1.08 1.07 1.10 1.13 1.34 3.20 3.18 3.30
 wind 4.1 m/s velocity 4.80 7.87 8.02 8.02 7.94 8.25 7.87 7.94 7.73 7.52 7.84 7.28 7.97 8.02 7.73

FINAL - 2016 National Sports Festival (Kitakami, JPN) *(2016.11.14) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*
 date 10-Oct-16 time 2.71 3.80 4.86 5.92 6.96 8.03 9.11 10.20 11.30 12.43 13.66 5 / 5
 reaction time 0.172 interval 1.09 1.06 1.06 1.04 1.07 1.08 1.09 1.10 1.13 1.23 3.21 3.19 3.32
 wind 2.8 m/s velocity 4.80 7.80 8.02 8.02 8.17 7.94 7.87 7.80 7.73 7.52 8.54 7.32 7.94 7.99 7.68

Takeuchi, Maya (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) *Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*
 date 29-Apr-22 time 2.70 3.84 4.95 6.03 7.09 8.18 9.25 10.34 11.47 12.59 13.79 3 / 4
 reaction time 0.179 interval 1.14 1.11 1.08 1.06 1.09 1.07 1.09 1.13 1.12 1.20 3.33 3.22 3.34

wind 0.3 m/s velocity 4.81 7.46 7.66 7.87 8.02 7.80 7.94 7.80 7.52 7.59 8.38 7.25 7.66 7.92 7.63

FINAL - 2021 Japanese National Championships (Osaka, JPN) *Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date 27-Jun-21 time 2.61 3.69 4.76 5.81 6.86 7.91 9.00 10.07 11.17 12.26 13.42 8 / 4
 reaction time 0.143 interval 1.08 1.07 1.05 1.05 1.05 1.09 1.07 1.10 1.09 1.16 **PB** 3.20 3.19 3.26
 wind 0.0 m/s velocity 4.98 7.87 7.94 8.10 8.10 8.10 7.80 7.94 7.73 7.80 8.66 7.45 7.97 7.99 7.82

FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN) *Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date 09-May-21 time 2.67 3.77 4.86 5.93 7.01 8.10 9.19 10.31 11.44 12.58 13.66 8 / 8
 reaction time 0.156 interval 1.10 1.09 1.07 1.08 1.09 1.09 1.12 1.13 1.14 1.08 3.26 3.26 3.39
 wind -0.8 m/s velocity 4.87 7.73 7.80 7.94 7.87 7.80 7.80 7.59 7.52 7.46 9.31 7.32 7.82 7.82 7.52

FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN) *Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date 29-Apr-21 time 2.63 3.72 4.76 5.81 6.86 7.91 8.98 10.06 11.17 12.30 13.52 1 / 7
 reaction time interval 1.09 1.04 1.05 1.05 1.05 1.07 1.08 1.11 1.13 1.22 **=PB** 3.18 3.17 3.32
 wind 1.6 m/s velocity 4.94 7.80 8.17 8.10 8.10 8.10 7.94 7.87 7.66 7.52 8.24 7.40 8.02 8.04 7.68

FINAL - 2020 Japanese National Championships (Niigata, JPN) *Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date 03-Oct-20 time 2.62 3.71 4.78 5.82 6.89 7.94 9.00 10.08 11.18 12.30 13.52 8 / 7
 reaction time 0.154 interval 1.09 1.07 1.04 1.07 1.05 1.06 1.08 1.10 1.12 1.22 **PB** 3.20 3.18 3.30
 wind -0.1 m/s velocity 4.96 7.80 7.94 8.17 7.94 8.10 8.02 7.87 7.73 7.59 8.24 7.40 7.97 8.02 7.73

Talay, Alina (BLR) (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 Bauhaus Athletics (Stockholm, SWE) (TV Analysis) *Henson (2020) - Athlete First: 2018 year end hurdle report*

date 10-Jun-18 time 2.58 3.60 4.60 5.56 6.52 7.48 8.44 9.42 10.42 11.42 12.55 4 / 3
 reaction time 0.132 interval 1.02 1.00 0.96 0.96 0.96 0.96 0.98 1.00 1.00 1.13 2.98 2.88 2.98
 wind 1.3 m/s velocity 5.04 8.33 8.50 8.85 8.85 8.85 8.85 8.67 8.50 8.50 9.29 7.97 8.56 8.85 8.56

FINAL - 2018 Bislett Games (Oslo, NOR) (TV Analysis) *Henson (2020) - Athlete First: 2018 year end hurdle report*

date 07-Jun-18 time 2.56 3.56 4.56 5.52 6.48 7.46 8.44 9.40 10.42 11.44 12.63 5 / 2
 reaction time 0.231 interval 1.00 1.00 0.96 0.96 0.98 0.98 0.96 1.02 1.02 1.19 2.96 2.92 3.00
 wind 1.1 m/s velocity 5.08 8.50 8.50 8.85 8.85 8.67 8.67 8.85 8.33 8.33 8.82 7.92 8.61 8.73 8.50

FINAL - 2018 Leise Prokop Memorial (St. Pölten, AUT) (TV Analysis) *Henson (2021) - Athlete First: 2018 year end hurdle report*

date 31-May-18 time 2.52 3.52 4.50 5.46 6.42 7.38 8.34 9.30 10.26 11.26 12.41 4 / 1
 reaction time interval 1.00 0.98 0.96 0.96 0.96 0.96 0.96 0.96 1.00 1.15 **NR PB** 2.94 2.88 2.92
 wind 0.5 m/s velocity 5.16 8.50 8.67 8.85 8.85 8.85 8.85 8.85 8.85 9.13 8.06 8.67 8.85 8.73

Heat 1 - 2018 Leise Prokop Memorial (St. Pölten, AUT) (TV Analysis) *Henson (2021) - Athlete First: 2018 year end hurdle report*

date 31-May-18 time 2.56 3.58 4.58 5.56 6.52 7.48 8.46 9.42 10.42 11.40 12.61 3 / 1
 reaction time interval 1.02 1.00 0.98 0.96 0.96 0.98 0.96 1.00 0.98 1.21 **NR PB** 3.00 2.90 2.94
 wind 0.1 m/s velocity 5.08 8.33 8.50 8.67 8.85 8.85 8.67 8.85 8.50 8.67 8.68 7.93 8.50 8.79 8.67

FINAL - 2017 Weltklasse (Zürich, SUI) (TV Analysis) *Henson (2020) - Athlete First: 2017 year end hurdle report*

date 24-Aug-17 time 2.56 3.58 4.56 5.54 6.52 7.50 8.50 9.54 10.54 11.58 12.80 2 / 5
 reaction time 0.134 interval 1.02 0.98 0.98 0.98 0.98 1.00 1.04 1.00 1.04 1.22 2.98 2.96 3.08
 wind -0.3 m/s velocity 5.08 8.33 8.67 8.67 8.67 8.67 8.50 8.17 8.50 8.17 8.61 7.81 8.56 8.61 8.28

FINAL - 2017 IAAF World Championships (London, GBR) *Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date 12-Aug-17 time 2.46 3.49 4.49 5.47 6.46 7.47 8.48 9.49 10.50 11.54 12.81 8 / 6
 reaction time 0.139 interval 1.03 1.00 0.98 0.99 1.01 1.01 1.01 1.01 1.04 1.27 3.01 3.01 3.06
 wind 0.1 m/s velocity 5.28 8.25 8.50 8.67 8.59 8.42 8.42 8.42 8.42 8.17 8.27 7.81 8.47 8.47 8.33

Semi-Final 2 - 2017 IAAF World Championships (London, GBR) *Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date 11-Aug-17 time 2.47 3.52 4.52 5.50 6.50 7.48 8.47 9.48 10.50 11.55 12.85 6 / 2
 reaction time 0.119 interval 1.05 1.00 0.98 1.00 0.98 0.99 1.01 1.02 1.05 1.30 3.03 2.97 3.08
 wind 0.5 m/s velocity 5.26 8.10 8.50 8.67 8.50 8.67 8.59 8.42 8.33 8.10 8.08 7.78 8.42 8.59 8.28

FINAL - 2017 Bislett Games (Oslo, NOR) (TV Analysis) *Henson (2020) - Athlete First: 2017 year end hurdle report*

date 15-Jun-17 time 2.60 3.62 4.62 5.62 6.60 7.58 8.58 9.60 10.64 11.72 12.90 7 / 4
 reaction time 0.141 interval 1.02 1.00 1.00 0.98 0.98 1.00 1.02 1.04 1.08 1.18 3.02 2.96 3.14
 wind 0.8 m/s velocity 5.00 8.33 8.50 8.50 8.67 8.67 8.50 8.33 8.17 7.87 8.90 7.75 8.44 8.61 8.12

FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis) *Henson (2020) - Athlete First: 2017 year end hurdle report*

date 27-May-17 time 2.54 3.58 4.58 5.58 6.58 7.56 8.56 9.58 10.64 11.68 12.97 1 / 8
 reaction time 0.159 interval 1.04 1.00 1.00 1.00 0.98 1.00 1.02 1.06 1.04 1.29 3.04 2.98 3.12
 wind 0.8 m/s velocity 5.12 8.17 8.50 8.50 8.50 8.67 8.50 8.33 8.02 8.17 8.14 7.71 8.39 8.56 8.17

FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis) *Henson (2020) - Athlete First: 2016 year end hurdle report*

date 22-Jul-16 time 2.52 3.52 4.50 5.48 6.44 7.42 8.40 9.40 10.42 11.46 12.66 3 / 5
 reaction time 0.118 interval 1.00 0.98 0.98 0.96 0.98 0.98 1.00 1.02 1.04 1.20 2.96 2.92 3.06
 wind 0.3 m/s velocity 5.16 8.50 8.67 8.67 8.85 8.67 8.67 8.50 8.33 8.17 8.75 7.90 8.61 8.73 8.33

FINAL - 2016 European Championships (Amsterdam, NED) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	07-Jul-16	time	2.52	3.54	4.52	5.50	6.48	7.44	8.42	9.44	10.46	11.48	12.68	5 / 2				
reaction time	0.153	interval		1.02	0.98	0.98	0.98	0.96	0.98	1.02	1.02	1.02	1.20		2.98	2.92	3.06	
wind	-0.7 m/s	velocity	5.16	8.33	8.67	8.67	8.67	8.85	8.67	8.33	8.33	8.33	8.75	7.89	8.56	8.73	8.33	

FINAL - 2016 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	16-Jun-16	time	2.50	3.52	4.52	5.52	6.50	7.50	8.50	9.52	10.54	11.58	12.90	3 / 4				
reaction time	0.148	interval		1.02	1.00	1.00	0.98	1.00	1.00	1.02	1.02	1.04	1.32		3.02	2.98	3.08	
wind	-0.4 m/s	velocity	5.20	8.33	8.50	8.50	8.67	8.50	8.50	8.33	8.33	8.17	7.95	7.75	8.44	8.56	8.28	

FINAL - 2016 Sparkassen Gala (Regensburg, GER)*Unfried (2016) - Austrian Athletics: athlete competition analysis*

date	05-Jun-16	time	2.58	3.58	4.58	5.55	6.51	7.48	8.47	9.47	10.49	11.51	12.63	/ 1				
reaction time		interval		1.00	1.00	0.97	0.96	0.97	0.99	1.00	1.02	1.02	1.12	NR	2.97	2.92	3.04	
wind	0.0 m/s	velocity	5.04	8.50	8.50	8.76	8.85	8.76	8.59	8.50	8.33	8.33	9.37	7.92	8.59	8.73	8.39	

FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	28-May-16	time	2.52	3.52	4.54	5.52	6.50	7.50	8.48	9.50	10.54	11.58	12.85	8 / 6				
reaction time		interval		1.00	1.02	0.98	0.98	1.00	0.98	1.02	1.04	1.04	1.27		3.00	2.96	3.10	
wind	0.7 m/s	velocity	5.16	8.50	8.33	8.67	8.67	8.50	8.67	8.33	8.17	8.17	8.27	7.78	8.50	8.61	8.23	

FINAL - 2015 IAAF World Championships (Beijing, CHN)*Мирзоев (2015) - Временные характеристики технического мастерства бега на 100м с барьерами*

date	28-Aug-15	time	2.60	3.60	4.57	5.54	6.51	7.48	8.46	9.45	10.46	11.49	12.66	2 / 3				
reaction time	0.146	interval		1.00	0.97	0.97	0.97	0.97	0.98	0.99	1.01	1.03	1.17	NR	2.94	2.92	3.03	
wind	-0.3 m/s	velocity	5.00	8.50	8.76	8.76	8.76	8.76	8.67	8.59	8.42	8.25	8.97	7.90	8.67	8.73	8.42	

FINAL - 2013 European Indoor Championships (Göteborg, SWE)*Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx*

date	01-Mar-13	time	2.62	3.65	4.64	5.64	6.62							7.94	5 / 2-1			
reaction time	0.154	interval		1.03	0.99	1.00	0.98						1.32	=PB		3.02		
		velocity	4.96	8.25	8.59	8.50	8.67						9.85	7.56		8.44		

Tamai, Nana (JPN) (2000)**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)***Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	08-Oct-18	time	2.69	3.79	4.88	5.95	7.03	8.09	9.22	10.38	11.51	12.66	13.94	2 / 7				
reaction time	0.132	interval		1.10	1.09	1.07	1.08	1.06	1.13	1.16	1.13	1.15	1.28		3.26	3.27	3.44	
wind	2.5 m/s	velocity	4.83	7.73	7.80	7.94	7.87	8.02	7.52	7.33	7.52	7.39	8.20	7.17	7.82	7.80	7.41	

Tamaoki, Nanako (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 Michitaka Kinami Memorial (Osaka, JPN)***Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	01-May-22	time	2.64	3.73	4.80	5.84	6.87	7.95	9.00	10.10	11.19	12.29	13.52	2 / 5				
reaction time	0.143	interval		1.09	1.07	1.04	1.03	1.08	1.05	1.10	1.09	1.10	1.23		3.20	3.16	3.29	
wind	-0.6 m/s	velocity	4.92	7.80	7.94	8.17	8.25	7.87	8.10	7.73	7.80	7.73	8.17	7.40	7.97	8.07	7.75	

FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	29-Apr-22	time	2.68	3.78	4.87	5.95	7.04	8.11	9.20	10.28	11.37	12.48	13.66	8 / 6				
reaction time	0.161	interval		1.10	1.09	1.08	1.09	1.07	1.09	1.08	1.09	1.11	1.18		3.27	3.25	3.28	
wind	-2.8 m/s	velocity	4.85	7.73	7.80	7.87	7.80	7.94	7.80	7.87	7.80	7.66	8.52	7.32	7.80	7.85	7.77	

Tanaka, Anri (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)***Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers*

date	29-Apr-16	time	2.66	3.78	4.86	5.92	6.99	8.06	9.12	10.20	11.28	12.40	13.66	7 / 5				
reaction time		interval		1.12	1.08	1.06	1.07	1.07	1.06	1.08	1.08	1.12	1.26		3.26	3.20	3.28	
wind	1.1 m/s	velocity	4.89	7.59	7.87	8.02	7.94	7.94	8.02	7.87	7.87	7.59	8.33	7.32	7.82	7.97	7.77	

FINAL - 2015 Japanese National Championships (Niigata, JPN)*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	27-Jun-15	time	2.65	3.69	4.73	5.75	6.77	7.80	8.83	9.88	10.94	12.05	13.30	9 / 2				
reaction time	0.159	interval		1.04	1.04	1.02	1.02	1.03	1.03	1.05	1.06	1.11	1.25	PB	3.10	3.08	3.22	
wind	-0.2 m/s	velocity	4.91	8.17	8.17	8.33	8.33	8.25	8.25	8.10	8.02	7.66	8.40	7.52	8.23	8.28	7.92	

Tanaka, Hikari (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)***Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	29-Apr-22	time	2.72	3.85	4.93	6.01	7.08	8.15	9.25	10.36	11.48	12.62	13.87	2 / 7				
reaction time	0.185	interval		7 steps	1.13	1.08	1.08	1.07	1.10	1.11	1.12	1.14	1.25		3.29	3.24	3.37	
wind	0.3 m/s	velocity	4.78	7.52	7.87	7.87	7.94	7.94	7.73	7.66	7.59	7.46	8.04	7.21	7.75	7.87	7.57	

FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	09-May-21	time	2.67	3.75	4.81	5.87	6.92	7.98	9.06	10.14	11.22	12.36	13.82	2 / 9				
reaction time	0.140	interval		7 steps	1.08	1.06	1.06	1.06	1.08	1.08	1.08	1.14	1.46		3.20	3.19	3.30	
wind	-0.8 m/s	velocity	4.87	7.87	8.02	8.02	8.10	8.02	7.87	7.87	7.87	7.46	6.88	7.24	7.97	7.99	7.73	

FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	29-Apr-21	time	2.67	3.72	4.80	5.86	6.92	7.98	9.05	10.14	11.23	12.33	13.55	7 / 8				
reaction time		interval		7 steps	1.05	1.08	1.06	1.06	1.07	1.09	1.09	1.10	1.22		3.19	3.19	3.28	
wind	1.6 m/s	velocity	4.87	8.10	7.87	8.02	8.02	8.02	7.94	7.80	7.80	7.73	8.24	7.38	7.99	7.99	7.77	

A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)*Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

date	28-Apr-19	time	2.70	3.78	4.85	5.91	6.97	8.03	9.11	10.20	12.29	12.41	13.65	5 / 8			
reaction time		interval	7 steps	1.08	1.07	1.06	1.06	1.06	1.08	1.09	2.09	0.12	1.24	3.21	3.20	3.30	
wind	0.6 m/s	velocity	4.81	7.87	7.94	8.02	8.02	8.02	7.87	7.80	4.07	70.83	8.47	7.33	7.94	7.97	7.73

FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)*Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	24-Jun-18	time	2.68	3.79	4.87	5.92	6.97	8.03	9.08	10.14	11.22	12.31	13.52	6 / 6			
reaction time	0.190	interval		1.11	1.08	1.05	1.05	1.06	1.05	1.06	1.08	1.09	1.21	3.24	3.16	3.23	
wind	1.1 m/s	velocity	4.85	7.66	7.87	8.10	8.10	8.02	8.10	8.02	7.87	7.80	8.68	7.40	7.87	8.07	7.89

Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)*(2017) - tfdata-store.com/2017/05/08/post-413/*

date	07-May-17	time	2.76	3.89	5.01	6.13	7.25	8.36	9.49	10.64	11.78	12.94	14.21	7 / 7			
reaction time		interval		1.13	1.12	1.12	1.12	1.11	1.13	1.15	1.14	1.16	1.27	3.37	3.36	3.45	
wind	-0.2 m/s	velocity	4.71	7.52	7.59	7.59	7.59	7.66	7.52	7.39	7.46	7.33	8.27	7.04	7.57	7.59	7.39

FINAL - 2017 Michitaka Memorial (Osaka, JPN)*(2017) - tfdata-store.com/2017/05/08/post-413/*

date	07-May-17	time	2.75	3.87	4.99	6.11	7.23	8.34	9.47	10.61	11.75	12.92	14.18	3 / 8			
reaction time		interval		1.12	1.12	1.12	1.12	1.11	1.13	1.14	1.14	1.17	1.26	3.36	3.36	3.45	
wind	-0.6 m/s	velocity	4.73	7.59	7.59	7.59	7.59	7.66	7.52	7.46	7.46	7.26	8.33	7.05	7.59	7.59	7.39

B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)*(2017) - tfdata-store.com/2017/05/01/458/*

date	29-Apr-17	time	2.72	3.84	4.93	6.00	7.08	8.17	9.25	10.36	11.47	12.59	13.80	8 / 8			
reaction time		interval		1.12	1.09	1.07	1.08	1.09	1.08	1.11	1.11	1.12	1.21	3.28	3.25	3.34	
wind	4.1 m/s	velocity	4.78	7.59	7.80	7.94	7.87	7.80	7.87	7.66	7.66	7.59	8.68	7.25	7.77	7.85	7.63

FINAL - 2017 Japanese National Indoor Junior Championships (Osaka, JPN)*(2017.02.04) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	04-Feb-17	time	2.70	3.82	4.92	6.02	7.10						8.55	3 / 1	
reaction time		interval		1.12	1.10	1.10	1.08						1.45	PB	3.32
		velocity	4.81	7.59	7.73	7.73	7.87						8.97	11.70	7.68

FINAL - 2016 Japanese National High School Championships (Okayama, JPN)*Kota (2016) - 69th high school championships: JAF scientific committee- biomechanics data*

date	02-Aug-16	time	2.71	3.82	4.90	5.97	7.02	8.09	9.16	10.23	11.34	12.42	13.64	4 / 2			
reaction time	0.153	interval		1.11	1.08	1.07	1.05	1.07	1.07	1.07	1.11	1.08	1.22	PB	3.26	3.19	3.26
wind	1.5 m/s	velocity	4.80	7.66	7.87	7.94	8.10	7.94	7.94	7.94	7.66	7.87	8.61	7.33	7.82	7.99	7.82

FINAL - 2016 Saitama Prefecture High School Meeting (Kumagaya, JPN)*(2016.05.11) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	10-May-16	time	2.73	3.85	4.96	6.04	7.13	8.23	9.33	10.45	11.57	12.71	13.92	4 / 1			
reaction time		interval		1.12	1.11	1.08	1.09	1.10	1.10	1.12	1.12	1.14	1.21	3.31	3.29	3.38	
wind	1.8 m/s	velocity	4.76	7.59	7.66	7.87	7.80	7.73	7.73	7.59	7.59	7.46	8.68	7.18	7.70	7.75	7.54

Tanaka, Kiyono (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 Japanese National Championships (Osaka, JPN)***Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	11-Jun-22	time	2.60	3.69	4.75	5.78	6.82	7.87	8.92	10.00	11.07	12.18	13.42	2 / 6			
reaction time	0.148	interval		1.09	1.06	1.03	1.04	1.05	1.05	1.08	1.07	1.11	1.24	3.18	3.14	3.26	
wind	0.8 m/s	velocity	5.00	7.80	8.02	8.25	8.17	8.10	8.10	7.87	7.94	7.66	8.10	7.45	8.02	8.12	7.82

FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	01-Jun-21	time	2.64	3.72	4.76	5.82	6.86	7.93	8.99	10.08	11.17	12.27	13.49	2 / 8			
reaction time	0.171	interval		1.08	1.04	1.06	1.04	1.07	1.06	1.09	1.09	1.10	1.22	PB	3.18	3.17	3.28
wind	0.3 m/s	velocity	4.92	7.87	8.17	8.02	8.17	7.94	8.02	7.80	7.80	7.73	8.24	7.41	8.02	8.04	7.77

Tanaka, Yoko (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 Junior Championships (Mizuho, JPN)***(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.74	3.88	4.99	6.09	7.19	8.30	9.42	10.54	11.67	12.82	14.13	3 / 2			
reaction time		interval		1.14	1.11	1.10	1.10	1.11	1.12	1.12	1.13	1.15	1.31	3.35	3.33	3.40	
wind	1.5 m/s	velocity	4.74	7.46	7.66	7.73	7.73	7.66	7.59	7.59	7.52	7.39	8.02	7.08	7.61	7.66	7.50

Tanaka, Yumi (JPN) (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	09-Aug-24	time	2.43	3.49	4.49	5.48	6.46	7.46	8.47	9.50	10.55	11.60	12.91	9 / 7			
reaction time	0.152	interval		1.06	1.00	0.99	0.98	1.00	1.01	1.03	1.05	1.05	1.31	3.05	2.99	3.13	
wind	0.5 m/s	velocity	5.35	8.02	8.50	8.59	8.67	8.50	8.42	8.25	8.10	8.10	7.67	7.75	8.36	8.53	8.15

Repechage 3 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.46	3.52	4.52	5.52	6.52	7.51	8.52	9.54	10.57	11.62	12.89	8 / 2			
reaction time	0.146	interval		1.06	1.00	1.00	1.00	0.99	1.01	1.02	1.03	1.05	1.27	3.06	3.00	3.10	
wind	-0.2 m/s	velocity	5.28	8.02	8.50	8.50	8.50	8.59	8.42	8.33	8.25	8.10	7.91	7.76	8.33	8.50	8.23

Heat 2 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	07-Aug-24	time	2.44	3.49	4.49	5.49	6.46	7.45	8.46	9.48	10.55	11.62	12.90	4 / 5			
reaction time	0.151	interval		1.05	1.00	1.00	0.97	0.99	1.01	1.02	1.07	1.07	1.28	3.05	2.97	3.16	
wind	0.0 m/s	velocity	5.33	8.10	8.50	8.50	8.76	8.59	8.42	8.33	7.94	7.94	7.85	7.75	8.36	8.59	8.07

Heat 5 - 2023 World Athletics Championships (Budapest, HUN)

date	22-Aug-23	time	2.68	3.72	4.74	5.73	6.74	7.76	8.80	9.81	10.90	11.97	13.12	6 / 7			
reaction time	0.196	interval		1.04	1.02	0.99	1.01	1.02	1.04	1.01	1.09	1.07	1.15		3.05	3.07	3.17
wind	0.4 m/s	velocity	4.85	8.17	8.33	8.59	8.42	8.33	8.17	8.42	7.80	7.94	8.74	7.62	8.36	8.31	8.04

*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season***FINAL - 2023 Japanese National Championships (Osaka, JPN)**

date	03-Jun-23	time	2.62	3.65	4.65	5.63	6.61	7.62	8.63	9.66	10.69	11.77	12.96	4 / 3			
reaction time	0.162	interval		1.03	1.00	0.98	0.98	1.01	1.01	1.03	1.03	1.08	1.19		3.01	3.00	3.14
wind	-1.2 m/s	velocity	4.96	8.25	8.50	8.67	8.67	8.42	8.42	8.25	8.25	7.87	8.45	7.72	8.47	8.50	8.12

*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season***FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)**

date	21-May-23	time	2.58	3.62	4.64	5.63	6.63	7.62	8.61	9.62	10.67	11.75	12.89	4 / 2			
reaction time	0.146	interval		1.04	1.02	0.99	1.00	0.99	0.99	1.01	1.05	1.08	1.14	PB	3.05	2.98	3.14
wind	0.4 m/s	velocity	5.04	8.17	8.33	8.59	8.50	8.59	8.59	8.42	8.10	7.87	8.82	7.76	8.36	8.56	8.12

*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season***FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)**

date	07-May-23	time	2.61	3.65	4.67	5.67	6.66	7.68	8.69	9.70	10.71	11.76	12.91	4 / 2			
reaction time	0.147	interval		1.04	1.02	1.00	0.99	1.02	1.01	1.01	1.01	1.05	1.15	PB	3.06	3.02	3.07
wind	0.7 m/s	velocity	4.98	8.17	8.33	8.50	8.59	8.33	8.42	8.42	8.42	8.10	8.74	7.75	8.33	8.44	8.31

*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season***FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)**

date	29-Apr-23	time	2.62	3.66	4.68	5.70	6.70	7.69	8.70	9.73	10.76	11.82	12.97	4 / 1			
reaction time	0.155	interval		1.04	1.02	1.02	1.00	0.99	1.01	1.03	1.03	1.06	1.15	PB	3.08	3.00	3.12
wind	0.6 m/s	velocity	4.96	8.17	8.33	8.33	8.50	8.59	8.42	8.25	8.25	8.02	8.74	7.71	8.28	8.50	8.17

*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season***FINAL - 2022 Japanese National Championships (Osaka, JPN)**

date	11-Jun-22	time	2.69	3.75	4.81	5.86	6.88	7.93	8.95	10.01	11.09	12.17	13.35	3 / 3			
reaction time	0.175	interval		1.06	1.06	1.05	1.02	1.05	1.02	1.06	1.08	1.08	1.18		3.17	3.09	3.22
wind	0.8 m/s	velocity	4.83	8.02	8.02	8.10	8.33	8.10	8.33	8.02	7.87	7.87	8.52	7.49	8.04	8.25	7.92

*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season***FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)**

date	08-May-22	time	2.67	3.79	4.84	5.89	6.92	7.97	9.01	10.06	11.13	12.20	13.39	8 / 7			
reaction time	0.175	interval		1.12	1.05	1.05	1.03	1.05	1.04	1.05	1.07	1.07	1.19		3.22	3.12	3.19
wind	-0.1 m/s	velocity	4.87	7.59	8.10	8.10	8.25	8.10	8.17	8.10	7.94	7.94	8.45	7.47	7.92	8.17	7.99

*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season***FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)**

date	01-May-22	time	2.68	3.75	4.80	5.84	6.87	7.90	8.98	10.05	11.13	12.25	13.49	7 / 4			
reaction time	0.172	interval		1.07	1.05	1.04	1.03	1.03	1.08	1.07	1.08	1.12	1.24		3.16	3.14	3.27
wind	-0.6 m/s	velocity	4.85	7.94	8.10	8.17	8.25	8.25	7.87	7.94	7.87	7.59	8.10	7.41	8.07	8.12	7.80

*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season***FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)**

date	29-Apr-22	time	2.66	3.73	4.80	5.84	6.89	7.95	9.00	10.11	11.20	12.28	13.52	7 / 5			
reaction time	0.154	interval		1.07	1.07	1.04	1.05	1.06	1.05	1.11	1.09	1.08	1.24		3.18	3.16	3.28
wind	-2.8 m/s	velocity	4.89	7.94	7.94	8.17	8.10	8.02	8.10	7.66	7.80	7.87	8.10	7.40	8.02	8.07	7.77

*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season***FINAL - 2021 Japanese National Championships (Osaka, JPN)**

date	27-Jun-21	time	2.64	3.72	4.78	5.83	6.86	7.92	8.98	10.07	11.17	12.30	13.57	9 / 6			
reaction time	0.127	interval		1.08	1.06	1.05	1.03	1.06	1.06	1.09	1.10	1.13	1.27		3.19	3.15	3.32
wind	0.0 m/s	velocity	4.92	7.87	8.02	8.10	8.25	8.02	8.02	7.80	7.73	7.52	7.91	7.37	7.99	8.10	7.68

*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season***FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)**

date	01-Jun-21	time	2.64	3.67	4.73	5.77	6.79	7.82	8.84	9.90	10.97	12.05	13.23	5 / 3			
reaction time	0.157	interval		1.03	1.06	1.04	1.02	1.03	1.02	1.06	1.07	1.08	1.18		3.13	3.07	3.21
wind	0.3 m/s	velocity	4.92	8.25	8.02	8.17	8.33	8.25	8.33	8.02	7.94	7.87	8.52	7.56	8.15	8.31	7.94

*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season***FINAL - 2020 Japanese National Championships (Niigata, JPN)**

date	03-Oct-20	time	2.64	3.69	4.74	5.77	6.82	7.85	8.90	9.95	11.02	12.13	13.37	3 / 4			
reaction time	0.150	interval		1.05	1.05	1.03	1.05	1.03	1.05	1.05	1.07	1.11	1.24		3.13	3.13	3.23
wind	-0.1 m/s	velocity	4.92	8.10	8.10	8.25	8.10	8.25	8.10	8.10	7.94	7.66	8.10	7.48	8.15	8.15	7.89

*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers***FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)**

date	23-Aug-20	time	2.62	3.67	4.72	5.73	6.77	7.82	8.88	9.92	10.98	12.06	13.27	3 / 4			
reaction time	0.157	interval		1.05	1.05	1.01	1.04	1.05	1.06	1.04	1.06	1.08	1.21		3.11	3.15	3.18
wind	0.3 m/s	velocity	4.96	8.10	8.10	8.42	8.17	8.10	8.02	8.17	8.02	7.87	8.31	7.54	8.20	8.10	8.02

*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers***FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)**

date	19-May-19	time	2.63	3.65	4.68	5.69	6.71	7.74	8.76	9.83	10.90	12.01	13.22	1 / 7			
reaction time	0.148	interval		1.02	1.03	1.01	1.02	1.03	1.02	1.07	1.07	1.11	1.21	PB	3.06	3.07	3.25
wind	0.4 m/s	velocity	4.94	8.33	8.25	8.42	8.33	8.25	8.33	7.94	7.94	7.66	8.68	7.56	8.33	8.31	7.85

*Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps***FINAL - 2019 Kinami Memorial (Osaka, JPN)**

date	06-May-19	time	2.59	3.65	4.71	5.74	6.78	7.82	8.86	9.90	10.99	12.09	13.33	4 / 5			
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Matsubayashi (2019) - research on athlete performance and technique- 2019 data book

reaction time	interval	1.06	1.06	1.03	1.04	1.04	1.04	1.04	1.04	1.09	1.10	1.24	PB	3.15	3.12	3.23	
wind	0.6 m/s	velocity	5.02	8.02	8.02	8.25	8.17	8.17	8.17	8.17	7.80	7.73	8.47	7.50	8.10	8.17	7.89

A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)*Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

date	28-Apr-19	time	2.62	3.70	4.73	5.78	6.80	7.83	8.88	9.95	11.01	12.14	13.38	2 / 2			
reaction time	interval	1.08	1.03	1.05	1.02	1.03	1.05	1.07	1.06	1.13	1.24	PB		3.16	3.10	3.26	
wind	0.6 m/s	velocity	4.96	7.87	8.25	8.10	8.33	8.25	8.10	7.94	8.02	7.52	8.47	7.47	8.07	8.23	7.82

FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)*Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	06-May-18	time	2.70	3.77	4.82	5.87	6.93	7.98	9.03	10.11	11.18	12.28	13.47	5 / 4			
reaction time	interval	1.07	1.05	1.05	1.06	1.05	1.05	1.05	1.08	1.07	1.10	1.19			3.17	3.16	3.25
wind	-0.5 m/s	velocity	4.81	7.94	8.10	8.10	8.02	8.10	8.10	7.87	7.94	7.73	8.82	7.42	8.04	8.07	7.85

FINAL - 2017 Japanese National Championships (Osaka, JPN)*(2017) - tfdata-store.com/2017/07/19/post-1068/*

date	25-Jun-17	time	2.67	3.75	4.82	5.88	6.94	8.01	9.09	10.20	11.32	12.44	13.71	2 / 7			
reaction time	0.156	interval	1.08	1.07	1.06	1.06	1.07	1.08	1.11	1.12	1.12	1.27			3.21	3.21	3.35
wind	0.4 m/s	velocity	4.87	7.87	7.94	8.02	8.02	7.94	7.87	7.66	7.59	7.59	8.27	7.29	7.94	7.94	7.61

FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)*(2017) - tfdata-store.com/2017/05/13/post-441/*

date	11-May-17	time	2.66	3.76	4.84	5.92	6.98	8.04	9.12	10.20	11.31	12.43	13.70	6 / 1			
reaction time	interval	1.10	1.08	1.08	1.06	1.06	1.08	1.08	1.08	1.11	1.12	1.27			3.26	3.20	3.31
wind	-1.2 m/s	velocity	4.89	7.73	7.87	7.87	8.02	8.02	7.87	7.87	7.66	7.59	8.27	7.30	7.82	7.97	7.70

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	2.64	3.72	4.77	5.82	6.87	7.93	9.00	10.07	11.16	12.26	13.45	2 / 6			
reaction time	0.151	interval	1.08	1.05	1.05	1.05	1.06	1.07	1.07	1.09	1.10	1.19			3.18	3.18	3.26
wind	2.1 m/s	velocity	4.92	7.87	8.10	8.10	8.10	8.02	7.94	7.94	7.80	7.73	8.82	7.43	8.02	8.02	7.82

Semi-Final 3 - 2016 Japanese National Junior Championships (Mizuho, JPN)*(2016.10.22) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.67	3.76	4.86	5.91	6.98	8.05	9.13	10.20	11.27	12.39	13.65	4 / 1			
reaction time	interval	1.09	1.10	1.05	1.07	1.07	1.08	1.07	1.07	1.07	1.12	1.26			3.24	3.22	3.26
wind	0.9 m/s	velocity	4.87	7.80	7.73	8.10	7.94	7.94	7.87	7.94	7.94	7.59	8.33	7.33	7.87	7.92	7.82

Heat 4 - 2016 Japanese National Junior Championships (Mizuho, JPN)*(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.66	3.75	4.82	5.89	6.95	8.03	9.12	10.21	11.31	12.44	13.73	8 / 1			
reaction time	interval	1.09	1.07	1.07	1.06	1.08	1.09	1.09	1.09	1.10	1.13	1.29			3.23	3.23	3.32
wind	1.5 m/s	velocity	4.89	7.80	7.94	7.94	8.02	7.87	7.80	7.80	7.73	7.52	8.14	7.28	7.89	7.89	7.68

FINAL - 2016 Japanese National High School Championships (Okayama, JPN)*Kota (2016) - 69th high school championships: JAF scientific committee- biomechanics data*

date	02-Aug-16	time	2.64	3.71	4.78	5.84	6.89	7.94	9.00	10.09	11.18	12.26	13.50	7 / 1			
reaction time	0.156	interval	1.07	1.07	1.06	1.05	1.05	1.06	1.09	1.09	1.08	1.24			3.20	3.16	3.26
wind	1.5 m/s	velocity	4.92	7.94	7.94	8.02	8.10	8.10	8.02	7.80	7.80	7.87	8.47	7.41	7.97	8.07	7.82

Semi-Final 1 - 2016 IAAF World Junior Championships (Bydgoszcz, POL)*(2016.07.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	23-Jul-16	time	2.63	3.69	4.75	5.80	6.82	7.90	8.95	10.03	11.14	12.25	13.46	9 / 4			
reaction time	0.138	interval	1.06	1.06	1.05	1.02	1.08	1.05	1.08	1.11	1.11	1.21	PB		3.17	3.15	3.30
wind	0.6 m/s	velocity	4.94	8.02	8.02	8.10	8.33	7.87	8.10	7.87	7.66	7.66	8.68	7.43	8.04	8.10	7.73

FINAL - 2016 Kinki Area High School Championships (Kobe, JPN)*(2016.06.19) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	19-Jun-16	time	2.63	3.73	4.81	5.87	6.94	8.01	9.13	10.23	11.34	12.49	13.77	7 / 1			
reaction time	interval	1.10	1.08	1.06	1.07	1.07	1.12	1.10	1.11	1.11	1.15	1.28			3.24	3.26	3.36
wind	-0.6 m/s	velocity	4.94	7.73	7.87	8.02	7.94	7.94	7.59	7.73	7.66	7.39	8.20	7.26	7.87	7.82	7.59

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)*Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics data*

date	02-Aug-15	time	2.67	3.75	4.84	5.92	6.99	8.04	9.22	10.35	11.47	12.60	13.87	6 / 1			
reaction time	interval	1.08	1.09	1.08	1.07	1.05	1.18	1.13	1.12	1.13	1.27				3.25	3.30	3.38
wind	0.9 m/s	velocity	4.87	7.87	7.80	7.87	7.94	8.10	7.20	7.52	7.59	7.52	8.27	7.21	7.85	7.73	7.54

Tanaka, Yuzo (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 Junior Championships (Mizuho, JPN)***(2016.10.22) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.72	3.83	4.93	6.03	7.12	8.22	9.32	10.44	11.56	12.70	13.93	5 / 2			
reaction time	interval	1.11	1.10	1.10	1.09	1.10	1.10	1.10	1.10	1.12	1.14	1.23			3.31	3.29	3.38
wind	0.9 m/s	velocity	4.78	7.66	7.73	7.73	7.80	7.73	7.73	7.59	7.59	7.46	8.54	7.18	7.70	7.75	7.54

Tang Yuqing (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 - 2022 Chinese National Grand Prix (Huangshi, CHN)***Gong (2023) - research on the technical characteristics of outstanding women's 100m hurdlers in china*

date	13-Jul-22	time	2.84		6.11			9.36			12.80		14.12	1 / 5			
reaction time	interval			3.27			3.25			3.44	1.32				3.27	3.25	3.44
wind	-1.1 m/s	velocity	4.58		7.80			7.85			7.41	7.61	7.08		7.80	7.85	7.41

Taninaka, Tennka (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	2.66	3.71	4.76	5.81	6.86	7.90	8.99	10.07	11.18	12.30	13.54	5 / 3			
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reaction time	0.160	interval	1.05	1.05	1.05	1.05	1.04	1.09	1.08	1.11	1.12	1.24			3.15	3.18	3.31
wind	1.0 m/s	velocity	4.89	8.10	8.10	8.10	8.10	8.17	7.80	7.87	7.66	7.59	8.10	7.39	8.10	8.02	7.70

FINAL - 2022 Japanese National High School Championships (Naruto, JPN)*Kishima (2022) - national high school championships biomechanics data collection*

date	07-Aug-22	time	2.64	3.74	4.82	5.89	6.97	8.06	9.16	10.29	11.40	12.59	14.11	5 / 7			
reaction time	0.147	interval	1.10	1.08	1.07	1.08	1.09	1.10	1.13	1.11	1.19	1.52			3.25	3.27	3.43
wind	-1.5 m/s	velocity	4.92	7.73	7.87	7.94	7.87	7.80	7.73	7.52	7.66	7.14	6.61	7.09	7.85	7.80	7.43

Tapper, Megan (JAM) (1994)**FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)***Henson (2024) - Athlete First: 2024 year end hurdle report*

date	27-Apr-24	time	2.57	3.61	4.61	5.57	6.54	7.54	8.56	9.58	10.61	11.64	12.83	8 / 7			
reaction time	0.123	interval	1.04	1.00	0.96	0.97	1.00	1.02	1.02	1.03	1.03	1.19			3.00	2.99	3.08
wind	0.3 m/s	velocity	5.06	8.17	8.50	8.85	8.76	8.50	8.33	8.33	8.25	8.25	8.45	7.79	8.50	8.53	8.28

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

date	20-Apr-24	time	2.45	3.50	4.50	5.50	6.49	7.49	8.49	9.51	10.53	11.58	12.88	7 / 8			
reaction time	0.144	interval	1.05	1.00	1.00	0.99	1.00	1.00	1.02	1.02	1.05	1.30			3.05	2.99	3.09
wind	-0.2 m/s	velocity	5.31	8.10	8.50	8.50	8.59	8.50	8.50	8.33	8.33	8.10	7.73	7.76	8.36	8.53	8.25

FINAL - 2024 Millrose Games (New York, NY) (TV Analysis)*Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date	11-Feb-24	time	2.60	3.60	4.62	5.60	6.56						7.98	8 / 7			
reaction time	0.190	interval	1.00	1.02	0.98	0.96						1.42	PB		3.00		
		velocity	5.00	8.50	8.33	8.67	8.85					9.15	7.52		8.50		

FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)*Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date	04-Feb-24	time	2.55	3.60	4.62	5.62	6.58						8.02	7 / 7			
reaction time	0.189	interval	1.05	1.02	1.00	0.96						1.44	PB		3.07		
		velocity	5.10	8.10	8.33	8.50	8.85					9.03	7.48		8.31		

FINAL - 2023 Prefontaine Classic (Eugene, OR)*Omega Timing (2023) - diamond league race analysis*

date	17-Sep-23	time	2.43	3.47	4.46	5.42	6.37	7.32	8.28	9.25	10.24	11.24	12.48	9 / 5			
reaction time	0.148	interval	1.04	0.99	0.96	0.95	0.95	0.96	0.97	0.99	1.00	1.24			2.99	2.86	2.96
wind	1.8 m/s	velocity	5.35	8.17	8.59	8.85	8.95	8.95	8.85	8.76	8.59	8.50	8.10	8.01	8.53	8.92	8.61

FINAL - 2023 Weltklasse (Zürich, SUI)*Omega Timing (2023) - diamond league race analysis*

date	31-Aug-23	time	2.43	3.46	4.45	5.42	6.39	7.35	8.34	9.34	10.36	11.39	12.64	8 / 5			
reaction time	0.150	interval	1.03	0.99	0.97	0.97	0.96	0.99	1.00	1.02	1.03	1.25			2.99	2.92	3.05
wind	-0.2 m/s	velocity	5.35	8.25	8.59	8.76	8.76	8.85	8.59	8.50	8.33	8.25	8.04	7.91	8.53	8.73	8.36

Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	23-Aug-23	time	2.53	3.53	4.52	5.48	6.44	7.40	8.38	9.37	10.37	11.40	12.55	5 / 4			
reaction time	0.162	interval	1.00	0.99	0.96	0.96	0.96	0.98	0.99	1.00	1.03	1.15			2.95	2.90	3.02
wind	0.5 m/s	velocity	5.14	8.50	8.59	8.85	8.85	8.85	8.67	8.59	8.50	8.25	8.74	7.97	8.64	8.79	8.44

Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	22-Aug-23	time	2.58	3.58	4.56	5.53	6.50	7.45	8.42	9.38	10.36	11.41	12.51	3 / 2			
reaction time	0.168	interval	1.00	0.98	0.97	0.97	0.95	0.97	0.96	0.98	1.05	1.10			2.95	2.89	2.99
wind	0.4 m/s	velocity	5.04	8.50	8.67	8.76	8.76	8.95	8.76	8.85	8.67	8.10	9.14	7.99	8.64	8.82	8.53

FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)*Omega Timing (2023) - diamond league race analysis*

date	16-Jul-23	time	2.41	3.45	4.43	5.40	6.36	7.32	8.28	9.25	10.24	11.24	12.49	8 / 4			
reaction time	0.150	interval	1.04	0.98	0.97	0.96	0.96	0.96	0.97	0.99	1.00	1.25			2.99	2.88	2.96
wind	0.9 m/s	velocity	5.39	8.17	8.67	8.76	8.85	8.85	8.85	8.76	8.59	8.50	8.04	8.01	8.53	8.85	8.61

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	4.55	5.53	6.51	7.49	8.48	9.49	10.51	11.53	12.68	6 / 5			
reaction time	0.216	interval	1.04	0.98	0.98	0.98	0.98	0.99	1.01	1.02	1.02	1.15			3.00	2.95	3.05
wind	2.8 m/s	velocity	5.14	8.17	8.67	8.67	8.67	8.67	8.59	8.42	8.33	8.33	8.74	7.89	8.50	8.64	8.36

FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	21-May-23	time	2.53	3.54	4.49	5.44	6.39	7.37	8.34	9.32	10.33	11.35	12.47	6 / 4			
reaction time	0.183	interval	1.01	0.95	0.95	0.95	0.98	0.97	0.98	1.01	1.02	1.12			2.91	2.90	3.01
wind	3.5 m/s	velocity	5.14	8.42	8.95	8.95	8.95	8.67	8.76	8.67	8.42	8.33	8.97	8.02	8.76	8.79	8.47

FINAL - 2023 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	05-May-23	time	2.60	3.60	4.60	5.60	6.56	7.58	8.58	9.58	10.58	11.62	12.76	8 / 4			
reaction time	0.163	interval	1.00	1.00	1.00	0.96	1.02	1.00	1.00	1.00	1.04	1.14			3.00	2.98	3.04
wind	1.1 m/s	velocity	5.00	8.50	8.50	8.50	8.85	8.33	8.50	8.50	8.50	8.17	8.82	7.84	8.50	8.56	8.39

FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date	04-Sep-22	time	2.52	3.54	4.52	5.48	6.44	7.44	8.44	9.44	10.42	11.46	12.66	6 / 3			
reaction time	0.146	interval	1.02	0.98	0.96	0.96	1.00	1.00	1.00	0.98	1.04	1.20			2.96	2.96	3.02
wind	-0.3 m/s	velocity	5.16	8.33	8.67	8.85	8.85	8.50	8.50	8.50	8.67	8.17	8.38	7.90	8.61	8.61	8.44

FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis)

date	02-Sep-22	time	2.47	3.47	4.44	5.42	6.40	7.37	8.34	9.31	10.31	11.31	12.51	2 / 5			
reaction time	0.163	interval		1.00	0.97	0.98	0.98	0.97	0.97	0.97	1.00	1.00	1.20	PB	2.95	2.92	2.97
wind	0.1 m/s	velocity	5.26	8.50	8.76	8.67	8.67	8.76	8.76	8.76	8.50	8.50	8.38	7.99	8.64	8.73	8.59

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

FINAL - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)

date	07-Aug-22	time	2.52	3.52	4.48	5.44	6.40	7.38	8.36	9.36	10.40	11.44	12.67	4 / 4			
reaction time	0.154	interval		1.00	0.96	0.96	0.96	0.98	0.98	1.00	1.04	1.04	1.23		2.92	2.92	3.08
wind	-0.2 m/s	velocity	5.16	8.50	8.85	8.85	8.85	8.67	8.67	8.50	8.17	8.17	8.17	7.89	8.73	8.73	8.28

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

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

date	24-Jul-22	time	2.46	3.46	4.44	5.42	6.38	7.32	8.30	9.27	10.29	11.32	12.52	4 / 3			
reaction time	0.173	interval		1.00	0.98	0.98	0.96	0.94	0.98	0.97	1.02	1.03	1.20	PB	2.96	2.88	3.02
wind	-0.1 m/s	velocity	5.28	8.50	8.67	8.67	8.85	9.04	8.67	8.76	8.33	8.25	8.38	7.99	8.61	8.85	8.44

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

Heat 5 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

date	23-Jul-22	time	2.53	3.53	4.53	5.50	6.50	7.47	8.47	9.47	10.50	11.50	12.73	2 / 2			
reaction time	0.166	interval		1.00	1.00	0.97	1.00	0.97	1.00	1.00	1.03	1.00	1.23		2.97	2.97	3.03
wind	0.5 m/s	velocity	5.14	8.50	8.50	8.76	8.50	8.76	8.50	8.50	8.25	8.50	8.17	7.86	8.59	8.59	8.42

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

FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)

date	09-Jun-22	time	2.50	3.53	4.53	5.53	6.53	7.53	8.57	9.60	10.67	11.80	13.08	3 / 7			
reaction time	0.155	interval		1.03	1.00	1.00	1.00	1.00	1.04	1.03	1.07	1.13	1.28		3.03	3.04	3.23
wind	0.1 m/s	velocity	5.20	8.25	8.50	8.50	8.50	8.50	8.17	8.25	7.94	7.52	7.85	7.65	8.42	8.39	7.89

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

FINAL - 2022 Doha Diamond League (Doha, QAT) (TV Analysis)

date	13-May-22	time	2.52	3.58	4.60	5.60	6.58	7.57	8.56	9.58	10.61	11.67	12.92	3 / 8			
reaction time	0.153	interval		1.06	1.02	1.00	0.98	0.99	0.99	1.02	1.03	1.06	1.25		3.08	2.96	3.11
wind	3.8 m/s	velocity	5.16	8.02	8.33	8.50	8.67	8.59	8.59	8.33	8.25	8.02	8.04	7.74	8.28	8.61	8.20

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

FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)

date	08-May-22	time	2.66	3.71	4.73	5.73	6.76	7.78	8.80	9.86	10.92	12.02	13.30	6 / 5			
reaction time	0.186	interval		1.05	1.02	1.00	1.03	1.02	1.02	1.06	1.06	1.10	1.28		3.07	3.07	3.22
wind	-0.1 m/s	velocity	4.89	8.10	8.33	8.50	8.25	8.33	8.33	8.02	8.02	7.73	7.85	7.52	8.31	8.31	7.92

Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season

FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)

date	09-Sep-21	time	2.48	3.50	4.48	5.44	6.40	7.36	8.32	9.30	10.30	11.32	12.55	5 / 3			
reaction time	0.151	interval		1.02	0.98	0.96	0.96	0.96	0.96	0.98	1.00	1.02	1.23		2.96	2.88	3.00
wind	0.4 m/s	velocity	5.24	8.33	8.67	8.85	8.85	8.85	8.85	8.67	8.50	8.33	8.17	7.97	8.61	8.85	8.50

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

FINAL - 2021 Memorial van Damme (Brussels, BEL) (TV Analysis)

date	03-Sep-21	time	2.52	3.54	4.52	5.48	6.46	7.44	8.44	9.46	10.48	11.54	12.77	6 / 3			
reaction time	0.154	interval		1.02	0.98	0.96	0.98	0.98	1.00	1.02	1.02	1.06	1.23		2.96	2.96	3.10
wind	0.7 m/s	velocity	5.16	8.33	8.67	8.85	8.67	8.67	8.50	8.33	8.33	8.02	8.17	7.83	8.61	8.61	8.23

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

FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)

date	28-Aug-21	time	2.52	3.52	4.52	5.50	6.46	7.42	8.40	9.40	10.40	11.44	12.66	5 / 3			
reaction time	0.152	interval		1.00	1.00	0.98	0.96	0.96	0.98	1.00	1.00	1.04	1.22		2.98	2.90	3.04
wind	1.7 m/s	velocity	5.16	8.50	8.50	8.67	8.85	8.85	8.67	8.50	8.50	8.17	8.24	7.90	8.56	8.79	8.39

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

FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

date	02-Aug-21	time	2.48	3.48	4.46	5.42	6.38	7.34	8.30	9.30	10.30	11.32	12.55	9 / 3			
reaction time	0.166	interval		1.00	0.98	0.96	0.96	0.96	0.96	1.00	1.00	1.02	1.23		2.94	2.88	3.02
wind	-0.3 m/s	velocity	5.24	8.50	8.67	8.85	8.85	8.85	8.85	8.50	8.50	8.33	8.17	7.97	8.67	8.85	8.44

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

Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

date	01-Aug-21	time	2.58	3.61	4.58	5.53	6.49	7.45	8.44	9.44	10.44	11.47	12.62	4 / 2			
reaction time	0.155	interval		1.03	0.97	0.95	0.96	0.96	0.99	1.00	1.00	1.03	1.15		2.95	2.91	3.03
wind	-0.2 m/s	velocity	5.04	8.25	8.76	8.95	8.85	8.85	8.59	8.50	8.50	8.25	8.74	7.92	8.64	8.76	8.42

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

Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

date	31-Jul-21	time	2.56	3.57	4.54	5.50	6.47	7.43	8.39	9.37	10.37	11.37	12.53	5 / 2			
reaction time	0.163	interval		1.01	0.97	0.96	0.97	0.96	0.96	0.98	1.00	1.00	1.16	PB	2.94	2.89	2.98
wind	0.3 m/s	velocity	5.08	8.42	8.76	8.85	8.76	8.85	8.85	8.67	8.50	8.50	8.66	7.98	8.67	8.82	8.56

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

FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)

date	10-Jun-21	time	2.52	3.56	4.56	5.56	6.56	7.58	8.58	9.60	10.64	11.70	12.94	4 / 4			
reaction time	0.170	interval		1.04	1.00	1.00	1.00	1.02	1.00	1.02	1.04	1.06	1.24		3.04	3.02	3.12
wind	-0.8 m/s	velocity	5.16	8.17	8.50	8.50	8.50	8.33	8.50	8.33	8.17	8.02	8.10	7.73	8.39	8.44	8.17

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

FINAL - 2021 Müller Grand Prix (Gateshead, GBR) (TV Analysis)

date	23-May-21	time	2.60	3.64	4.70	5.76	6.82	7.88	8.96	10.04	11.14	12.24	13.53	1 / 5			
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Henson (2021) - Athlete First: 2021 year end hurdle report

reaction time	0.153	interval	1.04	1.06	1.06	1.06	1.06	1.08	1.08	1.10	1.10	1.29			3.16	3.20	3.28
wind	-3.9 m/s	velocity	5.00	8.17	8.02	8.02	8.02	8.02	7.87	7.87	7.73	7.73	7.79	7.39	8.07	7.97	7.77

FINAL - 2019 IAAF World Championships (Doha, QAT)

date	06-Oct-19	time	2.67	4.08										dnf			CAA Hurdle Development (2019)
reaction time	0.209	interval	10 step	1.41													
wind	0.3 m/s	velocity	4.87	6.03													

Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)

date	06-Oct-19	time	2.38	3.38	4.36	5.32	6.28	7.26	8.24	9.24	10.26	11.28			12.61			Henson (2020) - Athlete First: 2019 year end hurdle report
reaction time	0.175	interval	1.00	0.98	0.96	0.96	0.98	0.98	1.00	1.02	1.02	1.33			PB			4 / 2
wind	0.8 m/s	velocity	5.46	8.50	8.67	8.85	8.85	8.67	8.67	8.50	8.33	8.33	7.56	7.93				2.94 2.92 3.04
																		8.67 8.73 8.39

FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)

date	08-Aug-19	time	2.53	3.57	4.60	5.58	6.58	7.58	8.60	9.62	10.67	11.74			13.01			Henson (2020) - Athlete First: 2019 year end hurdle report
reaction time	0.199	interval	1.04	1.03	0.98	1.00	1.00	1.02	1.02	1.05	1.07	1.27						9 / 3
wind	0.1 m/s	velocity	5.14	8.17	8.25	8.67	8.50	8.50	8.33	8.33	8.10	7.94	8.27	7.69				3.05 3.02 3.14
																		8.36 8.44 8.12

FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)

date	20-Jul-19	time	2.48	3.48	4.44	5.42	6.40	7.40	8.40	9.42	10.42	11.48			12.66			Henson (2020) - Athlete First: 2019 year end hurdle report
reaction time	0.142	interval	1.00	0.96	0.98	0.98	1.00	1.00	1.02	1.00	1.06	1.18						5 / 4
wind	0.8 m/s	velocity	5.24	8.50	8.85	8.67	8.67	8.50	8.50	8.33	8.50	8.02	8.90	7.90				2.94 2.98 3.08
																		8.67 8.56 8.28

Simmonds, Megan (JAM) (1994)

Semi-Final 1 - 2017 IAAF World Championships (London, GBR)

date	11-Aug-17	time	2.41	3.45	4.47	5.49	6.49	7.46	8.48	9.50	10.55	11.62			12.93			Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles
reaction time	0.148	interval	1.04	1.02	1.02	1.00	0.97	1.02	1.02	1.05	1.07	1.31						5 / 4
wind	0.5 m/s	velocity	5.39	8.17	8.33	8.33	8.50	8.76	8.33	8.33	8.10	7.94	8.02	7.73				3.08 2.99 3.14
																		8.28 8.53 8.12

FINAL - 2017 Doha Diamond League (Doha, QAT) (TV Analysis)

date	05-May-17	time	2.52	3.52	4.56	5.60	6.60	7.62	8.66	9.72	10.80	11.88			13.13			Henson (2020) - Athlete First: 2017 year end hurdle report
reaction time	0.185	interval	1.00	1.04	1.04	1.00	1.02	1.04	1.06	1.08	1.08	1.25						8 / 5
wind	-2.3 m/s	velocity	5.16	8.50	8.17	8.17	8.50	8.33	8.17	8.02	7.87	7.87	8.40	7.62				3.08 3.06 3.22
																		8.28 8.33 7.92

FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)

date	01-Sep-16	time	2.56	3.56	4.58	5.58	6.56	7.56	8.56	9.58	10.62	11.66			12.90			Henson (2020) - Athlete First: 2016 year end hurdle report
reaction time	0.180	interval	1.00	1.02	1.00	0.98	1.00	1.00	1.02	1.04	1.04	1.24						8 / 6
wind	0.4 m/s	velocity	5.08	8.50	8.33	8.50	8.67	8.50	8.50	8.33	8.17	8.17	8.47	7.75				3.02 2.98 3.10
																		8.44 8.56 8.23

FINAL - 2016 Athletissima (Luusanne, SUI) (TV Analysis)

date	25-Aug-16	time	2.48	3.52	4.52	5.50	6.52	7.54	8.58	9.64	10.74	11.88			13.15			Henson (2020) - Athlete First: 2016 year end hurdle report
reaction time	0.174	interval	1.04	1.00	0.98	1.02	1.02	1.04	1.06	1.10	1.14	1.27						2 / 7
wind	0.7 m/s	velocity	5.24	8.17	8.50	8.67	8.33	8.33	8.17	8.02	7.73	7.46	8.27	7.60				3.02 3.08 3.30
																		8.44 8.28 7.73

Tarasova, Yuliya (UZB) (1986)

Heptathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)

date	15-Aug-09	time	2.85	3.98	5.08	6.20	7.30	8.41	9.54	10.69	11.84	13.02			14.23			Graubner (2009) - biomechanical analyses at the 12th IAAF world championships
reaction time	0.233	interval	1.13	1.10	1.12	1.10	1.11	1.13	1.15	1.15	1.18	1.21						8 / 7
wind	-0.2 m/s	velocity	4.56	7.52	7.73	7.59	7.73	7.66	7.52	7.39	7.39	7.20	8.68	7.03				3.35 3.34 3.48
																		7.61 7.63 7.33

Taylor, Charisma (BAH) (1999)

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

date	09-Aug-24	time	2.41	3.43	4.43	5.41	6.37	7.35	8.32	9.32	10.35	11.40			12.63			Paris 2024 Olympic Games - Results Book (2024)
reaction time	0.151	interval	7 steps	1.02	1.00	0.98	0.96	0.98	0.97	1.00	1.03	1.05	1.23					PB
wind	0.4 m/s	velocity	5.39	8.33	8.50	8.67	8.85	8.67	8.76	8.50	8.25	8.10	8.17	7.92				3.00 2.91 3.08
																		8.50 8.76 8.28

Heat 3 - 2024 Olympic Games (Paris, FRA)

date	07-Aug-24	time	2.45	3.48	4.49	5.47	6.45	7.44	8.44	9.45	10.48	11.53			12.78			Paris 2024 Olympic Games - Results Book (2024)
reaction time	0.150	interval	7 steps	1.03	1.01	0.98	0.98	0.99	1.00	1.01	1.03	1.05	1.25					3.02 2.97 3.09
wind	0.8 m/s	velocity	5.31	8.25	8.42	8.67	8.67	8.59	8.50	8.42	8.25	8.10	8.04	7.82				8.44 8.59 8.25

FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record

date	03-Mar-24	time	2.60	3.60	4.58	5.62	6.58								7.92			2 / 6
reaction time	0.139	interval	7 Steps	1.00	0.98	1.04	0.96											3.02
		velocity	5.00	8.50	8.67	8.17	8.85								1.34			8.44
															9.70			7.58

Taylor, Naomi (USA) (1998)

FINAL - 2020 Leonard Hilton Memorial Invitational (Houston, TX)

date	17-Jan-20	time	2.54	3.57	4.63	5.66	6.69								8.23			CAA Hurdle Development (2020)
reaction time		interval	1.03	1.06	1.03	1.03												4 / 1
		velocity	5.12	8.25	8.02	8.25	8.25								1.54			3.12
															8.44			8.17

FINAL - 2019 NCAA Indoor Championships (Birmingham, AL) (TV Analysis)

date	9-Mar-19	time	2.53	3.55	4.58	5.58	6.56								8.01			Henson (2020) - Athlete First: 2019 year end hurdle report
																		8 / 4

reaction time	0.170	interval	1.02	1.03	1.00	0.98								1.45		3.05
		velocity	5.14	8.33	8.25	8.50	8.67							8.97	7.49	8.36

Tebichova, Milena (TCH) (1962)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1987 European Cup (Prague, TCH)																	
date	28-Jun-87	time	2.64	3.75	4.80	5.88	6.92	8.00	9.08	10.16	11.28	12.40	13.58	8 / 6			
reaction time		interval		1.11	1.05	1.08	1.04	1.08	1.08	1.08	1.12	1.12	1.18		3.24	3.20	3.32
wind	-0.9m/s	velocity	4.92	7.66	8.10	7.87	8.17	7.87	7.87	7.87	7.59	7.59	8.90	7.36	7.87	7.97	7.68

Tejeda, Anay (CUB) (1983)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)																
date	13-Mar-10	time	2.58	3.60	4.59	5.57	6.55						7.91	4 / 4		
reaction time	0.144	interval		1.02	0.99	0.98	0.98					1.36		2.99		
		velocity	5.04	8.33	8.59	8.67	8.67					9.56	7.59	8.53		

Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)																	
date	19-Aug-09	time	2.64	3.69	4.70	5.68	6.66	7.66	8.66	9.68	10.68	11.71	12.82	6 / 4			
reaction time	0.163	interval		1.05	1.01	0.98	0.98	1.00	1.00	1.02	1.00	1.03	1.11		3.04	2.98	3.05
wind	0.1 m/s	velocity	4.92	8.10	8.42	8.67	8.67	8.50	8.50	8.33	8.50	8.25	9.46	7.80	8.39	8.56	8.36

Heat 5 - 2009 IAAF World Championships (Berlin, GER)																	
date	18-Aug-09	time	2.63	3.66	4.67	5.67	6.66	7.65	8.63	9.64	10.67	11.70	12.82	2 / 3			
reaction time	0.149	interval		1.03	1.01	1.00	0.99	0.99	0.98	1.01	1.03	1.03	1.12		3.04	2.96	3.07
wind	0.1 m/s	velocity	4.94	8.25	8.42	8.50	8.59	8.59	8.67	8.42	8.25	8.25	9.37	7.80	8.39	8.61	8.31

Tenka, Yanaka (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)																	
date	06-Aug-23	time	2.74	3.80	4.88	5.96	7.02	8.09	9.17	10.26	11.37	12.49	13.71	7 / 3			
reaction time	0.229	interval		1.06	1.08	1.08	1.06	1.07	1.08	1.09	1.11	1.12	1.22		3.22	3.21	3.32
wind	0.8 m/s	velocity	4.74	8.02	7.87	7.87	8.02	7.94	7.87	7.80	7.66	7.59	8.24	7.29	7.92	7.94	7.68

Terada, Asuka (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 - 2023 World Athletics Championships (Budapest, HUN)																	
date	22-Aug-23	time	2.62	3.67	4.71	5.73	6.75	7.77	8.80	9.85	10.90	11.99	13.15	1 / 6			
reaction time	0.153	interval		1.05	1.04	1.02	1.02	1.02	1.03	1.05	1.05	1.09	1.16		3.11	3.07	3.19
wind	0.0 m/s	velocity	4.96	8.10	8.17	8.33	8.33	8.33	8.25	8.10	8.10	7.80	8.66	7.60	8.20	8.31	7.99

FINAL - 2023 Japanese National Championships (Osaka, JPN)																	
date	03-Jun-23	time	2.58	3.62	4.62	5.61	6.62	7.62	8.63	9.66	10.71	11.77	12.95	6 / 1			
reaction time	0.149	interval		1.04	1.00	0.99	1.01	1.00	1.01	1.03	1.05	1.06	1.18		3.03	3.02	3.14
wind	-1.2 m/s	velocity	5.04	8.17	8.50	8.59	8.42	8.50	8.42	8.25	8.10	8.02	8.52	7.72	8.42	8.44	8.12

FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)																	
date	21-May-23	time	2.56	3.58	4.58	5.57	6.58	7.59	8.61	9.63	10.66	11.71	12.86	6 / 1			
reaction time	0.136	interval		1.02	1.00	0.99	1.01	1.01	1.02	1.02	1.03	1.05	1.15	=PB	3.01	3.04	3.10
wind	0.4 m/s	velocity	5.08	8.33	8.50	8.59	8.42	8.42	8.33	8.33	8.25	8.10	8.74	7.78	8.47	8.39	8.23

FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)																	
date	07-May-23	time	2.60	3.61	4.62	5.62	6.61	7.61	8.63	9.64	10.68	11.74	12.86	6 / 1			
reaction time	0.149	interval		1.01	1.01	1.00	0.99	1.00	1.02	1.01	1.04	1.06	1.12	PB	3.02	3.01	3.11
wind	0.7 m/s	velocity	5.00	8.42	8.42	8.50	8.59	8.50	8.33	8.42	8.17	8.02	8.97	7.78	8.44	8.47	8.20

FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)																	
date	08-May-22	time	2.59	3.66	4.70	5.72	6.73	7.75	8.75	9.80	10.84	11.92	13.07	3 / 4			
reaction time	0.152	interval		1.07	1.04	1.02	1.01	1.02	1.00	1.05	1.04	1.08	1.15		3.13	3.03	3.17
wind	-0.1 m/s	velocity	5.02	7.94	8.17	8.33	8.42	8.33	8.50	8.10	8.17	7.87	8.74	7.65	8.15	8.42	8.04

Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																	
date	01-Aug-21	time	2.51	3.54	4.57	5.61	6.63	7.65	8.66	9.71	10.77	11.84	13.06	3 / 6			
reaction time	0.163	interval		1.03	1.03	1.04	1.02	1.02	1.01	1.05	1.06	1.07	1.22		3.10	3.05	3.18
wind	-0.8 m/s	velocity	5.18	8.25	8.25	8.17	8.33	8.33	8.42	8.10	8.02	7.94	8.24	7.66	8.23	8.36	8.02

Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																	
date	31-Jul-21	time	2.53	3.56	4.61	5.67	6.66	7.67	8.68	9.73	10.76	11.79	12.95	4 / 5			
reaction time	0.164	interval		1.03	1.05	1.06	0.99	1.01	1.01	1.05	1.03	1.03	1.16		3.14	3.01	3.11
wind	0.3 m/s	velocity	5.14	8.25	8.10	8.02	8.59	8.42	8.42	8.10	8.25	8.25	8.66	7.72	8.12	8.47	8.20

FINAL - 2021 Japanese National Championships (Osaka, JPN)																	
date	27-Jun-21	time	2.61	3.67	4.69	5.71	6.72	7.74	8.78	9.81	10.87	11.96	13.09	6 / 1			
reaction time	0.147	interval		1.06	1.02	1.02	1.01	1.02	1.04	1.03	1.06	1.09	1.13		3.10	3.07	3.18
wind	0.0 m/s	velocity	4.98	8.02	8.33	8.33	8.42	8.33	8.17	8.25	8.02	7.80	8.89	7.64	8.23	8.31	8.02

FINAL - 2021 Fuse Sprint (Tottori, JPN)																

date	06-Jun-21	time	2.56	3.60	4.58	5.63	6.64	7.63	8.65	9.67	10.71	11.74		12.89	7 / 2			
reaction time	0.133	interval		1.04	0.98	1.05	1.01	0.99	1.02	1.02	1.04	1.03	1.15			3.07	3.02	3.09
wind	1.8 m/s	velocity	5.08	8.17	8.67	8.10	8.42	8.59	8.33	8.33	8.17	8.25	8.74	7.76		8.31	8.44	8.25
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)			<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>															
date	01-Jun-21	time	2.60	3.62	4.63	5.61	6.61	7.60	8.63	9.67	10.69	11.76		12.89	6 / 1			
reaction time	0.168	interval		1.02	1.01	0.98	1.00	0.99	1.03	1.04	1.02	1.07	1.13			3.01	3.02	3.13
wind	0.3 m/s	velocity	5.00	8.33	8.42	8.67	8.50	8.59	8.25	8.17	8.33	7.94	8.89	7.76		8.47	8.44	8.15
Heat 1 - 2021 Michitaka Kinami Memorial (Osaka, JPN)			<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>															
date	01-Jun-21	time	2.64	3.69	4.68	5.67	6.67	7.67	8.66	9.68	10.69	11.74		12.87	5 / 1			
reaction time	0.187	interval		1.05	0.99	0.99	1.00	1.00	0.99	1.02	1.01	1.05	1.13	NR PB		3.03	2.99	3.08
wind	0.6 m/s	velocity	4.92	8.10	8.59	8.59	8.50	8.50	8.59	8.33	8.42	8.10	8.89	7.77		8.42	8.53	8.28
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)			<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>															
date	09-May-21	time	2.58	3.63	4.65	5.66	6.66	7.67	8.70	9.73	10.79	11.86		12.99	5 / 1			
reaction time	0.134	interval		1.05	1.02	1.01	1.00	1.01	1.03	1.03	1.06	1.07	1.13			3.08	3.04	3.16
wind	-0.8 m/s	velocity	5.04	8.10	8.33	8.42	8.50	8.42	8.25	8.25	8.02	7.94	8.89	7.70		8.28	8.39	8.07
FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)			<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>															
date	29-Apr-21	time	2.59	3.65	4.65	5.64	6.64	7.62	8.68	9.72	10.76	11.81		12.96	5 / 1			
reaction time		interval		1.06	1.00	0.99	1.00	0.98	1.06	1.04	1.04	1.05	1.15	NR PB		3.05	3.04	3.13
wind	1.6 m/s	velocity	5.02	8.02	8.50	8.59	8.50	8.67	8.02	8.17	8.17	8.10	8.74	7.72		8.36	8.39	8.15
FINAL - 2020 Japanese National Championships (Niigata, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>															
date	03-Oct-20	time	2.62	3.68	4.71	5.72	6.74	7.77	8.79	9.83	10.88	11.96		13.14	4 / 2			
reaction time	0.154	interval		1.06	1.03	1.01	1.02	1.03	1.02	1.04	1.05	1.08	1.18			3.10	3.07	3.17
wind	-0.1 m/s	velocity	4.96	8.02	8.25	8.42	8.33	8.25	8.33	8.17	8.10	7.87	8.52	7.61		8.23	8.31	8.04
FINAL - 2020 Athlete Night Games (Fukui, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>															
date	29-Aug-20	time	2.61	3.63	4.64	5.65	6.65	7.66	8.67	9.69	10.73	11.78		12.93	/ 2			
reaction time		interval		1.02	1.01	1.01	1.00	1.01	1.01	1.02	1.04	1.05	1.15			3.04	3.02	3.11
wind	2.1 m/s	velocity	4.98	8.33	8.42	8.42	8.50	8.42	8.42	8.33	8.17	8.10	8.74	7.73		8.39	8.44	8.20
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>															
date	23-Aug-20	time	2.61	3.69	4.69	5.69	6.71	7.71	8.74	9.77	10.81	11.88		13.03	5 / 1			
reaction time	0.164	interval		1.08	1.00	1.00	1.02	1.00	1.03	1.03	1.04	1.07	1.15			3.08	3.05	3.14
wind	0.3 m/s	velocity	4.98	7.87	8.50	8.50	8.33	8.50	8.25	8.25	8.17	7.94	8.74	7.67		8.28	8.36	8.12
Heat 1 - 2019 IAAF World Championships (Doha, QAT)			<i>(2019) - http://tfdata-store.com/2019/09/02/post-1606/</i>															
date	05-Oct-19	time	2.66	3.69	4.72	5.74	6.76	7.79	8.82	9.88	10.94	12.03		13.20	5 / 5			
reaction time	0.170	interval		1.03	1.03	1.02	1.02	1.03	1.03	1.06	1.06	1.09	1.17			3.08	3.08	3.21
wind	0.3 m/s	velocity	4.89	8.25	8.25	8.33	8.33	8.25	8.25	8.02	8.02	7.80	8.59	7.58		8.28	8.28	7.94
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)			<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>															
date	01-Sep-19	time	2.58	3.62	4.62	5.63	6.63	7.65	8.67	9.70	10.76	11.82		12.97	4 / 1			
reaction time		interval		1.04	1.00	1.01	1.00	1.02	1.02	1.03	1.06	1.06	1.15	NR PB		3.05	3.04	3.15
wind	1.2 m/s	velocity	5.04	8.17	8.50	8.42	8.50	8.33	8.33	8.25	8.02	8.02	8.74	7.71		8.36	8.39	8.10
FINAL - 2019 Athlete Night Games (Fukui, JPN)			<i>(2019) - http://tfdata-store.com/2019/09/02/post-1606/</i>															
date	17-Aug-19	time	2.61	3.67	4.70	5.69	6.69	7.70	8.72	9.75	10.80	11.86		13.00	5 / 1			
reaction time		interval		1.06	1.03	0.99	1.00	1.01	1.02	1.03	1.05	1.06	1.14	NR		3.08	3.03	3.14
wind	1.4 m/s	velocity	4.98	8.02	8.25	8.59	8.50	8.42	8.33	8.25	8.10	8.02	8.82	7.69		8.28	8.42	8.12
FINAL - 2019 Corporate Team vs College Team (Hiratsukai, JPN)			<i>(2019) - http://tfdata-store.com/2019/09/02/post-1606/</i>															
date	27-Jul-19	time	2.63	3.68	4.71	5.73	6.73	7.75	8.77	9.80	10.84	11.90		13.07	2 / 1			
reaction time		interval		1.05	1.03	1.02	1.00	1.02	1.02	1.03	1.04	1.06	1.17			3.10	3.04	3.13
wind	1.3 m/s	velocity	4.94	8.10	8.25	8.33	8.50	8.33	8.33	8.25	8.17	8.02	8.59	7.65		8.23	8.39	8.15
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)			<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>															
date	29-Jun-19	time	2.61	3.66	4.69	5.70	6.73	7.76	8.80	9.84	10.92	11.98		13.16	5 / 3			
reaction time	0.172	interval		1.05	1.03	1.01	1.03	1.03	1.04	1.04	1.08	1.06	1.18			3.09	3.10	3.18
wind	0.6 m/s	velocity	4.98	8.10	8.25	8.42	8.25	8.25	8.17	8.17	7.87	8.02	8.90	7.60		8.25	8.23	8.02
FINAL - 2010 National Sports Festival (Chiba, JPN)			<i>(2017.03.26) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>															
date	04-Oct-10	time	2.63	3.67	4.70	5.71	6.73	7.76	8.78	9.82	10.88	11.95		13.12	4 / 1			
reaction time		interval		1.04	1.03	1.01	1.02	1.03	1.02	1.04	1.06	1.07	1.17			3.08	3.07	3.17
wind	0.5 m/s	velocity	4.94	8.17	8.25	8.42	8.33	8.25	8.33	8.17	8.02	7.94	8.97	7.62		8.28	8.31	8.04
FINAL - 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	2.47	3.53	4.57	5.60	6.62	7.65	8.67	9.70	10.74	11.79		13.05	3 / 1			
reaction time		interval		1.06	1.04	1.03	1.02	1.03	1.02	1.03	1.04	1.05	1.26	NJR / PB		3.13	3.07	3.12
wind	1.9 m/s	velocity	5.26	8.02	8.17	8.25	8.33	8.25	8.33	8.25	8.17	8.10	8.33	7.66		8.15	8.31	8.17

FINAL - 2008 Japanese National Championships (Kawasaki, JPN)

date	28-Jun-08	time	2.48	3.57	4.64	5.69	6.75	7.79	8.85	9.92	11.00	12.13	13.51	/ 1			
reaction time		interval		1.09	1.07	1.05	1.06	1.04	1.06	1.07	1.08	1.13	1.38		3.21	3.16	3.28
wind	-1.5 m/s	velocity	5.24	7.80	7.94	8.10	8.02	8.17	8.02	7.94	7.87	7.52	7.61	7.40	7.94	8.07	7.77

*Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles***FINAL - 2008 Miko Oda Memorial (Hiroshima, JPN)**

date	29-Apr-08	time	2.50	3.60	4.68	5.73	6.78	7.84	8.90	9.96	11.05	12.14	13.46	/ 2			
reaction time		interval		1.10	1.08	1.05	1.05	1.06	1.06	1.06	1.09	1.09	1.32		3.23	3.17	3.24
wind	-0.1 m/s	velocity	5.20	7.73	7.87	8.10	8.10	8.02	8.02	8.02	7.80	7.80	7.95	7.43	7.89	8.04	7.87

*Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles***Tezuka, Mai (JPN) (2001)**

		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	2.75	3.85	4.93	6.01	7.09	8.15	9.24	10.33	11.42	12.55	13.75	1 / 3			
reaction time	0.171	interval		1.10	1.08	1.08	1.08	1.06	1.09	1.09	1.09	1.13	1.20		3.26	3.23	3.31
wind	0.3 m/s	velocity	4.73	7.73	7.87	7.87	7.87	8.02	7.80	7.80	7.80	7.52	8.38	7.27	7.82	7.89	7.70

*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season***FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)**

date	08-Aug-19	time	2.71	3.84	4.93	6.01	7.14	8.27	9.41	10.56	11.72	12.88	14.15	6 / 3			
reaction time		interval		1.13	1.09	1.08	1.13	1.13	1.14	1.15	1.16	1.16	1.27		3.30	3.40	3.47
wind	-4.1 m/s	velocity	4.80	7.52	7.80	7.87	7.52	7.52	7.46	7.39	7.33	7.33	8.27	7.07	7.73	7.50	7.35

*Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data***Theele, Heike (GDR) (1964)**

		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)																	
date	27-Jun-86	time	2.58	3.60	4.60	5.58	6.57	7.54	8.53	9.51	10.52	11.53	12.63	/ 2			
reaction time		interval		1.02	1.00	0.98	0.99	0.97	0.99	0.98	1.01	1.01	1.10	PB	3.00	2.95	3.00
wind	1.4 m/s	velocity	5.04	8.33	8.50	8.67	8.59	8.76	8.59	8.67	8.42	8.42	9.55	7.92	8.50	8.64	8.50

*Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes***Theisen, Brianne (CAN) (1988)**

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)																	
date	15-Aug-09	time	2.76	3.84	4.91	5.99	7.06	8.14	9.22	10.30	11.40	12.50	13.69	5 / 4			
reaction time	0.159	interval		1.08	1.07	1.08	1.07	1.08	1.08	1.08	1.10	1.10	1.19		3.23	3.23	3.28
wind	-0.2 m/s	velocity	4.71	7.87	7.94	7.87	7.94	7.87	7.87	7.87	7.73	7.73	8.82	7.30	7.89	7.89	7.77

*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships***Thiam, Nafissatou (BEL) (1994)**

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)																	
date	08-Aug-24	time	2.56	3.65	4.71	5.76	6.81	7.86	8.92	10.00	11.09	12.21	13.56	7 / 5			
reaction time	0.168	interval	7 steps	1.09	1.06	1.05	1.05	1.05	1.06	1.08	1.09	1.12	1.35		3.20	3.16	3.29
wind	0.0 m/s	velocity	5.08	7.80	8.02	8.10	8.10	8.10	8.02	7.87	7.80	7.59	7.44	7.37	7.97	8.07	7.75

*Paris 2024 Olympic Games - Results Book (2024)***Heptathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)**

date	17-Jul-22	time	2.60	3.65	4.70	5.74	6.77	7.78	8.82	9.86	10.92	12.01	13.21	4 / 1				
reaction time	0.119	interval	7 steps	1.05	1.05	1.04	1.03	1.01	1.04	1.04	1.04	1.06	1.09	1.20	PB	3.14	3.08	3.19
wind	1.4 m/s	velocity	5.00	8.10	8.10	8.17	8.25	8.42	8.17	8.17	8.02	7.80	8.37	7.57	8.12	8.28	7.99	

*Henson (2024) - Athlete First: 2022 year end hurdle report***Heptathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)**

date	04-Aug-21	time	2.68	3.74	4.82	5.86	6.91	7.94	9.03	10.11	11.20	12.31	13.54	8 / 3			
reaction time	0.156	interval		1.06	1.08	1.04	1.05	1.03	1.09	1.08	1.09	1.11	1.23		3.18	3.17	3.28
wind	0.2 m/s	velocity	4.85	8.02	7.87	8.17	8.10	8.25	7.80	7.87	7.80	7.66	8.17	7.39	8.02	8.04	7.77

*Henson (2024) - Athlete First: 2021 year end hurdle report***Thomas, Vashti (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 - 2013 Windsprint (Sundsvall, SWE)																	
date	28-Jul-13	time	2.59	3.62	4.67	5.70	6.72	7.74	8.78	9.81	10.85	11.91	13.11	4 / 2			
reaction time		interval		1.03	1.05	1.03	1.02	1.02	1.04	1.03	1.04	1.06	1.20		3.11	3.08	3.13
wind	1.2 m/s	velocity	5.02	8.25	8.10	8.25	8.33	8.33	8.17	8.25	8.17	8.02	8.75	7.63	8.20	8.28	8.15

*(2013) - www.ssg.se/windsprint/Splittider/***Thompson, Yanique (JAM) (1996)**

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat A - 2024 Kamila Skolimowska Memorial (Silesia, POL)																	
date	25-Aug-24	time	2.55	3.72	4.81	5.81	6.81	7.79	8.79	9.78	10.80	11.85	13.17	3 / 7			
reaction time	0.147	interval		1.17	1.09	1.00	1.00	0.98	1.00	0.99	1.02	1.05	1.32		3.26	2.98	3.06
wind	-0.3 m/s	velocity	5.10	7.26	7.80	8.50	8.50	8.67	8.50	8.59	8.33	8.10	7.61	7.59	7.82	8.56	8.33

*Omega Timing (2024) - diamond league race analysis***Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)**

date	01-Aug-21	time	2.51	3.51	4.51	5.48	6.46	7.46									
reaction time	0.145	interval		1.00	1.00	0.97	0.98	1.00									
wind	-0.8 m/s	velocity	5.18	8.50	8.50	8.76	8.67	8.50									

*Henson (2024) - Athlete First: 2021 year end hurdle report***Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)**

date	31-Jul-21	time	2.61	3.61	4.60	5.58	6.54	7.49	8.49	9.50	10.54	11.57	12.74	8 / 2			
reaction time	0.147	interval		1.00	0.99	0.98	0.96	0.95	1.00	1.01	1.04	1.03	1.17		2.97	2.91	3.08
wind	0.4 m/s	velocity	4.98	8.50	8.59	8.67	8.85	8.95	8.50	8.42	8.17	8.25	8.59	7.85	8.59	8.76	8.28

*Henson (2024) - Athlete First: 2021 year end hurdle report***FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)***Henson (2020) - Athlete First: 2020 year end hurdle report*

date	25-Sep-20	time	2.60	3.66	4.76	5.83	6.86	7.90	8.93	10.00	11.06	12.20		13.52	6 / 8														
reaction time	0.144	interval		1.06	1.10	1.07	1.03	1.04	1.03	1.07	1.06	1.14	1.32			3.23	3.10	3.27											
wind	1.1 m/s	velocity	5.00	8.02	7.73	7.94	8.25	8.17	8.25	7.94	8.02	7.46	7.61	7.40		7.89	8.23	7.80											
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	06-Oct-19	time	2.44	3.48	4.50	5.50	6.46	7.42	8.42	9.42	10.42	11.42		12.80	6 / 3														
reaction time	0.150	interval		1.04	1.02	1.00	0.96	0.96	1.00	1.00	1.00	1.00	1.38			3.06	2.92	3.00											
wind	0.8 m/s	velocity	5.33	8.17	8.33	8.50	8.85	8.85	8.50	8.50	8.50	8.50	7.28	7.81		8.33	8.73	8.50											
FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	08-Aug-19	time	2.51	3.59	4.63	5.63	6.65	7.67	8.67	9.67	10.72	11.77		13.11	6 / 4														
reaction time	0.178	interval		1.08	1.04	1.00	1.02	1.02	1.00	1.00	1.05	1.05	1.34			3.12	3.04	3.10											
wind	0.1 m/s	velocity	5.18	7.87	8.17	8.50	8.33	8.33	8.50	8.50	8.10	8.10	7.84	7.63		8.17	8.39	8.23											
FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	13-Jul-18	time	2.56	3.58	4.62	5.62	6.62	7.62	8.60	9.62	10.62	11.64		12.93	1 / 8														
reaction time	0.155	interval		1.02	1.04	1.00	1.00	1.00	0.98	1.02	1.00	1.02	1.29			3.06	2.98	3.04											
wind	0.1 m/s	velocity	5.08	8.33	8.17	8.50	8.50	8.50	8.67	8.33	8.50	8.33	8.14	7.73		8.33	8.56	8.39											
FINAL - 2018 Spitzten Leichtathletik (Luzern, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	09-Jul-18	time	2.58	3.60	4.60	5.58	6.54	7.52	8.58	9.64	10.70	11.74		13.00	1 / 7														
reaction time		interval		1.02	1.00	0.98	0.96	0.98	1.06	1.06	1.06	1.04	1.26			3.00	3.00	3.16											
wind	0.9 m/s	velocity	5.04	8.33	8.50	8.67	8.85	8.67	8.02	8.02	8.02	8.17	8.33	7.69		8.50	8.50	8.07											
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>															
date	11-Aug-17	time	2.49	3.55	4.57	5.58	6.58	7.55	8.55	9.56	10.57	11.61		12.88	7 / 3														
reaction time	0.143	interval		1.06	1.02	1.01	1.00	0.97	1.00	1.01	1.01	1.04	1.27			3.09	2.97	3.06											
wind	0.5 m/s	velocity	5.22	8.02	8.33	8.42	8.50	8.76	8.50	8.42	8.42	8.17	8.27	7.76		8.25	8.59	8.33											
Thorp, Angela (GBR) (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	2.69	3.76	4.76	5.79	6.81	7.87	8.89	9.92	10.95	12.03		13.16	1 / 3														
reaction time		interval		1.07	1.00	1.03	1.02	1.06	1.02	1.03	1.03	1.08	1.13			3.10	3.10	3.14											
wind	0.7 m/s	velocity	4.83	7.94	8.50	8.25	8.33	8.02	8.33	8.25	8.25	7.87	9.29	7.60		8.23	8.23	8.12											
Tillack, Heike (GDR) (1968)														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)														<i>Miskos (1986) - IAAF biomechanical research - Athens 1986 - hurdle races</i>															
date	19-Jul-86	time	2.68	3.74	4.76	5.77	6.79	7.78	8.80	9.79	10.86	11.93		13.10	1 / 1														
reaction time		interval		1.06	1.02	1.01	1.02	0.99	1.02	0.99	1.07	1.07	1.17	CR		3.09	3.03	3.13											
wind	-0.7 m/s	velocity	4.85	8.02	8.33	8.42	8.33	8.59	8.33	8.59	7.94	7.94	8.97	7.63		8.25	8.42	8.15											
Tjin-A-Lim, Maayke (NED) (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 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	09-Aug-24	time	2.50	3.56	4.59	5.59	6.59	7.60	8.62	9.64	10.68	11.73		13.03	2 / 7														
reaction time	0.152	interval	7 steps	1.06	1.03	1.00	1.00	1.01	1.02	1.02	1.04	1.05	1.30			3.09	3.03	3.11											
wind	-0.7 m/s	velocity	5.20	8.02	8.25	8.50	8.50	8.42	8.33	8.33	8.17	8.10	7.73	7.67		8.25	8.42	8.20											
Repechage 1 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	08-Aug-24	time	2.49	3.55	4.57	5.57	6.55	7.53	8.54	9.55	10.57	11.61		12.87	5 / 2														
reaction time	0.161	interval	7 steps	1.06	1.02	1.00	0.98	0.98	1.01	1.01	1.02	1.04	1.26			3.08	2.97	3.07											
wind	0.1 m/s	velocity	5.22	8.02	8.33	8.50	8.67	8.67	8.42	8.42	8.33	8.17	7.98	7.77		8.28	8.59	8.31											
Heat 1 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	07-Aug-24	time	2.51	3.58	4.60	5.59	6.59	7.60	8.62	9.64	10.68	11.72		12.98	5 / 7														
reaction time	0.151	interval	7 steps	1.07	1.02	0.99	1.00	1.01	1.02	1.02	1.04	1.04	1.26			3.08	3.03	3.10											
wind	-0.1 m/s	velocity	5.18	7.94	8.33	8.59	8.50	8.42	8.33	8.33	8.17	8.17	7.98	7.70		8.28	8.42	8.23											
Heat 2 - 2024 FBK Games (Hengelo, NED)														<i>Omega Timing (2024) - continental tour gold race analysis</i>															
date	07-Jul-24	time	2.43	3.49	4.49	5.50	6.51	7.53	8.55	9.56	10.59	11.64		12.91	3 / 5														
reaction time	0.108	interval		1.06	1.00	1.01	1.01	1.02	1.02	1.01	1.03	1.05	1.27			3.07	3.05	3.09											
wind	0.3 m/s	velocity	5.35	8.02	8.50	8.42	8.42	8.33	8.33	8.42	8.25	8.10	7.91	7.75		8.31	8.36	8.25											
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>															
date	23-Aug-23	time	2.57	3.60	4.63	5.63	6.64	7.66	8.68	9.72	10.76	11.82		13.05	2 / 7														
reaction time	0.135	interval		1.03	1.03	1.00	1.01	1.02	1.02	1.04	1.04	1.06	1.23			3.06	3.05	3.14											
wind	0.5 m/s	velocity	5.06	8.25	8.25	8.50	8.42	8.33	8.33	8.17	8.17	8.02	8.17	7.66		8.33	8.36	8.12											
Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>															
date	22-Aug-23	time	2.56	3.63	4.63	5.65	6.65	7.65	8.65	9.68	10.70	11.75		12.92	2 / 5														
reaction time	0.155	interval		1.07	1.00	1.02	1.00	1.00	1.00	1.03	1.02	1.05	1.17			3.09	3.00	3.10											
wind	0.4 m/s	velocity	5.08	7.94	8.50	8.33	8.50	8.50	8.50	8.25	8.33	8.10	8.59	7.74		8.25	8.50	8.23											
FINAL - 2023 FBK Games (Hengelo, NED)														<i>Omega Timing (2023) - continental tour race analysis</i>															

date	04-Jun-23	time	2.50	3.58	4.62	5.65	6.67	7.69	8.72	9.76	10.81	11.87		13.16	2 / 7			
reaction time	0.149	interval		1.08	1.04	1.03	1.02	1.02	1.03	1.04	1.05	1.06	1.29			3.15	3.07	3.15
wind	0.2 m/s	velocity	5.20	7.87	8.17	8.25	8.33	8.33	8.25	8.17	8.10	8.02	7.79	7.60		8.10	8.31	8.10

Toki, Asaki (JPN)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
U18 FINAL - 2018 National Sports Festival (Fukui, JPN) (76cm)																		
<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>																		
date	07-Oct-18	time	2.70	3.77	4.84	5.90	6.97	8.06	9.15	10.26	11.38	12.52		13.77	5 / 3			
reaction time	0.164	interval		1.07	1.07	1.06	1.07	1.09	1.09	1.11	1.12	1.14	1.25			3.20	3.25	3.37
wind	2.0 m/s	velocity	4.81	7.94	7.94	8.02	7.94	7.80	7.80	7.66	7.59	7.46	8.40	7.26		7.97	7.85	7.57

Tolbert-Goode, Lynda (USA) (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	31-Jul-96	time	2.43	3.50	4.52	5.52	6.55	7.58	8.62	9.65	10.72	11.80		13.11	7 / 8-7			
reaction time	0.175	interval		1.07	1.02	1.00	1.03	1.03	1.04	1.03	1.07	1.08	1.31			3.09	3.10	3.18
wind	0.2 m/s	velocity	5.35	7.94	8.33	8.50	8.25	8.25	8.17	8.25	7.94	7.87	8.02	7.63		8.25	8.23	8.02

FINAL - 1996 USA Olympic Trials (Atlanta, GA)

	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 (1996)</i>																		
date	23-Jun-96	time	2.24	3.31	4.34	5.35	6.33	7.31	8.31	9.28	10.30	11.31		12.69	5 / 2			
reaction time		interval		1.07	1.03	1.01	0.98	0.98	1.00	0.97	1.02	1.01	1.38			3.11	2.96	3.00
wind	0.6 m/s	velocity	5.80	7.94	8.25	8.42	8.67	8.67	8.50	8.76	8.33	8.42	7.61	7.88		8.20	8.61	8.50

