

Women's 100m Hurdles Touchdown Times - by athletics meeting

LAST UPDATE: 4-Oct-24

2024 Memorial van damme (Brussels, BEL)

FINAL

date 14-Sep-24 wind 0.4 m/s Henson (2024) - Athlete First: 2024 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
Camacho-Quinn, Jasmine (PU)	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
			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
Visser, Nadine (NED) (1995)	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
			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
Nugent, Ackera (JAM) (2002)	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
			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
Stark, Grace (USA) (2001)	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	0.97	0.99	1.00	1.00	1.09			2.98	2.93	2.99
			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
Williams, Danielle (JAM) (1992)	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
			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
Marshall, Tonea (USA) (1998)	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
			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
Samba-Mayela, Cyréna (FRA)	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
			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
Skrzyszowska, Pia (POL) (2001)	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
			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

2024 Weltklasse (Zürich, SUI)

FINAL

date 05-Sep-24 wind 0.8 m/s Omega Timing (2024) - diamond league race analysis

				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Camacho-Quinn, Jasmine (PU)	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
			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
Samba-Mayela, Cyréna (FRA)	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
			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
Russell, Masai (USA) (2000)	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
			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
Stark, Grace (USA) (2001)	time			2.43	3.46	4.45	5.43	6.41	7.37	8.33	9.30	10.28	11.27		12.49	7 / 4			
	reaction time	0.144	interval		1.03	0.99	0.98	0.98	0.96	0.96	0.97	0.98	0.99	1.22			3.00	2.90	2.94
			velocity		5.35	8.25	8.59	8.67	8.67	8.85	8.85	8.76	8.67	8.59	8.24	8.01		8.50	8.79
Visser, Nadine (NED) (1995)	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
			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
Williams, Danielle (JAM) (1992)	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
			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
Harrison, Kendra (USA) (1992)	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
			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
Skrzyszowska, Pia (POL) (2001)	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
			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
Kambundji, Ditaji (SUI) (2002)	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
			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

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

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

		date	30-Aug-24		wind -0.4 m/s		Omega Timing (2024) - diamond league race analysis														
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Nugent, Ackera (JAM) (2002)	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			
			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		
Russell, Masai (USA) (2000)	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	0.96	0.96	1.18			3.00	2.85	2.87			
			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		
Visser, Nadine (NED) (1995)	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			
			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		
Samba-Mayela, Cyréna (FRA)	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			
			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		
Johnson, Alaysha (USA) (1996)	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			
			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		
Harrison, Kendra (USA) (1992)	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			
			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		
Kambundji, Ditaji (SUI) (2002)	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			
			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		
Carmassi, Giada (ITA) (1994)	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			
			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		
Charlton, Devynne (BAH) (1996)	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				
			velocity	5.44	8.17	8.67	8.76	8.95	8.67	8.76	8.59						8.53	8.79			

2024 Kamila Skolimowska Memorial (Silesia, POL)**FINAL**

		date	25-Aug-24		wind -0.5 m/s		Omega Timing (2024) - diamond league race analysis														
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Nugent, Ackera (JAM) (2002)	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			
			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		
Stark, Grace (USA) (2001)	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			
			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		
Williams, Danielle (JAM) (1992)	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			
			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		
Russell, Masai (USA) (2000)	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	0.95	0.95	0.96	0.98	0.97	1.18			3.01	2.86	2.91			
			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		
Johnson, Alaysha (USA) (1996)	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			
			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		
Samba-Mayela, Cyréna (FRA)	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			
			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		
Visser, Nadine (NED) (1995)	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			
			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		
Harrison, Kendra (USA) (1992)	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			
			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		
Marshall, Toneya (USA) (1998)	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			
			velocity																		

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

date 25-Aug-24

wind 0.6 m/s

Omega Timing (2024) - diamond league race analysis

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Nugent, Ackera (JAM) (2002)	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
	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
Johnson, Alaysha (USA) (199f)	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
	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
Visser, Nadine (NED) (1995)	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
	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
Marshall, Tonea (USA) (1998)	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
	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
Russell, Masai (USA) (2000)	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
	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
Skrzyszowska, Pia (POL) (2001)	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
	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
Sember, Cindy (GBR) (1994)	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
	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
Wojtunik, Klaudia (POL) (1999)	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
	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