Quarter-Final 2 - 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		
<i>Lyle - miscellaneous coaching notes</i>																		
date	05-Aug-92	time	2.56	3.59	4.57	5.56	6.55	7.55	8.55	9.55	10.58	11.63		12.96	5 / 2			
reaction time		interval		1.03	0.98	0.99	0.99	1.00	1.00	1.00	1.03	1.05	1.33			3.00	2.99	3.08
wind	1.4 m/s	velocity	5.08	8.25	8.67	8.59	8.59	8.50	8.50	8.50	8.25	8.10	7.89	7.72		8.50	8.53	8.28

Heat 5 - 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		
<i>Lyle - miscellaneous coaching notes</i>																		
date	05-Aug-92	time	2.58	3.62	4.64	5.63	6.62	7.62	8.63	9.66	10.71	11.80		12.96	5 / 1			
reaction time		interval		1.04	1.02	0.99	0.99	1.00	1.01	1.03	1.05	1.09	1.16			3.05	3.00	3.17
wind	0.7 m/s	velocity	5.04	8.17	8.33	8.59	8.59	8.50	8.42	8.25	8.10	7.80	9.05	7.72		8.36	8.50	8.04

Tolbert, Lynda (USA) (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)																		
<i>Gill (1990) - atletismo (I) carreras y marcha</i>																		
date	09-Sep-89	time	2.57	3.61	4.62	5.64	6.64	7.65	8.68	9.69	10.72	11.77		12.86	1 / 3			
reaction time		interval		1.04	1.01	1.02	1.00	1.01	1.03	1.01	1.03	1.05	1.09			3.07	3.04	3.09
wind	-0.33 m/s	velocity	5.06	8.17	8.42	8.33	8.50	8.42	8.25	8.42	8.25	8.10	9.63	7.78		8.31	8.39	8.25

Tomicic Prezelj, Joni (SLO) (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 Memorial Van Damme (Brussels, BEL) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																		
date	04-Sep-20	time	2.67	3.73	4.80	5.87	6.93	7.97	9.07	10.13	11.23	12.33		13.64	8 / 5			
reaction time		interval		1.06	1.07	1.07	1.06	1.04	1.10	1.06	1.10	1.10	1.31			3.20	3.20	3.26
wind	-0.2 m/s	velocity	4.87	8.02	7.94	7.94	8.02	8.17	7.73	8.02	7.73	7.73	7.67	7.33		7.97	7.97	7.82

Tomková, Helena (CZE) (1992)

	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)																		
<i>Fehér (2014) - Final report from the Czech Republic national championships</i>																		
date	02-Aug-14	time	2.81	3.91	4.98	6.05	7.11	8.18	9.27	10.35	11.45	12.56		13.76	6 / 3			
reaction time	0.176	interval		1.10	1.07	1.07	1.06	1.07	1.09	1.08	1.10	1.11	1.20			3.24	3.22	3.29
wind	0.4 m/s	velocity	4.63	7.73	7.94	7.94	8.02	7.94	7.80	7.87	7.73	7.66	8.75	7.27		7.87	7.92	7.75

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		
<i>Fehér (2014) - Final report from the Czech Republic national championships</i>																		
date	02-Aug-14	time	2.89	4.04	5.12	6.26	7.35	8.44	9.52	10.62	11.74	12.90		14.07	6 / 2			
reaction time	0.178	interval		1.15	1.08	1.14	1.09	1.09	1.08	1.10	1.12	1.16	1.17			3.37	3.26	3.38
wind	-1.0 m/s	velocity	4.50	7.39	7.87	7.46	7.80	7.80	7.87	7.73	7.59	7.33	8.97	7.11		7.57	7.82	7.54

FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
<i>Fehér (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>																	
date	25-Feb-12	time	2.75	3.85	4.97	6.06	7.15							8.60	3 / 2		
reaction time	0.118	interval		1.10	1.12	1.09	1.09					1.45		PB		3.31	
		velocity	4.73	7.73	7.59	7.80	7.80					8.97	6.98			7.70	

Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
<i>Fehér (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>																	
date	25-Feb-12	time	2.78	3.89	5.00	6.08	7.18							8.67	3 / 2		
reaction time	0.146	interval		1.11	1.11	1.08	1.10					1.49				3.30	
		velocity	4.68	7.66	7.66	7.87	7.73					8.72	6.92			7.73	

Tong Menghui (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)																		
<i>CAA Hurdle Development (2019)</i>																		
date	14-Aug-19	time	2.77	3.90	5.02	6.16	7.29	8.42	9.57	10.73	11.89	13.11		14.43	7 / 5			
reaction time	0.152	interval		1.13	1.12	1.14	1.13	1.13	1.15	1.16	1.16	1.22	1.32			3.39	3.41	3.54
wind	0.5 m/s	velocity	4.69	7.52	7.59	7.46	7.52	7.52	7.39	7.33	7.33	6.97	7.95	6.93		7.52	7.48	7.20

Töth, Anna (HUN) (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 ISTAF (Berlin, GER) (TV Analysis)																		
<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>																		
date	04-Sep-22	time	2.68	3.76	4.80	5.84	6.88	7.92	8.96	10.00	11.08	12.16		13.43	8 / 7			
reaction time	0.165	interval		1.08	1.04	1.04	1.04	1.04	1.04	1.04	1.08	1.08	1.27			3.16	3.12	3.20

wind	-0.3 m/s	velocity	4.85	7.87	8.17	8.17	8.17	8.17	8.17	8.17	8.17	7.87	7.87	7.91	7.45	8.07	8.17	7.97
Tran Thi Yen Hao (VIE) (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 Asian Grand Prix 2 (Chongqing, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	07-Jun-19	time	2.60	3.70	4.78	5.83	6.90	7.94	8.99	10.14	11.27	12.39		13.61	6 / 6			
reaction time	0.165	interval	1.10	1.08	1.05	1.07	1.04	1.05	1.15	1.13	1.12	1.22				3.23	3.16	3.40
wind	2.3 m/s	velocity	5.00	7.73	7.87	8.10	7.94	8.17	8.10	7.39	7.52	7.59	8.61	7.35		7.89	8.07	7.50
FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	04-Jun-19	time	2.61	3.71	4.80	5.87	6.95	8.04	9.12	10.22	11.32	12.47		13.67	6 / 5			
reaction time	0.167	interval	1.10	1.09	1.07	1.08	1.09	1.08	1.10	1.10	1.10	1.15	1.20			3.26	3.25	3.35
wind	-1.2 m/s	velocity	4.98	7.73	7.80	7.94	7.87	7.80	7.87	7.73	7.73	7.39	8.75	7.32		7.82	7.85	7.61
Troppa, Claudia (ESP) (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)			<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>															
date	24-Jun-07	time	2.78	3.85	4.97	6.04	7.12	8.18	9.26	10.33	11.42	12.54		13.77	1 / 8			
reaction time	0.147	interval	1.07	1.12	1.07	1.08	1.06	1.08	1.07	1.09	1.12	1.23				3.26	3.22	3.28
wind	0.9 m/s	velocity	4.68	7.94	7.59	7.94	7.87	8.02	7.87	7.94	7.80	7.59	8.54	7.26		7.82	7.92	7.77
Truwant, Véronique (FRA) (1965)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	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	25-Jan-86	time	2.67	3.78	4.88	5.93	7.01							8.46	1 / 6			
reaction time		interval	1.11	1.10	1.05	1.08							1.45			3.26		
		velocity	4.87	7.66	7.73	8.10	7.87						8.97	7.09		7.82		
Heat ? - 1986 French National Indoor Championships (Lievin, FRA)			<i>Aubert (1986) - indoor - video - haies, etude des performances</i>															
date	25-Jan-86	time	2.74	3.85	4.93	5.98	7.07							8.51	1 / 6			
reaction time		interval	1.11	1.08	1.05	1.09							1.44			3.24		
		velocity	4.74	7.66	7.87	8.10	7.80						9.03	7.05		7.87		
Trywiańska-Kollasch, Aurelia (POL) (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 1 - 2008 Olympic Games (Beijing, CHN)			<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>															
date	18-Aug-08	time	2.56	3.69	4.70	5.72	6.73	7.75	8.75	9.76	10.79	11.84		12.96	3 / 5			
reaction time	0.118	interval	1.13	1.01	1.02	1.01	1.02	1.00	1.01	1.03	1.05	1.12				3.16	3.03	3.09
wind	0.2 m/s	velocity	5.08	7.52	8.42	8.33	8.42	8.33	8.50	8.42	8.25	8.10	9.37	7.72		8.07	8.42	8.25
Trywiańska, Aurelia (POL) (1976)			<i>Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles</i>															
date	05-May-07	time	2.52	3.57	4.59	5.59	6.59	7.60	8.60	9.62	10.64	11.68		12.93	1 / 4			
reaction time		interval	1.05	1.02	1.00	1.00	1.01	1.00	1.02	1.02	1.04	1.25				3.07	3.01	3.08
wind	0.0 m/s	velocity	5.16	8.10	8.33	8.50	8.50	8.42	8.50	8.33	8.33	8.17	8.40	7.73		8.31	8.47	8.28
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	2.47	3.51	4.52	5.51	6.49	7.48	8.48	9.49	10.53	11.57		12.83	1 / 1			
reaction time		interval	1.04	1.01	0.99	0.98	0.99	1.00	1.01	1.04	1.04	1.26				3.04	2.97	3.09
wind	1.4 m/s	velocity	5.26	8.17	8.42	8.59	8.67	8.59	8.50	8.42	8.17	8.17	8.33	7.79		8.39	8.59	8.25
Tsuchiya, Honoka (JPN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U18 FINAL - 2018 National Sports Festival (Fukui, JPN) (76cm)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>															
date	07-Oct-18	time	2.72	3.80	4.89	5.95	7.06	8.14	9.23	10.35	11.48	12.60		13.83	3 / 5			
reaction time	0.167	interval	1.08	1.09	1.06	1.11	1.08	1.09	1.12	1.13	1.12	1.23				3.23	3.28	3.37
wind	2.0 m/s	velocity	4.78	7.87	7.80	8.02	7.66	7.87	7.80	7.59	7.52	7.59	8.54	7.23		7.89	7.77	7.57
Turpin, Esther (FRA) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>															
date	19-Aug-23	time	2.70	3.73	4.75	5.75	6.80	7.83	8.85	9.90	10.96	12.08		13.24	3 / 4			
reaction time	0.172	interval	1.03	1.02	1.00	1.05	1.03	1.02	1.05	1.06	1.12	1.16				3.05	3.10	3.23
wind	0.4 m/s	velocity	4.81	8.25	8.33	8.50	8.10	8.25	8.33	8.10	8.02	7.59	8.66	7.55		8.36	8.23	7.89
Tuvsesson, Emma (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 - 2013 Windsprint (Sundsvall, SWE)			<i>(2013) - www.ssg.se/windsprint/Splittider/</i>															
date	28-Jul-13	time	2.78	3.89	5.03	6.11	7.19	8.25	9.33	10.42	11.53	12.65		13.90	6 / 4			
reaction time		interval	1.11	1.14	1.08	1.08	1.06	1.08	1.09	1.11	1.12	1.25				3.33	3.22	3.32
wind	1.2 m/s	velocity	4.68	7.66	7.46	7.87	7.87	8.02	7.87	7.80	7.66	7.59	8.40	7.19		7.66	7.92	7.68
FINAL - 2011 Windsprint (Sundsvall, SWE)			<i>Blomkvist (2011) - www.sub13.se</i>															
date	31-Jul-11	time	2.73	3.80	4.85	5.92	6.97	8.02	9.06	10.11	11.17	12.25		13.43	1 / 3			
reaction time		interval	1.07	1.05	1.07	1.05	1.05	1.04	1.05	1.06	1.08	1.18				3.19	3.14	3.19
wind	1.4 m/s	velocity	4.76	7.94	8.10	7.94	8.10	8.10	8.17	8.10	8.02	7.87	8.90	7.45		7.99	8.12	7.99
Race 1 - 2011 European Team Championships (Stockholm, SWE)			<i>Blomkvist (2011) - www.sub13.se</i>															
date	19-Jun-11	time	2.68	3.76	4.84	5.90	6.96	8.03	9.10	10.18	11.24	12.32		13.62	1 / 5			
reaction time	0.195	interval	1.08	1.08	1.06	1.06	1.07	1.07	1.08	1.06	1.08	1.30				3.22	3.20	3.22
wind	-1.0 m/s	velocity	4.85	7.87	7.87	8.02	8.02	7.94	7.94	7.87	8.02	7.87	8.08	7.34		7.92	7.97	7.92

FINAL - 2011 Landskamp FIN-SWE-NOR (Tammefors, FIN)

date	05-Feb-11	time	2.58	3.68	4.76	5.82	6.88							8.40					<i>Blomkvist (2011) - www.sub13.se / 5</i>
reaction time		interval		1.10	1.08	1.06	1.06							1.52					3.24
		velocity	5.04	7.73	7.87	8.02	8.02							8.55	7.14				7.87

FINAL - 2010 Swedish National Championships (Falun, SWE)

date	22-Aug-10	time	2.77	3.89	4.97	6.04	7.11	8.15	9.23	10.32	11.41	12.50			13.71					<i>Blomkvist (2010) - www.sub13.se / 2</i>	
reaction time		interval		1.12	1.08	1.07	1.07	1.04	1.08	1.09	1.09	1.09	1.21						3.27	3.19	3.27
wind	-0.2 m/s	velocity	4.69	7.59	7.87	7.94	7.94	8.17	7.87	7.80	7.80	7.80	8.68		7.29				7.80	7.99	7.80

Tuzzi, Carla (ITA) (1967)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		<i>Jung (2003) - http://www.fgs.uni-halle.de</i>		
FINAL - 1997 European Cup (Munich, GER)																					
date	22-Jun-97	time	2.68	3.76	4.80	5.81	6.84	7.84	8.87	9.95	11.00	12.10			13.23					<i>/ 4</i>	
reaction time		interval		1.08	1.04	1.01	1.03	1.00	1.03	1.08	1.05	1.10	1.13						3.13	3.06	3.23
wind	0.7 m/s	velocity	4.85	7.87	8.17	8.42	8.25	8.50	8.25	7.87	8.10	7.73	9.29	7.56					8.15	8.33	7.89

Tymińska, Karolina (POL) (1984)

		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>		
Race 1 - 2011 European Team Championships (Stockholm, SWE)																					
date	19-Jun-11	time	2.62	3.68	4.76	5.80	6.86	7.88	8.92	9.96	11.06	12.20			13.51					<i>/ 3</i>	
reaction time	0.180	interval		1.06	1.08	1.04	1.06	1.02	1.04	1.04	1.10	1.14	1.31						3.18	3.12	3.28
wind	-1.0 m/s	velocity	4.96	8.02	7.87	8.17	8.02	8.33	8.17	8.17	7.73	7.46	8.02	7.40					8.02	8.17	7.77

Heptathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)

date	15-Aug-09	time	2.75	3.88	4.99	6.04	7.12	8.19	9.23	10.30	11.40	12.50			13.67					<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>	
reaction time	0.162	interval		1.13	1.11	1.05	1.08	1.07	1.04	1.07	1.10	1.10	1.17						3.29	3.19	3.27
wind	-0.1 m/s	velocity	4.73	7.52	7.66	8.10	7.87	7.94	8.17	7.94	7.73	7.73	8.97	7.32					7.75	7.99	7.80

Ueki, Kyoka (JPN)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		<i>Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis</i>		
FINAL - 2020 Shimane High School Championships (Izumo, JPN)																					
date	11-Jul-20	time	2.85	4.07	5.32	6.58	7.85	9.13	10.47	11.85	13.23	14.68			16.23					<i>6 / 2</i>	
reaction time		interval		1.22	1.25	1.26	1.27	1.28	1.34	1.38	1.38	1.45	1.55						3.73	3.89	4.21
wind	0.4 m/s	velocity	4.56	6.97	6.80	6.75	6.69	6.64	6.34	6.16	6.16	5.86	6.48	6.16					6.84	6.56	6.06

Uenosono, Yuiko (JPN) (2000)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>		
A FINAL - 2018 National Sports Festival (Fukui, JPN)																					
date	08-Oct-18	time	2.67	3.76	4.85	5.92	6.99	8.13	9.26	10.40	11.55	12.69			13.94					<i>1 / 8</i>	
reaction time	0.149	interval		1.09	1.09	1.07	1.07	1.14	1.13	1.14	1.15	1.14	1.25						3.25	3.34	3.43
wind	2.5 m/s	velocity	4.87	7.80	7.80	7.94	7.94	7.46	7.52	7.46	7.39	7.46	8.40	7.17					7.85	7.63	7.43

FNAL - 2018 Japanese National High School Championships (Nagoya, JPN)

date	02-Aug-18	time	2.72	3.85	4.95	6.06	7.20	8.33	9.46	10.59	11.78	12.95			14.26					<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>	
reaction time		interval		1.13	1.10	1.11	1.14	1.13	1.13	1.13	1.19	1.17	1.31						3.34	3.40	3.49
wind	-0.3 m/s	velocity	4.78	7.52	7.73	7.66	7.46	7.52	7.52	7.52	7.14	7.26	8.02	7.01					7.63	7.50	7.31

Ukiya, Saito (JPN)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		<i>(2016.10.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>		
FINAL - 2016 Gunma Prefecture High School Championships (Gunma, JPN)																					
date	24-Sep-16	time	2.70	3.85	4.97	6.09	7.20	8.31	9.46	10.61	11.76	12.94			14.22					<i>5 / 1</i>	
reaction time		interval		1.15	1.12	1.12	1.11	1.11	1.15	1.15	1.15	1.18	1.28						3.39	3.37	3.48
wind	-0.3 m/s	velocity	4.81	7.39	7.59	7.59	7.66	7.66	7.39	7.39	7.39	7.20	8.20	7.03					7.52	7.57	7.33

Umahara, Satsuki (JPN) (1994)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		<i>(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>		
FINAL - 2016 Japanese University Championships (Kumagaya, JPN)																					
date	04-Sep-16	time	2.69	3.77	4.83	5.90	6.95	8.02	9.09	10.17	11.27	12.39			13.59					<i>7 / 4</i>	
reaction time	0.166	interval		1.08	1.06	1.07	1.05	1.07	1.07	1.08	1.10	1.12	1.20						3.21	3.19	3.30
wind	-0.2 m/s	velocity	4.83	7.87	8.02	7.94	8.10	7.94	7.94	7.87	7.73	7.59	8.75	7.36					7.94	7.99	7.73

Urech, Lisa (SUI) (1989)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		<i>Rees (2009) - wettkampfauswertung 100m hürden - frauen/w.jgd.A+B</i>		
FINAL - 2009 Swiss National Championships (Zürich, SUI)																					
date	02-Aug-09	time	2.62	3.66	4.70	5.70	6.70	7.70	8.74	9.78	10.82	11.86			13.01					<i>/ 1</i>	
reaction time		interval		1.04	1.04	1.00	1.00	1.00	1.04	1.04	1.04	1.04	1.15						3.08	3.04	3.12
wind	1.2 m/s	velocity	4.96	8.17	8.17	8.50	8.50	8.50	8.17	8.17	8.17	8.17	9.13	7.69					8.28	8.39	8.17

Utsunomiya, Eri (JPN) (1993)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>		
Heptathlon - Heat 3 - 2019 Japanese National Multi-Event Championships (Nagano, JPN)																					
date	08-Jun-19	time	2.75	3.88	4.98	6.07	7.15	8.23	9.31	10.41	11.51	12.61			13.81					<i>7 / 2</i>	
reaction time		interval		1.13	1.10	1.09	1.08	1.08	1.08	1.10	1.10	1.10	1.20						3.32	3.24	3.30
wind	2.3 m/s	velocity	4.73	7.52	7.73	7.80	7.87	7.87	7.87	7.73	7.73	7.73	8.75	7.24					7.68	7.87	7.73

Heptathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)

date	16-Jun-18	time	2.74	3.83	4.94	6.02	7.09	8.19	9.31	10.39	11.49	12.62			13.80					<i>Matsubayashi (2018) - research on athlete performance and technique</i>	
reaction time		interval		1.09	1.11	1.08	1.07	1.10	1.12	1.08	1.10	1.13	1.18						3.28	3.29	3.31
wind	1.6 m/s	velocity	4.74	7.80	7.66	7.87	7.94	7.73	7.59	7.87	7.73	7.52	8.90	7.25					7.77	7.75	7.70

Heptathlon - Heat 2 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN)*Matsubayashi (2018) - research on athlete performance and technique- 2018 data book*

date	21-Apr-18	time	2.74	3.89	4.98	6.08	7.17	8.29	9.40	10.51	11.61	12.72	13.92	4 / 1			
reaction time		interval		1.15	1.09	1.10	1.09	1.12	1.11	1.11	1.10	1.11	1.20	=PB	3.34	3.32	3.32
wind	-2.4 m/s	velocity	4.74	7.39	7.80	7.73	7.80	7.59	7.66	7.66	7.73	7.66	8.75	7.18	7.63	7.68	7.68

Vachová, Anna (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)***Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.85	4.01	5.18	6.34	7.53	8.71	9.89	11.10	12.30	13.55	14.81	3 / 3			
reaction time	0.171	interval		1.16	1.17	1.16	1.19	1.18	1.18	1.21	1.20	1.25	1.26		3.49	3.55	3.66
wind	-3.9 m/s	velocity	4.56	7.33	7.26	7.33	7.14	7.20	7.20	7.02	7.08	6.80	8.33	6.75	7.31	7.18	6.97

Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE)*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.83	4.00	5.15	6.30	7.49	8.65	9.86	11.07	12.27	13.54	14.89	4 / 2			
reaction time	0.184	interval		1.17	1.15	1.15	1.19	1.16	1.21	1.21	1.20	1.27	1.35		3.47	3.56	3.68
wind	-1.5 m/s	velocity	4.59	7.26	7.39	7.39	7.14	7.33	7.02	7.02	7.08	6.69	7.78	6.72	7.35	7.16	6.93

Valadzko, Yauhenia (BLR) (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 European Cup (Munich, GER)***Graubner (2007) - http://www.fgs.uni-halle.de*

date	24-Jun-07	time	2.76	3.80	4.83	5.84	6.85	7.88	8.89	9.93	10.99	12.09	13.25	1 / 6			
reaction time	0.248	interval		1.04	1.03	1.01	1.01	1.03	1.01	1.04	1.06	1.10	1.16		3.08	3.05	3.20
wind	0.9 m/s	velocity	4.71	8.17	8.25	8.42	8.42	8.25	8.42	8.17	8.02	7.73	9.05	7.55	8.28	8.36	7.97

Likhuta, Yauhenia (BLR) (1981)**FINAL - 2001 European Cup (Bremen, GER)***Graubner (2007) - http://www.fgs.uni-halle.de*

date	24-Jun-01	time	2.72	3.79	4.90	5.98	7.03	8.16	9.28								
reaction time	0.151	interval		1.07	1.11	1.08	1.05	1.13	1.12				DQ		3.26	3.30	
wind	0.6 m/s	velocity	4.78	7.94	7.66	7.87	8.10	7.52	7.59						7.82	7.73	

Valášková, Tereza (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) (76cm)***Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.84	4.06	5.31	6.62	8.00	9.35	10.73	12.14	13.63	15.09	16.82	6 / 6			
reaction time	0.166	interval		1.22	1.25	1.31	1.38	1.35	1.38	1.41	1.49	1.46	1.73		3.78	4.11	4.36
wind	-7.3 m/s	velocity	4.58	6.97	6.80	6.49	6.16	6.30	6.16	6.03	5.70	5.82	6.07	5.95	6.75	6.20	5.85

Valette, Laura (FRA) (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 FBK Games (Hengelo, NED)***Omega Timing (2024) - continental tour gold race analysis*

date	07-Jul-24	time	2.55	3.65	4.74	5.75	6.82	7.89	8.98	10.08	11.19	12.32	13.71	2 / 8			
reaction time	0.133	interval		1.10	1.09	1.01	1.07	1.07	1.09	1.10	1.11	1.13	1.39		3.20	3.23	3.34
wind	0.3 m/s	velocity	5.10	7.73	7.80	8.42	7.94	7.94	7.80	7.73	7.66	7.52	7.23	7.29	7.97	7.89	7.63

Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	31-Jul-21	time	2.66	3.74	4.86	5.95	7.09	8.17	9.31	10.46			14.52	5 / 8			
reaction time	0.155	interval		1.08	1.12	1.09	1.14	1.08	1.14	1.15					3.29	3.36	
wind	0.4 m/s	velocity	4.89	7.87	7.59	7.80	7.46	7.87	7.46	7.39			6.89		7.75	7.59	

FINAL - 2021 Müller Grand Prix (Gateshead, GBR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	23-May-21	time	2.64	3.74	4.80	5.88	6.94	7.98	9.04	10.10	11.20	12.32	13.59	7 / 8			
reaction time	0.142	interval		1.10	1.06	1.08	1.06	1.04	1.06	1.06	1.10	1.12	1.27		3.24	3.16	3.28
wind	-3.9 m/s	velocity	4.92	7.73	8.02	7.87	8.02	8.17	8.02	8.02	7.73	7.59	7.91	7.36	7.87	8.07	7.77

FINAL - 2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	31-May-18	time	2.60	3.68	4.72	5.76	6.80	7.84	8.86	9.88	10.94	12.04	13.30	9 / 7			
reaction time	0.138	interval		1.08	1.04	1.04	1.04	1.04	1.02	1.02	1.06	1.10	1.26		3.16	3.10	3.18
wind	0.0 m/s	velocity	5.00	7.87	8.17	8.17	8.17	8.17	8.33	8.33	8.02	7.73	8.33	7.52	8.07	8.23	8.02

Vanninen, Saga (FIN) (2003)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.59	3.69	4.74	5.81	6.86	7.91	8.99	10.06	11.15	12.25	13.61	5 / 6			
reaction time	0.160	interval		1.10	1.05	1.07	1.05	1.05	1.08	1.07	1.09	1.10	1.36		3.22	3.18	3.26
wind	0.0 m/s	velocity	5.02	7.73	8.10	7.94	8.10	8.10	7.87	7.94	7.80	7.73	7.39	7.35	7.92	8.02	7.82

Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2024) - Athlete First: 2023 year end hurdle report*

date	19-Aug-23	time	2.68	3.75	4.84	5.89	6.95	8.02	9.08	10.20	11.28	12.42	13.62	2 / 8			
reaction time	0.161	interval		1.07	1.09	1.05	1.06	1.07	1.06	1.12	1.08	1.14	1.20		3.21	3.19	3.34
wind	0.4 m/s	velocity	4.85	7.94	7.80	8.10	8.02	7.94	8.02	7.59	7.87	7.46	8.38	7.34	7.94	7.99	7.63

Vargas, Andrea Carolina (CRC) (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 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)***Henson (2022) - Athlete First: 2022 year end hurdle report*

date	24-Jul-22	time	2.60	3.62	4.62	5.60	6.53	7.50	8.52	9.54	10.54	11.62	12.82	8 / 7			
reaction time	0.154	interval		1.02	1.00	0.98	0.93	0.97	1.02	1.02	1.00	1.08	1.20		3.00	2.92	3.10
wind	0.9 m/s	velocity	5.00	8.33	8.50	8.67	9.14	8.76	8.33	8.33	8.50	7.87	8.37	7.80	8.50	8.73	8.23

Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	23-Jul-22	time	2.56	3.66	4.70	5.72	6.72	7.74	8.76	9.83	10.86	11.93		13.12	5 / 3			
reaction time	0.122	interval		1.10	1.04	1.02	1.00	1.02	1.02	1.07	1.03	1.07	1.19			3.16	3.04	3.17
wind	0.7 m/s	velocity	5.08	7.73	8.17	8.33	8.50	8.33	8.33	7.94	8.25	7.94	8.45	7.62		8.07	8.39	8.04
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	2.53	3.58	4.62	5.63	6.65	7.63	8.63	9.65	10.67	11.70		12.90	7 / 5			
reaction time	0.124	interval		1.05	1.04	1.01	1.02	0.98	1.00	1.02	1.02	1.03	1.20			3.10	3.00	3.07
wind	2.0 m/s	velocity	5.14	8.10	8.17	8.42	8.33	8.67	8.50	8.33	8.33	8.25	8.37	7.75		8.23	8.50	8.31
Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
date	01-Aug-21	time	2.51	3.51	4.51	5.48	6.46	7.46	8.46	9.45	10.46	11.49		12.69	4 / 3			
reaction time	0.139	interval		1.00	1.00	0.97	0.98	1.00	1.00	0.99	1.01	1.03	1.20			2.97	2.98	3.03
wind	-0.8 m/s	velocity	5.18	8.50	8.50	8.76	8.67	8.50	8.50	8.59	8.42	8.25	8.38	7.88		8.59	8.56	8.42
Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
date	31-Jul-21	time	2.57	3.57	4.57	5.57	6.58	7.59	8.57	9.56	10.57	11.62		12.71	6 / 1			
reaction time	0.157	interval		1.00	1.00	1.00	1.01	1.01	0.98	0.99	1.01	1.05	1.09			3.00	3.00	3.05
wind	1.0 m/s	velocity	5.06	8.50	8.50	8.50	8.42	8.42	8.67	8.59	8.42	8.10	9.22	7.87		8.50	8.50	8.36
FINAL - 2019 IAAF World Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>				
date	06-Oct-19	time	2.48	3.52	4.50	5.49	6.47	7.44	8.43	9.41	10.43	11.44		12.64	3 / 5			
reaction time	0.157	interval		1.04	0.98	0.99	0.98	0.97	0.99	0.98	1.02	1.01	1.20	NR		3.01	2.94	3.01
wind	0.3 m/s	velocity	5.24	8.17	8.67	8.59	8.67	8.76	8.59	8.67	8.33	8.42	8.37	7.91		8.47	8.67	8.47
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>				
date	06-Oct-19	time	2.57	3.60	4.57	5.56	6.53	7.51	8.51	9.49	10.50	11.53		12.65	4 / 3			
reaction time	0.150	interval		1.03	0.97	0.99	0.97	0.98	1.00	0.98	1.01	1.03	1.12	NR		2.99	2.95	3.02
wind	0.6 m/s	velocity	5.06	8.25	8.76	8.59	8.76	8.67	8.50	8.67	8.42	8.25	8.97	7.91		8.53	8.64	8.44
FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	08-Aug-19	time	2.51	3.54	4.54	5.54	6.52	7.52	8.50	9.52	10.52	11.56		12.82	4 / 1			
reaction time	0.149	interval		1.03	1.00	1.00	0.98	1.00	0.98	1.02	1.00	1.04	1.26			3.03	2.96	3.06
wind	0.1 m/s	velocity	5.18	8.25	8.50	8.50	8.67	8.50	8.67	8.33	8.50	8.17	8.33	7.80		8.42	8.61	8.33
Vávrová, Denisa (CZE) (1998)																		
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)														<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national championships</i>				
date	14-Feb-15	time	2.78	3.94	5.05	6.23	7.38							8.94	2 / 5			
reaction time	0.149	interval		1.16	1.11	1.18	1.15						1.56			3.45		
		velocity	4.68	7.33	7.66	7.20	7.39						8.33	6.71		7.39		
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)														<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	2.76	3.89	5.03	6.20	7.40	8.58	9.78	11.16	12.39	13.74		15.15	1 / 7			
reaction time	0.138	interval		1.13	1.14	1.17	1.20	1.18	1.20	1.38	1.23	1.35	1.41			3.44	3.58	3.96
wind	-3.6 m/s	velocity	4.71	7.52	7.46	7.26	7.08	7.20	7.08	6.16	6.91	6.30	7.45	6.60		7.41	7.12	6.44
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)														<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	2.78	3.91	5.05	6.19	7.35	8.54	9.72	10.95	12.18	13.47		14.94	8 / 3			
reaction time	0.141	interval		1.13	1.14	1.14	1.16	1.19	1.18	1.23	1.23	1.29	1.47			3.41	3.53	3.75
wind	-1.8 m/s	velocity	4.68	7.52	7.46	7.46	7.33	7.14	7.20	6.91	6.91	6.59	7.14	6.69		7.48	7.22	6.80
Vazquez, Paolo (PUR) (1998)																		
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	2.75	3.83	4.87	5.90	6.90	7.91	8.93	9.96	11.02	12.09		13.29	9 / 8			
reaction time	0.251	interval		1.08	1.04	1.03	1.00	1.01	1.02	1.03	1.06	1.07	1.20			3.15	3.03	3.16
wind	2.8 m/s	velocity	4.73	7.87	8.17	8.25	8.50	8.42	8.33	8.25	8.02	7.94	8.38	7.52		8.10	8.42	8.07
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	2.60	3.70	4.73	5.80	6.83	7.83	8.86	9.90	10.93	12.03		13.29	1 / 8			
reaction time	0.179	interval		1.10	1.03	1.07	1.03	1.00	1.03	1.04	1.03	1.10	1.26			3.20	3.06	3.17
wind	2.0 m/s	velocity	5.00	7.73	8.25	7.94	8.25	8.50	8.25	8.17	8.25	7.73	7.98	7.52		7.97	8.33	8.04
Vento, Lotta (FIN) (1997)																		
FINAL - 2020 Finnish National Championships (Turku, FIN) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	14-Aug-20	time	2.76	3.86	4.93	6.03	7.13	8.20	9.30	10.36	11.46	12.56		13.84	1 / 6			
reaction time	0.154	interval		1.10	1.07	1.10	1.10	1.07	1.10	1.06	1.10	1.10	1.28			3.27	3.27	3.26
wind	1.0 m/s	velocity	4.71	7.73	7.94	7.73	7.73	7.94	7.73	8.02	7.73	7.73	7.85	7.23		7.80	7.80	7.82
Vesana, Veronica (ITA) (2002)																		
Heat 2 - 2024 FBK Games (Hengelo, NED)														<i>Omega Timing (2024) - continental tour gold race analysis</i>				
date	07-Jul-24	time	2.46	3.53	4.58	5.61	6.64	7.72	8.80	9.88	10.94	12.04		13.37	9 / 7			
reaction time	0.146	interval		1.07	1.05	1.03	1.03	1.08	1.08	1.08	1.06	1.10	1.33			3.15	3.19	3.24
wind	0.3 m/s	velocity	5.28	7.94	8.10	8.25	8.25	7.87	7.87	7.87	8.02	7.73	7.56	7.48		8.10	7.99	7.87

Vetter, Anouk (NED) (1993)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)																		
<i>Paris 2024 Olympic Games - Results Book (2024)</i>																		
date	08-Aug-24	time	2.55	3.64	4.69	5.74	6.78	7.82	8.88	9.95	11.03	12.15		13.49	8 / 4			
reaction time	0.167	interval		1.09	1.05	1.05	1.04	1.04	1.06	1.07	1.08	1.12	1.34			3.19	3.14	3.27
wind	0.0 m/s	velocity	5.10	7.80	8.10	8.10	8.17	8.17	8.02	7.94	7.87	7.59	7.50	7.41		7.99	8.12	7.80

Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2024) - Athlete First: 2023 year end hurdle report*

date	19-Aug-23	time	2.68	3.73	4.76	5.82	6.87	7.91	8.95	10.02	11.12	12.25		13.42	4 / 5			
reaction time	0.153	interval		1.05	1.03	1.06	1.05	1.04	1.04	1.07	1.10	1.13	1.17			3.14	3.13	3.30
wind	0.4 m/s	velocity	4.85	8.10	8.25	8.02	8.10	8.17	8.17	7.94	7.73	7.52	8.59	7.45		8.12	8.15	7.73

Heptathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2022 year end hurdle report*

date	17-Jul-22	time	2.58	3.62	4.64	5.66	6.71	7.74	8.77	9.82	10.93	12.08		13.30	7 / 6			
reaction time	0.117	interval		1.04	1.02	1.02	1.05	1.03	1.03	1.05	1.11	1.15	1.22			3.08	3.11	3.31
wind	0.7 m/s	velocity	5.04	8.17	8.33	8.33	8.10	8.25	8.25	8.10	7.66	7.39	8.24	7.52		8.28	8.20	7.70

Heptathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	04-Aug-21	time	2.62	3.62	4.65	5.66	6.66	7.69	8.74	9.77	10.82	11.90		13.09	5 / 3			
reaction time	0.134	interval		1.00	1.03	1.01	1.00	1.03	1.05	1.03	1.05	1.08	1.19	PB		3.04	3.08	3.16
wind	-0.8 m/s	velocity	4.96	8.50	8.25	8.42	8.50	8.25	8.10	8.25	8.10	7.87	8.45	7.64		8.39	8.28	8.07

Vicente, María (ESP) (2001)**Heptathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)***Henson (2024) - Athlete First: 2021 year end hurdle report*

date	04-Aug-21	time	2.71	3.79	4.83	5.86	6.87	7.91	8.98	10.06	11.14	12.26		13.44	2 / 4			
reaction time	0.154	interval		1.08	1.04	1.03	1.01	1.04	1.07	1.08	1.08	1.12	1.18			3.15	3.12	3.28
wind	0.3 m/s	velocity	4.80	7.87	8.17	8.25	8.42	8.17	7.94	7.87	7.87	7.59	8.52	7.44		8.10	8.17	7.77

Vidts, Noor (BEL) (1996)**Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.52	3.60	4.64	5.65	6.66	7.67	8.70	9.73	10.77	11.82		13.10	4 / 3			
reaction time	0.152	interval		1.08	1.04	1.01	1.01	1.01	1.03	1.03	1.04	1.05	1.28	PB		3.13	3.05	3.12
wind	-0.1 m/s	velocity	5.16	7.87	8.17	8.42	8.42	8.42	8.25	8.25	8.17	8.10	7.85	7.63		8.15	8.36	8.17

Heptathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2024) - Athlete First: 2023 year end hurdle report*

date	19-Aug-23	time	2.69	3.75	4.82	5.85	6.85	7.89	8.93	10.02	11.05	12.12		13.33	4 / 1			
reaction time	0.176	interval		1.06	1.07	1.03	1.00	1.04	1.04	1.09	1.03	1.07	1.21			3.16	3.08	3.19
wind	-1.1 m/s	velocity	4.83	8.02	7.94	8.25	8.50	8.17	8.17	7.80	8.25	7.94	8.31	7.50		8.07	8.28	7.99

Heptathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2022 year end hurdle report*

date	17-Jul-22	time	2.68	3.73	4.75	5.78	6.80	7.81	8.84	9.91	10.97	12.03		13.20	5 / 4			
reaction time	0.143	interval		1.05	1.02	1.03	1.02	1.01	1.03	1.07	1.06	1.06	1.17			3.10	3.06	3.19
wind	0.7 m/s	velocity	4.85	8.10	8.33	8.25	8.33	8.42	8.25	7.94	8.02	8.02	8.59	7.58		8.23	8.33	7.99

FINAL - 2021 Memorial van Damme (Brussels, BEL) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	03-Sep-21	time	2.66	3.78	4.84	5.90	6.90	7.96	9.02	10.08	11.18	12.28		13.55	1 / 7			
reaction time	0.150	interval		1.12	1.06	1.06	1.00	1.06	1.06	1.06	1.10	1.10	1.27			3.24	3.12	3.26
wind	0.7 m/s	velocity	4.89	7.59	8.02	8.02	8.50	8.02	8.02	8.02	7.73	7.73	7.91	7.38		7.87	8.17	7.82

Heptathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	04-Aug-21	time	2.66	3.71	4.75	5.76	6.80	7.82	8.84	9.86	10.91	12.02		13.17	8 / 1			
reaction time	0.129	interval		1.05	1.04	1.01	1.04	1.02	1.02	1.02	1.05	1.11	1.15	PB		3.10	3.08	3.18
wind	0.3 m/s	velocity	4.89	8.10	8.17	8.42	8.17	8.33	8.33	8.33	8.10	7.66	8.74	7.59		8.23	8.28	8.02

Viková, Natálie (CZE) (1998)**Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)***Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.96	4.22	5.49	6.74	8.01	9.26	10.53	11.78	13.06	14.37		15.69	5 / 6			
reaction time	0.149	interval		1.26	1.27	1.25	1.27	1.25	1.27	1.25	1.28	1.31	1.32			3.78	3.79	3.84
wind	-1.8 m/s	velocity	4.39	6.75	6.69	6.80	6.69	6.80	6.69	6.80	6.64	6.49	7.95	6.37		6.75	6.73	6.64

Visser, Nadine (NED) (1995)**FINAL - 2024 Memorial van damme (Brussels, BEL)***Omega Timing (2024) - diamond league race analysis*

date	14-Sep-24	time	2.57	3.56	4.54	5.51	6.46	7.42	8.39	9.37	10.37	11.41		12.54	2 / 2			
reaction time	0.150	interval		0.99	0.98	0.97	0.95	0.96	0.97	0.98	1.00	1.04	1.13			2.94	2.88	3.02
wind	0.4 m/s	velocity	5.06	8.59	8.67	8.76	8.95	8.85	8.76	8.67	8.50	8.17	8.89	7.97		8.67	8.85	8.44

FINAL - 2024 Weltklasse (Zürich, SUI)*Omega Timing (2024) - diamond league race analysis*

date	05-Sep-24	time	2.45	3.49	4.46	5.42	6.38	7.33	8.29	9.27	10.26	11.29		12.54	3 / 5			
reaction time	0.140	interval		1.04	0.97	0.96	0.96	0.95	0.96	0.98	0.99	1.03	1.25			2.97	2.87	3.00
wind	0.8 m/s	velocity	5.31	8.17	8.76	8.85	8.85	8.95	8.85	8.67	8.59	8.25	8.04	7.97		8.59	8.89	8.50

FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)*Omega Timing (2024) - diamond league race analysis*

date	30-Aug-24	time	2.44	3.46	4.43	5.40	6.36	7.33	8.30	9.29	10.28	11.28		12.52	3 / 3			
reaction time	0.145	interval		1.02	0.97	0.97	0.96	0.97	0.97	0.99	0.99	1.00	1.24			2.96	2.90	2.98

wind	-0.4 m/s	velocity	5.33	8.33	8.76	8.76	8.85	8.76	8.76	8.59	8.59	8.50	8.10	7.99		8.61	8.79	8.56
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)															<i>Omega Timing (2024) - diamond league race analysis</i>			
date	25-Aug-24	time	2.40	3.44	4.42	5.36	6.32	7.28	8.24	9.22	10.24	11.23		12.49	2 / 7			
reaction time	0.144	interval		1.04	0.98	0.94	0.96	0.96	0.96	0.98	1.02	0.99	1.26			2.96	2.88	2.99
wind	-0.5 m/s	velocity	5.42	8.17	8.67	9.04	8.85	8.85	8.85	8.67	8.33	8.59	7.98	8.01		8.61	8.85	8.53
Heat B - 2024 Kamila Skolimowska Memorial (Silesia, POL)															<i>Omega Timing (2024) - diamond league race analysis</i>			
date	25-Aug-24	time	2.46	3.45	4.41	5.37	6.31	7.28	8.25	9.21	10.21	11.24		12.52	4 / 3			
reaction time	0.153	interval		0.99	0.96	0.96	0.94	0.97	0.97	0.96	1.00	1.03	1.28			2.91	2.88	2.99
wind	0.6 m/s	velocity	5.28	8.59	8.85	8.85	9.04	8.76	8.76	8.85	8.50	8.25	7.85	7.99		8.76	8.85	8.53
FINAL - 2024 Athletissima (Lausanne, SUI)															<i>Omega Timing (2024) - diamond league race analysis</i>			
date	22-Aug-24	time	2.43	3.46	4.44	5.39	6.33	7.28	8.24	9.22	10.22	11.24		12.49	6 / 4			
reaction time	0.142	interval		1.03	0.98	0.95	0.94	0.95	0.96	0.98	1.00	1.02	1.25			2.96	2.85	3.00
wind	-0.9 m/s	velocity	5.35	8.25	8.67	8.95	9.04	8.95	8.85	8.67	8.50	8.33	8.04	8.01		8.61	8.95	8.50
FINAL - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	10-Aug-24	time	2.40	3.43	4.40	5.37	6.32	7.26	8.23	9.19	10.18	11.17		12.43	3 / 4			
reaction time	0.134	interval		1.03	0.97	0.97	0.95	0.94	0.97	0.96	0.99	0.99	1.26			2.97	2.86	2.94
wind	-0.3 m/s	velocity	5.42	8.25	8.76	8.76	8.95	9.04	8.76	8.85	8.59	8.59	7.98	8.05		8.59	8.92	8.67
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	09-Aug-24	time	2.42	3.44	4.41	5.36	6.29	7.25	8.21	9.19	10.17	11.18		12.43	7 / 2			
reaction time	0.143	interval		1.02	0.97	0.95	0.93	0.96	0.96	0.98	0.98	1.01	1.25			2.94	2.85	2.97
wind	0.4 m/s	velocity	5.37	8.33	8.76	8.95	9.14	8.85	8.85	8.67	8.67	8.42	8.04	8.05		8.67	8.95	8.59
Heat 3 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	07-Aug-24	time	2.43	3.46	4.45	5.41	6.36	7.31	8.28	9.26	10.26	11.28		12.53	9 / 1			
reaction time	0.148	interval		1.03	0.99	0.96	0.95	0.95	0.97	0.98	1.00	1.02	1.25			2.98	2.87	3.00
wind	0.8 m/s	velocity	5.35	8.25	8.59	8.85	8.95	8.95	8.76	8.67	8.50	8.33	8.04	7.98		8.56	8.89	8.50
A FINAL - 2024 Resisprint International (La Chaux-de-Fonds, SUI) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	14-Jul-24	time	2.56	3.58	4.56	5.50	6.45	7.38	8.33	9.29	10.28	11.28		12.36	4 / 1			
reaction time		interval		1.02	0.98	0.94	0.95	0.93	0.95	0.96	0.99	1.00	1.08	NR PB		2.94	2.83	2.95
wind	1.6 m/s	velocity	5.08	8.33	8.67	9.04	8.95	9.14	8.95	8.85	8.59	8.50	9.31	8.09		8.67	9.01	8.64
FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	07-Jul-24	time	2.52	3.53	4.51	5.45	6.41	7.35	8.32	9.28	10.28	11.32		12.46	5 / 2			
reaction time	0.133	interval		1.01	0.98	0.94	0.96	0.94	0.97	0.96	1.00	1.04	1.14	NR PB		2.93	2.87	3.00
wind	1.6 m/s	velocity	5.16	8.42	8.67	9.04	8.85	9.04	8.76	8.85	8.50	8.17	8.82	8.03		8.70	8.89	8.50
Heat 1 - 2024 FBK Games (Hengelo, NED)															<i>Omega Timing (2024) - continental tour gold race analysis</i>			
date	07-Jul-24	time	2.40	3.48	4.43	5.43	6.39	7.39	8.40	9.39	10.40	11.43		12.69	6 / 2			
reaction time	0.132	interval		1.08	0.95	1.00	0.96	1.00	1.01	0.99	1.01	1.03	1.26			3.03	2.97	3.03
wind	0.3 m/s	velocity	5.42	7.87	8.95	8.50	8.85	8.50	8.42	8.59	8.42	8.25	7.98	7.88		8.42	8.59	8.42
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	08-Jun-24	time	2.57	3.63	4.63	5.57	6.53	7.50	8.48	9.47	10.48	11.53		12.72	3 / 5			
reaction time	0.150	interval		1.06	1.00	0.94	0.96	0.97	0.98	0.99	1.01	1.05	1.19			3.00	2.91	3.05
wind	0.8 m/s	velocity	5.06	8.02	8.50	9.04	8.85	8.76	8.67	8.59	8.42	8.10	8.45	7.86		8.50	8.76	8.36
FINAL - 2024 Villa de Madrid Indoor Meeting (Madrid, ESP) (TV Analysis)															<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>			
date	23-Feb-24	time	2.52	3.53	4.52	5.48	6.42							7.78	5 / 2			
reaction time	0.136	interval		1.01	0.99	0.96	0.94						1.36			2.96		
		velocity	5.16	8.42	8.59	8.85	9.04						9.56	7.71		8.61		
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	23-Aug-23	time	2.53	3.57	4.55	5.52	6.49	7.45	8.42	9.41	10.41	11.46		12.64	6 / 3			
reaction time	0.131	interval		1.04	0.98	0.97	0.97	0.96	0.97	0.99	1.00	1.05	1.18			2.99	2.90	3.04
wind	-0.7 m/s	velocity	5.14	8.17	8.67	8.76	8.76	8.85	8.76	8.59	8.50	8.10	8.52	7.91		8.53	8.79	8.39
Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	22-Aug-23	time	2.56	3.58	4.56	5.54	6.51	7.49	8.47	9.47	10.47	11.50		12.68	4 / 2			
reaction time	0.146	interval		1.02	0.98	0.98	0.97	0.98	0.98	1.00	1.00	1.03	1.18			2.98	2.93	3.03
wind	0.0 m/s	velocity	5.08	8.33	8.67	8.67	8.76	8.67	8.67	8.50	8.50	8.25	8.52	7.89		8.56	8.70	8.42
FINAL - 2023 Bauhaus Galan (Stockholm, SWE)															<i>Omega Timing (2023) - diamond league race analysis</i>			
date	02-Jul-23	time	2.47	3.52	4.54	5.54	6.54	7.53	8.54	9.56	10.59	11.65		12.97	6 / 5			
reaction time	0.149	interval		1.05	1.02	1.00	1.00	0.99	1.01	1.02	1.03	1.06	1.32			3.07	3.00	3.11
wind	0.9 m/s	velocity	5.26	8.10	8.33	8.50	8.50	8.59	8.42	8.33	8.25	8.02	7.61	7.71		8.31	8.50	8.20
FINAL - 2023 Athletissima (Lausanne, SUI)															<i>Omega Timing (2023) - diamond league race analysis</i>			

date	30-Jun-23	time	2.50	3.57	4.59	5.60	6.59	7.59	8.61	9.64	10.69	11.76	13.09	1 / 7			
reaction time	0.182	interval		1.07	1.02	1.01	0.99	1.00	1.02	1.03	1.05	1.07	1.33		3.10	3.01	3.15
wind	-1.4 m/s	velocity	5.20	7.94	8.33	8.42	8.59	8.50	8.33	8.25	8.10	7.94	7.56	7.64	8.23	8.47	8.10
FINAL - 2023 FBK Games (Hengelo, NED)														<i>Omega Timing (2023) - continental tour race analysis</i>			
date	04-Jun-23	time	2.39	3.43	4.42	5.40	6.38	7.36	8.35	9.35	10.36	11.41	12.71	4 / 2			
reaction time	0.133	interval		1.04	0.99	0.98	0.98	0.98	0.99	1.00	1.01	1.05	1.30		3.01	2.95	3.06
wind	0.2 m/s	velocity	5.44	8.17	8.59	8.67	8.67	8.67	8.59	8.50	8.42	8.10	7.73	7.87	8.47	8.64	8.33
FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	02-Sep-22	time	2.50	3.53	4.50	5.47	6.47	7.47	8.47	9.50	10.57	11.64	12.88	8 / 8			
reaction time	0.174	interval		1.03	0.97	0.97	1.00	1.00	1.00	1.03	1.07	1.07	1.24		2.97	3.00	3.17
wind	0.1 m/s	velocity	5.20	8.25	8.76	8.76	8.50	8.50	8.50	8.25	7.94	7.94	8.10	7.76	8.59	8.50	8.04
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	26-Aug-22	time	2.50	3.53	4.53	5.53	6.51	7.51	8.51	9.51	10.53	11.58	12.81	1 / 7			
reaction time	0.171	interval		1.03	1.00	1.00	0.98	1.00	1.00	1.00	1.02	1.05	1.23		3.03	2.98	3.07
wind	-0.9 m/s	velocity	5.20	8.25	8.50	8.50	8.67	8.50	8.50	8.50	8.33	8.10	8.17	7.81	8.42	8.56	8.31
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	21-Aug-22	time	2.56	3.58	4.57	5.56	6.53	7.50	8.50	9.48	10.49	11.55	12.75	4 / 4			
reaction time	0.156	interval		1.02	0.99	0.99	0.97	0.97	1.00	0.98	1.01	1.06	1.20		3.00	2.94	3.05
wind	-0.1 m/s	velocity	5.08	8.33	8.59	8.59	8.76	8.76	8.50	8.67	8.42	8.02	8.38	7.84	8.50	8.67	8.36
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	24-Jul-22	time	2.53	3.53	4.53	5.52	6.48	7.46	8.44	9.46	10.46	11.52	12.66	6 / 3			
reaction time	0.125	interval		1.00	1.00	0.99	0.96	0.98	0.98	1.02	1.00	1.06	1.14		2.99	2.92	3.08
wind	0.3 m/s	velocity	5.14	8.50	8.50	8.59	8.85	8.67	8.67	8.33	8.50	8.02	8.82	7.90	8.53	8.73	8.28
Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	23-Jul-22	time	2.52	3.53	4.53	5.53	6.50	7.50	8.50	9.50	10.53	11.56	12.76	8 / 2			
reaction time	0.136	interval		1.01	1.00	1.00	0.97	1.00	1.00	1.00	1.03	1.03	1.20		3.01	2.97	3.06
wind	0.7 m/s	velocity	5.16	8.42	8.50	8.50	8.76	8.50	8.50	8.50	8.25	8.25	8.38	7.84	8.47	8.59	8.33
FINAL - 2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	30-Jun-22	time	2.50	3.52	4.50	5.50	6.46	7.46	8.46	9.46	10.50	11.55	12.76	1 / 6			
reaction time	0.136	interval		1.02	0.98	1.00	0.96	1.00	1.00	1.00	1.04	1.05	1.21		3.00	2.96	3.09
wind	-0.5 m/s	velocity	5.20	8.33	8.67	8.50	8.85	8.50	8.50	8.50	8.17	8.10	8.31	7.84	8.50	8.61	8.25
FINAL - 2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>			
date	14-Jun-22	time	2.56	3.60	4.56	5.56	6.52	7.50	8.48	9.48	10.50	11.54	12.72	5 / 3			
reaction time	0.167	interval		1.04	0.96	1.00	0.96	0.98	0.98	1.00	1.02	1.04	1.18		3.00	2.92	3.06
wind	0.2 m/s	velocity	5.08	8.17	8.85	8.50	8.85	8.67	8.67	8.50	8.33	8.17	8.52	7.86	8.50	8.73	8.33
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	09-Jun-22	time	2.50	3.53	4.53	5.51	6.51	7.51	8.53	9.60	10.65	11.72	12.98	8 / 6			
reaction time	0.146	interval		1.03	1.00	0.98	1.00	1.00	1.02	1.07	1.05	1.07	1.26		3.01	3.02	3.19
wind	0.1 m/s	velocity	5.20	8.25	8.50	8.67	8.50	8.50	8.33	7.94	8.10	7.94	7.98	7.70	8.47	8.44	7.99
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	09-Sep-21	time	2.50	3.52	4.48	5.44	6.40	7.36	8.32	9.30	10.30	11.34	12.51	4 / 2			
reaction time	0.141	interval		1.02	0.96	0.96	0.96	0.96	0.96	0.98	1.00	1.04	1.17	NR PB	2.94	2.88	3.02
wind	0.4 m/s	velocity	5.20	8.33	8.85	8.85	8.85	8.85	8.85	8.67	8.50	8.17	8.59	7.99	8.67	8.85	8.44
FINAL - 2021 Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	03-Sep-21	time	2.54	3.56	4.54	5.52	6.50	7.46	8.44	9.44	10.46	11.50	12.69	7 / 1			
reaction time	0.141	interval		1.02	0.98	0.98	0.98	0.96	0.98	1.00	1.02	1.04	1.19		2.98	2.92	3.06
wind	0.7 m/s	velocity	5.12	8.33	8.67	8.67	8.67	8.85	8.67	8.50	8.33	8.17	8.45	7.88	8.56	8.73	8.33
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	2.52	3.52	4.52	5.50	6.46	7.42	8.40	9.38	10.38	11.40	12.58	3 / 2			
reaction time	0.152	interval		1.00	1.00	0.98	0.96	0.96	0.98	0.98	1.00	1.02	1.18	NR PB	2.98	2.90	3.00
wind	1.7 m/s	velocity	5.16	8.50	8.50	8.67	8.85	8.85	8.67	8.67	8.50	8.33	8.52	7.95	8.56	8.79	8.50
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	02-Aug-21	time	2.50	3.52	4.50	5.48	6.46	7.44	8.44	9.44	10.46	11.54	12.73	3 / 5			
reaction time	0.152	interval		1.02	0.98	0.98	0.98	0.98	1.00	1.00	1.02	1.08	1.19		2.98	2.96	3.10
wind	-0.3 m/s	velocity	5.20	8.33	8.67	8.67	8.67	8.67	8.50	8.50	8.33	7.87	8.45	7.86	8.56	8.61	8.23
Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>			
date	01-Aug-21	time	2.61	3.61	4.58	5.53	6.49	7.45	8.45	9.45	10.44	11.51	12.63	6 / 3			
reaction time	0.156	interval		1.00	0.97	0.95	0.96	0.96	1.00	1.00	0.99	1.07	1.12		2.92	2.92	3.06
wind	-0.2 m/s	velocity	4.98	8.50	8.76	8.95	8.85	8.85	8.50	8.50	8.59	7.94	8.97	7.92	8.73	8.73	8.33

Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

date	31-Jul-21	time	2.57	3.57	4.57	5.57	6.59	7.61	8.59	9.58	10.59	11.63	12.72	9 / 2			
reaction time	0.144	interval		1.00	1.00	1.00	1.02	1.02	0.98	0.99	1.01	1.04	1.09		3.00	3.02	3.04
wind	1.0 m/s	velocity	5.06	8.50	8.50	8.50	8.33	8.33	8.67	8.59	8.42	8.17	9.22	7.86	8.50	8.44	8.39

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

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

date	06-Jul-21	time	2.57	3.58	4.58	5.54	6.54	7.54	8.54	9.54	10.57	11.62	12.85	5 / 6			
reaction time	0.152	interval		1.01	1.00	0.96	1.00	1.00	1.00	1.00	1.03	1.05	1.23		2.97	3.00	3.08
wind	0.2 m/s	velocity	5.06	8.42	8.50	8.85	8.50	8.50	8.50	8.50	8.25	8.10	8.17	7.78	8.59	8.50	8.28

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

FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)

date	13-Jul-21	time	2.57	3.60	4.58	5.56	6.54	7.51	8.49	9.49	10.51	11.58	12.78	7 / 3			
reaction time	0.180	interval		1.03	0.98	0.98	0.98	0.97	0.98	1.00	1.02	1.07	1.20		2.99	2.93	3.09
wind	1.5 m/s	velocity	5.06	8.25	8.67	8.67	8.67	8.76	8.67	8.50	8.33	7.94	8.38	7.82	8.53	8.70	8.25

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

FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)

date	07-Mar-21	time	2.46	3.50	4.46	5.44	6.42						7.77	5 / 1			
reaction time	0.135	interval		1.04	0.96	0.98	0.98						1.35		NR PB	2.98	
		velocity	5.28	8.17	8.85	8.67	8.67						9.63		7.72	8.56	

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

FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)

date	17-Sep-20	time	2.52	3.56	4.56	5.52	6.50	7.48	8.48	9.48	10.52	11.56	12.72	6 / 1			
reaction time	0.156	interval		1.04	1.00	0.96	0.98	0.98	1.00	1.00	1.04	1.04	1.16		3.00	2.96	3.08
wind	0.1 m/s	velocity	5.16	8.17	8.50	8.85	8.67	8.67	8.50	8.50	8.17	8.17	8.66	7.86	8.50	8.61	8.28

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

FINAL - 2020 Galà dei Castelli (Bellinzona, SUI) (TV Analysis)

date	15-Sep-20	time	2.52	3.56	4.56	5.56	6.56	7.54	8.52	9.52	10.56	11.62	12.79	5 / 1			
reaction time		interval		1.04	1.00	1.00	1.00	0.98	0.98	1.00	1.04	1.06	1.17		3.04	2.96	3.10
wind	0.0 m/s	velocity	5.16	8.17	8.50	8.50	8.50	8.67	8.67	8.50	8.17	8.02	8.59	7.82	8.39	8.61	8.23

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

FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)

date	19-Aug-20	time	2.49	3.50	4.50	5.47	6.44	7.41	8.41	9.41	10.42	11.44	12.68	5 / 1			
reaction time	0.145	interval		1.01	1.00	0.97	0.97	0.97	1.00	1.00	1.01	1.02	1.24		2.98	2.94	3.03
wind	-0.2 m/s	velocity	5.22	8.42	8.50	8.76	8.76	8.76	8.50	8.50	8.42	8.33	8.10	7.89	8.56	8.67	8.42

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

FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)

date	11-Aug-20	time	2.50	3.52	4.54	5.54	6.50	7.48	8.48	9.46	10.48	11.50	12.68	4 / 1			
reaction time	0.137	interval		1.02	1.02	1.00	0.96	0.98	1.00	0.98	1.02	1.02	1.18		3.04	2.94	3.02
wind	1.2 m/s	velocity	5.20	8.33	8.33	8.50	8.85	8.67	8.50	8.67	8.33	8.33	8.52	7.89	8.39	8.67	8.44

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

FINAL - 2019 IAAF World Championships (Doha, QAT)

date	06-Oct-19	time	2.48	3.51	4.49	5.46	6.43	7.38	8.37	9.36	10.36	11.43	12.66	2 / 6			
reaction time	0.147	interval		1.03	0.98	0.97	0.97	0.95	0.99	0.99	1.00	1.07	1.23		2.98	2.91	3.06
wind	0.3 m/s	velocity	5.24	8.25	8.67	8.76	8.76	8.95	8.59	8.59	8.50	7.94	8.17	7.90	8.56	8.76	8.33

CAA Hurdle Development (2019)

Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)

date	06-Oct-19	time	2.48	3.50	4.48	5.44	6.40	7.38	8.34	9.32	10.34	11.38	12.62	5 / 3				
reaction time	0.148	interval		1.02	0.98	0.96	0.96	0.98	0.96	0.98	1.02	1.04	1.24		NR	2.96	2.90	3.04
wind	1.0 m/s	velocity	5.24	8.33	8.67	8.85	8.85	8.67	8.85	8.67	8.33	8.17	8.10	7.92	8.61	8.79	8.39	

Henson (2020) - Athlete First: 2019 year end hurdle report

FINAL - 2019 Bislett Games (Oslo, NOR) (TV Analysis)

date	13-Jun-19	time	2.60	3.64	4.64	5.66	6.66	7.66	8.66	9.68	10.72	11.80	13.00	2 / 5			
reaction time	0.159	interval		1.04	1.00	1.02	1.00	1.00	1.00	1.02	1.04	1.08	1.20		3.06	3.00	3.14
wind	1.1 m/s	velocity	5.00	8.17	8.50	8.33	8.50	8.50	8.50	8.33	8.17	7.87	8.75	7.69	8.33	8.50	8.12

Henson (2020) - Athlete First: 2019 year end hurdle report

FINAL - 2019 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)

date	30-May-19	time	2.60	3.68	4.68	5.72	6.74	7.76	8.80	9.84	10.92	12.08	13.39	7 / 8			
reaction time	0.162	interval		1.08	1.00	1.04	1.02	1.02	1.04	1.04	1.08	1.16	1.31		3.12	3.08	3.28
wind	1.3 m/s	velocity	5.00	7.87	8.50	8.17	8.33	8.33	8.17	8.17	7.87	7.33	8.02	7.47	8.17	8.28	7.77

Henson (2020) - Athlete First: 2019 year end hurdle report

FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)

date	31-Aug-18	time	2.56	3.56	4.56	5.54	6.52	7.52	8.52	9.52	10.54	11.60	12.81	8 / 6			
reaction time	0.151	interval		1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.02	1.06	1.21		2.98	2.98	3.08
wind	0.1 m/s	velocity	5.08	8.50	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.02	8.68	7.81	8.56	8.56	8.28

Henson (2020) - Athlete First: 2018 year end hurdle report

FINAL - 2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)

date	10-Jun-18	time	2.54	3.56	4.54	5.52	6.48	7.46	8.46	9.42	10.46	11.50	12.71	1 / 4				
reaction time	0.135	interval		1.02	0.98	0.98	0.96	0.98	1.00	0.96	1.04	1.04	1.21		NR PB	2.98	2.94	3.04
wind	1.3 m/s	velocity	5.12	8.33	8.67	8.67	8.85	8.67	8.50	8.85	8.17	8.17	8.68	7.87	8.56	8.67	8.39	

Henson (2020) - Athlete First: 2018 year end hurdle report

FINAL - 2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)

date	31-May-18	time	2.56	3.60	4.58	5.60	6.60	7.60	8.60	9.60	10.62	11.66	12.90	8 / 4			
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Henson (2020) - Athlete First: 2018 year end hurdle report

reaction time	0.156	interval	1.04	0.98	1.02	1.00	1.00	1.00	1.00	1.02	1.04	1.24			3.04	3.00	3.06
wind	0.0 m/s	velocity	5.08	8.17	8.67	8.33	8.50	8.50	8.50	8.50	8.33	8.17	8.47	7.75	8.39	8.50	8.33

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	3.54	4.52	5.50	6.50	7.50	8.50	9.50	10.52	11.58			12.81	3 / 6			
reaction time	0.137	interval	1.02	0.98	0.98	1.00	1.00	1.00	1.00	1.02	1.06	1.23					2.98	3.00	3.08
wind	0.9 m/s	velocity	5.16	8.33	8.67	8.67	8.50	8.50	8.50	8.50	8.33	8.02	8.54	7.81			8.56	8.50	8.28

FINAL - 2018 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	04-May-18	time	2.56	3.60	4.60	5.60	6.60	7.58	8.60	9.60	10.64	11.68			12.94	8 / 7			
reaction time	0.160	interval	1.04	1.00	1.00	1.00	1.00	0.98	1.02	1.00	1.04	1.04	1.26				3.04	3.00	3.08
wind	0.5 m/s	velocity	5.08	8.17	8.50	8.50	8.50	8.67	8.33	8.50	8.17	8.17	8.33	7.73			8.39	8.50	8.28

FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)*Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60m Hurdles Women*

date	03-Mar-18	time	2.65	3.66	4.67	5.63	6.58								7.84	4 / 3		
reaction time	0.153	interval	1.01	1.01	0.96	0.95									1.26		2.98	
		velocity	4.91	8.42	8.42	8.85	8.95								10.32	12.76	8.56	

FINAL - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date	12-Aug-17	time	2.47	3.52	4.52	5.51	6.49	7.54	8.51	9.51	10.53	11.56			12.83	2 / 7			
reaction time	0.154	interval	1.05	1.00	0.99	0.98	1.05	0.97	1.00	1.02	1.03	1.27					3.04	3.00	3.05
wind	0.1 m/s	velocity	5.26	8.10	8.50	8.59	8.67	8.10	8.76	8.50	8.33	8.25	8.27	7.79			8.39	8.50	8.36

Semi-Final 1 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date	11-Aug-17	time	2.48	3.53	4.54	5.54	6.53	7.50	8.49	9.49	10.50	11.54			12.83	7 / 3			
reaction time	0.175	interval	1.05	1.01	1.00	0.99	0.97	0.99	1.00	1.01	1.04	1.29					3.06	2.95	3.05
wind	0.5 m/s	velocity	5.24	8.10	8.42	8.50	8.59	8.76	8.59	8.50	8.42	8.17	8.14	7.79			8.33	8.64	8.36

FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	09-Jul-17	time	2.54	3.56	4.58	5.56	6.54	7.52	8.54	9.54	10.58	11.62			12.86	9 / 6			
reaction time	0.146	interval	1.02	1.02	0.98	0.98	0.98	1.02	1.00	1.04	1.04	1.24					3.02	2.98	3.08
wind	0.2 m/s	velocity	5.12	8.33	8.33	8.67	8.67	8.67	8.33	8.50	8.17	8.17	8.47	7.78			8.44	8.56	8.28

Vokálová, Tereza (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 - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)***Fehér (2015) - Final report U18 & U20 Czech Republic indoor national championships*

date	14-Feb-15	time	2.72	3.79	4.87	5.94	7.04								8.45	5 / 1		
reaction time	0.179	interval	1.07	1.08	1.07	1.10									1.41		3.22	
		velocity	4.78	7.94	7.87	7.94	7.73								9.22	7.10	7.92	

FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)*Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.75	3.87	4.98	6.08	7.18	8.27	9.39	10.50	11.65	12.79			14.05	6 / 2			
reaction time	0.149	interval	1.12	1.11	1.10	1.10	1.09	1.12	1.11	1.15	1.14	1.26					3.33	3.31	3.40
wind	-3.6 m/s	velocity	4.73	7.59	7.66	7.73	7.80	7.59	7.66	7.39	7.46	8.33	7.12				7.66	7.70	7.50

Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)*Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.74	3.89	5.00	6.14	7.29	8.44	9.60	10.76	11.93	13.13			14.42	5 / 1			
reaction time	0.156	interval	1.15	1.11	1.14	1.15	1.15	1.16	1.16	1.17	1.20	1.29					3.40	3.46	3.53
wind	-7.3 m/s	velocity	4.74	7.39	7.66	7.46	7.39	7.39	7.33	7.33	7.26	7.08	8.14	6.93			7.50	7.37	7.22

von Gerber, Alva (SWE) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)***Omega Timing (2023) - diamond league race analysis*

date	02-Jul-23	time	2.60	3.75	4.89	5.97	7.05	8.14	9.22	10.32	11.43	12.57			13.98	2 / 7			
reaction time	0.141	interval	1.15	1.14	1.08	1.08	1.09	1.08	1.10	1.11	1.14	1.41					3.37	3.25	3.35
wind	0.6 m/s	velocity	5.00	7.39	7.46	7.87	7.87	7.80	7.87	7.73	7.66	7.46	7.13	7.15			7.57	7.85	7.61

Voronina, Yekaterina (UZB) (1992)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)***Henson (2024) - Athlete First: 2023 year end hurdle report*

date	19-Aug-23	time	2.88	4.08	5.32	6.48	7.65	8.82	9.95	11.15	12.32			14.77	2 / 7			
reaction time	0.172	interval	1.20	1.24	1.16	1.17	1.17	1.13	1.20	1.17							3.60	3.47
wind	-1.1 m/s	velocity	4.51	7.08	6.85	7.33	7.26	7.26	7.52	7.08	7.26			6.77			7.08	7.35

Heptathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	04-Aug-21	time	2.86	3.99	5.11	6.22	7.31	8.44	9.55	10.71	11.82			14.19	9 / 7			
reaction time	0.179	interval	1.13	1.12	1.11	1.09	1.13	1.11	1.16	1.11							3.36	3.33
wind	0.2 m/s	velocity	4.55	7.52	7.59	7.66	7.80	7.52	7.66	7.33	7.66			7.05			7.59	7.66

Voronkova, Nelli (BLR) (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)***Jung (2003) - <http://www.fgs.uni-halle.de>*

date	22-Jun-97	time	2.79	3.94	4.99	6.10	7.17	8.26	9.35	10.47	11.59	12.73			13.90	1 / 7			
reaction time		interval	1.15	1.05	1.11	1.07	1.09	1.09	1.12	1.12	1.14	1.17					3.31	3.25	3.38
wind	0.7 m/s	velocity	4.66	7.39	8.10	7.66	7.94	7.80	7.80	7.59	7.59	7.46	8.97	7.19			7.70	7.85	7.54

Votinská, Barbora (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)*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	3.04	4.37	5.69	7.00	8.28	9.59	10.91	12.25	13.62	15.04		16.48	1 / 5			
reaction time	0.156	interval		1.33	1.32	1.31	1.28	1.31	1.32	1.34	1.37	1.42	1.44			3.96	3.91	4.13
wind	-1.5 m/s	velocity	4.28	6.39	6.44	6.49	6.64	6.49	6.44	6.34	6.20	5.99	7.29	6.07		6.44	6.52	6.17

Vukicevic, Christina (NOR) (1987)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2011 Landskamp FIN-SWE-NOR (Tammefors, FIN)***Blomkvist (2011) - www.sub13.se*

date	05-Feb-11	time	2.44	3.48	4.48	5.44	6.44							7.92	1 / 1			
reaction time		interval		1.04	1.00	0.96	1.00						1.48	NR		3.00		
wind		velocity	5.33	8.17	8.50	8.85	8.50						8.78	7.58		8.50		

Heat 4 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	2.62	3.64	4.64	5.63	6.61	7.62	8.62	9.65	10.70	11.78		12.95	1 / 4			
reaction time	0.144	interval		1.02	1.00	0.99	0.98	1.01	1.00	1.03	1.05	1.08	1.17			3.01	2.99	3.16
wind	-0.3 m/s	velocity	4.96	8.33	8.50	8.59	8.67	8.42	8.50	8.25	8.10	7.87	8.97	7.72		8.47	8.53	8.07

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

date	14-Jun-09	time	2.61	3.63	4.63	5.65	6.66	7.67	8.69	9.73	10.79	11.87		13.04	1 / 5			
reaction time	0.175	interval		1.02	1.00	1.02	1.01	1.01	1.02	1.04	1.06	1.08	1.17			3.04	3.04	3.18
wind	-0.1 m/s	velocity	4.98	8.33	8.50	8.33	8.42	8.42	8.33	8.17	8.02	7.87	8.97	7.67		8.39	8.39	8.02

Vytlačilová, Tereza (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 Championships (Ostrava, CZE)***Feher (2014) - Final report from the Czech Republic national championships*

date	02-Aug-14	time	2.95	4.16	5.36	6.57	7.77	9.00	10.21	11.45	12.72	14.02		15.41	8 / 7			
reaction time	0.141	interval		1.21	1.20	1.21	1.20	1.23	1.21	1.24	1.27	1.30	1.39			3.62	3.64	3.81
wind	-1.0 m/s	velocity	4.41	7.02	7.08	7.02	7.08	6.91	7.02	6.85	6.69	6.54	7.55	6.49		7.04	7.01	6.69

Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE)*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.92	4.13	5.33	6.56	7.81	9.07	10.36	11.65	12.93	14.23		15.67	7 / 4			
reaction time	0.149	interval		1.21	1.20	1.23	1.25	1.26	1.29	1.29	1.28	1.30	1.44			3.64	3.80	3.87
wind	-4.5 m/s	velocity	4.45	7.02	7.08	6.91	6.80	6.75	6.59	6.59	6.64	6.54	7.29	6.38		7.01	6.71	6.59

Wada, 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 Fukui Perfecture High School Meeting (Fukui, JPN)***(2016.06.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	28-May-16	time	2.73	3.88	4.99	6.10	7.20	8.31	9.44	10.57	11.73	12.90		14.18	5 / 1			
reaction time		interval		1.15	1.11	1.11	1.10	1.11	1.13	1.13	1.16	1.17	1.28			3.37	3.34	3.46
wind	1.1 m/s	velocity	4.76	7.39	7.66	7.66	7.73	7.66	7.52	7.52	7.33	7.26	8.20	7.05		7.57	7.63	7.37

Walker, Astia (JAM) (1975)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 1997 Southeastern Conference Championships (Auburn, AL)***Shaver (2002) - Hurdle training design*

date	18-May-97	time	2.50	3.51	4.51	5.51	6.51	7.49	8.46	9.42	10.39	11.38		12.82	1 / 1			
reaction time		interval		1.01	1.00	1.00	1.00	0.98	0.97	0.96	0.97	0.99	1.44	PB		3.01	2.95	2.92
wind	1.4 m/s	velocity	5.20	8.42	8.50	8.50	8.50	8.67	8.76	8.85	8.76	8.59	7.29	7.80		8.47	8.64	8.73

Wallace, Sasha (USA) (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)***Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	20-May-18	time	2.63	3.68	4.74	5.80	6.84	7.91	9.00	10.09	11.21	12.34		13.57	3 / 7			
reaction time	0.141	interval	7 steps	1.05	1.06	1.06	1.04	1.07	1.09	1.09	1.12	1.13	1.23			3.17	3.20	3.34
wind	-0.6 m/s	velocity	4.94	8.10	8.02	8.02	8.17	7.94	7.80	7.80	7.59	7.52	8.54	7.37		8.04	7.97	7.63

Wang Dou (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 - 2021 Chinese National Games (Xi'an, CHN)***CAA Hurdle Development (2021)*

date	22-Sep-21	time	2.56	3.60	4.63	5.63	6.65	7.67	8.69	9.71	10.73	11.80		13.00	7 / 3			
reaction time	0.152	interval		1.04	1.03	1.00	1.02	1.02	1.02	1.02	1.02	1.07	1.20	PB		3.07	3.06	3.11
wind	0.1 m/s	velocity	5.08	8.17	8.25	8.50	8.33	8.33	8.33	8.33	8.33	7.94	8.38	7.69		8.31	8.33	8.20

FINAL - 2021 Chinese National Championships (Chongqing, CHN)*CAA Hurdle Development (2021)*

date	25-Jun-21	time	2.70	3.73	4.75	5.75	6.75	7.77	8.79	9.81	10.86	11.91		13.02	5 / 3			
reaction time	0.235	interval		1.03	1.02	1.00	1.00	1.02	1.02	1.02	1.05	1.05	1.11	PB		3.05	3.04	3.12
wind	1.7 m/s	velocity	4.81	8.25	8.33	8.50	8.50	8.33	8.33	8.33	8.10	8.10	9.05	7.68		8.36	8.39	8.17

Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)*CAA Hurdle Development (2021)*

date	25-Jun-21	time	2.75	3.81	4.87	5.91	6.93	7.97	9.02	10.09	11.16	12.25		13.41	5 / 2			
reaction time	0.202	interval		1.06	1.06	1.04	1.02	1.04	1.05	1.07	1.07	1.09	1.16			3.16	3.11	3.23
wind	-0.3 m/s	velocity	4.73	8.02	8.02	8.17	8.33	8.17	8.10	7.94	7.94	7.80	8.66	7.46		8.07	8.20	7.89

FINAL - 2021 Happy Chengdu Meeting (Chengdu, CHN)*CAA Hurdle Development (2021)*

date	15-May-21	time	2.67	3.74	4.79	5.86	6.87	7.90	8.93	9.96	11.00	12.04		13.16	4 / 1			
reaction time	0.152	interval		1.07	1.05	1.07	1.01	1.03	1.03	1.03	1.04	1.04	1.12			3.19	3.07	3.11
wind	-0.1 m/s	velocity	4.87	7.94	8.10	7.94	8.42	8.25	8.25	8.25	8.17	8.17	8.97	7.60		7.99	8.31	8.20

FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)*CAA Hurdle Development (2021)*

date	08-Apr-21	time	2.72	3.80	4.84	5.88	6.92	7.96	9.00	10.06	11.12	12.16		13.27	3 / 2			
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reaction time	interval	1.08	1.04	1.04	1.04	1.04	1.04	1.04	1.06	1.06	1.04	1.11			3.16	3.12	3.16	
wind	-0.1 m/s	velocity	4.78	7.87	8.17	8.17	8.17	8.17	8.17	8.02	8.02	8.17	9.05	7.54	8.07	8.17	8.07	
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)														<i>CAA Hurdle Development (2020)</i>				
date	15-Sep-20	time	2.72	3.79	4.83	5.88	6.92	7.98	9.04	10.10	11.18	12.27		13.40	5 / 3	3.16	3.16	3.23
reaction time	0.184	interval	1.07	1.04	1.05	1.04	1.06	1.06	1.06	1.06	1.08	1.09	1.13		8.07	8.07	7.89	
wind	-0.4 m/s	velocity	4.78	7.94	8.17	8.10	8.17	8.02	8.02	8.02	7.87	7.80	8.89	7.46				
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)														<i>CAA Hurdle Development (2020)</i>				
date	15-Sep-20	time	2.73	3.81	4.88	5.94	7.00	8.06	9.12	10.19	11.27	12.37		13.52	7 / 2	3.21	3.18	3.25
reaction time	0.165	interval	1.08	1.07	1.06	1.06	1.06	1.06	1.06	1.07	1.08	1.10	1.15		7.94	8.02	7.85	
wind	0.3 m/s	velocity	4.76	7.87	7.94	8.02	8.02	8.02	8.02	7.94	7.87	7.73	8.74	7.40				
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	23-Aug-19	time	2.82	3.94	5.04	6.14	7.24	8.34	9.46	10.61	11.75	12.86		14.13	6 / 5	3.32	3.32	3.40
reaction time	0.206	interval	1.12	1.10	1.10	1.10	1.10	1.12	1.15	1.14	1.11	1.27		7.08	7.68	7.68	7.50	
wind	-0.2 m/s	velocity	4.61	7.59	7.73	7.73	7.73	7.73	7.59	7.39	7.46	7.66	8.27					
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	02-Aug-19	time	2.70	3.78	4.84	5.91	6.95	7.98	9.09	10.16	11.23	12.34		13.52	7 / 4	3.21	3.18	3.25
reaction time	0.170	interval	1.08	1.06	1.07	1.04	1.03	1.11	1.07	1.07	1.11	1.18		7.40	7.94	8.02	7.85	
wind	0.0 m/s	velocity	4.81	7.87	8.02	7.94	8.17	8.25	7.66	7.94	7.94	7.66	8.90					
Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	02-Aug-19	time	2.74	3.85	4.94	6.00	7.07	8.16	9.24	10.31	11.41	12.51		13.71	1 / 3	3.26	3.24	3.27
reaction time	0.180	interval	1.11	1.09	1.06	1.07	1.09	1.08	1.07	1.10	1.10	1.20		7.29	7.82	7.87	7.80	
wind	-0.3 m/s	velocity	4.74	7.66	7.80	8.02	7.94	7.80	7.87	7.94	7.73	7.73	8.75					
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	08-Jul-19	time	2.79	3.88	4.96	6.04	7.10	8.20	9.28	10.38	11.48	12.60		13.79	8 / 4	3.25	3.24	3.32
reaction time	0.266	interval	1.09	1.08	1.08	1.06	1.10	1.08	1.10	1.10	1.12	1.19		7.25	7.85	7.87	7.68	
wind	1.3 m/s	velocity	4.66	7.80	7.87	7.87	8.02	7.73	7.87	7.73	7.73	7.59	8.82					
FINAL - 2019 Chinese National Grand Prix 3 (Jinhai, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	23-May-19	time	2.76	3.82	4.88	5.92	6.98	8.04	9.10	10.16	11.26	12.34		13.53	9 / 4	3.16	3.18	3.24
reaction time	0.207	interval	1.06	1.06	1.04	1.06	1.06	1.06	1.06	1.06	1.10	1.08	1.19		8.07	8.02	7.87	
wind	0.4 m/s	velocity	4.71	8.02	8.02	8.17	8.02	8.02	8.02	8.02	7.73	7.87	8.82	7.39				
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	13-Apr-19	time	2.71	3.80	4.84	5.88	6.94	8.00	9.06	10.13	11.20	12.30		13.48	3 / 4	3.17	3.18	3.24
reaction time	0.217	interval	1.09	1.04	1.04	1.06	1.06	1.06	1.06	1.07	1.07	1.10	1.18		8.04	8.02	7.87	
wind	0.3 m/s	velocity	4.80	7.80	8.17	8.17	8.02	8.02	8.02	7.94	7.94	7.73	8.90	7.42				
Heat 2 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	13-Apr-19	time	2.78	3.86	4.94	6.02	7.08	8.16	9.28	10.38	11.51	12.66		13.91	6 / 3	3.24	3.26	3.38
reaction time	0.222	interval	1.08	1.08	1.08	1.06	1.08	1.12	1.10	1.13	1.15	1.25		7.19	7.87	7.82	7.54	
wind	0.2 m/s	velocity	4.68	7.87	7.87	7.87	8.02	7.87	7.59	7.73	7.52	7.39	8.40					
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	09-Apr-19	time	2.71	3.78	4.84	5.90	6.94	8.02	9.06	10.12	11.18	12.28		13.47	7 / 2	3.19	3.16	3.22
reaction time	0.174	interval	1.07	1.06	1.06	1.04	1.08	1.04	1.06	1.06	1.06	1.10	1.19		7.99	8.07	7.92	
wind	0.1 m/s	velocity	4.80	7.94	8.02	8.02	8.17	7.87	8.17	8.02	8.02	7.73	8.82	7.42				
Heat 1 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	08-Apr-19	time	2.74	3.80	4.86	5.92	6.98	8.02	9.09	10.16	11.26	12.34		13.58	2 / 2	3.18	3.17	3.25
reaction time	0.227	interval	1.06	1.06	1.06	1.06	1.04	1.07	1.07	1.10	1.08	1.24		7.36	8.02	8.04	7.85	
wind	-1.0 m/s	velocity	4.74	8.02	8.02	8.02	8.02	8.17	7.94	7.94	7.73	7.87	8.47					
B-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	20-Mar-19	time	2.71	3.79	4.86	5.90	6.96							8.35	5 / 2	3.19		
reaction time		interval	1.08	1.07	1.04	1.06							1.39			7.99		
		velocity	4.80	7.87	7.94	8.17	8.02						9.35	7.19				
B-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	24-Feb-19	time	2.73	3.84	4.92	5.99	7.06							8.47	4 / 1	3.26		
reaction time		interval	1.11	1.08	1.07	1.07							1.41			7.82		
		velocity	4.76	7.66	7.87	7.94	7.94						9.22	7.08				
A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	20-Feb-19	time	2.73	3.82	4.89	5.96	7.00							8.43	4 / 2	3.23		
reaction time		interval	1.09	1.07	1.07	1.04							1.43			7.89		
		velocity	4.76	7.80	7.94	7.94	8.17						9.09	7.12				

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)*Henson (2018) - coaching observations*

date	16-Sep-18	time	2.72	3.80	4.85	5.90	6.96	8.01	9.06	10.14	11.23	12.32		13.48				
reaction time		interval		1.08	1.05	1.05	1.06	1.05	1.05	1.08	1.09	1.09	1.16			3.18	3.16	3.26
wind	-0.2 m/s	velocity	4.78	7.87	8.10	8.10	8.02	8.10	8.10	7.87	7.80	7.80	9.05	7.42		8.02	8.07	7.82

Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)*Henson (2018) - coaching observations*

date	15-Sep-18	time	2.75	3.85	4.94	6.01	7.07	8.14	9.21	10.29	11.40	12.48		13.65				
reaction time		interval		1.10	1.09	1.07	1.06	1.07	1.07	1.08	1.11	1.08	1.17			3.26	3.20	3.27
wind	0.0 m/s	velocity	4.73	7.73	7.80	7.94	8.02	7.94	7.94	7.87	7.66	7.87	8.97	7.33		7.82	7.97	7.80

FINAL - 2017 Chinese National Games (Tianjin, CHN)*Henson (2017) - coaching observations*

date	04-Sep-17	time	2.68	3.75	4.82	5.85	6.86	7.93	8.97	10.03	11.11	12.19		13.34				
reaction time		interval		1.07	1.07	1.03	1.01	1.07	1.04	1.06	1.08	1.08	1.15			3.17	3.12	3.22
wind	-0.2 m/s	velocity	4.85	7.94	7.94	8.25	8.42	7.94	8.17	8.02	7.87	7.87	9.13	7.50		8.04	8.17	7.92

Wang Huiqiong (CHN) (1990)**Heptathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)***CAA Hurdle Development (2021)*

date	24-Jun-21	time	2.95	4.15	5.35	6.55	7.76	8.97	10.19	11.42	12.74	14.06		15.72				
reaction time	0.217	interval		1.20	1.20	1.20	1.21	1.21	1.22	1.23	1.32	1.32	1.66			3.60	3.64	3.87
wind	0.3 m/s	velocity	4.41	7.08	7.08	7.08	7.02	7.02	6.97	6.91	6.44	6.44	6.05	6.36		7.08	7.01	6.59

Heptathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)*CAA Hurdle Development (2019)*

date	23-Aug-19	time	2.92	4.10	5.26	6.41	7.57	8.72	9.94	11.18	12.43	13.68		15.08				
reaction time	0.230	interval		1.18	1.16	1.15	1.16	1.15	1.22	1.24	1.25	1.25	1.40			3.49	3.53	3.74
wind	?? m/s	velocity	4.45	7.20	7.33	7.39	7.33	7.39	6.97	6.85	6.80	6.80	7.50	6.63		7.31	7.22	6.82

Heptathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	08-Jul-19	time	2.88	4.05	5.22	6.37	7.52	8.67	9.85	11.03	12.26	13.51		14.87				
reaction time	0.282	interval		1.17	1.17	1.15	1.15	1.15	1.18	1.18	1.23	1.25	1.36			3.49	3.48	3.66
wind	0.8 m/s	velocity	4.51	7.26	7.26	7.39	7.39	7.39	7.20	7.20	6.91	6.80	7.72	6.72		7.31	7.33	6.97

Wang Li (CHN) (1999)**FINAL - 2021 Chinese National Games (Xi'an, CHN)***CAA Hurdle Development (2021)*

date	22-Sep-21	time	2.53	3.63	4.70	5.73	6.76	7.80	8.83	9.86	10.96	12.03		13.29				
reaction time	0.175	interval		1.10	1.07	1.03	1.03	1.04	1.03	1.03	1.10	1.07	1.26			3.20	3.10	3.20
wind	0.1 m/s	velocity	5.14	7.73	7.94	8.25	8.25	8.17	8.25	8.25	7.73	7.94	7.98	7.52		7.97	8.23	7.97

FINAL - 2021 Chinese Student Games (Qingdao, CHN)*CAA Hurdle Development (2021)*

date	14-Jul-21	time	2.62	3.67	4.70	5.77	6.81	7.84	8.90	9.97	11.07	12.17		13.42				
reaction time		interval		1.05	1.03	1.07	1.04	1.03	1.06	1.07	1.10	1.10	1.25			3.15	3.13	3.27
wind	-0.7 m/s	velocity	4.96	8.10	8.25	7.94	8.17	8.25	8.02	7.94	7.73	7.73	8.04	7.45		8.10	8.15	7.80

Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)*CAA Hurdle Development (2021)*

date	25-Jun-21	time	2.67	3.75	4.80	5.87	6.94	7.99	9.06	10.13	11.28	12.41		13.65				
reaction time	0.173	interval		1.08	1.05	1.07	1.07	1.05	1.07	1.07	1.15	1.13	1.24			3.20	3.19	3.35
wind	-1.6 m/s	velocity	4.87	7.87	8.10	7.94	7.94	8.10	7.94	7.94	7.39	7.52	8.10	7.33		7.97	7.99	7.61

FINAL - 2021 Chinese East Region Athletics Meeting (Fuzhou, CHN)*CAA Hurdle Development (2021)*

date	23-May-21	time	2.71	3.80	4.85	5.93	6.98	8.05	9.12	10.25	11.35	12.49		13.77				
reaction time	0.167	interval		1.09	1.05	1.08	1.05	1.07	1.07	1.13	1.10	1.14	1.28			3.22	3.19	3.37
wind	-0.5 m/s	velocity	4.80	7.80	8.10	7.87	8.10	7.94	7.94	7.52	7.73	7.46	7.85	7.26		7.92	7.99	7.57

FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)*CAA Hurdle Development (2021)*

date	08-Apr-21	time	2.72	3.80	4.88	6.00	7.08	8.20	9.32	10.44	11.60	12.76		14.05				
reaction time		interval		1.08	1.08	1.12	1.08	1.12	1.12	1.12	1.16	1.16	1.29			3.28	3.32	3.44
wind	-0.1 m/s	velocity	4.78	7.87	7.87	7.59	7.87	7.59	7.59	7.59	7.33	7.33	7.79	7.12		7.77	7.68	7.41

FINAL - 2020 Chinese National Championships (Shaoxing, CHN)*CAA Hurdle Development (2020)*

date	15-Sep-20	time	2.65	3.76	4.85	5.91	6.97	8.03	9.10	10.17	11.27	12.39		13.61				
reaction time	0.158	interval		1.11	1.09	1.06	1.06	1.06	1.07	1.07	1.10	1.12	1.22			3.26	3.19	3.29
wind	-0.4 m/s	velocity	4.91	7.66	7.80	8.02	8.02	8.02	7.94	7.94	7.73	7.59	8.24	7.35		7.82	7.99	7.75

Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)*CAA Hurdle Development (2020)*

date	15-Sep-20	time	2.69	3.76	4.82	5.89	6.95	8.03	9.11	10.23	11.34	12.46		13.64				
reaction time	0.172	interval		1.07	1.06	1.07	1.06	1.08	1.08	1.12	1.11	1.12	1.18			3.20	3.22	3.35
wind	0.3 m/s	velocity	4.83	7.94	8.02	7.94	8.02	7.87	7.87	7.59	7.66	7.59	8.52	7.33		7.97	7.92	7.61

Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)*CAA Hurdle Development (2019)*

date	23-Aug-19	time	2.82	3.95										dnf				
reaction time	0.174	interval		1.13														
wind	0.2 m/s	velocity	4.61	7.52														

FINAL - 2019 Chinese National Championships (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	08-Jul-19	time	2.70	3.75	4.80	5.84	6.89	7.94	9.01	10.09	11.18	12.28		13.46	6 / 4				
reaction time	0.174	interval		1.05	1.05	1.04	1.05	1.05	1.07	1.08	1.09	1.10	1.18	PB		3.14	3.17	3.27	
wind	0.2 m/s	velocity	4.81	8.10	8.10	8.17	8.10	8.10	7.94	7.87	7.80	7.73	8.90	7.43		8.12	8.04	7.80	
Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)																			
date	08-Jul-19	time	2.70	3.76	4.82	5.88	6.92	7.97	9.02	10.10	11.20	12.32		13.56	6 / 1				
reaction time	0.178	interval		1.06	1.06	1.06	1.04	1.05	1.05	1.08	1.10	1.12	1.24			3.18	3.14	3.30	
wind	0.5 m/s	velocity	4.81	8.02	8.02	8.02	8.17	8.10	8.10	7.87	7.73	7.59	8.47	7.37		8.02	8.12	7.73	
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)																			
date	30-May-19	time	2.68	3.77	4.83	5.88	6.92	7.97	9.04	10.12	11.18	12.31		13.51	8 / 2				
reaction time	0.170	interval		1.09	1.06	1.05	1.04	1.05	1.07	1.08	1.06	1.13	1.20	PB		3.20	3.16	3.27	
wind	-0.1 m/s	velocity	4.85	7.80	8.02	8.10	8.17	8.10	7.94	7.87	8.02	7.52	8.75	7.40		7.97	8.07	7.80	
FINAL - 2019 Chinese National Grand Prix 3 (Jinhai, CHN)																			
date	23-May-19	time	2.70	3.80	4.86	5.92	6.98	8.04	9.14	10.22	11.32	12.46		13.75	3 / 7				
reaction time	0.179	interval		1.10	1.06	1.06	1.06	1.06	1.10	1.08	1.10	1.14	1.29			3.22	3.22	3.32	
wind	0.4 m/s	velocity	4.81	7.73	8.02	8.02	8.02	8.02	7.73	7.87	7.73	7.46	8.14	7.27		7.92	7.92	7.68	
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																			
date	13-Apr-19	time	2.73	3.84	4.93	6.01	7.11	8.22	9.36	10.50	11.68	12.87		14.22	8 / 8				
reaction time	0.186	interval		1.11	1.09	1.08	1.10	1.11	1.14	1.14	1.18	1.19	1.35			3.28	3.35	3.51	
wind	0.3 m/s	velocity	4.76	7.66	7.80	7.87	7.73	7.66	7.46	7.46	7.20	7.14	7.78	7.03		7.77	7.61	7.26	
Heat 3 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																			
date	13-Apr-19	time	2.68	3.76	4.82	5.90	6.95	8.03	9.11	10.25	11.39	12.56		13.86	2 / 2				
reaction time	0.192	interval		1.08	1.06	1.08	1.05	1.08	1.08	1.14	1.14	1.17	1.30			3.22	3.21	3.45	
wind	1.0 m/s	velocity	4.85	7.87	8.02	7.87	8.10	7.87	7.87	7.46	7.46	7.26	8.08	7.22		7.92	7.94	7.39	
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																			
date	09-Apr-19	time	2.73	3.80	4.88	5.96	7.04	8.13	9.22	10.32	11.43	12.56		13.81	2 / 7				
reaction time	0.179	interval		1.07	1.08	1.08	1.08	1.09	1.09	1.10	1.11	1.13	1.25			3.23	3.26	3.34	
wind	0.1 m/s	velocity	4.76	7.94	7.87	7.87	7.87	7.80	7.80	7.73	7.66	7.52	8.40	7.24		7.89	7.82	7.63	
Heat 2 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																			
date	08-Apr-19	time	2.73	3.83	4.93	5.99	7.06	8.14	9.24	10.32	11.45	12.58		13.83	5 / 2				
reaction time	0.178	interval		1.10	1.10	1.06	1.07	1.08	1.10	1.08	1.13	1.13	1.25			3.26	3.25	3.34	
wind	-0.2 m/s	velocity	4.76	7.73	7.73	8.02	7.94	7.87	7.73	7.87	7.52	7.52	8.40	7.23		7.82	7.85	7.63	
B-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)																			
date	20-Mar-19	time	2.70	3.80	4.89	5.97	7.04							8.51	2 / 4				
reaction time		interval		1.10	1.09	1.08	1.07						1.47			3.27			
		velocity	4.81	7.73	7.80	7.87	7.94						8.84	7.05		7.80			
A-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)																			
date	24-Feb-19	time	2.70	3.80	4.89	5.97	7.05							8.52	4 / 3				
reaction time		interval		1.10	1.09	1.08	1.08						1.47			3.27			
		velocity	4.81	7.73	7.80	7.87	7.87						8.84	7.04		7.80			
A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)																			
date	20-Feb-19	time	2.73	3.85	4.94	6.00	7.07							8.50	5 / 4				
reaction time		interval		1.12	1.09	1.06	1.07						1.43	PB		3.27			
		velocity	4.76	7.59	7.80	8.02	7.94						9.09	7.06		7.80			
FINAL - 2018 Chinese National Championships (Taiyuan, CHN)																			
date	16-Sep-18	time	2.72	3.82	4.86	5.92	6.97	8.04	9.11	10.21	11.33	12.45		13.62	8 / 7				
reaction time		interval		1.10	1.04	1.06	1.05	1.07	1.07	1.10	1.12	1.12	1.17	PB		3.20	3.19	3.34	
wind	-0.2 m/s	velocity	4.78	7.73	8.17	8.02	8.10	7.94	7.94	7.73	7.59	7.59	8.97	7.34		7.97	7.99	7.63	
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)																			
date	15-Sep-18	time	2.72	3.80	4.89	5.94	7.01	8.06	9.14	10.24	11.35	12.46		13.64	6 / 3				
reaction time		interval		1.08	1.09	1.05	1.07	1.05	1.08	1.10	1.11	1.11	1.18	PB		3.22	3.20	3.32	
wind	-0.6 m/s	velocity	4.78	7.87	7.80	8.10	7.94	8.10	7.87	7.73	7.66	7.66	8.90	7.33		7.92	7.97	7.68	
Wang Meiqing (CHN) (1996)																			
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heptathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																			
date	24-Jun-21	time	2.77	3.92	5.07	6.20	7.33	8.47	9.64	10.79	11.96	13.16		14.42	8 / 1				
reaction time	0.216	interval		1.15	1.15	1.13	1.13	1.14	1.17	1.15	1.17	1.20	1.26			3.43	3.44	3.52	
wind	0.3 m/s	velocity	4.69	7.39	7.39	7.52	7.52	7.46	7.26	7.39	7.26	7.08	7.98	6.93		7.43	7.41	7.24	
Heptathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																			
date	23-Aug-19	time	2.77	3.92	5.09	6.24	7.42	8.58	9.74	10.94	12.13	13.35		14.60	7 / 3				
reaction time	0.206	interval		1.15	1.17	1.15	1.18	1.16	1.16	1.20	1.19	1.22	1.25			3.47	3.50	3.61	

wind	?? m/s	velocity	4.69	7.39	7.26	7.39	7.20	7.33	7.33	7.08	7.14	6.97	8.40	6.85	7.35	7.29	7.06
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Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)

CAA Hurdle Development (2019)

date	08-Jul-19	time	2.78	3.94	5.05	6.16	7.29	8.44	9.62	10.79	11.98	13.20		14.47	5 / 1			
reaction time	0.186	interval		1.16	1.11	1.11	1.13	1.15	1.18	1.17	1.19	1.22	1.27	PB		3.38	3.46	3.58
wind	0.1 m/s	velocity	4.68	7.33	7.66	7.66	7.52	7.39	7.20	7.26	7.14	6.97	8.27	6.91		7.54	7.37	7.12

Wang Qingling (CHN) (1993)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heptathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	24-Jun-21	time	2.73	3.80	4.90	5.97	7.06	8.14	9.22	10.34	11.46	12.59		13.84	8 / 1			
reaction time	0.200	interval		1.07	1.10	1.07	1.09	1.08	1.08	1.12	1.12	1.13	1.25			3.24	3.25	3.37
wind	0.6 m/s	velocity	4.76	7.94	7.73	7.94	7.80	7.87	7.87	7.59	7.59	7.52	8.04	7.23		7.87	7.85	7.57

FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)

CAA Hurdle Development (2021)

date	18-Mar-21	time	2.69	3.74	4.79	5.84	6.87							8.45	5 / 4			
reaction time	0.185	interval		1.05	1.05	1.05	1.03						1.58			3.15		
		velocity	4.83	8.10	8.10	8.10	8.25						8.23	7.10		8.10		

Heptathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

CAA Hurdle Development (2019)

date	23-Aug-19	time	2.75	3.84	4.92	5.97	7.06	8.14	9.21	10.33	11.43	12.59		13.82	4 / 1			
reaction time	0.201	interval		1.09	1.08	1.05	1.09	1.08	1.07	1.12	1.10	1.16	1.23			3.22	3.24	3.38
wind	?? m/s	velocity	4.73	7.80	7.87	8.10	7.80	7.87	7.94	7.59	7.73	7.33	8.54	7.24		7.92	7.87	7.54

Heptathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)

CAA Hurdle Development (2019)

date	08-Jul-19	time	2.70	3.77	4.84	5.91	6.99	8.07	9.14	10.24	11.34	12.48		13.71	4 / 1			
reaction time	0.189	interval		1.07	1.07	1.07	1.08	1.08	1.07	1.10	1.10	1.14	1.23			3.21	3.23	3.34
wind	0.8 m/s	velocity	4.81	7.94	7.94	7.94	7.87	7.87	7.94	7.73	7.73	7.46	8.54	7.29		7.94	7.89	7.63

Wang Yan (CHN) (2000)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN)

CAA Hurdle Development (2019)

date	14-Aug-19	time	2.75	3.89	5.06	6.21	7.36	8.51	9.68	10.88	12.06	13.30		14.64	4 / 5			
reaction time	0.170	interval		1.14	1.17	1.15	1.15	1.15	1.17	1.20	1.18	1.24	1.34			3.46	3.47	3.62
wind	-0.2 m/s	velocity	4.73	7.46	7.26	7.39	7.39	7.39	7.26	7.08	7.20	6.85	7.84	6.83		7.37	7.35	7.04

Wang Yingjie (CHN) (2003)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2021 Central China Athletics Meeting (Ji'an, CHN)

CAA Hurdle Development (2021)

date	11-May-21	time	2.97	4.27					12.31	13.73	15.18		16.67	9 / 7			
reaction time		interval		1.30					8.04	1.42	1.45	1.49					
wind	-0.6 m/s	velocity	4.38	6.54					5.29	5.99	5.86	6.74	6.00				

Webster, Alexandra (USA) (2002)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)

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

date	29-Jun-24	time	2.63	3.67	4.71	5.71	6.69	7.65	8.62	9.61	10.64	11.67		12.84	7 / 4			
reaction time		interval		1.04	1.04	1.00	0.98	0.96	0.97	0.99	1.03	1.03	1.17			3.08	2.91	3.05
wind	1.0 m/s	velocity	4.94	8.17	8.17	8.50	8.67	8.85	8.76	8.59	8.25	8.25	8.59	7.79		8.28	8.76	8.36

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

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

date	28-Jun-24	time	2.63	3.67	4.69	5.70	6.70	7.70	8.69	9.67	10.67	11.67		12.83	3 / 3			
reaction time		interval		1.04	1.02	1.01	1.00	1.00	0.99	0.98	1.00	1.00	1.16			3.07	2.99	2.98
wind	1.7 m/s	velocity	4.94	8.17	8.33	8.42	8.50	8.50	8.59	8.67	8.50	8.50	8.66	7.79		8.31	8.53	8.56

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

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

date	08-Jun-24	time	2.67	3.71	4.74	5.75	6.75	7.76	8.74	9.72	10.71		dnf	1 / 9				
reaction time		interval		1.04	1.03	1.01	1.00	1.01	0.98	0.98	0.99					3.08	2.99	
wind	-0.5 m/s	velocity	4.87	8.17	8.25	8.42	8.50	8.42	8.67	8.67	8.59					8.28	8.53	

Wei Huang (CHN) (2002)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (76cm)

CAA Hurdle Development (2019)

date	14-Aug-19	time	2.75	3.89	5.04	6.17	7.31	8.46	9.63	10.78	11.95	13.13		14.47	9 / 4			
reaction time	0.160	interval		1.14	1.15	1.13	1.14	1.15	1.17	1.15	1.17	1.18	1.34			3.42	3.46	3.50
wind	0.0 m/s	velocity	4.73	7.46	7.39	7.52	7.46	7.39	7.26	7.39	7.26	7.20	7.84	6.91		7.46	7.37	7.29

Wei Yuhui (CHN) (2002)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2023 Chinese National Grand Prix 4 (Chongqing, CHN)

Shandong Athletics Sport Science (2023)

date	03-Jun-23	time	2.72	3.80	4.88	5.91	6.96	8.01	9.06	10.14	11.26	12.38		13.63	3 / 4			
reaction time	0.222	interval		1.08	1.08	1.03	1.05	1.05	1.05	1.08	1.12	1.12	1.25			3.19	3.15	3.32
wind	0.3 m/s	velocity	4.78	7.87	7.87	8.25	8.10	8.10	8.10	7.87	7.59	7.59	8.04	7.34		7.99	8.10	7.68

FINAL - 2023 Chinese National Grand Prix 3 (Taizhou, CHN)

Shandong Athletics Sport Science (2023)

date	27-May-23	time	2.78	3.88	4.97	6.03	7.10	8.17	9.25	10.35	11.47	12.60		13.87	3 / 5			
reaction time	0.162	interval		1.10	1.09	1.06	1.07	1.07	1.08	1.10	1.12	1.13	1.27			3.25	3.22	3.35
wind	-1.2 m/s	velocity	4.68	7.73	7.80	8.02	7.94	7.94	7.87	7.73	7.59	7.52	7.91	7.21		7.85	7.92	7.61

Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)

date	25-Jun-21	time	2.77	3.90	5.02	6.12	7.22	8.33	9.44	10.58	11.74	12.96		14.31	CAA Hurdle Development (2021)			
reaction time	0.167	interval		1.13	1.12	1.10	1.10	1.11	1.11	1.14	1.16	1.22	1.35			3.35	3.32	3.52
wind	-0.3 m/s	velocity	4.69	7.52	7.59	7.73	7.73	7.66	7.66	7.46	7.33	6.97	7.44	6.99		7.61	7.68	7.24

Heat 3 - 2021 National Grand Prix (Chengdu, CHN)

date	02-Apr-21	time	2.76	3.88	4.98	6.08	7.16	8.26	9.36	10.48	11.64	12.80		14.13	CAA Hurdle Development (2021)			
reaction time	0.168	interval		1.12	1.10	1.10	1.08	1.10	1.10	1.12	1.16	1.16	1.33	PB		3.32	3.28	3.44
wind	1.0 m/s	velocity	4.71	7.59	7.73	7.73	7.87	7.73	7.73	7.59	7.33	7.33	7.56	7.08		7.68	7.77	7.41

B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)

date	13-Mar-21	time	2.75	3.85	4.94	6.04	7.14							8.68	CAA Hurdle Development (2021)			
reaction time	0.160	interval		1.10	1.09	1.10	1.10						1.54			3.29		
		velocity	4.73	7.73	7.80	7.73	7.73						8.44	6.91		7.75		

Heat 3 - 2021 National Indoor Grand Prix (Chengdu, CHN)

date	13-Mar-21	time	2.77	3.87	4.95	6.02	7.09							8.64	CAA Hurdle Development (2021)			
reaction time	0.171	interval		1.10	1.08	1.07	1.07						1.55	PB		3.25		
		velocity	4.69	7.73	7.87	7.94	7.94						8.39	6.94		7.85		

Weißenberg, Sophie (GER) (1997)

Heptathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
date	19-Aug-23	time	2.73	3.78	4.87	5.91	6.94	7.98	9.06	10.14	11.24	12.32		13.58	Henson (2024) - Athlete First: 2023 year end hurdle report			
reaction time	0.182	interval	7 steps	1.05	1.09	1.04	1.03	1.04	1.08	1.08	1.10	1.08	1.26			3.18	3.15	3.26
wind	-0.2 m/s	velocity	4.76	8.10	7.80	8.17	8.25	8.17	7.87	7.87	7.73	7.87	7.98	7.36		8.02	8.10	7.82

Heptathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

date	17-Jul-22	time	2.76	3.83	4.90	5.93	7.00	8.05	9.11	10.18	11.23	12.33		13.51	Henson (2024) - Athlete First: 2022 year end hurdle report			
reaction time	0.153	interval	7 steps	1.07	1.03	1.07	1.05	1.06	1.07	1.05	1.10	1.18	PB			3.17	3.18	3.22
wind	1.4 m/s	velocity	4.71	7.94	7.94	8.25	7.94	8.10	8.02	7.94	8.10	7.73	8.52	7.40		8.04	8.02	7.92

Wells, Kellie (USA) (1982)

FINAL - 2012 Olympic Games (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		
date	07-Aug-12	time	2.46	3.46	4.42	5.38	6.36	7.34	8.32	9.30	10.28	11.30		12.48	Henson (2021) - Athlete First: major championships report			
reaction time	0.137	interval		1.00	0.96	0.96	0.98	0.98	0.98	0.98	1.02	1.18	PB			2.92	2.94	2.98
wind	-0.2 m/s	velocity	5.28	8.50	8.85	8.85	8.67	8.67	8.67	8.67	8.67	8.33	8.90	8.01		8.73	8.67	8.56

Heat 1 - 2011 IAAF World Championships (Daegu, KOR)

date	02-Sep-11	time	2.60	3.64	4.62	5.59	6.59	7.57	8.55	9.54	10.56	11.58		12.73	KSSB (2011) - biomechanical analysis of women's 100m hurdle			
reaction time	0.182	interval		1.04	0.98	0.97	1.00	0.98	0.98	0.99	1.02	1.02	1.15			2.99	2.96	3.03
wind	1.0 m/s	velocity	5.00	8.17	8.67	8.76	8.50	8.67	8.67	8.59	8.33	8.33	9.13	7.86		8.53	8.61	8.42

Wen Xiaoyun (CHN) (1999)

Heptathlon - 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		
date	08-Jul-19	time	3.15	4.50	5.77	6.99	8.19	9.41	10.61	11.86	13.11	14.36		15.69	CAA Hurdle Development (2019)			
reaction time	0.245	interval		1.35	1.27	1.22	1.20	1.22	1.20	1.25	1.25	1.25	1.33			3.84	3.62	3.75
wind	0.8 m/s	velocity	4.13	6.30	6.69	6.97	7.08	6.97	7.08	6.80	6.80	6.80	7.89	6.37		6.64	7.04	6.80

Wengler, Gudrun (FRG)

FINAL - 1974 West German National Championships (Hannover, FRG)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	28-Jul-74	time	2.55			6.93								14.01	Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften		
reaction time		interval				4.38						7.08		/ 4			
wind	2.8 m/s	velocity	5.10			7.76						7.49	7.14				

Wennersten, Julia (SWE) (2001)

FINAL - 2020 Bauhaus Galan (Stockholm, SWE) (TV Analysis)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
date	23-Aug-20	time	2.60	3.70	4.77	5.87	6.97	8.03	9.13	10.20	11.33	12.47		13.72	Henson (2020) - Athlete First: 2020 year end hurdle report			
reaction time	0.144	interval		1.10	1.07	1.10	1.10	1.06	1.10	1.07	1.13	1.14	1.25			3.27	3.26	3.34
wind	1.4 m/s	velocity	5.00	7.73	7.94	7.73	7.73	8.02	7.73	7.94	7.52	7.46	8.04	7.29		7.80	7.82	7.63

West, Tori (AUS) (1995)

Heptathlon - Heat 1 - 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		
date	08-Aug-24	time	2.52	3.65	4.73	5.80	6.86	7.91	8.98	10.06	11.15	12.26		13.62	Paris 2024 Olympic Games - Results Book (2024)			
reaction time	0.112	interval		1.13	1.08	1.07	1.06	1.05	1.07	1.08	1.09	1.11	1.36	PB		3.28	3.18	3.28
wind	0.1 m/s	velocity	5.16	7.52	7.87	7.94	8.02	8.10	7.94	7.87	7.80	7.66	7.39	7.34		7.77	8.02	7.77

Westerlund, Elin (SWE) (1990)

FINAL - 2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
date	10-Jun-18	time	2.56	3.62	4.70	5.76	6.78	7.80	8.84	9.90	10.96	12.04		13.29	Henson (2020) - Athlete First: 2018 year end hurdle report			
reaction time	0.148	interval		1.06	1.08	1.06	1.02	1.02	1.04	1.06	1.06	1.08	1.25			3.20	3.08	3.20
wind	1.3 m/s	velocity	5.08	8.02	7.87	8.02	8.33	8.33	8.17	8.02	8.02	7.87	8.40	7.52		7.97	8.28	7.97

FINAL - 2016 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)

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

date	16-Jun-16	time	2.53	3.57	4.60	5.64	6.68	7.72	8.77	9.91	11.02	12.17	13.55	1 / 8						
reaction time	0.148	interval		1.04	1.03	1.04	1.04	1.04	1.05	1.14	1.11	1.15	1.38				3.11	3.13	3.40	
wind	-0.4 m/s	velocity	5.14	8.17	8.25	8.17	8.17	8.17	8.10	7.46	7.66	7.39	7.61	7.38			8.20	8.15	7.50	
FINAL - 2010 Swedish National Championships (Falun, SWE)														<i>Blomkvist (2010) - www.sub13.se</i>						
date	22-Aug-10	time	2.75	3.82	4.87	5.90	6.98	8.03	9.10	10.19	11.30	12.40	13.60	/ 1						
reaction time		interval		1.07	1.05	1.03	1.08	1.05	1.07	1.09	1.11	1.10	1.20				3.15	3.20	3.30	
wind	-0.2 m/s	velocity	4.73	7.94	8.10	8.25	7.87	8.10	7.94	7.80	7.66	7.73	8.75	7.35			8.10	7.97	7.73	
White, Kayla (USA) (1996)																				
FINAL - 2019 NCAA Indoor Championships (Birmingham, AL) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>						
date	9-Mar-19	time	2.50	3.52	4.50	5.52	6.53						7.92	5 / 2						
reaction time	0.146	interval		1.02	0.98	1.02	1.01						1.39	PB			3.02			
wind		velocity	5.20	8.33	8.67	8.33	8.42						9.35	7.58			8.44			
Whyte, Angela (CAN) (1980)																				
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)														<i>Henson (2021) - Athlete First: major championships report</i>						
date	17-Aug-13	time	2.52	3.56	4.56	5.54	6.52	7.50	8.48	9.48	10.50	11.52	12.78	9 / 6						
reaction time	0.152	interval		1.04	1.00	0.98	0.98	0.98	0.98	1.00	1.02	1.02	1.26				3.02	2.94	3.04	
wind	-0.6 m/s	velocity	5.16	8.17	8.50	8.67	8.67	8.67	8.67	8.50	8.33	8.33	8.33	7.82			8.44	8.67	8.39	
FINAL - 2004 Olympic Games (Athens, GRE)														<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>						
date	24-Aug-04	time	2.56	3.59	4.58	5.57	6.57	7.56	8.53	9.55	10.61	11.64	12.81	7 / 6						
reaction time	0.139	interval		1.03	0.99	0.99	1.00	0.99	0.97	1.02	1.06	1.03	1.17				3.01	2.96	3.11	
wind	0.3 m/s	velocity	5.08	8.25	8.59	8.59	8.50	8.59	8.76	8.33	8.02	8.25	8.97	7.81			8.47	8.61	8.20	
Williams, Camee (USA) (1980)																				
FINAL - 1996 USATF National Junior Championships														<i>USATF Women's Sprint Development (1996)</i>						
date	29-Jun-96	time	2.57	3.73	4.83	5.91	7.02	8.14	9.29	10.46	11.63	12.80	14.31	8 / 5						
reaction time		interval		1.16	1.10	1.08	1.11	1.12	1.15	1.17	1.17	1.17	1.51				3.34	3.38	3.51	
wind	-2.5 m/s	velocity	5.06	7.33	7.73	7.87	7.66	7.59	7.39	7.26	7.26	7.26	6.95	6.99			7.63	7.54	7.26	
Williams, Danielle (JAM) (1992)																				
FINAL - 2024 Memorial van damme (Brussels, BEL)														<i>Omega Timing (2024) - diamond league race analysis</i>						
date	14-Sep-24	time	2.56	3.55	4.54	5.50	6.47	7.44	8.42	9.44	10.44	11.48	12.62	7 / 5						
reaction time	0.129	interval		0.99	0.99	0.96	0.97	0.97	0.98	1.02	1.00	1.04	1.14				2.94	2.92	3.06	
wind	0.4 m/s	velocity	5.08	8.59	8.59	8.85	8.76	8.76	8.67	8.33	8.50	8.17	8.82	7.92			8.67	8.73	8.33	
FINAL - 2024 Weltklasse (Zürich, SUI)														<i>Omega Timing (2024) - diamond league race analysis</i>						
date	05-Sep-24	time	2.42	3.46	4.43	5.39	6.35	7.30	8.29	9.28	10.29	11.32	12.57	2 / 6						
reaction time	0.108	interval		1.04	0.97	0.96	0.96	0.95	0.99	0.99	1.01	1.03	1.25				2.97	2.90	3.03	
wind	0.8 m/s	velocity	5.37	8.17	8.76	8.85	8.85	8.95	8.59	8.59	8.42	8.25	8.04	7.96			8.59	8.79	8.42	
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2024) - diamond league race analysis</i>						
date	25-Aug-24	time	2.42	3.43	4.37	5.33	6.28	7.23	8.21	9.19	10.19	11.18	12.38	4 / 3						
reaction time	0.129	interval		1.01	0.94	0.96	0.95	0.95	0.98	0.98	1.00	0.99	1.20				2.91	2.88	2.97	
wind	-0.5 m/s	velocity	5.37	8.42	9.04	8.85	8.95	8.95	8.67	8.67	8.50	8.59	8.37	8.08			8.76	8.85	8.59	
Heat A - 2024 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2024) - diamond league race analysis</i>						
date	25-Aug-24	time	2.37	3.40	4.36	5.33	6.26	7.22	8.18	9.15	10.14	11.14	12.37	4 / 1						
reaction time	0.116	interval		1.03	0.96	0.97	0.93	0.96	0.96	0.97	0.99	1.00	1.23				2.96	2.85	2.96	
wind	-0.3 m/s	velocity	5.49	8.25	8.85	8.76	9.14	8.85	8.85	8.76	8.59	8.50	8.17	8.08			8.61	8.95	8.61	
FINAL - 2024 Athletissima (Lausanne, SUI)														<i>Omega Timing (2024) - diamond league race analysis</i>						
date	22-Aug-24	time	2.42	3.45	4.44	5.40	6.36	7.32	8.31	9.31	10.30	11.31	12.53	1 / 5						
reaction time	0.138	interval		1.03	0.99	0.96	0.96	0.96	0.99	1.00	0.99	1.01	1.22				2.98	2.91	3.00	
wind	-0.9 m/s	velocity	5.37	8.25	8.59	8.85	8.85	8.85	8.59	8.50	8.59	8.42	8.24	7.98			8.56	8.76	8.50	
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>						
date	09-Aug-24	time	2.40	3.43	4.47	5.50	6.47	7.49	8.53	9.54	10.54	11.57	12.82	5 / 6						
reaction time	0.121	interval		1.03	1.04	1.03	0.97	1.02	1.04	1.01	1.00	1.03	1.25				3.10	3.03	3.04	
wind	0.5 m/s	velocity	5.42	8.25	8.17	8.25	8.76	8.33	8.17	8.42	8.50	8.25	8.04	7.80			8.23	8.42	8.39	
Heat 4 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>						
date	07-Aug-24	time	2.39	3.42	4.41	5.38	6.35	7.33	8.31	9.31	10.31	11.33	12.59	9 / 1						
reaction time	0.119	interval		1.03	0.99	0.97	0.97	0.98	0.98	1.00	1.00	1.02	1.26				2.99	2.93	3.02	
wind	0.0 m/s	velocity	5.44	8.25	8.59	8.76	8.76	8.67	8.67	8.50	8.50	8.33	7.98	7.94			8.53	8.70	8.44	
FINAL - 2024 Jamaican National Senior Championships (Kingston, JAM) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>						
date	28-Jun-24	time	2.52	3.53	4.50	5.50	6.47	7.44	8.42	9.42	10.42	11.44	12.53	4 / 2						
reaction time	0.168	interval		1.01	0.97	1.00	0.97	0.97	0.98	1.00	1.00	1.02	1.09				2.98	2.92	3.02	
wind	0.1 m/s	velocity	5.16	8.42	8.76	8.50	8.76	8.76	8.67	8.50	8.50	8.33	9.22	7.98			8.56	8.73	8.44	

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

date	25-May-24	time	2.44	3.47	4.46	5.44	6.41	7.38	8.36	9.36	10.37	11.41	12.65	5 / 6			
reaction time	0.127	interval		1.03	0.99	0.98	0.97	0.97	0.98	1.00	1.01	1.04	1.24		3.00	2.92	3.05
wind	-0.9 m/s	velocity	5.33	8.25	8.59	8.67	8.76	8.76	8.67	8.50	8.42	8.17	8.10	7.91	8.50	8.73	8.36

FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	27-Apr-24	time	2.50	3.54	4.52	5.50	6.47	7.45	8.45	9.45	10.47	11.52	12.74	3 / 4 3			
reaction time	0.123	interval		1.04	0.98	0.98	0.97	0.98	1.00	1.00	1.02	1.05	1.22		3.00	2.95	3.07
wind	0.3 m/s	velocity	5.20	8.17	8.67	8.67	8.76	8.67	8.50	8.50	8.33	8.10	8.24	7.85	8.50	8.64	8.31

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

date	20-Apr-24	time	2.42	3.45	4.44	5.41	6.37	7.32	8.28	9.27	10.28	11.31	12.56	3 / 4			
reaction time	0.142	interval		1.03	0.99	0.97	0.96	0.95	0.96	0.99	1.01	1.03	1.25		2.99	2.87	3.03
wind	-0.2 m/s	velocity	5.37	8.25	8.59	8.76	8.85	8.95	8.85	8.59	8.42	8.25	8.04	7.96	8.53	8.89	8.42

FINAL - 2024 Millrose Games (New York, NY) (TV Analysis)*Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date	11-Feb-24	time	2.52	3.54	4.52	5.50	6.46						7.79	5 / 2			
reaction time	0.127	interval		1.02	0.98	0.98	0.96						1.33		2.98		
wind		velocity	5.16	8.33	8.67	8.67	8.85						9.77	7.70	8.56		

FINAL - 2023 Prefontaine Classic (Eugene, OR)*Omega Timing (2023) - diamond league race analysis*

date	17-Sep-23	time	2.41	3.44	4.43	5.40	6.36	7.31	8.27	9.25	10.23	11.23	12.47	3 / 4			
reaction time	0.140	interval		1.03	0.99	0.97	0.96	0.95	0.96	0.98	0.98	1.00	1.24		2.99	2.87	2.96
wind	1.8 m/s	velocity	5.39	8.25	8.59	8.76	8.85	8.95	8.85	8.67	8.67	8.50	8.10	8.02	8.53	8.89	8.61

FINAL - 2023 Weltklasse (Zürich, SUI)*Omega Timing (2023) - diamond league race analysis*

date	31-Aug-23	time	2.37	3.40	4.38	5.35	6.32	7.29	8.27	9.27	10.28	11.30	12.54	3 / 1			
reaction time	0.122	interval		1.03	0.98	0.97	0.97	0.97	0.98	1.00	1.01	1.02	1.24		2.98	2.92	3.03
wind	-0.2 m/s	velocity	5.49	8.25	8.67	8.76	8.76	8.76	8.67	8.50	8.42	8.33	8.10	7.97	8.56	8.73	8.42

FINAL - 2023 World Athletics Championships (Budapest, HUN)*Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date	24-Aug-23	time	2.53	3.51	4.48	5.45	6.41	7.37	8.33	9.32	10.31	11.32	12.43	2 / 1			
reaction time	0.138	interval		0.98	0.97	0.97	0.96	0.96	0.96	0.99	0.99	1.01	1.11		2.92	2.88	2.99
wind	-0.2 m/s	velocity	5.14	8.67	8.76	8.76	8.85	8.85	8.85	8.59	8.59	8.42	9.05	8.05	8.73	8.85	8.53

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	23-Aug-23	time	2.51	3.50	4.48	5.44	6.40	7.38	8.35	9.34	10.34	11.36	12.50	4 / 3			
reaction time	0.133	interval		0.99	0.98	0.96	0.96	0.98	0.97	0.99	1.00	1.02	1.14		2.93	2.91	3.01
wind	-0.4 m/s	velocity	5.18	8.59	8.67	8.85	8.85	8.67	8.76	8.59	8.50	8.33	8.82	8.00	8.70	8.76	8.47

Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	22-Aug-23	time	2.50	3.47	4.44	5.41	6.37	7.34	8.30	9.28	10.28	11.32	12.51	3 / 3			
reaction time	0.116	interval		0.97	0.97	0.97	0.96	0.97	0.96	0.98	1.00	1.04	1.19		2.91	2.89	3.02
wind	0.1 m/s	velocity	5.20	8.76	8.76	8.76	8.85	8.76	8.85	8.67	8.50	8.17	8.45	7.99	8.76	8.82	8.44

FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)*Omega Timing (2023) - diamond league race analysis*

date	16-Jul-23	time	2.41	3.44	4.42	5.38	6.33	7.29	8.25	9.25	10.27	11.30	12.55	9 / 5			
reaction time	0.141	interval		1.03	0.98	0.96	0.95	0.96	0.96	1.00	1.02	1.03	1.25		2.97	2.87	3.05
wind	0.9 m/s	velocity	5.39	8.25	8.67	8.85	8.95	8.85	8.85	8.50	8.33	8.25	8.04	7.97	8.59	8.89	8.36

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	2.47	3.50	4.46	5.42	6.37	7.31	8.26	9.22	10.21	11.21	12.33	3 / 3			
reaction time	0.331	interval		1.03	0.96	0.96	0.95	0.94	0.95	0.96	0.99	1.00	1.12		2.95	2.84	2.95
wind	2.8 m/s	velocity	5.26	8.25	8.85	8.85	8.95	9.04	8.95	8.85	8.59	8.50	8.97	8.11	8.64	8.98	8.64

FINAL - 2023 USATF Los Angeles Grand Prix (Westwood, CA) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	27-May-23	time	2.53	3.53	4.52	5.48	6.44	7.40	8.40	9.38	10.40	11.42	12.59	1 / 6			
reaction time	0.437	interval		1.00	0.99	0.96	0.96	0.96	1.00	0.98	1.02	1.02	1.17		2.95	2.92	3.02
wind	-0.2 m/s	velocity	5.14	8.50	8.59	8.85	8.85	8.85	8.50	8.67	8.33	8.33	8.59	7.94	8.64	8.73	8.44

FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	21-May-23	time	2.53	3.54	4.50	5.46	6.39	7.34	8.29	9.27	10.25	11.26	12.38	4 / 2			
reaction time	0.521	interval		1.01	0.96	0.96	0.93	0.95	0.95	0.98	0.98	1.01	1.12		2.93	2.83	2.97
wind	3.5 m/s	velocity	5.14	8.42	8.85	8.85	9.14	8.95	8.95	8.67	8.67	8.42	8.97	8.08	8.70	9.01	8.59

FINAL - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	07-Aug-22	time	2.48	3.48	4.48	5.46	6.44	7.44	8.44	9.44	10.46	11.48	12.69	8 / 6			
reaction time	0.128	interval		1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.02	1.02	1.21		2.98	2.98	3.04
wind	-0.2 m/s	velocity	5.24	8.50	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.33	8.31	7.88	8.56	8.56	8.39

FINAL - 2022 World Athletics Championships (Eugene, OR)*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	24-Jul-22	time	2.49	3.47	4.43	5.38	6.33	7.27	8.27	9.25	10.26	11.30	12.44	2 / 6			
reaction time	0.105	interval		0.98	0.96	0.95	0.95	0.94	1.00	0.98	1.01	1.04	1.14		2.89	2.89	3.03

wind	2.5 m/s	velocity	5.22	8.67	8.85	8.95	8.95	9.04	8.50	8.67	8.42	8.17	8.82	8.04		8.82	8.82	8.42	
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	24-Jul-22	time	2.43	3.43	4.40	5.33	6.30	7.26	8.23	9.23	10.23	11.23		12.41		3 / 3			
reaction time	0.105	interval		1.00	0.97	0.93	0.97	0.96	0.97	1.00	1.00	1.00	1.18			2.90	2.90	3.00	
wind	0.9 m/s	velocity	5.35	8.50	8.76	9.14	8.76	8.85	8.76	8.50	8.50	8.50	8.52	8.06		8.79	8.79	8.50	
Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	23-Jul-22	time	2.53	3.56	4.56	5.54	6.53	7.53	8.53	9.53	10.53	11.63		12.87		8 / 2			
reaction time	0.194	interval		1.03	1.00	0.98	0.99	1.00	1.00	1.00	1.00	1.10	1.24			3.01	2.99	3.10	
wind	1.5 m/s	velocity	5.14	8.25	8.50	8.67	8.59	8.50	8.50	8.50	8.50	7.73	8.10	7.77		8.47	8.53	8.23	
FINAL - 2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	30-Jun-22	time	2.46	3.46	4.44	5.41	6.36	7.33	8.33	9.33	10.33	11.40		12.59		2 / 4			
reaction time	0.130	interval		1.00	0.98	0.97	0.95	0.97	1.00	1.00	1.00	1.07	1.19			2.95	2.92	3.07	
wind	-0.5 m/s	velocity	5.28	8.50	8.67	8.76	8.95	8.76	8.50	8.50	8.50	7.94	8.45	7.94		8.64	8.73	8.31	
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	09-Jun-22	time	2.47	3.48	4.48	5.50	6.48	7.48	8.50	9.52	10.60	11.65		12.90		7 / 5			
reaction time	0.131	interval		1.01	1.00	1.02	0.98	1.00	1.02	1.02	1.08	1.05	1.25			3.03	3.00	3.15	
wind	0.1 m/s	velocity	5.26	8.42	8.50	8.33	8.67	8.50	8.33	8.33	7.87	8.10	8.04	7.75		8.42	8.50	8.10	
FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	28-May-22	time	2.48	3.50	4.50	5.48	6.48	7.46	8.44	9.46	10.48	11.51		12.71		3 / 5			
reaction time	0.139	interval		1.02	1.00	0.98	1.00	0.98	0.98	1.02	1.02	1.03	1.20			3.00	2.96	3.07	
wind	-0.7 m/s	velocity	5.24	8.33	8.50	8.67	8.50	8.67	8.67	8.33	8.33	8.25	8.37	7.87		8.50	8.61	8.31	
FINAL - 2022 Puerto Rico International Athletics Classic (Ponce, PUR) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	12-May-22	time	2.46	3.48	4.47	5.46	6.44	7.42	8.40	9.38	10.42	11.47		12.67		4 / 3			
reaction time	0.172	interval		1.02	0.99	0.99	0.98	0.98	0.98	0.98	1.04	1.05	1.20			3.00	2.94	3.07	
wind	0.3 m/s	velocity	5.28	8.33	8.59	8.59	8.67	8.67	8.67	8.67	8.17	8.10	8.38	7.89		8.50	8.67	8.31	
FINAL - 2021 Memorial van Damme (Brussels, BEL) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	03-Sep-21	time	2.48	3.52	4.52	5.50	6.52	7.60	8.64	9.80						3 / --			
reaction time	0.129	interval		1.04	1.00	0.98	1.02	1.08	1.04	1.16							DQ	3.02	3.14
wind	0.7 m/s	velocity	5.24	8.17	8.50	8.67	8.33	7.87	8.17	7.33						8.44	8.12		
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	2.44	3.44	4.44	5.42	6.40	7.36	8.32	9.30	10.30	11.32		12.50		2 / 1			
reaction time	0.137	interval		1.00	1.00	0.98	0.98	0.96	0.96	0.98	1.00	1.02	1.18			2.98	2.90	3.00	
wind	1.7 m/s	velocity	5.33	8.50	8.50	8.67	8.67	8.85	8.85	8.67	8.50	8.33	8.52	8.00		8.56	8.79	8.50	
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	13-Jul-21	time	2.50	3.54	4.57	5.55	6.54	7.51	8.48	9.49	10.51	11.54		12.78		6 / 4			
reaction time	0.158	interval		1.04	1.03	0.98	0.99	0.97	0.97	1.01	1.02	1.03	1.24			3.05	2.93	3.06	
wind	1.5 m/s	velocity	5.20	8.17	8.25	8.67	8.59	8.76	8.76	8.42	8.33	8.25	8.10	7.82		8.36	8.70	8.33	
FINAL - 2019 IAAF World Championships (Doha, QAT)															<i>CAA Hurdle Development (2019)</i>				
date	06-Oct-19	time	2.45	3.46	4.42	5.39	6.37	7.33	8.30	9.28	10.28	11.28		12.47		5 / 3			
reaction time	0.127	interval		1.01	0.96	0.97	0.98	0.96	0.97	0.98	1.00	1.00	1.19			2.94	2.91	2.98	
wind	0.3 m/s	velocity	5.31	8.42	8.85	8.76	8.67	8.85	8.76	8.67	8.50	8.50	8.45	8.02		8.67	8.76	8.56	
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	06-Oct-19	time	2.44	3.44	4.42	5.38	6.34	7.30	8.26	9.24	10.22	11.20		12.41		6 / 1			
reaction time	0.122	interval		1.00	0.98	0.96	0.96	0.96	0.96	0.98	0.98	0.98	1.21			2.94	2.88	2.94	
wind	1.0 m/s	velocity	5.33	8.50	8.67	8.85	8.85	8.85	8.85	8.67	8.67	8.67	8.31	8.06		8.67	8.85	8.67	
Heat 3 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)															<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>				
date	05-Oct-19	time	2.42	3.42	4.40	5.36	6.32	7.28	8.24	9.22	10.22	11.24		12.51		5 / 1			
reaction time	0.126	interval		1.00	0.98	0.96	0.96	0.96	0.96	0.98	1.00	1.02	1.27			2.94	2.88	3.00	
wind	0.4 m/s	velocity	5.37	8.50	8.67	8.85	8.85	8.85	8.85	8.67	8.50	8.33	7.91	7.99		8.67	8.85	8.50	
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	2.44	3.43	4.40	5.38	6.34	7.31	8.28	9.26	10.26	11.26		12.46		5 / 1			
reaction time	0.119	interval		0.99	0.97	0.98	0.96	0.97	0.97	0.98	1.00	1.00	1.20			2.94	2.90	2.98	
wind	0.0 m/s	velocity	5.33	8.59	8.76	8.67	8.85	8.76	8.76	8.67	8.50	8.50	8.75	8.03		8.67	8.79	8.56	
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	2.44	3.44	4.42	5.40	6.37	7.33	8.30	9.28	10.27	11.28		12.46		5 / 1			
reaction time	0.135	interval		1.00	0.98	0.98	0.97	0.96	0.97	0.98	0.99	1.01	1.18			2.96	2.90	2.98	
wind	-0.2 m/s	velocity	5.33	8.50	8.67	8.67	8.76	8.85	8.76	8.67	8.59	8.42	8.90	8.03		8.61	8.79	8.56	
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				

date	20-Jul-19	time	2.44	3.42	4.38	5.32	6.28	7.22	8.18	9.14	10.14	11.14	12.32	7 / 1			
reaction time	0.119	interval		0.98	0.96	0.94	0.96	0.94	0.96	0.96	1.00	1.00	1.18	AR PB	2.88	2.86	2.96
wind	0.8 m/s	velocity	5.33	8.67	8.85	9.04	8.85	9.04	8.85	8.85	8.50	8.50	8.90	8.12	8.85	8.92	8.61
Heat 1 - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	20-Jul-19	time	2.42	3.42	4.38	5.34	6.30	7.26	8.24	9.22	10.22	11.22	12.41	6 / 1			
reaction time	0.132	interval		1.00	0.96	0.96	0.96	0.96	0.98	0.98	1.00	1.00	1.19	PB	2.92	2.90	2.98
wind	-1.1 m/s	velocity	5.37	8.50	8.85	8.85	8.85	8.85	8.67	8.67	8.50	8.50	8.82	8.06	8.73	8.79	8.56
FINAL - 2019 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	12-Jul-19	time	2.46	3.48	4.44	5.40	6.36	7.32	8.32	9.32	10.32	11.34	12.52	3 / 2			
reaction time	0.150	interval		1.02	0.96	0.96	0.96	0.96	1.00	1.00	1.00	1.02	1.18		2.94	2.92	3.02
wind	0.1 m/s	velocity	5.28	8.33	8.85	8.85	8.85	8.85	8.50	8.50	8.50	8.33	8.90	7.99	8.67	8.73	8.44
FINAL - 2019 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	03-May-19	time	2.46	3.50	4.50	5.48	6.44	7.44	8.40	9.40	10.42	11.46	12.66	4 / 1			
reaction time	0.141	interval		1.04	1.00	0.98	0.96	1.00	0.96	1.00	1.02	1.04	1.20		3.02	2.92	3.06
wind	0.9 m/s	velocity	5.28	8.17	8.50	8.67	8.85	8.50	8.85	8.50	8.33	8.17	8.75	7.90	8.44	8.73	8.33
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)														<i>Henson (2021) - Athlete First: 2018 year end hurdle report</i>			
date	08-Sep-18	time	2.44	3.44	4.44	5.40	6.36	7.34	8.32	9.30	10.28	11.28	12.49	7 / 1			
reaction time	0.127	interval		1.00	1.00	0.96	0.96	0.98	0.98	0.98	0.98	1.00	1.21		2.96	2.92	2.96
wind	-0.1 m/s	velocity	5.33	8.50	8.50	8.85	8.85	8.67	8.67	8.67	8.67	8.50	8.68	8.01	8.61	8.73	8.61
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	31-Aug-18	time	2.52	3.52	4.52	5.52	6.48	7.46	8.44	9.44	10.42	11.46	12.64	5 / 3			
reaction time	0.143	interval		1.00	1.00	1.00	0.96	0.98	0.98	1.00	0.98	1.04	1.18		3.00	2.92	3.02
wind	0.1 m/s	velocity	5.16	8.50	8.50	8.50	8.85	8.67	8.67	8.50	8.67	8.17	8.90	7.91	8.50	8.73	8.44
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	2.48	3.48	4.48	5.46	6.44	7.42	8.40	9.40	10.38	11.38	12.55	5 / 4			
reaction time	0.133	interval		1.00	1.00	0.98	0.98	0.98	0.98	1.00	0.98	1.00	1.17		2.98	2.94	2.98
wind	0.6 m/s	velocity	5.24	8.50	8.50	8.67	8.67	8.67	8.67	8.50	8.67	8.50	8.97	7.97	8.56	8.67	8.56
FINAL - 2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	10-Jun-18	time	2.52	3.52	4.50	5.48	6.44	7.40	8.36	9.32	10.30	11.32	12.48	6 / 2			
reaction time	0.135	interval		1.00	0.98	0.98	0.96	0.96	0.96	0.96	0.98	1.02	1.16	PB	2.96	2.88	2.96
wind	1.3 m/s	velocity	5.16	8.50	8.67	8.67	8.85	8.85	8.85	8.85	8.67	8.33	9.05	8.01	8.61	8.85	8.61
FINAL - 2018 Bislett Games (Oslo, NOR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	07-Jun-18	time	2.48	3.48	4.48	5.44	6.44	7.42	8.40	9.38	10.40	11.40	12.60	3 / 1			
reaction time	0.130	interval		1.00	1.00	0.96	1.00	0.98	0.98	0.98	1.02	1.00	1.20		2.96	2.96	3.00
wind	1.1 m/s	velocity	5.24	8.50	8.50	8.85	8.50	8.67	8.67	8.67	8.33	8.50	8.75	7.94	8.61	8.61	8.50
FINAL - 2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	31-May-18	time	2.52	3.56	4.58	5.58	6.58	7.58	8.58	9.56	10.60	11.62	12.82	4 / 2			
reaction time	0.125	interval		1.04	1.02	1.00	1.00	1.00	1.00	0.98	1.04	1.02	1.20		3.06	3.00	3.04
wind	0.0 m/s	velocity	5.16	8.17	8.33	8.50	8.50	8.50	8.50	8.67	8.17	8.33	8.75	7.80	8.33	8.50	8.39
FINAL - 2018 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	04-May-18	time	2.48	3.50	4.54	5.50	6.50	7.50	8.50	9.48	10.48	11.54	12.82	7 / 5			
reaction time	0.124	interval		1.02	1.04	0.96	1.00	1.00	1.00	0.98	1.00	1.06	1.28		3.02	3.00	3.04
wind	0.5 m/s	velocity	5.24	8.33	8.17	8.85	8.50	8.50	8.50	8.67	8.50	8.02	8.20	7.80	8.44	8.50	8.39
FINAL - 2017 Weltklasse (Zürich, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	24-Aug-17	time	2.50	3.56	4.58	5.56	6.56	7.56	8.54	9.54	10.54	11.56	12.73	8 / 4			
reaction time	0.116	interval		1.06	1.02	0.98	1.00	1.00	0.98	1.00	1.00	1.02	1.17		3.06	2.98	3.02
wind	-0.3 m/s	velocity	5.20	8.02	8.33	8.67	8.50	8.50	8.67	8.50	8.50	8.33	8.97	7.86	8.33	8.56	8.44
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>			
date	11-Aug-17	time	2.47	3.53	4.60	5.64	6.68	7.69	8.75	9.77	10.79	11.83	13.14	4 / 5			
reaction time	0.121	interval		1.06	1.07	1.04	1.04	1.01	1.06	1.02	1.02	1.04	1.31		3.17	3.11	3.08
wind	0.5 m/s	velocity	5.26	8.02	7.94	8.17	8.17	8.42	8.02	8.33	8.33	8.17	8.02	7.61	8.04	8.20	8.28
FINAL - 2017 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	21-Jul-17	time	2.52	3.54	4.52	5.50	6.48	7.46	8.46	9.44	10.46	11.48	12.58	2 / 3			
reaction time	0.127	interval		1.02	0.98	0.98	0.98	0.98	1.00	0.98	1.02	1.02	1.10		2.98	2.96	3.02
wind	-0.2 m/s	velocity	5.16	8.33	8.67	8.67	8.67	8.67	8.50	8.67	8.33	8.33	9.55	7.95	8.56	8.61	8.44
FINAL - 2015 IAAF World Championships (Beijing, CHN)														<i>Мирзоев (2015) - Временные характеристики технического мастерства бега на 100м с барьерами</i>			
date	28-Aug-15	time	2.54	3.53	4.54	5.51	6.47	7.45	8.43	9.42	10.43	11.43	12.57	5 / 1			
reaction time	0.142	interval		0.99	1.01	0.97	0.96	0.98	0.98	0.99	1.01	1.00	1.14	PB	2.97	2.92	3.00
wind	-0.3 m/s	velocity	5.12	8.59	8.42	8.76	8.85	8.67	8.67	8.59	8.42	8.50	9.21	7.96	8.59	8.73	8.50