Heat A

date 25-Aug-24

wind -0.3 m/s

Omega Timing (2024) - diamond league race analysis

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Williams, Danielle (JAM) (1992)	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	0.97	0.99	1.00	1.23			2.96	2.85	2.96
	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
Stark, Grace (USA) (2001)	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
	velocity				7.21	8.95	8.76	8.85	8.50	8.76	8.50	8.17	8.05			8.85	8.59
Harrison, Kendra (USA) (1992)	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	1.00	1.24			2.97	2.90	2.94
	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
Samba-Mayela, Cyréna (FRA)	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
	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
Caicedo, Maribel (ECU) (1998)	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
	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
Majewska, Marika (POL) (2002)	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
	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
Thompson, Yanique (JAM) (1f)	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
	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
Forster, Viktória (SVK) (2002)	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
	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

2024 Athletissima (Lausanne, SUI)**FINAL**

date 22-Aug-24

wind -0.9 m/s

Omega Timing (2024) - diamond league race analysis

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Camacho-Quinn, Jasmine (PU)	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
	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

Stark, Grace (USA) (2001)	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	
		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
Nugent, Ackera (JAM) (2002)	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	
		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
Visser, Nadine (NED) (1995)	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	
		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
Williams, Danielle (JAM) (1992)	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	
		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
Johnson, Alaysha (USA) (199)	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	
		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
Samba-Mayela, Cyréna (FRA)	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	
		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
Kambundji, Ditaji (SUI) (2002)	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	
		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

2024 Olympic Games (Paris, FRA)

FINAL

date 10-Aug-24

wind -0.3 m/s

Paris 2024 Olympic Games - Results Book (2024)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Russell, Masai (USA) (2000)	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	
		velocity	5.42	8.17	8.42	8.76	8.85	9.04	8.95	8.95	8.85	8.45	8.11		8.44	8.95	8.89	
Samba-Mayela, Cyréna (FRA)	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	
		velocity	5.37	8.33	8.59	8.85	8.95	9.14	8.85	8.76	8.76	8.24	8.10		8.59	9.01	8.79	
Camacho-Quinn, Jasmine (PU)	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	
		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
Visser, Nadine (NED) (1995)	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	
		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
Stark, Grace (USA) (2001)	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	0.98	1.23			2.99	2.88	2.92	
		velocity	5.39	8.25	8.67	8.67	8.85	8.95	8.76	8.76	8.67	8.17	8.05		8.53	8.85	8.73	
Charlton, Devynne (BAH) (19)	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	
		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
Johnson, Alaysha (USA) (199)	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	
		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
Nugent, Ackera (JAM) (2002)	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		
		velocity	5.44	7.66	7.80	8.50	8.76	8.95	8.76						7.97	8.82		

Semi-Final 3

date 09-Aug-24

wind -0.7 m/s

Paris 2024 Olympic Games - Results Book (2024)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Camacho-Quinn, Jasmine (PU)	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	
		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
Russell, Masai (USA) (2000)	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	0.97	0.98	1.21			3.02	2.87	2.91	
		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
Nugent, Ackera (JAM) (2002)	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	

	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	
Samba-Mayela, Cyréna (FRA)	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	
	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	
Fukube, Mako (JPN) (1995)	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	
	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	
Fourie, Marione (RSA) (2002)	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	
	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	
Tjin-a-Lim, Maayke (NED) (199)	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
	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	
Sember, Cindy (GBR) (1994)	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		
	velocity	5.26	8.10	8.50	8.76	8.95	8.76	8.59	8.33						8.44	8.76		