														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Williams, Jeanine (JAM) (1997)																													
FINAL - 2020 New Balance Indoor Grand Prix (Boston, MA)														<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>															
date	25-Jan-20	time	2.59	3.63	4.67	5.69	6.69							8.14	1 / 7														
reaction time		interval	1.04	1.04	1.02	1.00							1.45		3.10														
		velocity	5.02	8.17	8.17	8.33	8.50							8.97	7.37	8.23													
Heat 1 - 2020 New Balance Indoor Grand Prix (Boston, MA)														<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>															
date	25-Jan-20	time	2.61	3.66	4.68	5.71	6.71							8.14	6 / 4														
reaction time		interval	1.05	1.02	1.03	1.00							1.43		3.10														
		velocity	4.98	8.10	8.33	8.25	8.50							9.09	7.37	8.23													
FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	08-Jun-19	time	2.46	3.50	4.50	5.50	6.46	7.43	8.40	9.43	10.43	11.43	12.74	3 / 4															
reaction time	0.164	interval	1.04	1.00	1.00	0.96	0.97	0.97	1.03	1.00	1.00	1.31		3.04	2.90	3.03													
wind	0.6 m/s	velocity	5.28	8.17	8.50	8.50	8.85	8.76	8.76	8.25	8.50	8.50	8.02	7.85	8.39	8.79	8.42												
Williams, Kendall (USA) (1995)																													
Heptathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>															
date	17-Jul-22	time	2.71	3.78	4.80	5.83	6.88	7.93	8.98	10.03	11.15	12.28	13.54	6 / 8															
reaction time	0.139	interval	1.07	1.02	1.03	1.05	1.05	1.05	1.05	1.12	1.13	1.26		3.12	3.15	3.30													
wind	0.7 m/s	velocity	4.80	7.97	8.30	8.25	8.10	8.10	8.10	8.10	7.59	7.52	7.98	7.39	8.17	8.10	7.73												
Heptathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>															
date	04-Aug-21	time	2.63	3.63	4.63	5.62	6.62	7.62	8.62	9.66	10.69	11.77	12.97	6 / 1															
reaction time	0.149	interval	1.00	1.00	0.99	1.00	1.00	1.00	1.04	1.03	1.08	1.20		2.99	3.00	3.15													
wind	-0.8 m/s	velocity	4.94	8.50	8.50	8.59	8.50	8.50	8.50	8.17	8.25	7.87	8.37	7.71	8.53	8.50	8.10												
Heptathlon - Heat 3 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)														<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>															
date	03-Oct-19	time	2.40	3.42	4.40	5.38	6.34	7.30	8.28	9.26	10.26	11.28	12.58	7 / 1															
reaction time	0.146	interval	1.02	0.98	0.98	0.96	0.96	0.98	0.98	1.00	1.02	1.30	CHB PB	2.98	2.90	3.00													
wind	0.4 m/s	velocity	5.42	8.33	8.67	8.67	8.85	8.85	8.67	8.67	8.50	8.33	7.73	7.95	8.56	8.79	8.50												
Williams, Michelle (USA) (1978)																													
FINAL - 1996 USATF National Junior Championships														<i>USATF Women's Sprint Development (1996)</i>															
date	29-Jun-96	time	2.63	3.81	4.98	6.11	7.20	8.41	9.58	10.73	11.89	13.07	14.56	2 / 7															
reaction time		interval	1.18	1.17	1.13	1.09	1.21	1.17	1.15	1.16	1.18	1.49		3.48	3.47	3.49													
wind	-2.5 m/s	velocity	4.94	7.20	7.26	7.52	7.80	7.02	7.26	7.39	7.33	7.20	7.05	6.87	7.33	7.35	7.31												
Williams, Shermaine (JAM) (1990)																													
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)														<i>Henson (2021) - Athlete First: major championships report</i>															
date	28-Aug-15	time	2.58	3.60	4.60	5.60	6.60	7.58	8.60	9.60	10.66	11.74	12.95	9 / 7															
reaction time	0.177	interval	7 steps	1.02	1.00	1.00	1.00	0.98	1.02	1.00	1.06	1.08	1.21	3.02	3.00	3.14													
wind	-0.3 m/s	velocity	5.04	8.33	8.50	8.50	8.50	8.67	8.33	8.50	8.02	7.87	8.68	7.72	8.44	8.50	8.12												
Wisse, Yvonne (NED) (1982)																													
Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>															
date	15-Aug-09	time	2.81	3.89	4.96	6.04	7.10	8.14	9.22	10.29	11.38	12.49	13.66	1 / 7															
reaction time	0.162	interval	1.08	1.07	1.08	1.06	1.04	1.08	1.07	1.09	1.11	1.17		3.23	3.18	3.27													
wind	-0.4 m/s	velocity	4.63	7.87	7.94	7.87	8.02	8.17	7.87	7.94	7.80	7.66	8.97	7.32	7.89	8.02	7.80												
Wojtunik, Klaudia (POL) (1999)																													
Heat B - 2024 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2024) - diamond league race analysis</i>															
date	25-Aug-24	time	2.44	3.51	4.51	5.51	6.50	7.51	8.53	9.57	10.63	11.69	13.02	9 / 8															
reaction time	0.131	interval	1.07	1.00	1.00	0.99	1.01	1.02	1.04	1.06	1.06	1.33		3.07	3.02	3.16													
wind	0.6 m/s	velocity	5.33	7.94	8.50	8.50	8.59	8.42	8.33	8.17	8.02	8.02	7.56	7.68	8.31	8.44	8.07												
FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>															
date	04-Sep-22	time	2.64	3.68	4.74	5.76	6.80	7.82	8.86	9.92	11.00	12.04	13.27	7 / 6															
reaction time	0.127	interval	1.04	1.06	1.02	1.04	1.02	1.04	1.06	1.08	1.04	1.23		3.12	3.10	3.18													
wind	-0.3 m/s	velocity	4.92	8.17	8.02	8.33	8.17	8.33	8.17	8.02	7.87	8.17	8.17	7.54	8.17	8.23	8.02												
FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	25-Sep-20	time	2.56	3.63	4.66	5.70	6.73	7.76	8.80	9.83	10.86	11.96	13.21	8 / 4															
reaction time	0.137	interval	1.07	1.03	1.04	1.03	1.03	1.04	1.03	1.03	1.10	1.25		3.14	3.10	3.16													
wind	1.1 m/s	velocity	5.08	7.94	8.25	8.17	8.25	8.25	8.17	8.25	8.25	7.73	8.04	7.57	8.12	8.23	8.07												
Wolf, Birgit (FRG) (1969)																													
FINAL - 1986 West German National Junior Championships (Krefeld, FRG)														<i>Hucklekemkes (1997) - velocity in the women's 100m sprint hurdles (in Jarver (ed) - the hurdles, 1997)</i>															
date	26-Jul-86	time	2.70	3.82	4.90	5.98	7.06	8.12	9.20	10.28	11.38	12.50	13.70	1 / 1															
reaction time		interval	1.12	1.08	1.08	1.08	1.06	1.08	1.08	1.10	1.12	1.20		3.28	3.22	3.30													
wind	1.3 m/s	velocity	4.81	7.59	7.87	7.87	7.87	8.02	7.87	7.87	7.73	7.59	8.75	7.30	7.77	7.92	7.73												

Woods, Shana (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 - 2005 USATF National Junior Championships (Carson, CA) <i>USATF Women's Sprint Development (2005)</i>																		
date	23-Jun-05	time	2.80	3.92	5.07	6.19	7.31	8.44	9.58	10.73	11.88	13.03		14.27	3 / 7			
reaction time		interval		1.12	1.15	1.12	1.12	1.13	1.14	1.15	1.15	1.15	1.24			3.39	3.39	3.45
wind	-0.7 m/s	velocity	4.64	7.59	7.39	7.59	7.59	7.52	7.46	7.39	7.39	7.39	8.47	7.01		7.52	7.52	7.39
Wu Binbin (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	2.64	3.72	4.78	5.84	6.89	7.94	9.01	10.09	11.17	12.26		13.41	8 / 3			
reaction time	0.146	interval		1.08	1.06	1.06	1.05	1.05	1.07	1.08	1.08	1.09	1.15			3.20	3.17	3.25
wind	0.6 m/s	velocity	4.92	7.87	8.02	8.02	8.10	8.10	7.94	7.87	7.87	7.80	8.74	7.46		7.97	8.04	7.85
National FINAL - 2023 Xiamen Diamond League (Xiamen, CHN) <i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																		
date	02-Sep-23	time	2.70	3.79	4.85	5.94	7.03	8.14	9.24	10.41	11.54	12.71		13.92	3 / 8			
reaction time	0.159	interval		1.09	1.06	1.09	1.09	1.11	1.10	1.17	1.13	1.17	1.21			3.24	3.30	3.47
wind	0.1 m/s	velocity	4.81	7.80	8.02	7.80	7.80	7.66	7.73	7.26	7.52	7.26	8.31	7.18		7.87	7.73	7.35
FINAL - 2023 Chinese National Grand Prix 4 (Chongqing, CHN) <i>Shandong Athletics Sport Science (2023)</i>																		
date	03-Jun-23	time	2.69	3.79	4.87	5.96	7.04	8.14	9.26	10.35	11.47	12.59		13.75	2 / 5			
reaction time	0.213	interval		1.10	1.08	1.09	1.08	1.10	1.12	1.09	1.12	1.12	1.16			3.27	3.30	3.33
wind	0.3 m/s	velocity	4.83	7.73	7.87	7.80	7.87	7.73	7.59	7.80	7.59	7.59	8.66	7.27		7.80	7.73	7.66
Wu Shuijiao (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 Shanghai Diamond League (Shanghai, CHN) (TV Analysis) <i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																		
date	12-May-18	time	2.54	3.60	4.66	5.68	6.70	7.72	8.74	9.76	10.78	11.82		13.08	9 / 9			
reaction time	0.156	interval		1.06	1.06	1.02	1.02	1.02	1.02	1.02	1.02	1.04	1.26			3.14	3.06	3.08
wind	0.9 m/s	velocity	5.12	8.02	8.02	8.33	8.33	8.33	8.33	8.33	8.33	8.17	8.33	7.65		8.12	8.33	8.28
FINAL - 2017 Chinese National Games (Tianjin, CHN) <i>Henson (2017) - coaching observations</i>																		
date	04-Sep-17	time	2.65	3.69	4.69	5.69	6.69	7.70	8.70	9.72	10.76	11.82		12.97	7 / 1			
reaction time		interval		1.04	1.00	1.00	1.00	1.01	1.00	1.02	1.04	1.06	1.15			3.04	3.01	3.12
wind	-0.2 m/s	velocity	4.91	8.17	8.50	8.50	8.50	8.42	8.50	8.33	8.17	8.02	9.13	7.71		8.39	8.47	8.17
Heat 1 - 2017 Chinese National Games (Tianjin, CHN) <i>Henson (2017) - coaching observations</i>																		
date	03-Sep-17	time	2.65	3.69	4.73	5.75	6.77	7.79	8.82	9.89	10.94	12.02		13.24	4 / 1			
reaction time		interval		1.04	1.04	1.02	1.02	1.02	1.03	1.07	1.05	1.08	1.22			3.10	3.07	3.20
wind	0.0 m/s	velocity	4.91	8.17	8.17	8.33	8.33	8.33	8.25	7.94	8.10	7.87	8.61	7.55		8.23	8.31	7.97
Semi-Final 3 - 2015 IAAF World Championships (Beijing, CHN) <i>Xu (2015) - the 15th world track and field special report: Men's and women's hurdle project</i>																		
date	28-Aug-15	time		4.67					8.71			11.63		13.06	2 / 7			
reaction time	0.179	interval							4.04			2.92	1.43					2.92
wind	-0.8 m/s	velocity		6.42					8.42			8.73	7.34	7.66				8.73
FINAL - 2015 World Challenge (Beijing, CHN) <i>Liu (2017) - study on the characteristics of speed rhythm of athletes at different levels of women's 100m hurdles</i>																		
date	20-May-15	time	2.39	3.41	4.42	5.42	6.39	7.39	8.38	9.39	10.42	11.47		12.85	1 / 1			
reaction time		interval		1.02	1.01	1.00	0.97	1.00	0.99	1.01	1.03	1.05	1.38			3.03	2.96	3.09
wind	0.8 m/s	velocity	5.44	8.33	8.42	8.50	8.76	8.50	8.59	8.42	8.25	8.10	7.61	7.78		8.42	8.61	8.25
Wu Wenya (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) (76cm) <i>CAA Hurdle Development (2019)</i>																		
date	14-Aug-19	time	2.80	3.95	5.10	6.26	7.41	8.56	9.73	10.91	12.11	13.38		14.79	8 / 7			
reaction time	0.178	interval		1.15	1.15	1.16	1.15	1.15	1.17	1.18	1.20	1.27	1.41			3.46	3.47	3.65
wind	0.0 m/s	velocity	4.64	7.39	7.39	7.33	7.39	7.39	7.26	7.20	7.08	6.69	7.45	6.76		7.37	7.35	6.99
Wu Yanni (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 - 2024 Chinese National Championships (Quzhou, CHN) <i>Shandong Athletics Sport Science (2024)</i>																		
date	16-Sep-24	time	2.67	3.70	4.72	5.74	6.72	7.73	8.74	9.76	10.79	11.86		13.05	5 / 1			
reaction time	0.160	interval		1.03	1.02	1.02	0.98	1.01	1.01	1.02	1.03	1.07	1.19			3.07	3.00	3.12
wind	0.6 m/s	velocity	4.87	8.25	8.33	8.33	8.67	8.42	8.42	8.33	8.25	7.94	8.45	7.66		8.31	8.50	8.17
Repechage 3 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympic Games - Results Book (2024)</i>																		
date	08-Aug-24	time	2.51	3.56	4.58	5.58	6.58	7.57	8.58	9.60	10.64	11.69		12.98	3 / 4			
reaction time	0.132	interval		1.05	1.02	1.00	1.00	0.99	1.01	1.02	1.04	1.05	1.29			3.07	3.00	3.11
wind	-0.2 m/s	velocity	5.18	8.10	8.33	8.50	8.50	8.59	8.42	8.33	8.17	8.10	7.79	7.70		8.31	8.50	8.20
Heat 1 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympic Games - Results Book (2024)</i>																		
date	07-Aug-24	time	2.54	3.60	4.61	5.61	6.59	7.59	8.61	9.62	10.65	11.69		12.97	8 / 6			
reaction time	0.185	interval		1.06	1.01	1.00	0.98	1.00	1.02	1.01	1.03	1.04	1.28			3.07	3.00	3.08
wind	-0.1 m/s	velocity	5.12	8.02	8.42	8.50	8.67	8.50	8.33	8.42	8.25	8.17	7.85	7.71		8.31	8.50	8.28
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN) <i>Shandong Athletics Sport Science (2024)</i>																		
date	30-Jun-24	time	2.65	3.64	4.62	5.60	6.59	7.57	8.54	9.54	10.54	11.59		12.74	6 / 1			
reaction time	0.184	interval		0.99	0.98	0.98	0.99	0.98	0.97	1.00	1.00	1.05	1.15	PB		2.95	2.94	3.05

wind	0.2 m/s	velocity	4.91	8.59	8.67	8.67	8.59	8.67	8.76	8.50	8.50	8.10	8.74	7.85	8.64	8.67	8.36	
Heat 1 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)															<i>Shandong Athletics Sport Science (2024)</i>			
date	29-Jun-24	time	2.67	3.72	4.74	5.74	6.73	7.74	8.75	9.77	10.81	11.87		13.06	7 / 1			
reaction time	0.186	interval		1.05	1.02	1.00	0.99	1.01	1.01	1.02	1.04	1.06	1.19			3.07	3.01	3.12
wind	0.0 m/s	velocity	4.87	8.10	8.33	8.50	8.59	8.42	8.42	8.33	8.17	8.02	8.45	7.66		8.31	8.47	8.17
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	27-Apr-24	time	2.64	3.67	4.71	5.71	6.74	7.74	8.76	9.78	10.84	11.91		13.15	9 / 8			
reaction time	0.166	interval		1.03	1.04	1.00	1.03	1.00	1.02	1.02	1.06	1.07	1.24			3.07	3.05	3.15
wind	0.3 m/s	velocity	4.92	8.25	8.17	8.50	8.25	8.50	8.33	8.33	8.02	7.94	8.10	7.60		8.31	8.36	8.10
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)															<i>Omega Timing (2024) - diamond league race analysis</i>			
date	20-Apr-24	time	2.54	3.60	4.62	5.63	6.62	7.63	8.64	9.66	10.69	11.74		13.04	1 / 10			
reaction time	0.161	interval		1.06	1.02	1.01	0.99	1.01	1.01	1.02	1.03	1.05	1.30			3.09	3.01	3.10
wind	-0.2 m/s	velocity	5.12	8.02	8.33	8.42	8.59	8.42	8.42	8.33	8.25	8.10	7.73	7.67		8.25	8.47	8.23
FINAL - 2023 Chinese National Grand Prix 4 (Chongqing, CHN)															<i>Shandong Athletics Sport Science (2023)</i>			
date	03-Jun-23	time	2.70	3.73	4.76	5.76	6.77	7.78	8.82	9.88	10.94	11.99		13.21	6 / 2			
reaction time	0.176	interval		1.03	1.03	1.00	1.01	1.01	1.04	1.06	1.06	1.05	1.22			3.06	3.06	3.17
wind	0.3 m/s	velocity	4.81	8.25	8.25	8.50	8.42	8.42	8.17	8.02	8.02	8.10	8.24	7.57		8.33	8.33	8.04
FINAL - 2023 Chinese National Grand Prix 3 (Taizhou, CHN)															<i>Shandong Athletics Sport Science (2023)</i>			
date	27-May-23	time	2.62												dnf	4 / --		
reaction time		interval																
wind	-1.2 m/s	velocity	4.96															
FINAL - 2023 Chinese Indoor National Championships (Tianjin, CHN)															<i>Shandong Athletics Sport Science (2023)</i>			
date	16-Mar-23	time	2.67	3.74	4.76	5.79	6.81							8.19	5 / 2			
reaction time	0.183	interval		1.07	1.02	1.03	1.02							1.38			3.12	
		velocity	4.87	7.94	8.33	8.25	8.33							9.42	7.33		8.17	
Heat 1 - 2023 Chinese Indoor National Championships (Tianjin, CHN)															<i>Shandong Athletics Sport Science (2023)</i>			
date	16-Mar-23	time	2.67	3.72	4.74	5.77	6.77							8.19	7 / 1			
reaction time	0.167	interval		1.05	1.02	1.03	1.00							1.42			3.10	
		velocity	4.87	8.10	8.33	8.25	8.50							9.15	7.33		8.23	
A FINAL - 2023 Chinese Indoor Grand Prix II (Chengdu, CHN)															<i>Shandong Athletics Sport Science (2023)</i>			
date	27-Feb-23	time	2.65	3.71	4.75	5.78	6.82							8.23	4 / 1			
reaction time	0.149	interval		1.06	1.04	1.03	1.04							1.41			3.13	
		velocity	4.91	8.02	8.17	8.25	8.17							9.22	12.15		8.15	
FINAL - 2021 Chinese National Games (Xi'an, CHN)															<i>CAA Hurdle Development (2021)</i>			
date	22-Sep-21	time	2.50	3.53	4.56	5.56	6.56	7.56	8.56	9.60	10.60	11.67		12.91	5 / 2			
reaction time	0.131	interval		1.03	1.03	1.00	1.00	1.00	1.00	1.04	1.00	1.07	1.24				3.06	3.00
wind	0.1 m/s	velocity	5.20	8.25	8.25	8.50	8.50	8.50	8.50	8.17	8.50	7.94	8.10	7.75			8.33	8.50
Semi-Final 3 - 2021 Chinese National Games (Xi'an, CHN)															<i>CAA Hurdle Development (2021)</i>			
date	21-Sep-21	time	2.53	3.54	4.55	5.53	6.53	7.52	8.54	9.56	10.58	11.65		12.96	5 / 2			
reaction time	0.144	interval		1.01	1.01	0.98	1.00	0.99	1.02	1.02	1.02	1.07	1.31				3.00	3.01
wind	0.1 m/s	velocity	5.14	8.42	8.42	8.67	8.50	8.59	8.33	8.33	8.33	7.94	7.67	7.72			8.50	8.47
FINAL - 2021 Chinese National Championships (Chongqing, CHN)															<i>CAA Hurdle Development (2021)</i>			
date	25-Jun-21	time	2.63	3.67	4.67	5.67	6.66	7.67	8.67	9.67	10.69	11.73		12.87	6 / 1			
reaction time	0.134	interval		1.04	1.00	1.00	0.99	1.01	1.00	1.00	1.02	1.04	1.14	PB			3.04	3.00
wind	1.7 m/s	velocity	4.94	8.17	8.50	8.50	8.59	8.42	8.50	8.50	8.33	8.17	8.82	7.77			8.39	8.50
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)															<i>CAA Hurdle Development (2021)</i>			
date	25-Jun-21	time	2.68	3.75	4.79	5.82	6.84	7.87	8.89	9.93	10.99	12.04		13.23	3 / 1			
reaction time	0.149	interval		1.07	1.04	1.03	1.02	1.03	1.02	1.04	1.06	1.05	1.19				3.14	3.07
wind	-0.3 m/s	velocity	4.85	7.94	8.17	8.25	8.33	8.25	8.33	8.17	8.02	8.10	8.45	7.56			8.12	8.31
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)															<i>CAA Hurdle Development (2021)</i>			
date	12-Jun-21	time	2.66	3.70	4.70	5.70	6.72	7.72	8.72	9.74	10.78	11.84		12.98	6 / 1			
reaction time	0.162	interval		1.04	1.00	1.00	1.02	1.00	1.00	1.02	1.04	1.06	1.14	PB			3.04	3.02
wind	1.0 m/s	velocity	4.89	8.17	8.50	8.50	8.33	8.50	8.50	8.33	8.17	8.02	8.82	7.70			8.39	8.44
Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)															<i>CAA Hurdle Development (2021)</i>			
date	12-Jun-21	time	2.57	3.60	4.65	5.69	6.72	7.76	8.81	9.87	10.94	12.06		13.44	6 / 1			
reaction time	0.135	interval		1.03	1.05	1.04	1.03	1.04	1.05	1.06	1.07	1.12	1.38				3.12	3.12
wind	-0.2 m/s	velocity	5.06	8.25	8.10	8.17	8.25	8.17	8.10	8.02	7.94	7.59	7.28	7.44			8.17	8.17
FINAL - 2021 Happy Chengdu Meeting (Chengdu, CHN)															<i>CAA Hurdle Development (2021)</i>			

														251 of 267	W100H athlete			
date	15-May-21	time	2.70	3.74	4.79	5.83	6.83	7.87	8.89	9.93	10.97	12.02		13.19	7 / 2			
reaction time	0.188	interval		1.04	1.05	1.04	1.00	1.04	1.02	1.04	1.04	1.05	1.17			3.13	3.06	3.13
wind	-0.1 m/s	velocity	4.81	8.17	8.10	8.17	8.50	8.17	8.33	8.17	8.17	8.10	8.59	7.58		8.15	8.33	8.15
FINAL - 2021 National Grand Prix (Chengdu, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	02-Apr-21	time	2.72	3.77	4.84	5.86	6.87	7.90	8.92	9.96	11.01	12.07		13.25	5 / 2			
reaction time	0.212	interval		1.05	1.07	1.02	1.01	1.03	1.02	1.04	1.05	1.06	1.18			3.14	3.06	3.15
wind	0.1 m/s	velocity	4.78	8.10	7.94	8.33	8.42	8.25	8.33	8.17	8.10	8.02	8.52	7.55		8.12	8.33	8.10
Heat 1 - 2021 National Grand Prix (Chengdu, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	02-Apr-21	time	2.68	3.74	4.80	5.82	6.84	7.86	8.88	9.94	11.00	12.12		13.42	5 / 1			
reaction time	0.153	interval		1.06	1.06	1.02	1.02	1.02	1.02	1.06	1.06	1.12	1.30			3.14	3.06	3.24
wind	0.4 m/s	velocity	4.85	8.02	8.02	8.33	8.33	8.33	8.33	8.02	8.02	7.59	7.73	7.45		8.12	8.33	7.87
B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	13-Mar-21	time	2.67	3.73	4.78	5.80	6.82							8.18	4 / 1			
reaction time	0.140	interval		1.06	1.05	1.02	1.02						1.36	PB		3.13		
		velocity	4.87	8.02	8.10	8.33	8.33						9.56	7.33		8.15		
Heat 3 - 2021 National Indoor Grand Prix (Chengdu, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	13-Mar-21	time	2.70	3.77	4.82	5.85	6.87							8.32	5 / 1			
reaction time	0.171	interval		1.07	1.05	1.03	1.02						1.45	PB		3.15		
		velocity	4.81	7.94	8.10	8.25	8.33						8.97	7.21		8.10		
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)														<i>CAA Hurdle Development (2020)</i>				
date	15-Sep-20	time	2.65	3.70	4.72	5.73	6.74	7.76	8.79	9.82	10.87	11.94		13.09	6 / 1			
reaction time	0.143	interval		1.05	1.02	1.01	1.01	1.02	1.03	1.03	1.05	1.07	1.15	PB		3.08	3.06	3.15
wind	-0.4 m/s	velocity	4.91	8.10	8.33	8.42	8.42	8.33	8.25	8.25	8.10	7.94	8.74	7.64		8.28	8.33	8.10
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)														<i>CAA Hurdle Development (2020)</i>				
date	15-Sep-20	time	2.70	3.78	4.82	5.85	6.88	7.91	8.95	10.01	11.07	12.17		13.37	5 / 1			
reaction time	0.130	interval		1.08	1.04	1.03	1.03	1.03	1.04	1.06	1.06	1.10	1.20			3.15	3.10	3.22
wind	0.3 m/s	velocity	4.81	7.87	8.17	8.25	8.25	8.17	8.02	8.02	7.73	8.38		7.48		8.10	8.23	7.92
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	24-Aug-19	time	2.79	3.87	4.94	5.99	7.06	8.13	9.21	10.29	11.40	12.53		13.75	7 / 6			
reaction time	0.196	interval		1.08	1.07	1.05	1.07	1.07	1.08	1.08	1.11	1.13	1.22			3.20	3.22	3.32
wind	-0.1 m/s	velocity	4.66	7.87	7.94	8.10	7.94	7.94	7.87	7.87	7.66	7.52	8.61	7.27		7.97	7.92	7.68
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	23-Aug-19	time	2.79	3.85	4.91	5.96	7.02	8.08	9.14	10.23	11.33	12.45		13.68	5 / 1			
reaction time	0.193	interval		1.06	1.06	1.05	1.06	1.06	1.06	1.09	1.10	1.12	1.23			3.17	3.18	3.31
wind	0.2 m/s	velocity	4.66	8.02	8.02	8.10	8.02	8.02	8.02	7.80	7.73	7.59	8.54	7.31		8.04	8.02	7.70
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	02-Aug-19	time	2.74	3.80	4.86	5.89	6.92	7.96	9.00	10.09	11.17	12.26		13.49	5 / 3			
reaction time	0.169	interval		1.06	1.06	1.03	1.03	1.04	1.04	1.09	1.08	1.09	1.23			3.15	3.11	3.26
wind	0.0 m/s	velocity	4.74	8.02	8.02	8.25	8.25	8.17	8.17	7.80	7.87	7.80	8.54	7.41		8.10	8.20	7.82
Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	02-Aug-19	time	2.70	3.79	4.86	5.92	6.97	8.02	9.09	10.16	11.24	12.33		13.57	3 / 2			
reaction time	0.162	interval		1.09	1.07	1.06	1.05	1.05	1.07	1.07	1.08	1.09	1.24			3.22	3.17	3.24
wind	0.2 m/s	velocity	4.81	7.80	7.94	8.02	8.10	8.10	7.94	7.94	7.87	7.80	8.47	7.37		7.92	8.04	7.87
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	21-May-19	time	2.73	3.78	4.83	5.88	6.93	7.97	9.02	10.07	11.12			13.44	10 / 8			
reaction time	0.173	interval		1.05	1.05	1.05	1.05	1.04	1.05	1.05	1.05					3.15	3.14	
wind	-1.0 m/s	velocity	4.76	8.10	8.10	8.10	8.10	8.17	8.10	8.10	8.10			7.44		8.10	8.12	
Heat 2 - 3rd Leg - 2019 IAAF World Relays - Shuttle Hurdle Relay (Yokohama, JPN)														<i>CAA Hurdle Development (2019)</i>				
date	11-May-19	time	2.65	3.75	4.82	5.88	6.97	8.04	9.12	10.19	11.28	12.41		13.63	3 /			
reaction time		interval		1.10	1.07	1.06	1.09	1.07	1.08	1.07	1.09	1.13	1.22	(14.84)		3.23	3.24	3.29
wind	na	velocity	4.91	7.73	7.94	8.02	7.80	7.94	7.87	7.94	7.80	7.52	8.61	7.34	57.54	7.89	7.87	7.75
FINAL - 2019 Asian Athletics Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>				
date	24-Apr-19	time	2.74	3.79	4.83	5.86	6.89	7.91	8.93	9.97	11.03	12.11		13.33	9 / 5			
reaction time	0.152	interval		1.05	1.04	1.03	1.03	1.02	1.02	1.04	1.06	1.08	1.22			3.12	3.07	3.18
wind	1.3 m/s	velocity	4.74	8.10	8.17	8.25	8.25	8.33	8.33	8.17	8.02	7.87	8.61	7.50		8.17	8.31	8.02
Heat 2 - 2019 Asian Athletics Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>				
date	23-Apr-19	time	2.75	3.80	4.84	5.90	6.96	8.01	9.05	10.11	11.16	12.28		13.52	6 / 3			
reaction time	0.161	interval		1.05	1.04	1.06	1.06	1.05	1.04	1.06	1.05	1.12	1.24			3.15	3.15	3.23
wind	1.9 m/s	velocity	4.73	8.10	8.17	8.02	8.02	8.10	8.17	8.02	8.10	7.59	8.47	7.40		8.10	8.10	7.89

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

FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)

date	09-Apr-19	time	2.78	3.86	4.92	5.97	7.02	8.06	9.11	10.20	11.28	12.38		13.63	CAA Hurdle Development (2019)			
reaction time	0.217	interval		1.08	1.06	1.05	1.05	1.04	1.05	1.09	1.08	1.10	1.25			3.19	3.14	3.27
wind	0.1 m/s	velocity	4.68	7.87	8.02	8.10	8.10	8.17	8.10	7.80	7.87	7.73	8.40	7.34		7.99	8.12	7.80

Heat 1 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)

date	08-Apr-19	time	2.73	3.79	4.86	5.90	6.93	7.98	9.04	10.10	11.17	12.27		13.51	CAA Hurdle Development (2019)			
reaction time	0.184	interval		1.06	1.07	1.04	1.03	1.05	1.06	1.06	1.07	1.10	1.24			3.17	3.14	3.23
wind	-1.0 m/s	velocity	4.76	8.02	7.94	8.17	8.25	8.10	8.02	8.02	7.94	7.73	8.47	7.40		8.04	8.12	7.89

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)

date	16-Sep-18	time	2.69	3.75	4.78	5.80	6.81	7.81	8.84	9.88	10.93	12.00		13.17	Henson (2018) - coaching observations			
reaction time		interval		1.06	1.03	1.02	1.01	1.00	1.03	1.04	1.05	1.07	1.17	PB		3.11	3.04	3.16
wind	-0.2 m/s	velocity	4.83	8.02	8.25	8.33	8.42	8.50	8.25	8.17	8.10	7.94	8.97	7.59		8.20	8.39	8.07

Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)

date	15-Sep-18	time	2.76	3.82	4.87	5.89	6.92	7.93	8.95	9.99	11.06	12.12		13.33	Henson (2018) - coaching observations			
reaction time		interval		1.06	1.05	1.02	1.03	1.01	1.02	1.04	1.07	1.06	1.21	PB		3.13	3.06	3.17
wind	0.0 m/s	velocity	4.71	8.02	8.10	8.33	8.25	8.42	8.33	8.17	7.94	8.02	8.68	7.50		8.15	8.33	8.04

FINAL - 2017 Chinese National Games (Tianjin, CHN)

date	04-Sep-17	time	2.72	3.79	4.82	5.85	6.85	7.91	8.94	10.00	11.06	12.16		13.36	Henson (2017) - coaching observations			
reaction time		interval		1.07	1.03	1.03	1.00	1.06	1.03	1.06	1.06	1.10	1.20	PB		3.13	3.09	3.22
wind	-0.2 m/s	velocity	4.78	7.94	8.25	8.25	8.50	8.02	8.25	8.02	8.02	7.73	8.75	7.49		8.15	8.25	7.92

Wu Zheng (CHN) (2001)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)																		
date	24-Jun-21	time	2.75	3.90	5.04	6.16	7.29	8.39	9.52	10.71	11.89	13.09		14.44	CAA Hurdle Development (2021)			
reaction time	0.201	interval		1.15	1.14	1.12	1.13	1.10	1.13	1.19	1.18	1.20	1.35			3.41	3.36	3.57
wind	0.2 m/s	velocity	4.73	7.39	7.46	7.59	7.52	7.73	7.52	7.14	7.20	7.08	7.44	6.93		7.48	7.59	7.14

Heat 2 - 2021 National Indoor Grand Prix (Chengdu, CHN)

date	13-Mar-21	time	2.73	3.87	4.99	6.09	7.22							8.74	CAA Hurdle Development (2021)			
reaction time	0.206	interval		1.14	1.12	1.10	1.13						1.52	PB		3.36		
		velocity	4.76	7.46	7.59	7.73	7.52						8.55	6.86		7.59		

Heptathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

date	23-Aug-19	time	2.82	3.94	5.05	6.16	7.29	8.43	9.56	10.71	11.89	13.10		14.44	CAA Hurdle Development (2019)			
reaction time	0.209	interval		1.12	1.11	1.11	1.13	1.14	1.13	1.15	1.18	1.21	1.34			3.34	3.40	3.54
wind	?? m/s	velocity	4.61	7.59	7.66	7.66	7.52	7.46	7.52	7.39	7.20	7.02	7.84	6.93		7.63	7.50	7.20

Xia Sining (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 Grand Prix Final (Rizhao, CHN)																		
date	30-Jun-24	time	2.71	3.80	4.84	5.87	6.92	7.96	8.99	10.04	11.09	12.16		13.38	Shandong Athletics Sport Science (2024)			
reaction time	0.123	interval		1.09	1.04	1.03	1.05	1.04	1.03	1.05	1.05	1.07	1.22			3.16	3.12	3.17
wind	0.2 m/s	velocity	4.80	7.80	8.17	8.25	8.10	8.17	8.25	8.10	8.10	7.94	8.24	7.47		8.07	8.17	8.04

Heat 3 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)

date	29-Jun-24	time	2.77	3.87	4.94	6.00	7.06	8.12	9.18	10.26	11.32	12.44		13.66	Shandong Athletics Sport Science (2024)			
reaction time	0.148	interval		1.10	1.07	1.06	1.06	1.06	1.06	1.08	1.06	1.12	1.22			3.23	3.18	3.26
wind	-0.4 m/s	velocity	4.69	7.73	7.94	8.02	8.02	8.02	8.02	7.87	8.02	7.59	8.24	7.32		7.89	8.02	7.82

National FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)

date	02-Sep-23	time	2.70	3.77	4.82	5.84	6.87	7.90	8.92	9.94	11.00	12.04		13.19	Henson (2023) - Athlete First: 2023 year end hurdle report			
reaction time	0.158	interval		1.07	1.05	1.02	1.03	1.03	1.02	1.02	1.06	1.04	1.15			3.14	3.08	3.12
wind	0.1 m/s	velocity	4.81	7.94	8.10	8.33	8.25	8.25	8.33	8.33	8.02	8.17	8.74	7.58		8.12	8.28	8.17

FINAL - 2023 Chinese National Grand Prix 3 (Taizhou, CHN)

date	27-May-23	time	2.67	3.73	4.80	5.82	6.86	7.86	8.88	9.92	10.95	11.99		13.15	Shandong Athletics Sport Science (2023)			
reaction time	0.159	interval		1.06	1.07	1.02	1.04	1.00	1.02	1.04	1.03	1.04	1.16			3.15	3.06	3.11
wind	-1.2 m/s	velocity	4.87	8.02	7.94	8.33	8.17	8.50	8.33	8.17	8.25	8.17	8.66	7.60		8.10	8.33	8.20

FINAL - 2023 Chinese Indoor National Championships (Tianjin, CHN)

date	16-Mar-23	time	2.72	3.78	4.82	5.82	6.89							8.22	Shandong Athletics Sport Science (2023)			
reaction time	0.183	interval		1.06	1.04	1.00	1.07						1.33	PB		3.10		
		velocity	4.78	8.02	8.17	8.50	7.94						9.77	7.30		8.23		

Heat 1 - 2023 Chinese Indoor National Championships (Tianjin, CHN)

date	16-Mar-23	time	2.75	3.83	4.87	5.90	6.93							8.31	Shandong Athletics Sport Science (2023)			
reaction time	0.206	interval		1.08	1.04	1.03	1.03						1.38			3.15		
		velocity	4.73	7.87	8.17	8.25	8.25						9.42	7.22		8.10		

Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)

date	25-Jun-21	time	2.74	3.84	4.90	5.95	7.04	8.10	9.19	10.26	11.38	12.50		13.75
reaction time	0.216	interval		1.10	1.06	1.05	1.09	1.06	1.09	1.07	1.12	1.12	1.25	
wind	-0.3 m/s	velocity	4.74	7.73	8.02	8.10	7.80	8.02	7.80	7.94	7.59	7.59	8.04	7.27

CAA Hurdle Development (2021)

6 / 3
3.21 3.24 3.31
7.94 7.87 7.70**Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)**

date	12-Jun-21	time	2.62	3.70	4.77	5.86	6.92	7.99	9.05	10.13	11.23	12.34		13.67
reaction time	0.159	interval		1.08	1.07	1.09	1.06	1.07	1.06	1.08	1.10	1.11	1.33	
wind	2.2 m/s	velocity	4.96	7.87	7.94	7.80	8.02	7.94	8.02	7.87	7.73	7.66	7.56	7.32

CAA Hurdle Development (2021)

6 / 5
3.24 3.19 3.29
7.87 7.99 7.75**FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)**

date	19-May-21	time	2.75	3.85	4.91	5.97	7.00	8.04	9.09	10.16	11.21	12.31		13.53
reaction time	0.259	interval		1.10	1.06	1.06	1.03	1.04	1.05	1.07	1.05	1.10	1.22	PB
wind	0.2 m/s	velocity	4.73	7.73	8.02	8.02	8.25	8.17	8.10	7.94	8.10	7.73	8.24	7.39

CAA Hurdle Development (2021)

7 / 1
3.22 3.12 3.22
7.92 8.17 7.92**U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (76cm)**

date	14-Aug-19	time	2.72	3.79	4.82	5.87	6.89	7.91	8.93	9.97	11.03	12.10		13.30
reaction time	0.172	interval		1.07	1.03	1.05	1.02	1.02	1.02	1.04	1.06	1.07	1.20	NYR
wind	0.0 m/s	velocity	4.78	7.94	8.25	8.10	8.33	8.33	8.33	8.17	8.02	7.94	8.75	7.52

CAA Hurdle Development (2019)

7 / 1
3.15 3.06 3.17
8.10 8.33 8.04**Xiao Juxiu (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 Chinese National Championships (Chongqing, CHN)																	
date	25-Jun-21	time	2.65	3.75	4.84	5.89	6.96	8.01	9.11	10.19	11.29	12.36		13.58	CAA Hurdle Development (2021)		
reaction time	0.169	interval		1.10	1.09	1.05	1.07	1.05	1.10	1.08	1.10	1.07	1.22	PB	3.24	3.22	3.25
wind	-0.3 m/s	velocity	4.91	7.73	7.80	8.10	7.94	8.10	7.73	7.87	7.73	7.94	8.24	7.36	7.87	7.92	7.85

FINAL - 2021 Central China Athletics Meeting (Ji'an, CHN)

date	11-May-21	time	2.72	3.81	4.89	5.99	7.04	8.11	9.18	10.27	11.37	12.49		13.70
reaction time	0.202	interval		1.09	1.08	1.10	1.05	1.07	1.07	1.09	1.10	1.12	1.21	
wind	-0.6 m/s	velocity	4.78	7.80	7.87	7.73	8.10	7.94	7.94	7.80	7.73	7.59	8.31	7.30

CAA Hurdle Development (2021)

4 / 2
3.27 3.19 3.31
7.80 7.99 7.70**FINAL - 2021 National Grand Prix (Chengdu, CHN)**

date	02-Apr-21	time	2.69	3.82	4.92	6.00	7.08	8.17	9.27	10.36	11.50	12.62		13.87
reaction time	0.202	interval		1.13	1.10	1.08	1.08	1.09	1.10	1.09	1.14	1.12	1.25	
wind	0.1 m/s	velocity	4.83	7.52	7.73	7.87	7.87	7.80	7.73	7.80	7.46	7.59	8.04	7.21

CAA Hurdle Development (2021)

7 / 6
3.31 3.27 3.35
7.70 7.80 7.61**Heat 1 - 2021 National Grand Prix (Chengdu, CHN)**

date	02-Apr-21	time	2.70	3.82	4.92	6.00	7.08	8.16	9.24	10.30	11.42	12.54		13.79
reaction time	0.175	interval		1.12	1.10	1.08	1.08	1.08	1.08	1.06	1.12	1.12	1.25	
wind	0.4 m/s	velocity	4.81	7.59	7.73	7.87	7.87	7.87	7.87	8.02	7.59	7.59	8.04	7.25

CAA Hurdle Development (2021)

2 / 2
3.30 3.24 3.30
7.73 7.87 7.73**B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)**

date	13-Mar-21	time	2.68	3.78	4.85	5.90	6.96							8.38
reaction time	0.151	interval		1.10	1.07	1.05	1.06						1.42	PB
		velocity	4.85	7.73	7.94	8.10	8.02						9.15	7.16

CAA Hurdle Development (2021)

5 / 4
3.22
7.92**Heat 1 - 2021 National Indoor Grand Prix (Chengdu, CHN)**

date	13-Mar-21	time	2.72	3.85	4.93	5.99	7.04							8.47
reaction time	0.180	interval		1.13	1.08	1.06	1.05						1.43	
		velocity	4.78	7.52	7.87	8.02	8.10						9.09	7.08

CAA Hurdle Development (2021)

3 / 1
3.27
7.80**FINAL - 2020 Chinese National Championships (Shaoxing, CHN)**

date	15-Sep-20	time	2.68	3.77	4.84	5.91	6.98	8.05	9.13	10.25	11.38	12.52		13.71
reaction time	0.161	interval		1.09	1.07	1.07	1.07	1.07	1.08	1.12	1.13	1.14	1.19	
wind	-0.4 m/s	velocity	4.85	7.80	7.94	7.94	7.94	7.94	7.87	7.59	7.52	7.46	8.45	7.29

CAA Hurdle Development (2020)

8 / 7
3.23 3.22 3.39
7.89 7.92 7.52**Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)**

date	02-Aug-19	time	2.70	3.83	4.91	5.99	7.02	8.11	9.19	10.29	11.42	12.53		13.75
reaction time	0.166	interval		1.13	1.08	1.08	1.03	1.09	1.08	1.10	1.13	1.11	1.22	
wind	0.2 m/s	velocity	4.81	7.52	7.87	7.87	8.25	7.80	7.87	7.73	7.52	7.66	8.61	7.27

CAA Hurdle Development (2019)

2 / 5
3.29 3.20 3.34
7.75 7.97 7.63**Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)**

date	08-Jul-19	time	2.76	3.86	4.98	6.04	7.14	8.22	9.32	10.42	11.54	12.66		13.84
reaction time	0.196	interval		1.10	1.12	1.06	1.10	1.08	1.10	1.10	1.12	1.12	1.18	
wind	0.5 m/s	velocity	4.71	7.73	7.59	8.02	7.73	7.87	7.73	7.73	7.59	7.59	8.90	7.23

CAA Hurdle Development (2019)

3 / 4
3.28 3.28 3.34
7.77 7.77 7.63**FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)**

date	30-May-19	time	2.68	3.80	4.85	5.90	6.96	8.04	9.14	10.22	11.32	12.46		13.65
reaction time	0.168	interval		1.12	1.05	1.05	1.06	1.08	1.10	1.08	1.10	1.14	1.19	
wind	-0.1 m/s	velocity	4.85	7.59	8.10	8.10	8.02	7.87	7.73	7.87	7.73	7.46	8.82	7.33

CAA Hurdle Development (2019)

6 / 4
3.22 3.24 3.32
7.92 7.87 7.68**FINAL - 2019 Chinese National Grand Prix 3 (Jinhai, CHN)**

date	23-May-19	time	2.72	3.82	4.90	5.96	7.02	8.10	9.18	10.26	11.36	12.48		13.67
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CAA Hurdle Development (2019)

4 / 5

reaction time	0.197	interval	1.10	1.08	1.06	1.06	1.08	1.08	1.08	1.10	1.12	1.19			3.24	3.22	3.30
wind	0.4 m/s	velocity	4.78	7.73	7.87	8.02	8.02	7.87	7.87	7.87	7.73	7.59	8.82	7.32	7.87	7.92	7.73

B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)

CAA Hurdle Development (2019)

date	20-Feb-19	time	2.77	3.87	4.99	6.10	7.19							8.60	2 / 2		
reaction time		interval	1.10	1.12	1.11	1.09						1.41				3.33	
wind		velocity	4.69	7.73	7.59	7.66	7.80					9.22	6.98			7.66	

Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)

Henson (2018) - coaching observations

date	15-Sep-18	time	2.81	3.94	5.04	6.14	7.22	8.34	9.44	10.58	11.73	12.91		14.10	7 / 6		
reaction time		interval	1.13	1.10	1.10	1.08	1.12	1.10	1.14	1.15	1.18	1.19				3.33	3.30
wind	-0.6 m/s	velocity	4.63	7.52	7.73	7.73	7.87	7.59	7.73	7.46	7.39	7.20	8.82	7.09		7.66	7.73

Xie Liuying (CHN) (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 Chinese National Games (Beijing, CHN)

Bo (1996) - a study on female 100m hurdles running rhythm in the 7th national games

date	09-Sep-93	time	2.55	3.57	4.57	5.55	6.53	7.53	8.55	9.57	10.60	11.65		12.75	1 / 2		
reaction time		interval	1.02	1.00	0.98	0.98	1.00	1.02	1.02	1.03	1.05	1.10				3.00	3.00
wind	0.1 m/s	velocity	5.10	8.33	8.50	8.67	8.67	8.50	8.33	8.33	8.25	8.10	9.55	7.84		8.50	8.50

Yamada, Hiromi (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 - 2023 Japanese U20 National Championships (Osaka, JPN)

Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season

date	03-Jun-23	time	2.75	3.89	5.01	6.13	7.25	8.37	9.49	10.65	11.79	12.92		14.15	8 / 7		
reaction time	0.170	interval	1.14	1.12	1.12	1.12	1.12	1.12	1.16	1.14	1.13	1.23				3.38	3.36
wind	-1.4 m/s	velocity	4.73	7.46	7.59	7.59	7.59	7.59	7.59	7.33	7.46	7.52	8.17	7.07		7.54	7.59

Yamanaka, Aya (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 Osaka University Athletics Championships (Osaka, JPN)

(2017) - tfdata-store.com/2017/04/07/post-249/

date	06-Apr-17	time	2.77			7.31	8.45	9.60	10.79	11.99	13.19		14.51	2 / 6			
reaction time		interval				4.54	1.14	1.15	1.19	1.20	1.20	1.32					3.59
wind	-1.8 m/s	velocity	4.69			7.49	7.46	7.39	7.14	7.08	7.08	7.95	6.89				7.10

FINAL - 2016 Kansai Student Athletics Championships (Osaka, JPN)

(2016.10.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	19-Oct-16	time	2.75	3.89	5.03	6.19	7.33	8.50	9.66	10.83	12.02	13.23		14.55	6 / 1		
reaction time		interval	1.14	1.14	1.16	1.14	1.17	1.16	1.16	1.17	1.19	1.21	1.32			3.44	3.47
wind	0.5 m/s	velocity	4.73	7.46	7.46	7.33	7.46	7.26	7.33	7.26	7.14	7.02	7.95	6.87		7.41	7.35

Yamanishi, Momoko (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)

Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data

date	08-Aug-19	time	2.77	3.92	5.03	6.11	7.22	8.34	9.49	10.67	11.87	13.10		14.47	1 / 7		
reaction time		interval	1.15	1.11	1.08	1.11	1.12	1.15	1.18	1.20	1.23	1.37				3.34	3.38
wind	-4.1 m/s	velocity	4.69	7.38	7.67	7.87	7.66	7.59	7.39	7.20	7.08	6.91	7.66	6.91		7.63	7.54

Yamasaki, Yuki (JPN) (1995)

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

Heptathlon - Heat 2 - 2023 Japanese Multi-Event National Championships (Akita, JPN)

Matsubayashi (2024) - performance analysis of heptathlon athletes in the 2023 season

date	10-Jun-23	time	2.74	3.83	4.92	6.00	7.08	8.17	9.26	10.37	11.47	12.63		13.94	6 / 3		
reaction time		interval	1.09	1.09	1.08	1.08	1.09	1.09	1.11	1.10	1.16	1.31				3.26	3.26
wind	-0.3 m/s	velocity	4.74	7.80	7.80	7.87	7.87	7.80	7.80	7.66	7.73	7.33	7.67	7.17		7.82	7.82

Heptathlon - Heat 2 - 2023 Michitaka Kinami Memorial (Osaka, JPN)

Matsubayashi (2024) - performance analysis of heptathlon athletes in the 2023 season

date	06-May-23	time	2.73	3.80	4.90	5.97	7.04	8.12	9.21	10.31	11.42	12.57		13.83	7 / 2		
reaction time	0.137	interval	1.07	1.10	1.07	1.07	1.08	1.09	1.10	1.11	1.11	1.15	1.26			3.24	3.24
wind	-0.3 m/s	velocity	4.76	7.94	7.73	7.94	7.94	7.87	7.80	7.73	7.66	7.39	7.98	7.23		7.87	7.87

Heptathlon - Heat 3 - 2022 Japanese Multi-Event National Championships (Akita, JPN)

Takefu (2023) - performance analysis of heptathletes in the 2022 season

date	04-Jun-22	time	2.74	3.85	4.93	6.00	7.12	8.20	9.28	10.39	11.50	12.62		13.86	7 / 4		
reaction time		interval	1.11	1.08	1.07	1.12	1.08	1.08	1.11	1.11	1.12	1.24				3.26	3.28
wind	0.4 m/s	velocity	4.74	7.66	7.87	7.94	7.59	7.87	7.87	7.66	7.66	7.59	8.10	7.22		7.82	7.77

Heptathlon - Heat 2 - 2022 Michitaka Kinami Memorial (Osaka, JPN)

Takefu (2023) - performance analysis of heptathletes in the 2022 season

date	30-Apr-22	time	2.78	3.91	5.03	6.13	7.23	8.35	9.48	10.63	11.80	12.99		14.26	6 / 2		
reaction time	0.167	interval	1.13	1.12	1.10	1.10	1.12	1.13	1.15	1.17	1.19	1.27				3.35	3.35
wind	1.0 m/s	velocity	4.68	7.52	7.59	7.73	7.73	7.59	7.52	7.39	7.26	7.14	7.91	7.01		7.61	7.61

Heptathlon - Heat 3 - 2021 Japanese Multi-Event National Championships (Nagano, JPN)

Matsubayashi (2021) - 100m hurdles race analysis of heptathletes in the 2021 season

date	12-Jun-21	time	2.67	3.73	4.80	5.84	6.91	7.97	9.04	10.12	11.24	12.35		13.58	5 / 2		
reaction time	0.175	interval	1.06	1.07	1.04	1.07	1.06	1.07	1.08	1.12	1.11	1.23				3.17	3.20
wind	1.4 m/s	velocity	4.87	8.02	7.94	8.17	7.94	8.02	7.94	7.87	7.59	7.66	8.17	7.36		8.04	7.97

Heptathlon - Heat 3 - 2020 Japanese Multi-Event National Championships (Nagano, JPN)

Matsubayashi (2020) - research athlete performance technique- 2020 databook

date	26-Sep-20	time	2.74	3.83	4.94	6.02	7.12	8.21	9.30	10.43	11.55	12.70		13.95	6 / 3		
reaction time		interval	1.09	1.11	1.08	1.10	1.09	1.09	1.13	1.12	1.15	1.25				3.28	3.28
wind	0.1 m/s	velocity	4.74	7.80	7.66	7.87	7.73	7.80	7.80	7.52	7.59	7.39	8.04	7.17		7.77	7.77

Heptathlon - Heat 3 - 2019 Japanese National Multi-Event Championships (Nagano, JPN)*Matsubayashi (2019) - research on athlete performance and technique- 2019 data book*

date	08-Jun-19	time	2.74	3.86	4.99	6.10	7.24	8.36	9.50	10.64	11.78	12.95		14.19	4 / 4			
reaction time		interval		1.12	1.13	1.11	1.14	1.12	1.14	1.14	1.14	1.17	1.24			3.36	3.40	3.45
wind	2.3 m/s	velocity	4.74	7.59	7.52	7.66	7.46	7.59	7.46	7.46	7.46	7.26	8.47	7.05		7.59	7.50	7.39

Heptathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)*Matsubayashi (2018) - research on athlete performance and technique*

date	16-Jun-18	time	2.68	3.78	4.88	5.95	7.03	8.12	9.22	10.34	11.47	12.61		13.84	8 / 4			
reaction time		interval		1.10	1.10	1.07	1.08	1.09	1.10	1.12	1.13	1.14	1.23	PB		3.27	3.27	3.39
wind	1.6 m/s	velocity	4.85	7.73	7.73	7.94	7.87	7.80	7.73	7.59	7.52	7.46	8.54	7.23		7.80	7.80	7.52

Heptathlon - Heat 3 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN)*Matsubayashi (2018) - research on athlete performance and technique- 2018 data book*

date	21-Apr-18	time	2.77	3.92	5.08	6.21	7.39	8.54	9.74	10.94	12.16	13.38		14.71	8 / 2			
reaction time		interval		1.15	1.16	1.13	1.18	1.15	1.20	1.20	1.22	1.22	1.33			3.44	3.53	3.64
wind	-4.5 m/s	velocity	4.69	7.39	7.33	7.52	7.20	7.39	7.08	7.08	6.97	6.97	7.89	6.80		7.41	7.22	7.01

Yang Hua (CHN)**Heptathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)***CAA Hurdle Development (2021)*

date	24-Jun-21	time	2.80	3.99	5.17	6.35	7.52	8.72	9.91	11.11	12.31	13.53		14.89	6 / 5			
reaction time	0.199	interval		1.19	1.18	1.18	1.17	1.20	1.19	1.20	1.20	1.22	1.36			3.55	3.56	3.62
wind	0.2 m/s	velocity	4.64	7.14	7.20	7.20	7.26	7.08	7.14	7.08	7.08	6.97	7.39	6.72		7.18	7.16	7.04

Yanit, Nevin (TUR) (1986)**FINAL - 2013 European Indoor Championships (Göteborg, SWE)***Blomkvist (2013) - www.elitfandslag.se/SprintHäck/Korthäck.aspx*

date	01-Mar-13	time	2.52	3.58	4.58	5.58	6.56							7.89	3 / 4			
reaction time	0.158	interval		1.06	1.00	1.00	0.98						1.33	DV-NR		3.06		
wind		velocity	5.16	8.02	8.50	8.50	8.67						9.77	7.60		8.33		

FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)*Henson (2012) - Athlete First: major championships report*

date	07-Aug-12	time	2.50	3.50	4.50	5.46	6.42	7.42	8.40	9.40	10.42	11.42		12.58	6 / 5			
reaction time	0.161	interval		1.00	1.00	0.96	0.96	1.00	0.98	1.00	1.02	1.00	1.16	DV		2.96	2.94	3.02
wind	-0.2 m/s	velocity	5.20	8.50	8.50	8.85	8.85	8.50	8.67	8.50	8.33	8.50	9.05	7.95		8.61	8.67	8.44

FINAL - 2010 European Championships (Barcelona, ESP)*Graubner (2010) - http://www.fgs.uni-halle.de*

date	31-Jul-10	time	2.57	3.60	4.61	5.59	6.58	7.56	8.54	9.54	10.53	11.56		12.63	3 / 1			
reaction time	0.184	interval		1.03	1.01	0.98	0.99	0.98	0.98	1.00	0.99	1.03	1.07	NR		3.02	2.95	3.02
wind	-0.5 m/s	velocity	5.06	8.25	8.42	8.67	8.59	8.67	8.67	8.50	8.59	8.25	9.81	7.92		8.44	8.64	8.44

Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.60	3.64	4.66	5.68	6.68	7.69	8.71	9.74	10.78	11.86		12.99	8 / 5			
reaction time	0.153	interval		1.04	1.02	1.02	1.00	1.01	1.02	1.03	1.04	1.08	1.13			3.08	3.03	3.15
wind	-0.1 m/s	velocity	5.00	8.17	8.33	8.33	8.50	8.42	8.33	8.25	8.17	7.87	9.29	7.70		8.28	8.42	8.10

Heat 4 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	2.61	3.66	4.66	5.65	6.64	7.65	8.67	9.70	10.74	11.80		12.92	7 / 3			
reaction time	0.165	interval		1.05	1.00	0.99	0.99	1.01	1.02	1.03	1.04	1.06	1.12			3.04	3.02	3.13
wind	-0.3 m/s	velocity	4.98	8.10	8.50	8.59	8.59	8.42	8.33	8.25	8.17	8.02	9.38	7.74		8.39	8.44	8.15

Semi-Final 1 - 2008 Olympic Games (Beijing, CHN)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	18-Aug-08	time	2.62	3.68	4.70	5.72	6.73	7.76	8.81	9.87	11.10	12.19		13.28	8 / 7			
reaction time	0.201	interval		1.06	1.02	1.02	1.01	1.03	1.05	1.06	1.23	1.09	1.09			3.10	3.09	3.38
wind	0.2 m/s	velocity	4.96	8.02	8.33	8.33	8.42	8.25	8.10	8.02	6.91	7.80	9.63	7.53		8.23	8.25	7.54

Yanovska, Olena (UKR) (1990)**Race 1 - 2011 European Team Championships (Stockholm, SWE)***Blomkvist (2011) - www.sub13.se*

date	19-Jun-11	time	2.58	3.68	4.74	5.80	6.88	7.92	9.00	10.06	11.16	12.28		13.56	1 / 4			
reaction time	0.165	interval		1.10	1.06	1.06	1.08	1.04	1.08	1.06	1.10	1.12	1.28			3.22	3.20	3.28
wind	-1.0 m/s	velocity	5.04	7.73	8.02	8.02	7.87	8.17	7.87	8.02	7.73	7.59	8.20	7.37		7.92	7.97	7.77

Yao Hui (CHN) (2000)**Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)***CAA Hurdle Development (2021)*

date	25-Jun-21	time	2.80	3.94	5.06	6.20	7.31	8.44	9.56	10.73	11.88	13.09		14.43	7 / 6			
reaction time	0.211	interval		1.14	1.12	1.14	1.11	1.13	1.12	1.17	1.15	1.21	1.34			3.40	3.36	3.53
wind	-0.3 m/s	velocity	4.64	7.46	7.59	7.46	7.66	7.52	7.59	7.26	7.39	7.02	7.50	6.93		7.50	7.59	7.22

FINAL - 2020 Chinese National Championships (Shaoxing, CHN)*CAA Hurdle Development (2020)*

date	15-Sep-20	time	2.66	3.76	4.85	5.93	7.02	8.11	9.23	10.37	11.52	12.68		13.90	3 / 8			
reaction time	0.143	interval		1.10	1.09	1.08	1.09	1.09	1.12	1.14	1.15	1.16	1.22	PB		3.27	3.30	3.45
wind	-0.4 m/s	velocity	4.89	7.73	7.80	7.87	7.80	7.80	7.59	7.46	7.39	7.33	8.24	7.19		7.80	7.73	7.39

Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)*CAA Hurdle Development (2020)*

date	15-Sep-20	time	2.76	3.88	4.98	6.09	7.19	8.29	9.41	10.54	11.67	12.80		14.02	5 / 6			
reaction time	0.218	interval		1.12	1.10	1.11	1.10	1.10	1.12	1.13	1.13	1.13	1.22			3.33	3.32	3.39
wind	-0.6 m/s	velocity	4.71	7.59	7.73	7.66	7.73	7.73	7.59	7.52	7.52	7.52	8.24	7.13		7.66	7.68	7.52

Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

date 23-Aug-19 time 2.75 3.90 5.12
 reaction time 0.200 interval 1.15 1.22
 wind -0.2 m/s velocity 4.73 7.39 6.97

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CAA Hurdle Development (2019)

3 / --

U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)

date 14-Aug-19 time 2.71 3.84 4.94 6.06 7.16 8.27 9.39 10.54 11.68 12.83
 reaction time 0.374 interval 1.13 1.10 1.12 1.10 1.11 1.12 1.15 1.14 1.15 1.31
 wind -0.1 m/s velocity 4.80 7.52 7.73 7.59 7.73 7.66 7.59 7.39 7.46 7.39 8.02

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CAA Hurdle Development (2019)

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3.35 3.33 3.44

7.61 7.66 7.41

U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN)

date 14-Aug-19 time 2.72 3.84 4.94 6.03 7.17 8.29 9.44 10.58 11.74 12.91
 reaction time 0.170 interval 1.12 1.10 1.09 1.14 1.12 1.15 1.14 1.16 1.17 1.24
 wind 0.0 m/s velocity 4.78 7.59 7.73 7.80 7.46 7.59 7.39 7.46 7.33 7.26 8.47

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CAA Hurdle Development (2019)

4 / 2

3.31 3.41 3.47

7.70 7.48 7.35

Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)

date 02-Aug-19 time 2.70 3.87 5.02 6.14 7.27 8.39 9.54 10.68 11.84 13.01
 reaction time 0.185 interval 1.17 1.15 1.12 1.13 1.12 1.15 1.14 1.16 1.17 1.28
 wind 0.2 m/s velocity 4.81 7.26 7.39 7.59 7.52 7.59 7.39 7.46 7.33 7.26 8.20

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CAA Hurdle Development (2019)

7 / 7

3.44 3.40 3.47

7.41 7.50 7.35

Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)

date 08-Jul-19 time 2.76 3.95 5.04 6.14 7.26 8.40 9.54 10.70 11.86 13.04
 reaction time 0.250 interval 1.19 1.09 1.10 1.12 1.14 1.14 1.16 1.16 1.18 1.30
 wind 1.3 m/s velocity 4.71 7.14 7.80 7.73 7.59 7.46 7.46 7.33 7.33 7.20 8.08

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CAA Hurdle Development (2019)

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3.38 3.40 3.50

7.54 7.50 7.29

Heat 4 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)

date 13-Apr-19 time 2.70 3.82 4.92 6.02 7.12 8.24 9.36 10.52 11.69 12.87
 reaction time 0.224 interval 1.12 1.10 1.10 1.10 1.12 1.12 1.16 1.17 1.18 1.34
 wind 0.1 m/s velocity 4.81 7.59 7.73 7.73 7.73 7.59 7.59 7.33 7.26 7.20 7.84

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CAA Hurdle Development (2019)

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3.32 3.34 3.51

7.68 7.63 7.26

B-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)

date 24-Feb-19 time 2.77 3.93 5.07 6.19 7.32
 reaction time 0.166 interval 1.16 1.14 1.12 1.13
 velocity 4.69 7.33 7.46 7.59 7.52

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CAA Hurdle Development (2019)

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Yarraj, Jyothi (IND) (1999)**Repechage 1 - 2024 Olympic Games (Paris, FRA)**

date 08-Aug-24 time 2.52 3.61 4.66 5.69 6.69 7.72 8.76 9.80 10.83 11.90
 reaction time 0.166 interval 7 steps 1.09 1.05 1.03 1.00 1.03 1.04 1.04 1.03 1.07 1.27
 wind 0.1 m/s velocity 5.16 7.80 8.10 8.25 8.50 8.25 8.17 8.17 8.25 7.94 7.91

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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)

Paris 2024 Olympic Games - Results Book (2024)

Paris 2024 Olympic Games - Results Book (2024)

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Yasuda, Shiori (JPN) (1998)**Heat 5 - 2016 Japanese National Junior Championships (Mizuho, JPN)**

date 21-Oct-16 time 2.73 3.89 5.02 6.16 7.30 8.43 9.58 10.73 11.90 13.08
 reaction time interval 1.16 1.13 1.14 1.14 1.13 1.15 1.15 1.17 1.18 1.30
 wind 0.9 m/s velocity 4.76 7.33 7.52 7.46 7.46 7.52 7.39 7.39 7.26 7.20 8.08

(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

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

(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</

wind	1.6 m/s	velocity	4.73	7.52	7.73	7.66	7.73	7.80	7.52	7.33	7.39	7.39	8.40	7.08	7.63	7.68	7.37
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Yin Xiaoxia (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 - 2023 Chinese National Grand Prix 3 (Taizhou, CHN) <i>Shandong Athletics Sport Science (2023)</i>																		
date	27-May-23	time	2.81	3.93	5.04	6.14	7.25	8.34	9.46	10.60	11.73	12.88		14.13	1 / 7			
reaction time	0.218	interval	1.12	1.11	1.10	1.11	1.09	1.12	1.14	1.13	1.15	1.25				3.33	3.32	3.42
wind	-1.2 m/s	velocity	4.63	7.59	7.66	7.73	7.66	7.80	7.59	7.46	7.52	7.39	8.04	7.08		7.66	7.68	7.46

Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)

<i>CAA Hurdle Development (2021)</i>																		
date	25-Jun-21	time	2.85	4.02	5.17	6.34	7.48	8.66	9.84	11.04	12.24	13.51		14.81	8 / 6			
reaction time	0.239	interval	1.17	1.15	1.17	1.14	1.18	1.18	1.20	1.20	1.27	1.30				3.49	3.50	3.67
wind	-1.8 m/s	velocity	4.56	7.26	7.39	7.26	7.46	7.20	7.20	7.08	7.08	6.69	7.73	6.75		7.31	7.29	6.95

FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)

<i>CAA Hurdle Development (2021)</i>																		
date	19-May-21	time	2.78	3.90	5.00	6.12	7.24	8.38	9.49	10.63	11.81	12.99		14.28	5 / 5			
reaction time	0.216	interval	1.12	1.10	1.12	1.12	1.14	1.11	1.14	1.18	1.18	1.29				3.34	3.37	3.50
wind	0.2 m/s	velocity	4.68	7.59	7.73	7.59	7.59	7.46	7.66	7.46	7.20	7.20	7.79	7.00		7.63	7.57	7.29

FINAL - 2021 Central China Athletics Meeting (Ji'an, CHN)

<i>CAA Hurdle Development (2021)</i>																		
date	11-May-21	time	2.82	3.99	5.14	6.29	7.45	8.61	9.79	10.99	12.21	13.41		14.69	3 / 4			
reaction time		interval	1.17	1.15	1.15	1.16	1.16	1.18	1.20	1.22	1.20	1.28				3.47	3.50	3.62
wind	-0.6 m/s	velocity	4.61	7.26	7.39	7.39	7.33	7.33	7.20	7.08	6.97	7.08	7.85	6.81		7.35	7.29	7.04

Heat 2 - 2021 National Indoor Grand Prix (Chengdu, CHN)

<i>CAA Hurdle Development (2021)</i>																		
date	13-Mar-21	time	2.87	4.00	5.12	6.24	7.35							8.87	1 / 4			
reaction time	0.245	interval	1.13	1.12	1.12	1.11						1.52		PB		3.37		
		velocity	4.53	7.52	7.59	7.59	7.66					8.55	6.76			7.57		

U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN)

<i>CAA Hurdle Development (2019)</i>																		
date	14-Aug-19	time	2.75	3.89	4.99	6.12	7.26	8.38	9.53	10.66	11.83	12.98		14.20	7 / 4			
reaction time	0.152	interval	1.14	1.10	1.13	1.14	1.12	1.15	1.13	1.17	1.15	1.22				3.37	3.41	3.45
wind	-0.2 m/s	velocity	4.73	7.46	7.73	7.52	7.46	7.59	7.39	7.52	7.26	7.39	8.61	7.04		7.57	7.48	7.39

Yin Xinyi (CHN) (2000)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN) <i>CAA Hurdle Development (2021)</i>																		
date	24-Jun-21	time	2.87	4.02	5.19	6.32	7.49	8.69	9.91	11.09	12.31	13.55		14.86	5 / 3			
reaction time	0.195	interval	1.15	1.17	1.13	1.17	1.20	1.22	1.18	1.22	1.24	1.31		PB		3.45	3.59	3.64
wind	0.6 m/s	velocity	4.53	7.39	7.26	7.52	7.26	7.08	6.97	7.20	6.97	6.85	7.67	6.73		7.39	7.10	7.01

Heptathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

<i>CAA Hurdle Development (2019)</i>																		
date	23-Aug-19	time	2.95	4.19	5.41	6.62	7.84	9.09	10.38	11.66	12.96	14.28		15.74	8 / 7			
reaction time	0.245	interval	1.24	1.22	1.21	1.22	1.25	1.29	1.28	1.30	1.32	1.46				3.67	3.76	3.90
wind	?? m/s	velocity	4.41	6.85	6.97	7.02	6.97	6.80	6.59	6.64	6.54	6.44	7.19	6.35		6.95	6.78	6.54

Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)

<i>CAA Hurdle Development (2019)</i>																		
date	08-Jul-19	time	2.95	4.17	5.37	6.57	7.81	9.06	10.31	11.63	12.93	14.31		15.81	4 / 8			
reaction time	0.176	interval	1.22	1.20	1.20	1.24	1.25	1.25	1.32	1.30	1.38	1.50		PB		3.62	3.74	4.00
wind	0.1 m/s	velocity	4.41	6.97	7.08	7.08	6.85	6.80	6.80	6.44	6.54	6.16	7.00	6.33		7.04	6.82	6.38

Yoda, Ikuko (JPN) (1938)

			H1	H2	H3	H4	H5	H6	H7	H8		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles) <i>Breitschaft (1965) - die leichtathletik wettkampfe der 1964 olympischen sommerspielen - 80m hürdenlauf</i>																		
date	19-Oct-64	time			3.8			7.2					10.7	6 / 5				
reaction time		interval						3.40				3.50	(10.72)					
wind	2.3 m/s	velocity			7.37			7.06				6.86	9.35					

Semi-Final 2 - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles)

<i>Breitschaft (1965) - die leichtathletik wettkampfe der 1964 olympischen sommerspielen - 80m hürdenlauf</i>																		
date	19-Oct-64	time			4.4			7.3					10.7	1 / 2				
reaction time		interval						2.90				3.40	(10.72)					
wind	???	velocity			6.36			8.28				7.06	9.35					

Yokoyama, Suzuha (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) <i>Takashima (2024) - national high school sports festival - biomechanics data</i>																		
date	01-Aug-24	time	2.62	3.65	4.69	5.73	6.76	7.80	8.85	9.95	11.03	12.15		13.42	6 / 1			
reaction time	0.158	interval	1.03	1.04	1.04	1.03	1.04	1.05	1.10	1.08	1.12	1.27		PB		3.11	3.12	3.30
wind	1.0 m/s	velocity	4.96	8.25	8.17	8.17	8.25	8.17	8.10	7.73	7.87	7.59	7.91	7.45		8.20	8.17	7.73

Yoshida, Erika (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	2.72	3.82	4.92	5.97	7.04	8.11	9.17	10.25	11.33	12.44		13.72	6 / 5			
reaction time	0.167	interval	1.10	1.10	1.05	1.07	1.07	1.06	1.08	1.08	1.11	1.28				3.25	3.20	3.27
wind	1.8 m/s	velocity	4.78	7.73	7.73	8.10	7.94	7.94	8.02	7.87	7.87	7.66	7.85	7.29		7.85	7.97	7.80

FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	26-Jun-21	time	2.69	3.80	4.90	5.97	7.03	8.10	9.19	10.29	11.39	12.53		13.77	9 / 2				
reaction time	0.172	interval		1.11	1.10	1.07	1.06	1.07	1.09	1.10	1.10	1.14	1.24	PB		3.28	3.22	3.34	
wind	0.2 m/s	velocity	4.83	7.66	7.73	7.94	8.02	7.94	7.80	7.73	7.73	7.46	8.10	7.26		7.77	7.92	7.63	
Yoshida, Yui (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)			<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data collection</i>																
date	02-Aug-17	time	2.65	3.75	4.83	5.89	6.95	8.01	9.10	10.20	11.29	12.43		13.68	6 / 1				
reaction time	0.140	interval		1.10	1.08	1.06	1.06	1.06	1.09	1.10	1.09	1.14	1.25			3.24	3.21	3.33	
wind	-2.9 m/s	velocity	4.91	7.73	7.87	8.02	8.02	8.02	7.80	7.73	7.80	7.46	8.40	7.31		7.87	7.94	7.66	
Heat 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)			<i>(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
date	21-Oct-16	time	2.72	3.80	4.86	5.91	6.93	8.02	9.07	10.16	11.22	12.34		13.56	3 / 1				
reaction time		interval		1.08	1.06	1.05	1.02	1.09	1.05	1.09	1.06	1.12	1.22			3.19	3.16	3.27	
wind	1.6 m/s	velocity	4.78	7.41	7.55	7.62	7.84	7.34	7.62	7.34	7.55	7.14	12.30	7.37		7.52	7.59	7.34	
Yoshiho, Ichikawa (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)			<i>Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis</i>																
date	26-May-24	time	2.92	4.17	5.40	6.65	7.93	9.23	10.53	11.85	13.23	14.62		16.11	9 / 6				
reaction time		interval		1.25	1.23	1.25	1.28	1.30	1.30	1.32	1.38	1.39	1.49			3.73	3.88	4.09	
wind	-1.0 m/s	velocity	4.45	6.80	6.91	6.80	6.64	6.54	6.54	6.44	6.16	6.12	6.74	6.21		6.84	6.57	6.23	
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	2.90	4.15	5.40	6.67	7.92	9.20	10.50	11.83	13.18	14.68		16.20	3 / 3				
reaction time		interval		1.25	1.25	1.27	1.25	1.28	1.30	1.33	1.35	1.50	1.52			3.77	3.83	4.18	
wind	-0.2 m/s	velocity	4.48	6.80	6.80	6.69	6.80	6.64	6.54	6.39	6.30	5.67	6.61	6.17		6.76	6.66	6.10	
Yoshii, Ririko (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)			<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data</i>																
date	08-Aug-19	time	2.73	3.82	4.91	6.01	7.14	8.26	9.42	10.64	11.86	13.13		14.53	3 / 8				
reaction time		interval		1.09	1.09	1.10	1.13	1.12	1.16	1.22	1.22	1.27	1.40			3.28	3.41	3.71	
wind	-4.1 m/s	velocity	4.76	7.80	7.80	7.73	7.52	7.59	7.33	6.97	6.97	6.69	7.50	6.88		7.77	7.48	6.87	
Yoshita, Airi (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 2 - 2018 IAAF World Junior Championships (Tampere, FIN)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>																
date	14-Jul-18	time	2.73	3.80	4.85	5.91	6.94	7.97	9.03	10.11	11.20	12.32		13.55	5 / 5				
reaction time	0.159	interval		1.07	1.05	1.06	1.03	1.03	1.06	1.08	1.09	1.12	1.23			3.18	3.12	3.29	
wind	0.9 m/s	velocity	4.76	7.94	8.10	8.02	8.25	8.25	8.02	7.87	7.80	7.59	8.54	7.38		8.02	8.17	7.75	
FINAL - 2016 Japanese National High School Championships (Okayama, JPN)			<i>Kota (2016) - 69th high school championships: JAF scientific committee- biomechanics data</i>																
date	02-Aug-16	time	2.69	3.80	4.90	5.96	7.01	8.07	9.12	10.24	11.33	12.46		13.69	5 / 4				
reaction time	0.157	interval		1.11	1.10	1.06	1.05	1.06	1.05	1.12	1.09	1.13	1.23	PB		3.27	3.16	3.34	
wind	1.5 m/s	velocity	4.83	7.66	7.73	8.02	8.10	8.02	8.10	7.59	7.80	7.52	8.54	7.30		7.80	8.07	7.63	
Yosypenko, Lyudmyla (UKR) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																
date	15-Aug-09	time	2.76	3.86	4.92	5.98	7.04	8.13	9.21	10.29	11.40	12.50		13.64	3 / 3				
reaction time	0.169	interval		1.10	1.06	1.06	1.06	1.09	1.08	1.08	1.11	1.10	1.14	PB		3.22	3.23	3.29	
wind	-0.2 m/s	velocity	4.71	7.73	8.02	8.02	8.02	7.80	7.87	7.87	7.66	7.73	9.21	7.33		7.92	7.89	7.75	
You Na (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 - 2021 Chinese National Games (Xi'an, CHN)			<i>CAA Hurdle Development (2021)</i>																
date	22-Sep-21	time	2.56	3.60	4.66	5.68	6.72	7.76	8.83	9.87	10.93	12.03		13.30	8 / 7				
reaction time	0.153	interval		1.04	1.06	1.02	1.04	1.04	1.07	1.04	1.06	1.10	1.27			3.12	3.15	3.20	
wind	0.1 m/s	velocity	5.08	8.17	8.02	8.33	8.17	8.17	7.94	8.17	8.02	7.73	7.91	7.52		8.17	8.10	7.97	
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)			<i>CAA Hurdle Development (2021)</i>																
date	25-Jun-21	time	2.72	3.79	4.85	5.90	6.96	8.02	9.10	10.17	11.28	12.39		13.59	3 / 2				
reaction time	0.190	interval		1.07	1.06	1.05	1.06	1.06	1.08	1.07	1.11	1.11	1.20			3.18	3.20	3.29	
wind	-1.8 m/s	velocity	4.78	7.94	8.02	8.10	8.02	8.02	7.87	7.94	7.66	7.66	8.38	7.36		8.02	7.97	7.75	
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)			<i>CAA Hurdle Development (2021)</i>																
date	12-Jun-21	time	2.68	3.74	4.76	5.80	6.83	7.87	8.94	9.99	11.06	12.16		13.34	4 / 4				
reaction time	0.161	interval		1.06	1.02	1.04	1.03	1.04	1.07	1.05	1.07	1.10	1.18	=PB		3.12	3.14	3.22	
wind	1.0 m/s	velocity	4.85	8.02	8.33	8.17	8.25	8.17	7.94	8.10	7.94	7.73	8.52	7.50		8.17	8.12	7.92	
Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)			<i>CAA Hurdle Development (2021)</i>																
date	12-Jun-21	time	2.57	3.63	4.67	5.72	6.77	7.79	8.86	9.93	11.02	12.11		13.45	4 / 2				
reaction time	0.150	interval		1.06	1.04	1.05	1.05	1.02	1.07	1.07	1.09	1.09	1.34			3.15	3.14	3.25	
wind	-0.2 m/s	velocity	5.06	8.02	8.17	8.10	8.10	8.33	7.94	7.94	7.80	7.80	7.50	7.43		8.10	8.12	7.85	
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)			<i>CAA Hurdle Development (2021)</i>																
date	19-May-21	time	2.95	4.10	5.16	6.24	7.30	8.36	9.44	10.52	11.62	12.74		13.98	2 / 4				
reaction time	0.427	interval		1.15	1.06	1.08	1.06	1.06	1.08	1.08	1.10	1.12	1.24			3.29	3.20	3.30	

wind	0.2 m/s	velocity	4.41	7.39	8.02	7.87	8.02	8.02	7.87	7.87	7.73	7.59	8.10	7.15	259 of 267	W100H athlete	7.75	7.97	7.73
FINAL - 2021 Central China Athletics Meeting (Ji'an, CHN)																<i>CAA Hurdle Development (2021)</i>			
date	11-May-21	time	2.77	3.84	4.93	5.99	7.06	8.13	9.17	10.24	11.35	12.46		13.68	6 / 1				
reaction time		interval	1.07	1.09	1.06	1.07	1.07	1.04	1.07	1.11	1.11	1.22				3.22	3.18	3.29	
wind	-0.6 m/s	velocity	4.69	7.94	7.80	8.02	7.94	7.94	8.17	7.94	7.66	7.66	8.24	7.31		7.92	8.02	7.75	
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)																<i>CAA Hurdle Development (2021)</i>			
date	24-Apr-21	time	2.68	3.83	4.90	5.98	7.05	8.12	9.18	10.26	11.34	12.42		13.62	4 / 5				
reaction time	0.157	interval	1.15	1.07	1.08	1.07	1.07	1.06	1.08	1.08	1.08	1.20				3.30	3.20	3.24	
wind	-0.8 m/s	velocity	4.85	7.39	7.94	7.87	7.94	7.94	8.02	7.87	7.87	7.87	8.38	7.34		7.73	7.97	7.87	
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)																<i>CAA Hurdle Development (2021)</i>			
date	24-Apr-21	time	2.72	3.82	4.87	5.93	7.00	8.04	9.07	10.15	11.21	12.30		13.51	6 / 2				
reaction time	0.167	interval	1.10	1.05	1.06	1.07	1.04	1.03	1.08	1.06	1.09	1.21				3.21	3.14	3.23	
wind	0.6 m/s	velocity	4.78	7.73	8.10	8.02	7.94	8.17	8.25	7.87	8.02	7.80	8.31	7.40		7.94	8.12	7.89	
FINAL - 2021 National Grand Prix (Chengdu, CHN)																<i>CAA Hurdle Development (2021)</i>			
date	02-Apr-21	time	2.72	3.80	4.85	5.88	6.90	7.94	9.02	10.10	11.19	12.30		13.50	4 / 4				
reaction time	0.208	interval	1.08	1.05	1.03	1.02	1.04	1.08	1.08	1.09	1.11	1.20				3.16	3.14	3.28	
wind	0.1 m/s	velocity	4.78	7.87	8.10	8.25	8.33	8.17	7.87	7.87	7.80	7.66	8.38	7.41		8.07	8.12	7.77	
Heat 3 - 2021 National Grand Prix (Chengdu, CHN)																<i>CAA Hurdle Development (2021)</i>			
date	02-Apr-21	time	2.72	3.82	4.86	5.90	6.98	8.04	9.08	10.14	11.22	12.30		13.50	5 / 1				
reaction time	0.173	interval	1.10	1.04	1.04	1.08	1.06	1.04	1.06	1.08	1.08	1.20				3.18	3.18	3.22	
wind	1.0 m/s	velocity	4.78	7.73	8.17	8.17	7.87	8.02	8.17	8.02	7.87	7.87	8.38	7.41		8.02	8.02	7.92	
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)																<i>CAA Hurdle Development (2020)</i>			
date	15-Sep-20	time	2.63	3.74	4.80	5.85	6.90	7.96	9.02	10.10	11.20	12.31		13.55	7 / 4				
reaction time	0.148	interval	1.11	1.06	1.05	1.05	1.06	1.06	1.08	1.10	1.11	1.24				3.22	3.17	3.29	
wind	-0.4 m/s	velocity	4.94	7.66	8.02	8.10	8.10	8.02	8.02	7.87	7.73	7.66	8.10	7.38		7.92	8.04	7.75	
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)																<i>CAA Hurdle Development (2020)</i>			
date	15-Sep-20	time	2.71	3.80	4.84	5.88	6.97	8.04	9.12	10.23	11.30	12.42		13.62	4 / 4				
reaction time	0.147	interval	1.09	1.04	1.04	1.09	1.07	1.08	1.11	1.07	1.12	1.20				3.17	3.24	3.30	
wind	-0.6 m/s	velocity	4.80	7.80	8.17	8.17	7.80	7.94	7.87	7.66	7.94	7.59	8.38	7.34		8.04	7.87	7.73	
FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)																<i>CAA Hurdle Development (2020)</i>			
date	14-Feb-20	time	2.72	3.79	4.83	5.87	6.90							8.28	6 / 2				
reaction time		interval	1.07	1.04	1.04	1.03	1.03							1.38		3.15			
		velocity	4.78	7.94	8.17	8.17	8.25							9.42		8.10			
Semi-Final 1 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)																<i>CAA Hurdle Development (2020)</i>			
date	14-Feb-20	time	2.73	3.80	4.84	5.87	6.92							8.30	1 / 2				
reaction time		interval	1.07	1.04	1.03	1.05	1.05							1.38		3.14			
		velocity	4.76	7.94	8.17	8.25	8.10							9.42		8.12			
Heat 6 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)																<i>CAA Hurdle Development (2020)</i>			
date	14-Feb-20	time	2.59	3.69	4.74	5.80	6.89							8.48	2 / 2				
reaction time		interval	1.10	1.05	1.06	1.09	1.09							1.59		3.21			
		velocity	5.02	7.73	8.10	8.02	7.80							8.18		7.94			
FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)																<i>CAA Hurdle Development (2020)</i>			
date	01-Feb-20	time	2.70	3.76	4.82	5.84	6.91							8.28	4 / 2				
reaction time		interval	1.06	1.06	1.02	1.07	1.07							1.37		3.14			
		velocity	4.81	8.02	8.02	8.33	7.94							9.49		8.12			
Heat 2 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)																<i>CAA Hurdle Development (2020)</i>			
date	01-Feb-20	time	2.65	3.72	4.77	5.82	6.86							8.26	4 / 1				
reaction time		interval	1.07	1.05	1.05	1.04	1.04							1.40		PB	3.17		
		velocity	4.91	7.94	8.10	8.10	8.17							9.29		7.26	8.04		
FINAL - 2020 Leonard Hilton Memorial Invitational (Houston, TX)																<i>CAA Hurdle Development (2020)</i>			
date	17-Jan-20	time	2.57	3.65	4.70	5.76	6.81							8.33	5 / 3				
reaction time		interval	1.08	1.05	1.06	1.05	1.05							1.52		PB	3.19		
		velocity	5.06	7.87	8.10	8.02	8.10							8.55		7.20	7.99		
Heat 3 - 2020 Leonard Hilton Memorial Invitational (Houston, TX)																<i>CAA Hurdle Development (2020)</i>			
date	17-Jan-20	time	2.55	3.67	4.72	5.77	6.82							8.37	4 / 1				
reaction time		interval	1.12	1.05	1.05	1.05	1.05							1.55		3.22			
		velocity	5.10	7.59	8.10	8.10	8.10							8.39		7.17	7.92		
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)																<i>CAA Hurdle Development (2019)</i>			