Semi-Final 2

date 09-Aug-24 wind 0.4 m/s

Paris 2024 Olympic Games - Results Book (2024)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Johnson, Alaysha (USA) (1999)	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		
	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		
Visser, Nadine (NED) (1995)	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		
	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		
Taylor, Charisma (BAH) (1999)	time	2.41	3.43	4.43	5.41	6.37	7.35	8.32	9.32	10.35	11.40		12.63	8 / 3					
	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		3.00	2.91	3.08
	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		8.50	8.76	8.28		
Caicedo, Maribel (ECU) (1998)	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		
	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		
Kambundji, Ditaji (SUI) (2002)	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		
	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		
Lavin, Sarah (IRL) (1994)	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		
	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		
Brown, Janeek (JAM) (1998)	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		
	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		
Harala, Lotta (FIN) (1992)	time	2.46	3.53	4.57	5.60	6.61	7.62	8.63	9.65	10.69	11.75		13.05	2 / 8					
	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		3.14	3.03	3.12		
	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		8.12	8.42	8.17		

Semi-Final 1

date 09-Aug-24 wind 0.5 m/s

Paris 2024 Olympic Games - Results Book (2024)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Stark, Grace (USA) (2001)	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	
	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	
Charlton, Devynne (BAH) (199)	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	
	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	
Amusan, Tobi (NGR) (1997)	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	
	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	
Skrzyszowska, Pia (POL) (2001)	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	
	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	
Abdul-Rashid, Mariam (CAN)	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
	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	

Williams, Danielle (JAM) (1992)	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
	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
Tanaka, Yumi (JPN) (1998)	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
	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
Morrison, Ebony (LBR) (1994)	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
	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 3

date 08-Aug-24 wind -0.2 m/s Paris 2024 Olympic Games - Results Book (2024)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harala, Lotta (FIN) (1992)	time	2.43	3.49	4.50	5.51	6.49	7.48	8.49	9.50	10.53	11.57		12.86	6 / 1			
	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		3.08	2.98	3.08
	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		8.28	8.56	8.28
Tanaka, Yumi (JPN) (1998)	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
	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
Kozák, Luca (HUN) (1996)	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
	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
Wu Yanni (CHN) (1997)	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
	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
Clay, Liz (AUS) (1999)	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	1.04	1.05	1.29			3.10	3.05	3.11
	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
Fiadanantsoa, Sidonie (MAD)	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
	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
Cartwright, Denisha (BAH) (1997)	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
	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

Repechage 2

date 08-Aug-24 wind 0.4 m/s Paris 2024 Olympic Games - Results Book (2024)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Morrison, Ebony (LBR) (1994)	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	
	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	
Caicedo, Maribel (ECU) (1998)	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	
	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	
Hurske, Reetta (FIN) (1995)	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	
	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	
Bapte, Laetitia (FRA) (1999)	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
	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	
Mucci, Celeste (AUS) (1999)	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	0.141	interval	1.07	1.02	1.01	1.02	1.00	1.02	1.02	1.03	1.04	1.27		3.10	3.04	3.09	
	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	
Lin Yuwei (CHN) (1999)	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	
	velocity	5.24	7.87	8.10	8.33	8.33	8.42	8.25	8.25	8.10	8.10	7.67	7.62		8.10	8.33	8.15	
Harrison, Michelle (CAN) (1999)	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	
	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	

Repechage 1

date 08-Aug-24 wind 0.1 m/s Paris 2024 Olympic Games - Results Book (2024)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fourie, Marione (RSA) (2002)	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	1.00	1.02	1.03	1.25				3.06	2.99	3.05
		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
Tjin-a-Lim, Maayke (NED) (199)	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
		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
Forster, Viktória (SVK) (2002)	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	1.00	0.99	1.02	1.01	1.03	1.26				3.11	2.99	3.06
		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
Yarraj, Jyothi (IND) (1999)	time	2.52	3.61	4.66	5.69	6.69	7.72	8.76	9.80	10.83	11.90			13.17		8 / 4			
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				3.17	3.07	3.14
		velocity	5.16	7.80	8.10	8.25	8.50	8.25	8.17	8.17	8.25	7.94	7.91	7.59			8.04	8.31	8.12
Kerekes, Gréta (HUN) (1992)	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
		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
Chatfield, Emelia (HAI) (2001)	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
		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
Jenneke, Michelle (AUS) (1993)	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
		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

Heptathlon - Heat 3

date 08-Aug-24 wind -0.1 m/s Paris 2024 Olympic Games - Results Book (2024)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Kälin, Annik (SUI) (2000)	time	2.46	3.52	4.54	5.54	6.53	7.53	8.53	9.55	10.57	11.61			12.87		2 / 1			
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	3.08
		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	8.28
Brooks, Taliyah (USA) (1995)	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
		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
Vidts, Noor (BEL) (1996)	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				3.13	3.05	3.12
		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
Araujo, Martha (COL) (1996)	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
		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
Hawkins, Chari (USA) (1991)	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
		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
Hall, Anna (USA) (2001)	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
		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
Gerevini, Sveva (ITA) (1996)	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
		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
Lazraq-Khlass, Auriana (FRA)	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
		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

date 08-Aug-24 wind 0.0 m/s Paris 2024 Olympic Games - Results Book (2024)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Oosterwegel, Emma (NED) (19)	time	2.57	3.70	4.77	5.82	6.85	7.89	8.94	9.98	11.03	12.10			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
		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
Schäfer, Carolin (GER) (1991)	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
		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
Newton-Smith, Camryn (AUS)	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	1.05	1.08	1.08	1.09	1.11	1.35				3.17	3.18	3.28
		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
Vetter, Anouk (NED) (1993)	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

	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	
Thiam, Nafissatou (BEL) (1994)	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
	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	
Vanninen, Saga (FIN) (2003)	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
	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	
Nemes, Rita (HUN) (1989)	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
	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 1	date	08-Aug-24	wind	0.1 m/s											Paris 2024 Olympic Games - Results Book (2024)			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Sufek-Schubert, Adrianna (POL) (2002)	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
	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	
Johnson-Thompson, Katarina (GBR) (2002)	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
	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	
O'Dowda, Jade (GBR) (1999)	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
	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	
Dokter, Sofie (NED) (2002)	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
	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	
Krizsán, Xénia (HUN) (1993)	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
	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	
West, Tori (AUS) (1995)	time	2.52	3.65	4.73	5.80	6.86	7.91	8.98	10.06	11.15	12.26		13.62	8 / 6				
	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		3.28	3.18	3.28
	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	
O'Connor, Kate (IRL) (2000)	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
	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	
Heat 5	date	07-Aug-24	wind	-0.6 m/s											Paris 2024 Olympic Games - Results Book (2024)			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Nugent, Ackera (JAM) (2002)	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	0.96	0.98	0.99	1.04	1.03	1.24		3.03	2.91	3.06	
	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	
Charlton, Devynne (BAH) (1994)	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	1.01	1.00	1.04	1.27		3.05	2.93	3.05	
	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	
Stark, Grace (USA) (2001)	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	1.01	1.23		3.02	3.03	3.01	
	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	
Clay, Liz (AUS) (1995)	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
	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	
Harala, Lotta (FIN) (1992)	time	2.44	3.49	4.51	5.51	6.50	7.51	8.52	9.55	10.60	11.66		12.97	4 / 5				
	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		3.07	3.01	3.14
	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		8.31	8.47	8.12	
Forster, Viktória (SVK) (2002)	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
	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	
Lin Yuwei (CHN) (1999)	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
	velocity	5.22	7.94	8.10	8.25	8.33	8.33	8.33	8.10	8.02	7.87	7.44	7.55		8.10	8.33	7.99	
Harrison, Michelle (CAN) (1999)	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
	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	

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
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
Skrzysowska, Pia (POL) (2001)	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
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
Cartwright, Denisha (BAH) (1981)	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
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
Tanaka, Yumi (JPN) (1998)	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
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
Morrison, Ebony (LBR) (1994)	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
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
Mucci, Celeste (AUS) (1999)	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	0.143	interval	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
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
Chatfield, Emelia (HAI) (2001)	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
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