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

date	24-Aug-19	time	2.70	3.77	4.81	5.83	6.87	7.93	9.11	10.21	11.30	12.43	13.64	6 / 5				
reaction time	0.176	interval		1.07	1.04	1.02	1.04	1.06	1.18	1.10	1.09	1.13	1.21		3.13	3.28	3.32	
wind	-0.1 m/s	velocity	4.81	7.94	8.17	8.33	8.17	8.02	7.20	7.73	7.80	7.52	8.68	7.33	8.15	7.77	7.68	
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																		
date	23-Aug-19	time	2.65	3.74	4.79	5.82	6.87	7.93	8.99	10.08	11.16	12.30	13.53	7 / 1				
reaction time	0.175	interval		1.09	1.05	1.03	1.05	1.06	1.06	1.09	1.08	1.14	1.23		3.17	3.17	3.31	
wind	-0.2 m/s	velocity	4.91	7.80	8.10	8.25	8.10	8.02	8.02	7.80	7.87	7.46	8.54	7.39	8.04	8.04	7.70	
Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)																		
date	02-Aug-19	time	2.75	3.84	4.93	5.99	7.06	8.11	9.19	10.26	11.36	12.48	13.69	8 / 4				
reaction time	0.168	interval		1.09	1.09	1.06	1.07	1.05	1.08	1.07	1.10	1.12	1.21		3.24	3.20	3.29	
wind	0.2 m/s	velocity	4.73	7.80	7.80	8.02	7.94	8.10	7.87	7.94	7.73	7.59	8.68	7.30	7.87	7.97	7.75	
FINAL - 2019 Chinese National Championships (Shenyang, CHN)																		
date	08-Jul-19	time	2.68	3.72	4.77	5.81	6.85	7.89	8.92	10.01	11.08	12.18	13.38	4 / 3				
reaction time	0.170	interval		1.04	1.05	1.04	1.04	1.04	1.03	1.09	1.07	1.10	1.20	PB	3.13	3.11	3.26	
wind	0.2 m/s	velocity	4.85	8.17	8.10	8.17	8.17	8.17	8.25	7.80	7.94	7.73	8.75	7.47	8.15	8.20	7.82	
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)																		
date	08-Jul-19	time	2.68	3.72	4.77	5.82	6.86	7.90	8.94	9.99	11.10	12.22	13.44	6 / 1				
reaction time	0.165	interval		1.04	1.05	1.05	1.04	1.04	1.04	1.05	1.11	1.12	1.22	PB	3.14	3.12	3.28	
wind	1.3 m/s	velocity	4.85	8.17	8.10	8.10	8.17	8.17	8.17	8.10	7.66	7.59	8.61	7.44	8.12	8.17	7.77	
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)																		
date	30-May-19	time	2.73	3.82	4.92	5.95	7.02	8.09	9.19	10.31	11.42	12.58	13.80	4 / 6				
reaction time	0.180	interval		1.09	1.10	1.03	1.07	1.07	1.10	1.12	1.11	1.16	1.22		3.22	3.24	3.39	
wind	-0.1 m/s	velocity	4.76	7.80	7.73	8.25	7.94	7.94	7.73	7.59	7.66	7.33	8.61	7.25	7.92	7.87	7.52	
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																		
date	13-Apr-19	time	2.66	3.74	4.79	5.82	6.87	7.91	9.00	10.09	11.15	12.27	13.52	4 / 5				
reaction time	0.202	interval		1.08	1.05	1.03	1.05	1.04	1.09	1.09	1.06	1.12	1.25	PB	3.16	3.18	3.27	
wind	0.3 m/s	velocity	4.89	7.87	8.10	8.25	8.10	8.17	7.80	7.80	8.02	7.59	8.40	7.40	8.07	8.02	7.80	
Heat 1 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																		
date	13-Apr-19	time	2.74	3.82	4.89	5.93	7.02	8.07	9.15	10.24	11.34	12.47	13.70	4 / 2				
reaction time	0.197	interval		1.08	1.07	1.04	1.09	1.05	1.08	1.09	1.10	1.13	1.23		3.19	3.22	3.32	
wind	0.7 m/s	velocity	4.74	7.87	7.94	8.17	7.80	8.10	7.87	7.80	7.73	7.52	8.54	7.30	7.99	7.92	7.68	
A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)																		
date	20-Mar-19	time	2.69	3.77	4.84	5.89	7.04						8.36	3 / 1				
reaction time		interval		1.08	1.07	1.05	1.15						1.32	PB	3.20			
		velocity	4.83	7.87	7.94	8.10	7.39						9.85	7.18	7.97			
A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)																		
date	4-Mar-19	time	2.72	3.80	4.87	5.90	6.96						8.41	3 / 1				
reaction time		interval		1.08	1.07	1.03	1.06						1.45	PB	3.18			
		velocity	4.78	7.87	7.94	8.25	8.02						8.97	7.13	8.02			
A-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)																		
date	28-Feb-19	time	2.69	3.79	4.87	5.93	7.02						8.46	5 / 2				
reaction time		interval		1.10	1.08	1.06	1.09						1.44	PB	3.24			
		velocity	4.83	7.73	7.87	8.02	7.80						9.03	7.09	7.87			
Young, Candy (USA) (1962)																		
FINAL - 1979 Pan American Games (San Juan, PUR)																		
date	13-Jul-79	time	2.57	3.60	4.57	5.66	6.74	7.78	8.85	9.95	11.04	12.22	13.67	Lyle (1979) - coaching observations / 4				
reaction time		interval		1.03	0.97	1.09	1.08	1.04	1.07	1.10	1.09	1.18	1.45		3.09	3.19	3.37	
wind	3.9 m/s	velocity	5.06	8.25	8.76	7.80	7.87	8.17	7.94	7.73	7.80	7.20	7.24	7.32	8.25	7.99	7.57	
Semi-Final 2 - 1979 Pan American Games (San Juan, PUR)																		
date	12-Jul-79	time	2.39	3.48	4.54	5.57	6.68	7.69	8.79	9.88	11.02	12.24	13.74	Lyle (1979) - coaching observations / 2				
reaction time		interval		1.09	1.06	1.03	1.11	1.01	1.10	1.09	1.14	1.22	1.50		3.18	3.22	3.45	
wind	2.8 m/s	velocity	5.44	7.80	8.02	8.25	7.66	8.42	7.73	7.80	7.46	6.97	7.00	7.28	8.02	7.92	7.39	
Yu Jiaru (CHN) (1999)																		
Semi-Final 3 - 2021 Chinese National Games (Xi'an, CHN)																		
date	21-Sep-21	time	2.62	3.66	4.72	5.77	6.81	7.87	8.95	10.03	11.13	12.23	13.55	8 / 5				
reaction time	0.175	interval		1.04	1.06	1.05	1.04	1.06	1.08	1.08	1.10	1.10	1.32		3.15	3.18	3.28	
wind	0.1 m/s	velocity	4.96	8.17	8.02	8.10	8.17	8.02	7.87	7.87	7.73	7.73	7.61	7.38	8.10	8.02	7.77	
Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)																		
date	25-Jun-21	time	2.72	3.78	4.85	5.92	6.99	8.07	9.16	10.24	11.36	12.46	13.65	4 / 4				

reaction time	0.186	interval	1.06	1.07	1.07	1.07	1.08	1.09	1.08	1.12	1.10	1.19			3.20	3.24	3.30
wind	-1.6 m/s	velocity	4.78	8.02	7.94	7.94	7.94	7.87	7.80	7.87	7.59	7.73	8.45	7.33	7.97	7.87	7.73
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)														<i>CAA Hurdle Development (2021)</i>			
date	12-Jun-21	time	2.72	3.77	4.83	5.88	6.92	7.96	9.01	10.09	11.18	12.26		13.44	1 / 6		
reaction time	0.169	interval	1.05	1.06	1.05	1.04	1.04	1.05	1.08	1.09	1.08	1.18			3.16	3.13	3.25
wind	1.0 m/s	velocity	4.78	8.10	8.02	8.10	8.17	8.17	8.10	7.87	7.80	7.87	8.52	7.44	8.07	8.15	7.85
Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)														<i>CAA Hurdle Development (2021)</i>			
date	12-Jun-21	time	2.65	3.70	4.77	5.84	6.87	7.91	8.96	10.01	11.08	12.14		13.40	7 / 4		
reaction time	0.319	interval	1.05	1.07	1.07	1.03	1.04	1.05	1.05	1.07	1.06	1.26			3.19	3.12	3.18
wind	2.2 m/s	velocity	4.91	8.10	7.94	7.94	8.25	8.17	8.10	8.10	7.94	8.02	7.98	7.46	7.99	8.17	8.02
FINAL - 2021 Chinese East Region Athletics Meeting (Fuzhou, CHN)														<i>CAA Hurdle Development (2021)</i>			
date	23-May-21	time	2.77	3.83	4.89	5.94	6.98	8.05	9.12	10.19	11.27	12.37		13.60	6 / 5		
reaction time	0.216	interval	1.06	1.06	1.05	1.04	1.07	1.07	1.07	1.08	1.10	1.23			3.17	3.18	3.25
wind	-0.5 m/s	velocity	4.69	8.02	8.02	8.10	8.17	7.94	7.94	7.94	7.87	7.73	8.17	7.35	8.04	8.02	7.85
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)														<i>CAA Hurdle Development (2021)</i>			
date	24-Apr-21	time	2.70	3.80	4.87	5.94	7.00	8.06	9.14	10.23	11.31	12.42		13.62	8 / 6		
reaction time	0.243	interval	1.10	1.07	1.07	1.06	1.06	1.08	1.09	1.08	1.11	1.20			3.24	3.20	3.28
wind	-0.8 m/s	velocity	4.81	7.73	7.94	7.94	8.02	8.02	7.87	7.80	7.87	7.66	8.38	7.34	7.87	7.97	7.77
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)														<i>CAA Hurdle Development (2021)</i>			
date	24-Apr-21	time	2.74	3.80	4.87	5.92	6.97	8.01	9.08	10.14	11.23	12.33		13.56	8 / 3		
reaction time	0.191	interval	1.06	1.07	1.05	1.05	1.04	1.07	1.06	1.09	1.10	1.23			3.18	3.16	3.25
wind	0.5 m/s	velocity	4.74	8.02	7.94	8.10	8.10	8.17	7.94	8.02	7.80	7.73	8.17	7.37	8.02	8.07	7.85
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)														<i>CAA Hurdle Development (2021)</i>			
date	08-Apr-21	time	2.80	3.88	4.92	6.00	7.08	8.18	9.26	10.34	11.46	12.60		13.83	7 / 5		
reaction time		interval	1.08	1.04	1.08	1.08	1.10	1.08	1.08	1.12	1.14	1.23			3.20	3.26	3.34
wind	-0.1 m/s	velocity	4.64	7.87	8.17	7.87	7.87	7.73	7.87	7.87	7.59	7.46	8.17	7.23	7.97	7.82	7.63
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)														<i>CAA Hurdle Development (2020)</i>			
date	15-Sep-20	time	2.77	3.85	4.91	5.99	7.06	8.13	9.21	10.30	11.41	12.54		13.74	2 / 4		
reaction time	0.169	interval	1.08	1.06	1.08	1.07	1.07	1.08	1.09	1.11	1.13	1.20			3.22	3.22	3.33
wind	0.3 m/s	velocity	4.69	7.87	8.02	7.87	7.94	7.94	7.87	7.80	7.66	7.52	8.37	7.28	7.92	7.92	7.66
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	24-Aug-19	time	2.77	3.87	4.99	6.06	7.12	8.19	9.24	10.36	11.46	12.58		13.80	2 / 7		
reaction time	0.225	interval	1.10	1.12	1.07	1.06	1.07	1.05	1.12	1.10	1.12	1.22			3.29	3.18	3.34
wind	-0.1 m/s	velocity	4.69	7.73	7.59	7.94	8.02	7.94	8.10	7.59	7.73	7.59	8.61	7.25	7.75	8.02	7.63
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	23-Aug-19	time	2.82	3.90	4.99	6.09	7.17	8.27	9.36	10.48	11.60	12.73		13.98	9 / 4		
reaction time	0.200	interval	1.08	1.09	1.10	1.08	1.10	1.09	1.12	1.12	1.13	1.25			3.27	3.27	3.37
wind	0.2 m/s	velocity	4.61	7.87	7.80	7.73	7.87	7.73	7.80	7.59	7.59	7.52	8.40	7.15	7.80	7.80	7.57
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	02-Aug-19	time	2.78	3.82	4.89	5.94	6.98	8.03	9.09	10.14	11.24	12.33		13.54	8 / 5		
reaction time	0.197	interval	1.04	1.07	1.05	1.04	1.05	1.06	1.05	1.10	1.09	1.21			3.16	3.15	3.24
wind	0.0 m/s	velocity	4.68	8.17	7.94	8.10	8.17	8.10	8.02	8.10	7.73	7.80	8.68	7.39	8.07	8.10	7.87
Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	02-Aug-19	time	2.72	3.82	4.91	5.97	7.02	8.07	9.13	10.23	11.31	12.49		13.65	1 / 3		
reaction time	0.175	interval	1.10	1.09	1.06	1.05	1.05	1.06	1.10	1.08	1.18	1.16			3.25	3.16	3.36
wind	0.2 m/s	velocity	4.78	7.73	7.80	8.02	8.10	8.10	8.02	7.73	7.87	7.20	9.05	7.33	7.85	8.07	7.59
FINAL - 2019 Chinese National Championships (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	08-Jul-19	time	2.75	3.83	4.91	5.96	7.00	8.06	9.12	10.19	11.28	12.38		13.57	2 / 5		
reaction time	0.203	interval	1.08	1.08	1.05	1.04	1.06	1.06	1.07	1.09	1.10	1.19			3.21	3.16	3.26
wind	0.2 m/s	velocity	4.73	7.87	7.87	8.10	8.17	8.02	8.02	7.94	7.80	7.73	8.82	7.37	7.94	8.07	7.82
Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	08-Jul-19	time	2.80	3.88	4.98	6.04	7.10	8.16	9.24	10.32	11.40	12.50		13.71	8 / 3		
reaction time	0.285	interval	1.08	1.10	1.06	1.06	1.06	1.08	1.08	1.08	1.10	1.21			3.24	3.20	3.26
wind	0.5 m/s	velocity	4.64	7.87	7.73	8.02	8.02	8.02	7.87	7.87	7.87	7.73	8.68	7.29	7.87	7.97	7.82
FINAL - 2019 Chinese National Grand Prix 3 (Jinhai, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	23-May-19	time	2.72	3.78	4.84	5.88	6.92	7.98	9.04	10.10	11.16	12.24		13.42	7 / 3		
reaction time	0.185	interval	1.06	1.06	1.04	1.04	1.06	1.06	1.06	1.06	1.08	1.18			3.16	3.16	3.20
wind	0.4 m/s	velocity	4.78	8.02	8.02	8.17	8.17	8.02	8.02	8.02	8.02	7.87	8.90	7.45	8.07	8.07	7.97

FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)

date	13-Apr-19	time	2.72	3.77	4.84	5.87	6.89	7.93	8.97	10.04	11.10	12.20		13.40
reaction time	0.183	interval		1.05	1.07	1.03	1.02	1.04	1.04	1.07	1.06	1.10	1.20	
wind	0.3 m/s	velocity	4.78	8.10	7.94	8.25	8.33	8.17	8.17	7.94	8.02	7.73	8.75	7.46

CAA Hurdle Development (2019)
6 / 33.15 3.10 3.23
8.10 8.23 7.89**Heat 1 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)**

date	13-Apr-19	time	2.72	3.80	4.87	5.92	6.98	8.02	9.08	10.16	11.24	12.34		13.57
reaction time	0.195	interval		1.08	1.07	1.05	1.06	1.04	1.06	1.08	1.08	1.10	1.23	
wind	0.7 m/s	velocity	4.78	7.87	7.94	8.10	8.02	8.17	8.02	7.87	7.87	7.73	8.54	7.37

CAA Hurdle Development (2019)
8 / 13.20 3.16 3.26
7.97 8.07 7.82**FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)**

date	09-Apr-19	time	2.77	3.85	4.94	5.99	7.04	8.12	9.18	10.24	11.34	12.44		13.68
reaction time	0.242	interval		1.08	1.09	1.05	1.05	1.08	1.06	1.06	1.10	1.10	1.24	
wind	0.1 m/s	velocity	4.69	7.87	7.80	8.10	8.10	7.87	8.02	8.02	7.73	7.73	8.47	7.31

CAA Hurdle Development (2019)
9 / 43.22 3.19 3.26
7.92 7.99 7.82**Heat 3 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)**

date	08-Apr-19	time	2.78	3.85	4.92	5.99	7.03	8.09	9.17	10.24	11.30	12.41		13.63
reaction time	0.207	interval		1.07	1.07	1.07	1.04	1.06	1.08	1.07	1.06	1.11	1.22	
wind	1.0 m/s	velocity	4.68	7.94	7.94	7.94	8.17	8.02	7.87	7.94	8.02	7.66	8.61	7.34

CAA Hurdle Development (2019)
8 / 23.21 3.18 3.24
7.94 8.02 7.87**A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)**

date	20-Mar-19	time	2.74	3.84	4.91	5.99	7.04							8.47
reaction time		interval		1.10	1.07	1.08	1.05						1.43	
		velocity	4.74	7.73	7.94	7.87	8.10						9.09	7.08

CAA Hurdle Development (2019)
2 / 43.25
7.85**A-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)**

date	24-Feb-19	time	2.73	3.84	4.92	6.01	7.09							8.50
reaction time		interval		1.11	1.08	1.09	1.08						1.41	
		velocity	4.76	7.66	7.87	7.80	7.87						9.22	7.06

CAA Hurdle Development (2019)
2 / 23.28
7.77**B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)**

date	20-Feb-19	time	2.73	3.82	4.92	6.02	7.09							8.53
reaction time		interval		1.09	1.10	1.10	1.07						1.44	
		velocity	4.76	7.80	7.73	7.73	7.94						9.03	7.03

CAA Hurdle Development (2019)
3 / 13.29
7.75**Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)**

date	15-Sep-18	time	2.75	3.90	5.00	6.09	7.19	8.27	9.37	10.49	11.61	12.76		14.00
reaction time		interval		1.15	1.10	1.09	1.10	1.08	1.10	1.12	1.12	1.15	1.24	
wind	-0.6 m/s	velocity	4.73	7.39	7.73	7.80	7.73	7.87	7.73	7.59	7.59	7.39	8.47	7.14

Henson (2018) - coaching observations
8 / 53.34 3.28 3.39
7.63 7.77 7.52**Yuidori, Yuida (JPN)**

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - Japanese National Youth Championships (Mizuho, JPN) (76cm) (2016.10.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																	
date	21-Oct-16	time	2.64	3.73	4.77	5.80	6.83	7.89	8.93	9.99	11.07	12.17	13.39	6 / 1			
reaction time		interval		1.09	1.04	1.03	1.03	1.06	1.04	1.06	1.08	1.10	1.22		3.16	3.13	3.24
wind	0.8 m/s	velocity	4.92	7.34	7.69	7.77	7.77	7.55	7.69	7.55	7.41	7.27	12.30	7.47	7.59	7.67	7.41

Semi-Final 1 - Japanese National Youth Championships (Mizuho, JPN) (76cm)

(2016.10.22) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																	
date	21-Oct-16	time	2.66	3.77	4.83	5.87	6.92	7.96	9.01	10.05	11.14	12.24	13.45	5 / 1			
reaction time		interval		1.11	1.06	1.04	1.05	1.04	1.05	1.04	1.09	1.10	1.21		3.21	3.14	3.23
wind	1.2 m/s	velocity	4.89	7.21	7.55	7.69	7.62	7.69	7.62	7.69	7.34	7.27	12.40	7.43	7.48	7.64	7.43

Yuri, Ohiko (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 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	2.75	3.85	4.94	6.01	7.08	8.15	9.19	10.32	11.46	12.59	13.84	4 / 2			
reaction time		interval		1.10	1.09	1.07	1.07	1.07	1.04	1.13	1.14	1.13	1.25		3.26	3.18	3.40
wind	3.2 m/s	velocity	4.73	7.73	7.80	7.94	7.94	7.94	8.17	7.52	7.46	7.52	8.40	7.23	7.82	8.02	7.50

Yuxi Lin (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 Chinese East Region Athletics Meeting (Fuzhou, CHN) CAA Hurdle Development (2021)																	
date	23-May-21	time	2.70	3.80	4.87	5.92	6.96	8.03	9.11	10.19	11.29	12.39	13.60	2 / 4			
reaction time		interval		1.10	1.07	1.05	1.04	1.07	1.08	1.08	1.10	1.10	1.21		3.22	3.19	3.28
wind	-0.5 m/s	velocity	4.81	7.73	7.94	8.10	8.17	7.94	7.87	7.87	7.73	7.73	8.31	7.35	7.92	7.99	7.77

Zackiewicz, Claudia (FRG) (1962)

FINAL - 1988 Olympic Games (Seoul, KOR) Bruggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988																	
date	30-Sep-88	time	2.59	3.61	4.62	5.59	6.58	7.58	8.59	9.58	10.59	11.62	12.75	3 / 3			
reaction time		interval		1.02	1.01	0.97	0.99	1.00	1.01	0.99	1.01	1.03	1.13		3.00	3.00	3.03
wind	0.2 m/s	velocity	5.02	8.33	8.42	8.76	8.59	8.50	8.42	8.59	8.42	8.25	9.29	7.84	8.50	8.50	8.42

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)

Bruggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988																	
date	29-Sep-88	time	2.58	3.63	4.63	5.62	6.61	7.59	8.59	9.59	10.61	11.67	12.75	6 / 2			
reaction time		interval		1.05	1.00	0.99	0.99	0.98	1.00	1.00	1.02	1.06	1.08		3.04	2.97	3.08
wind	0.4 m/s	velocity	5.04	8.10	8.50	8.59	8.59	8.67	8.50	8.50	8.33	8.02	9.72	7.84	8.39	8.59	8.28

FINAL - 1987 West German National Championships (Gelsenkirchen, FRG) <i>Hucklekemkes (1997) - velocity in the women's 100m sprint hurdles (in Jarver (ed) - the hurdles, 1997)</i>														
date	11-Jul-87	time	2.61	3.63	4.63	5.61	6.62	7.60	8.59	9.61	10.63	11.69	12.80	/ 1
reaction time		interval		1.02	1.00	0.98	1.01	0.98	0.99	1.02	1.02	1.06	1.11	3.00 2.98 3.10
wind	-0.2 m/s	velocity	4.98	8.33	8.50	8.67	8.42	8.67	8.59	8.33	8.33	8.02	9.46	7.81 8.50 8.56 8.23

FINAL - 1987 European Cup (Prague, TCH) <i>Sušanka (1987) - hints on computer processing of biomechanical data</i>														
date	28-Jun-87	time	2.64	3.68	4.72	5.70	6.72	7.72	8.72	9.76	10.76	11.84	12.97	5 / 3
reaction time		interval		1.04	1.04	0.98	1.02	1.00	1.00	1.04	1.00	1.08	1.13	3.06 3.02 3.12
wind	-0.9m/s	velocity	4.92	8.17	8.17	8.67	8.33	8.50	8.50	8.17	8.50	7.87	9.29	7.71 8.33 8.44 8.17

Zagorcheva, Ginka (BUL) (1958) <i>Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics</i>														
FINAL - 1987 IAAF World Championships (Rome, ITA)														
date	04-Sep-87	time	2.51	3.52	4.49	5.46	6.44	7.41	8.38	9.34	10.31	11.28	12.34	5 / 1
reaction time		interval		1.01	0.97	0.97	0.98	0.97	0.97	0.96	0.97	0.97	1.06	CR 2.95 2.92 2.90
wind	-0.5 m/s	velocity	5.18	8.42	8.76	8.76	8.67	8.76	8.76	8.85	8.76	8.76	9.91	8.10 8.64 8.73 8.79

Semi-Final 2 - 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	04-Sep-87	time	2.60	3.63	4.65	5.86	6.66	7.64	8.62	9.62	10.62	11.69	12.75	6 / 2
reaction time		interval		1.03	1.02	1.21	0.80	0.98	0.98	1.00	1.00	1.07	1.06	3.26 2.76 3.07
wind	-0.2 m/s	velocity	5.00	8.25	8.33	7.02	10.63	8.67	8.67	8.50	8.50	7.94	9.91	7.84 7.82 9.24 8.31

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	03-Sep-87	time	2.56	3.57	4.57	5.57	6.54	7.53	8.49	9.46	10.45	11.45	12.51	2 / 1
reaction time		interval		1.01	1.00	1.00	0.97	0.99	0.96	0.97	0.99	1.00	1.06	3.01 2.92 2.96
wind	-1.0 m/s	velocity	5.08	8.42	8.50	8.50	8.76	8.59	8.85	8.76	8.59	8.50	9.91	7.99 8.47 8.73 8.61

FINAL - 1987 Greece vs. Bulgaria vs. USSR (Drama, GRE) <i>Bondarchuk (2007) - transfer of training in sports</i>														
date	08-Aug-87	time	2.49	3.47	4.42	5.39	6.33	7.26	8.17	9.15	10.15	11.17	12.25	/ 1
reaction time		interval		0.98	0.95	0.97	0.94	0.93	0.91	0.98	1.00	1.02	1.08	WR 2.90 2.78 3.00
wind	1.4 m/s	velocity	5.22	8.67	8.95	8.76	9.04	9.14	9.34	8.67	8.50	8.33	9.72	8.16 8.79 9.17 8.50

FINAL - 1983 IAAF World Championships (Helsinki, FIN) <i>Knobe (1984) - the hurdles</i>														
date	13-Aug-83	time	2.52	3.58	4.59	5.57	6.51	7.45	8.39	9.47	10.41	11.44	12.62	6 / 3
reaction time	0.117	interval		1.06	1.01	0.98	0.94	0.94	0.94	1.08	0.94	1.03	1.18	3.05 2.82 3.05
wind	2.4 m/s	velocity	5.16	8.02	8.42	8.67	9.04	9.04	9.04	7.87	9.04	8.25	8.90	7.92 8.36 9.04 8.36

Zagré, Anne (BEL) (1990) <i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>														
FINAL - 2021 Memorial van Damme (Brussels, BEL) (TV Analysis)														
date	03-Sep-21	time	2.60	3.62	4.64	5.62	6.60	7.60	8.60	9.64	10.66	11.70	12.96	8 / 6
reaction time	0.153	interval		1.02	1.02	0.98	0.98	1.00	1.00	1.04	1.02	1.04	1.26	3.02 2.98 3.10
wind	0.7 m/s	velocity	5.00	8.33	8.33	8.67	8.67	8.50	8.50	8.17	8.33	8.17	7.98	7.72 8.44 8.56 8.23

FINAL - 2020 Memorial Van Damme (Brussels, BEL) (TV Analysis) <i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>														
date	04-Sep-20	time	2.57	3.60	4.63	5.67	6.70	7.70	8.73	9.76	10.80	11.90	13.21	4 / 1
reaction time	0.136	interval		1.03	1.03	1.04	1.03	1.00	1.03	1.03	1.04	1.10	1.31	3.10 3.06 3.17
wind	-0.2 m/s	velocity	5.06	8.25	8.25	8.17	8.25	8.50	8.25	8.25	8.17	7.73	7.67	7.57 8.23 8.33 8.04

Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis) <i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>														
date	01-Aug-21	time	2.64	3.64	4.64	5.64	6.61	7.59	8.58	9.57	10.58	11.62	12.78	5 / 8
reaction time	0.153	interval		1.00	1.00	1.00	0.97	0.98	0.99	0.99	1.01	1.04	1.16	3.00 2.94 3.04
wind	-0.2 m/s	velocity	4.92	8.50	8.50	8.50	8.76	8.67	8.59	8.59	8.42	8.17	8.66	7.82 8.50 8.67 8.39

Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis) <i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>														
date	31-Jul-21	time	2.59	3.60	4.64	5.67	6.67	7.66	8.64	9.63	10.64	11.67	12.83	8 / 3
reaction time	0.153	interval		1.01	1.04	1.03	1.00	0.99	0.98	0.99	1.01	1.03	1.16	3.08 2.97 3.03
wind	0.3 m/s	velocity	5.02	8.42	8.17	8.25	8.50	8.59	8.67	8.59	8.42	8.25	8.66	7.79 8.28 8.59 8.42

Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT) <i>CAA Hurdle Development (2019)</i>														
date	06-Oct-19	time	2.61	3.64	4.63	5.61	6.59	7.56	8.54	9.56	10.58	11.62	13.23	9 / 5
reaction time	0.135	interval		1.03	0.99	0.98	0.98	0.97	0.98	1.02	1.02	1.04	1.61	DQ 3.00 2.93 3.08
wind	0.6 m/s	velocity	4.98	8.25	8.59	8.67	8.67	8.76	8.67	8.33	8.33	8.17	6.24	7.56 8.50 8.70 8.28

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	2.60	3.63	4.67	5.70	6.70	7.70					dnf	9 / --
reaction time	0.139	interval		1.03	1.04	1.03	1.00	1.00						DQ 3.10
wind	0.0 m/s	velocity	5.00	8.25	8.17	8.25	8.50	8.50						8.23

Semi-Final 1 - 2017 IAAF World Championships (London, GBR) <i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>														
date	11-Aug-17	time	2.51	3.59	4.67	5.66	6.71	7.70	8.74	9.81	10.89	11.99	13.34	9 / 8
reaction time	0.139	interval		1.08	1.08	0.99	1.05	0.99	1.04	1.07	1.08	1.10	1.35	3.15 3.08 3.25
wind	0.5 m/s	velocity	5.18	7.87	7.87	8.59	8.10	8.59	8.17	7.94	7.87	7.73	7.78	7.50 8.10 8.28 7.85

FINAL - 2017 Bislett Games (Oslo, NOR) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	15-Jun-17	time	2.62	3.66	4.70	5.70	6.68	7.68	8.68	9.70	10.72	11.74	12.98	8 / 6			
reaction time	0.154	interval		1.04	1.04	1.00	0.98	1.00	1.00	1.02	1.02	1.02	1.24		3.08	2.98	3.06
wind	0.8 m/s	velocity	4.96	8.17	8.17	8.50	8.67	8.50	8.50	8.33	8.33	8.33	8.47	7.70	8.28	8.56	8.33

FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)*Henson (2021) - Athlete First: 2016 year end hurdle report*

date	09-Sep-16	time	2.56	3.60	4.58	5.56	6.56	7.54	8.54	9.54	10.54	11.58	12.82	5 / 2			
reaction time	0.152	interval		1.04	0.98	0.98	1.00	0.98	1.00	1.00	1.00	1.04	1.24		3.00	2.98	3.04
wind	0.1 m/s	velocity	5.08	8.17	8.67	8.67	8.50	8.67	8.50	8.50	8.50	8.17	8.47	7.80	8.50	8.56	8.39

FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	01-Sep-16	time	2.60	3.64	4.64	5.64	6.64	7.64	8.66	9.70	10.72	11.74	12.98	9 / 8			
reaction time	0.146	interval		1.04	1.00	1.00	1.00	1.00	1.02	1.04	1.02	1.02	1.24		3.04	3.02	3.08
wind	0.4 m/s	velocity	5.00	8.17	8.50	8.50	8.50	8.50	8.33	8.17	8.33	8.33	8.47	7.70	8.39	8.44	8.28

FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	22-Jul-16	time	2.64	3.68	4.70	5.72	6.70	7.68	8.68	9.68	10.68	11.72	12.94	1 / 7			
reaction time	0.160	interval		1.04	1.02	1.02	0.98	0.98	1.00	1.00	1.00	1.04	1.22		3.08	2.96	3.04
wind	0.3 m/s	velocity	4.92	8.17	8.33	8.33	8.67	8.67	8.50	8.50	8.50	8.17	8.61	7.73	8.28	8.61	8.39

FINAL - 2016 European Championships (Amsterdam, NED) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	07-Jul-16	time	2.56	3.62	4.66	5.68	6.68	7.66	8.64	9.66	10.70	11.76	12.97	2 / 5			
reaction time	0.126	interval		1.06	1.04	1.02	1.00	0.98	0.98	1.02	1.04	1.06	1.21		3.12	2.96	3.12
wind	-0.7 m/s	velocity	5.08	8.02	8.17	8.33	8.50	8.67	8.67	8.33	8.17	8.02	8.68	7.71	8.17	8.61	8.17

FINAL - 2016 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	16-Jun-16	time	2.60	3.67	4.70	5.70	6.72	7.72	8.74	9.77	10.81	11.86	13.19	7 / 7			
reaction time	0.192	interval		1.07	1.03	1.00	1.02	1.00	1.02	1.03	1.04	1.05	1.33		3.10	3.04	3.12
wind	-0.4 m/s	velocity	5.00	7.94	8.25	8.50	8.33	8.50	8.33	8.25	8.17	8.10	7.89	7.58	8.23	8.39	8.17

Zamzow-Mahler, Ashtin (USA) (1996)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)***Henson (2024) - Athlete First: 2022 year end hurdle report*

date	17-Jul-22	time	2.60	3.64	4.67	5.69	6.72	7.75	8.78	9.91	11.03	12.20	13.47	8 / 3			
reaction time	0.232	interval		1.04	1.03	1.02	1.03	1.03	1.03	1.13	1.12	1.17	1.27		3.09	3.09	3.42
wind	1.4 m/s	velocity	5.00	8.17	8.25	8.33	8.25	8.25	8.25	7.52	7.59	7.26	7.91	7.42	8.25	8.25	7.46

Zbären, Noemi (SUI) (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 ISTAF (Berlin, GER) (TV Analysis)***Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season*

date	04-Sep-22	time	2.72	3.76	4.80	5.80	6.80	7.80	8.80	9.84	10.86	11.90	13.09	3 / 4			
reaction time	0.232	interval		1.04	1.04	1.00	1.00	1.00	1.00	1.04	1.02	1.04	1.19		3.08	3.00	3.10
wind	-0.3 m/s	velocity	4.78	8.17	8.17	8.50	8.50	8.50	8.50	8.17	8.33	8.17	8.45	7.64	8.28	8.50	8.23

Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	24-Jul-22	time	2.66	3.72	4.72	5.70	6.72	7.72	8.72	9.74	10.74	11.78	12.94	8 / 7			
reaction time	0.164	interval		1.06	1.00	0.98	1.02	1.00	1.00	1.02	1.00	1.04	1.16		3.04	3.02	3.06
wind	0.3 m/s	velocity	4.89	8.02	8.50	8.67	8.33	8.50	8.50	8.33	8.50	8.17	8.66	7.73	8.39	8.44	8.33

Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	23-Jul-22	time	2.60	3.66	4.66	5.66	6.66	7.66	8.66	9.68	10.70	11.74	13.00	6 / 3			
reaction time	0.162	interval		1.06	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.26		3.06	3.00	3.08
wind	-0.4 m/s	velocity	5.00	8.02	8.50	8.50	8.50	8.50	8.50	8.33	8.33	8.17	7.98	7.69	8.33	8.50	8.28

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

date	28-Aug-15	time	2.62	3.64	4.66	5.64	6.64	7.64	8.64	9.64	10.68	11.76	12.95	3 / 6			
reaction time	0.165	interval		1.02	1.02	0.98	1.00	1.00	1.00	1.00	1.04	1.08	1.19		3.02	3.00	3.12
wind	-0.3 m/s	velocity	4.96	8.33	8.33	8.67	8.50	8.50	8.50	8.50	8.17	7.87	8.82	7.72	8.44	8.50	8.17

Zekuciová, Anna (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)***Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.75	3.87	4.98	6.10	7.21	8.35	9.48	10.63	11.79	12.98	14.31	4 / 1			
reaction time	0.161	interval		1.12	1.11	1.12	1.11	1.14	1.13	1.15	1.16	1.19	1.33		3.35	3.38	3.50
wind	-3.9 m/s	velocity	4.73	7.59	7.66	7.59	7.66	7.46	7.52	7.39	7.33	7.14	7.89	6.99	7.61	7.54	7.29

Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE)*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.76	3.88	4.98	6.09	7.21	8.35	9.48	10.65	11.81	13.10	14.32	4 / 1			
reaction time	0.162	interval		1.12	1.10	1.11	1.12	1.14	1.13	1.17	1.16	1.29	1.22		3.33	3.39	3.62
wind	-4.5 m/s	velocity	4.71	7.59	7.73	7.66	7.59	7.46	7.52	7.26	7.33	6.59	8.61	6.98	7.66	7.52	7.04

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	2.79	3.92	5.06	6.18	7.31	8.44	9.60	10.75	11.91	13.14	14.42	6 / 3			
reaction time	0.201	interval		1.13	1.14	1.12	1.13	1.13	1.16	1.15	1.16	1.23	1.28		3.39	3.42	3.54
wind	-1.8 m/s	velocity	4.66	7.52	7.46	7.59	7.52	7.52	7.33	7.39	7.33	6.91	8.20	6.93	7.52	7.46	7.20

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zelinka, Jessica (CAN) (1981)																	
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)												<i>Henson (2021) - Athlete First: major championships report</i>					
date	07-Aug-12	time	2.50	3.50	4.50	5.46	6.42	7.40	8.38	9.40	10.42	11.46	12.69	8 / 6			
reaction time	0.145	interval		1.00	1.00	0.96	0.96	0.98	0.98	1.02	1.02	1.04	1.23		2.96	2.92	3.08
wind	-0.2 m/s	velocity	5.20	8.50	8.50	8.85	8.85	8.67	8.67	8.33	8.33	8.17	8.54	7.88	8.61	8.73	8.28
Zeng Xiaoling (CHN) (1980)																	
FINAL - 2001 Chinese National Games (Beijing, CHN)												<i>Huang (2003) - research on the technique of women's 100m hurdles in th 9th national games</i>					
date	18-Nov-01	time	2.60	3.64	4.66	5.68	6.68	7.69	8.71	9.73	10.75	11.79	12.91	1 / 3			
reaction time		interval		1.04	1.02	1.02	1.00	1.01	1.02	1.02	1.02	1.04	1.12		3.08	3.03	3.08
wind	2.2 m/s	velocity	5.00	8.17	8.33	8.33	8.50	8.42	8.33	8.33	8.33	8.17	9.37	7.75	8.28	8.42	8.28
Zhang Jiayi (CHN) (2001)																	
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)												<i>CAA Hurdle Development (2019)</i>					
date	14-Aug-19	time	2.64	3.74	4.84	5.92	7.02	8.11	9.21	10.33	11.45	12.60	13.87	5 / 3			
reaction time	0.182	interval		1.10	1.10	1.08	1.10	1.09	1.10	1.12	1.12	1.15	1.27		3.28	3.29	3.39
wind	-0.1 m/s	velocity	4.92	7.73	7.73	7.87	7.73	7.80	7.73	7.59	7.59	7.39	8.27	7.21	7.77	7.75	7.52
U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN)												<i>CAA Hurdle Development (2019)</i>					
date	14-Aug-19	time	2.72	3.80	4.87	5.96	7.06	8.16	9.27	10.37	11.48	12.61	13.84	8 / 1			
reaction time	0.192	interval		1.08	1.07	1.09	1.10	1.10	1.11	1.10	1.11	1.13	1.23	PB	3.24	3.31	3.34
wind	-0.2 m/s	velocity	4.78	7.87	7.94	7.80	7.73	7.73	7.66	7.73	7.66	7.52	8.54	7.23	7.87	7.70	7.63
Zhang Xueqing (CHN) (1997)																	
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)												<i>Henson (2018) - coaching observations</i>					
date	15-Sep-18	time	2.90	4.07	5.21	6.35	7.49	8.64	9.81	11.01	12.23	13.49	14.85	1 / 8			
reaction time		interval		1.17	1.14	1.14	1.14	1.15	1.17	1.20	1.22	1.26	1.36		3.45	3.46	3.68
wind	-0.6 m/s	velocity	4.48	7.26	7.46	7.46	7.46	7.39	7.26	7.08	6.97	6.75	7.72	6.73	7.39	7.37	6.93
Zhang Xuhui (CHN) (2000)																	
Heptathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)												<i>CAA Hurdle Development (2021)</i>					
date	24-Jun-21	time	2.80	3.97	5.12	6.27	7.41	8.54	9.73	10.91	12.09	13.33	14.62	7 / 2			
reaction time	0.218	interval		1.17	1.15	1.15	1.14	1.13	1.19	1.18	1.18	1.24	1.29	PB	3.47	3.46	3.60
wind	0.3 m/s	velocity	4.64	7.26	7.39	7.39	7.46	7.52	7.14	7.20	7.20	6.85	7.79	6.84	7.35	7.37	7.08
Zhang Yali (CHN) (1996)																	
Heptathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)												<i>CAA Hurdle Development (2019)</i>					
date	08-Jul-19	time	3.08	4.34	5.63	6.89	8.16	9.40	10.66	11.93	13.23	14.53	15.82	7 / 7			
reaction time	0.219	interval		1.26	1.29	1.26	1.27	1.24	1.26	1.27	1.30	1.30	1.29	PB	3.81	3.77	3.87
wind	0.8 m/s	velocity	4.22	6.75	6.59	6.75	6.69	6.85	6.75	6.69	6.54	6.54	8.14	6.32	6.69	6.76	6.59
Zhang Yan (CHN) (2001)																	
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)												<i>CAA Hurdle Development (2021)</i>					
date	24-Apr-21	time	2.80	3.96	5.10	6.24	7.39	8.52	9.67	10.84	12.03	13.25	14.58	5 / 6			
reaction time	0.195	interval		1.16	1.14	1.14	1.15	1.13	1.15	1.17	1.19	1.22	1.33		3.44	3.43	3.58
wind	0.6 m/s	velocity	4.64	7.33	7.46	7.46	7.39	7.52	7.39	7.26	7.14	6.97	7.56	6.86	7.41	7.43	7.12
U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN)												<i>CAA Hurdle Development (2019)</i>					
date	14-Aug-19	time	2.79	3.94	5.09	6.27	7.46	8.66	9.89	11.16	12.45	13.80	15.28	4 / 6			
reaction time	0.154	interval		1.15	1.15	1.18	1.19	1.20	1.23	1.27	1.29	1.35	1.48		3.48	3.62	3.91
wind	0.5 m/s	velocity	4.66	7.39	7.39	7.20	7.14	7.08	6.91	6.69	6.59	6.30	7.09	6.54	7.33	7.04	6.52
Zhang Yi (CHN) (2000)																	
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)												<i>CAA Hurdle Development (2019)</i>					
date	14-Aug-19	time	2.65	3.80	4.90	6.03	7.12	8.28	9.43	10.61	11.81	13.06	14.51	4 / 8			
reaction time	0.179	interval		1.15	1.10	1.13	1.09	1.16	1.15	1.18	1.20	1.25	1.45		3.38	3.40	3.63
wind	-0.1 m/s	velocity	4.91	7.39	7.73	7.52	7.80	7.33	7.39	7.20	7.08	6.80	7.24	6.89	7.54	7.50	7.02
U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN)												<i>CAA Hurdle Development (2019)</i>					
date	14-Aug-19	time	2.68	3.79	4.87	5.96	7.02	8.12	9.21	10.36	11.50	12.71	14.08	3 / 1			
reaction time	0.138	interval		1.11	1.08	1.09	1.06	1.10	1.09	1.15	1.14	1.21	1.37	PB	3.28	3.25	3.50
wind	0.5 m/s	velocity	4.85	7.66	7.87	7.80	8.02	7.73	7.80	7.39	7.46	7.02	7.66	7.10	7.77	7.85	7.29
A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)												<i>CAA Hurdle Development (2019)</i>					
date	4-Mar-19	time	2.68	3.77	4.87	5.95	7.07						8.60	4 / 3			
reaction time		interval		1.09	1.10	1.08	1.12					1.53			3.27		
		velocity	4.85	7.80	7.73	7.87	7.59					8.50	6.98		7.80		
A-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)												<i>CAA Hurdle Development (2019)</i>					
date	28-Feb-19	time	2.72	3.80	4.88	6.02	7.14						8.65	2 / 4			
reaction time		interval		1.08	1.08	1.14	1.12					1.51			3.30		
		velocity	4.78	7.87	7.87	7.46	7.59					8.61	6.94		7.73		

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zhang Yu (CHN) (1971)																	
FINAL - 1993 Chinese National Games (Beijing, CHN)		<i>Bo (1996) - a study on female 100m hurdles running rhythm in the 7th national games</i>															
date	09-Sep-93	time	2.54	3.58	4.56	5.55	6.53	7.51	8.51	9.52	10.53	11.55	12.64	/ 1			
reaction time		interval		1.04	0.98	0.99	0.98	0.98	1.00	1.01	1.01	1.02	1.09	AR	3.01	2.96	3.04
wind	0.1 m/s	velocity	5.12	8.17	8.67	8.59	8.67	8.67	8.50	8.42	8.42	8.33	9.63	7.91	8.47	8.61	8.39
Zheng Ninali (CHN) (1998)																	
National FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)		<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>															
date	02-Sep-23	time	2.65	3.73	4.79	5.81	6.85	7.91	8.97	10.07	11.18	12.31	13.54	2 / 4			
reaction time	0.169	interval		1.08	1.06	1.02	1.04	1.06	1.06	1.10	1.11	1.13	1.23		3.16	3.16	3.34
wind	0.1 m/s	velocity	4.91	7.87	8.02	8.33	8.17	8.02	8.02	7.73	7.66	7.52	8.17	7.39	8.07	8.07	7.63
Heptathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>															
date	04-Aug-21	time	2.63	3.67	4.70	5.75	6.77	7.82	8.85	9.90	10.98	12.07	13.27	3 / 5			
reaction time	0.123	interval		1.04	1.03	1.05	1.02	1.05	1.03	1.05	1.08	1.09	1.20	PB	3.12	3.10	3.22
wind	-0.8 m/s	velocity	4.94	8.17	8.25	8.10	8.33	8.10	8.25	8.10	7.87	7.80	8.38	7.54	8.17	8.23	7.92
FINAL - 2021 Chinese East Region Athletics Meeting (Fuzhou, CHN)		<i>CAA Hurdle Development (2021)</i>															
date	23-May-21	time	2.77	3.85	4.89	5.92	6.95	7.99	9.07	10.15	11.23	12.33	13.58	4 / 3			
reaction time	0.217	interval		1.08	1.04	1.03	1.03	1.04	1.08	1.08	1.08	1.10	1.25		3.15	3.15	3.26
wind	-0.5 m/s	velocity	4.69	7.87	8.17	8.25	8.25	8.17	7.87	7.87	7.87	7.73	8.04	7.36	8.10	8.10	7.82
Zhong Xiaoli (CHN) (2003)																	
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)		<i>CAA Hurdle Development (2021)</i>															
date	19-May-21	time	2.80	3.93	5.07	6.19	7.29	8.39	9.52	10.64	11.93	13.21	14.55	8 / 6			
reaction time	0.225	interval		1.13	1.14	1.12	1.10	1.10	1.13	1.12	1.29	1.28	1.34		3.39	3.33	3.69
wind	0.2 m/s	velocity	4.64	7.52	7.46	7.59	7.73	7.73	7.52	7.59	6.59	6.64	7.50	6.87	7.52	7.66	6.91
Heat 3 - 2021 National Grand Prix (Chengdu, CHN)		<i>CAA Hurdle Development (2021)</i>															
date	02-Apr-21	time	2.92	4.20	5.46	6.74	8.04	9.36	10.68	12.08	13.52	14.96	nt	8 / 6			
reaction time		interval		1.28	1.26	1.28	1.30	1.32	1.32	1.40	1.44	1.44			3.82	3.94	4.28
wind	1.0 m/s	velocity	4.45	6.64	6.75	6.64	6.54	6.44	6.44	6.07	5.90	5.90			6.68	6.47	5.96
Heat 1 - 2021 National Grand Prix (Chengdu, CHN)		<i>CAA Hurdle Development (2021)</i>															
date	02-Apr-21	time	2.78	4.38										dnf	7 / --		
reaction time	0.247	interval		1.60													
wind	0.4 m/s	velocity	4.68	5.31													
Heat 2 - 2021 National Indoor Grand Prix (Chengdu, CHN)		<i>CAA Hurdle Development (2021)</i>															
date	13-Mar-21	time	2.74	3.85	4.94	6.02	7.11						8.59	6 / 2			
reaction time	0.179	interval		1.11	1.09	1.08	1.09						1.48		3.28		
		velocity	4.74	7.66	7.80	7.87	7.80						8.78		6.98		7.77
Zhou Hongyan (CHN) (1970)																	
FINAL - 1993 Chinese National Games (Beijing, CHN)		<i>Bo (1996) - a study on female 100m hurdles running rhythm in the 7th national games</i>															
date	09-Sep-93	time	2.57	3.61	4.63	5.62	6.63	7.65	8.67	9.69	10.73	11.78	12.90	/ 3			
reaction time		interval		1.04	1.02	0.99	1.01	1.02	1.02	1.02	1.04	1.05	1.12		3.05	3.05	3.11
wind	0.1 m/s	velocity	5.06	8.17	8.33	8.59	8.42	8.33	8.33	8.33	8.17	8.10	9.37	7.75	8.36	8.36	8.20
Zhou Jing (CHN) (1973)																	
FINAL - 1993 Chinese National Games (Beijing, CHN)		<i>Bo (1996) - a study on female 100m hurdles running rhythm in the 7th national games</i>															
date	09-Sep-93	time	2.56	3.62	4.67	5.68	6.71	7.75	8.79	9.83	10.89	12.05	13.19	/ 6			
reaction time		interval		1.06	1.05	1.01	1.03	1.04	1.04	1.04	1.06	1.16	1.14		3.12	3.11	3.26
wind	0.1 m/s	velocity	5.08	8.02	8.10	8.42	8.25	8.17	8.17	8.17	8.02	7.33	9.21	7.58	8.17	8.20	7.82
Zhou Jingjing (CHN) (1998)																	
Heptathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)		<i>CAA Hurdle Development (2021)</i>															
date	24-Jun-21	time	2.82	3.97	5.15	6.29	7.44	8.61	9.77	10.98	12.18	13.44	14.81	8 / 3			
reaction time	0.292	interval		1.15	1.18	1.14	1.15	1.17	1.16	1.21	1.20	1.26	1.37		3.47	3.48	3.67
wind	0.2 m/s	velocity	4.61	7.39	7.20	7.46	7.39	7.26	7.33	7.02	7.08	6.75	7.34	6.75	7.35	7.33	6.95
Heptathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)		<i>CAA Hurdle Development (2019)</i>															
date	23-Aug-19	time	2.87	4.04	5.22	6.41	7.57	8.76	9.96	11.19	12.41	13.69	15.07	6 / 3			
reaction time	0.177	interval		1.17	1.18	1.19	1.16	1.19	1.20	1.23	1.22	1.28	1.38		3.54	3.55	3.73
wind	?? m/s	velocity	4.53	7.26	7.20	7.14	7.33	7.14	7.08	6.91	6.97	6.64	7.61	6.64	7.20	7.18	6.84
Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)		<i>CAA Hurdle Development (2019)</i>															
date	08-Jul-19	time	2.91	4.07	5.24	6.39	7.56	8.71	9.88	11.09	12.33	13.58	15.00	1 / 6			
reaction time	0.221	interval		1.16	1.17	1.15	1.17	1.15	1.17	1.21	1.24	1.25	1.42		3.48	3.49	3.70
wind	0.1 m/s	velocity	4.47	7.33	7.26	7.39	7.26	7.39	7.26	7.02	6.85	6.80	7.39	6.67	7.33	7.31	6.89
Zhuang Dongmei (CHN) (2000)																	
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)		<i>CAA Hurdle Development (2021)</i>															

date	25-Jun-21	time	2.75	3.92	5.09	6.24	7.39	8.54	9.74	10.94	12.14	13.38		14.73	9 / 7			
reaction time	0.195	interval		1.17	1.17	1.15	1.15	1.15	1.20	1.20	1.20	1.24	1.35			3.49	3.50	3.64
wind	-0.3 m/s	velocity	4.73	7.26	7.26	7.39	7.39	7.39	7.08	7.08	7.08	6.85	7.44	6.79		7.31	7.29	7.01

Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)*Henson (2018) - coaching observations*

date	15-Sep-18	time	2.74	3.87	5.04	6.21	7.37	8.49	9.74	11.01	12.24	13.48		14.80	2 / 8			
reaction time		interval		1.13	1.17	1.17	1.16	1.12	1.25	1.27	1.23	1.24	1.32			3.47	3.53	3.74
wind	0.0 m/s	velocity	4.74	7.52	7.26	7.26	7.33	7.59	6.80	6.69	6.91	6.85	7.95	6.76		7.35	7.22	6.82

Žitná, Venuše (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 - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)										<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national championships</i>								
date	14-Feb-15	time	2.73	3.90	5.04	6.15	7.31							8.78	7 / 3			
reaction time	0.243	interval		1.17	1.14	1.11	1.16						1.47			3.42		
wind		velocity	4.76	7.26	7.46	7.66	7.33						8.84	6.83		7.46		

Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.83	4.04	5.21	6.44	7.68	8.93	10.20	11.53	12.80	14.07		15.53	1 / 3			
reaction time	0.186	interval		1.21	1.17	1.23	1.24	1.25	1.27	1.33	1.27	1.27	1.46			3.61	3.76	3.87
wind	-7.3 m/s	velocity	4.59	7.02	7.26	6.91	6.85	6.80	6.69	6.39	6.69	6.69	7.19	6.44		7.06	6.78	6.59

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