Heat 1

date 07-Aug-24

wind -0.1 m/s

Paris 2024 Olympic Games - Results Book (2024)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	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	
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	
Johnson, Alaysha (USA) (1996)	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	
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	
Brown, Janeek (JAM) (1998)	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	
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	
Fukube, Mako (JPN) (1995)	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	
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	
Fiadanantsoa, Sidonie (MAD) (1997)	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	0.147	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	
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	
Wu Yanni (CHN) (1997)	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	
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	
Tjin-a-Lim, Maayke (NED) (1999)	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
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	
Caicedo, Maribel (ECU) (1998)	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	
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	

2024 Japanese National High School Championships (Fukuoka, JPN)

FINAL

date 01-Aug-24

wind 1.0 m/s

Takashima (2024) - national high school sports festival - biomechanics data

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yokoyama, Suzuha (JPN) (200)	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
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	
Kamizono, Miyu (JPN) (2007)	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	3.19	3.31
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	7.99	7.70	
Taninaka, Tennka (JPN) (2006)	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				
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
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	

Kariya, Ayu (JPN) (2006)	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	3.20	3.39	
		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	7.97	7.52
Gotou, Wakana (JPN) (2006)	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	1.13	1.26			3.24	3.23	3.33	
		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
Bessho, Miyu (JPN) (2007)	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	
		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
Matsuda, Anna (JPN) (2006)	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	
		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
Okubo, Aoi (JPN) (2007)	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	
		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

2024 Resisprint International (La Chaux-de-Fonds, SUI) (TV Analysis)

A FINAL

	date	14-Jul-24	wind	1.6 m/s	Henson (2024) - Athlete First: 2024 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
Visser, Nadine (NED) (1995)	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	
	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	
Skrzyszowska, Pia (POL) (2001)	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	
	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	
Fourie, Marione (RSA) (2002)	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	
	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	

2024 FBK Games (Hengelo, NED)

FINAL (TV Analysis)

	date	07-Jul-24	wind	1.6 m/s	Henson (2024) - Athlete First: 2024 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
Camacho-Quinn, Jasmine (PU)	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	
		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
Visser, Nadine (NED) (1995)	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	
		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
Fourie, Marione (RSA) (2002)	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	
		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
Skrzyszowska, Pia (POL) (2001)	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	
		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
Ali, Nia (USA) (1988)	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	
		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
Jenneke, Michelle (AUS) (1993)	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	
		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
Clay, Liz (AUS) (1995)	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	
		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
Hughes, Amber (USA) (1994)	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	
		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 2

	date	07-Jul-24	wind	0.3 m/s	Omega Timing (2024) - continental tour gold race analysis													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fourie, Marione (RSA) (2002)	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	
		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

Skrzyszowska, Pia (POL) (2001)	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
	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
Ali, Nia (USA) (1988)	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
	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
Jenneke, Michelle (AUS) (1993)	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
	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
Tjin-a-Lim, Maayke (NED) (199)	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
	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
Christofi, Natalia (CYP) (1997)	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
	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
Vesana, Veronica (ITA) (2002)	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
	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
Groot, Mira (NED) (1995)	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
	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
Lin Yuwei (CHN) (1999)	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
	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

Heat 1

date 07-Jul-24

wind -0.8 m/s

Omega Timing (2024) - continental tour gold race analysis

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Camacho-Quinn, Jasmine (PU)	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
	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
Visser, Nadine (NED) (1995)	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
	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
Clay, Liz (AUS) (1995)	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
	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
Hughes, Amber (USA) (1994)	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
	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
Bapté, Laetitia (FRA) (1999)	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	1.30			3.06	3.10	3.14
	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
Graversgaard, Mette (DEN) (19)	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
	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
Škvarková, Stanislava (SVK) (19)	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
	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
Valette, Laura (FRA) (1997)	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
	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
Boons, Eefji (NED) (1994)	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
	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

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

FINAL

date 30-Jun-24

wind 0.7 m/s

Henson (2024) - Athlete First: 2024 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
Russell, Masai (USA) (2000)	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
	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

Johnson, Alaysha (USA) (1996)	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
	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
Stark, Grace (USA) (2001)	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
	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
Ali, Nia (USA) (1988)	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
	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
Marshall, Tonea (USA) (1998)	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
	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
Harrison, Kendra (USA) (1992)	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
	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
Clemons, Christina (USA) (1992)	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
	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
Bonds, Talie (USA) (1998)	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
	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
Armstrong, Alia (USA) (2000)	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
	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 3

date 29-Jun-24 wind 0.5 m/s

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Russell, Masai (USA) (2000)	no information available											12.36	6 / 1			
Stark, Grace (USA) (2001)	no information available											12.45	4 / 2			
Bonds, Talie (USA) (1998)	no information available											12.77	5 / 3			
Huven, Destiny (USA) (2001)	no information available											12.83	3 / 4			
Laurencin, Aasia (USA) (2002)	no information available											13.03	7 / 5			
Dyer, Danae (USA) (2000)	no information available											13.08	8 / 6			
Cunningham, Gabbi (USA) (1998)	no information available											13.58	9 / 7			
Block, Natalie (USA) (2002)	no information available											14.19	1 / 8			
Magee, Paige (USA) (2002)	no information available											15.57	2 / 9			

Semi-Final 2

date 29-Jun-24 wind 1.0 m/s

Henson (2024) - Athlete First: 2024 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	
Johnson, Alaysha (USA) (1996)	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
	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
Marshall, Tonea (USA) (1998)	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
	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
Jones, Rayniah (USA) (2001)	time	2.58	3.63	4.62	5.62	6.60	7.60	8.59	9.59	10.61	11.67		12.83	6 / 3			
	reaction time	interval	1.05	0.99	1.00	0.98	1.00	0.99	1.00	1.02	1.06	1.16			3.04	2.97	3.08
	velocity	5.04	8.10	8.59	8.50	8.67	8.50	8.59	8.50	8.33	8.02	8.66	7.79		8.39	8.59	8.28
Webster, Alexandra (USA) (2002)	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
	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
Smith, Jalaysiya (USA) (2003)	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
	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
McMillian, Sydni (USA) (2002)	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
	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
Fune, Hailey (USA) (1982)	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
	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
Jones, Lolo (USA) (1982)	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

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
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Semi-Final 1

date 29-Jun-24

wind 0.8 m/s

Henson (2024) - Athlete First: 2024 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
Clemons, Christina (USA) (1992)	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
	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
Harrison, Kendra (USA) (1992)	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
	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
Ali, Nia (USA) (1988)	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
	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
Armstrong, Alia (USA) (2000)	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
	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
Hughes, Amber (USA) (1994)	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
	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
Robinson, Kaylah (USA) (1995)	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
	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
Covington, Jaiya (USA) (2003)	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
	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
Phillips, Leah (USA) (2002)	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
	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
Johnson, Brandeé (USA) (1999)	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
	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 4

date 28-Jun-24

wind 0.2 m/s

Henson (2024) - Athlete First: 2024 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
Harrison, Kendra (USA) (1992)	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
	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
Stark, Grace (USA) (2001)	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
	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
Hughes, Amber (USA) (1994)	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
	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
Huven, Destiny (USA) (2001)	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	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
	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
Smith, Jalaysiya (USA) (2003)	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
	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
Jones, Lolo (USA) (1982)	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	
	velocity	4.64	7.73	7.46	7.52	7.66	7.39	7.46					6.73		7.57	7.50	

Heat 3

date 28-Jun-24

wind 0.1 m/s

Henson (2024) - Athlete First: 2024 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
Clemons, Christina (USA) (1992)	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
	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
Jones, Rayniah (USA) (2001)	time	2.57	3.58	4.58	5.57	6.54	7.54	8.53	9.52	10.56	11.60		12.77	7 / 2			
reaction time	interval		1.01	1.00	0.99	0.97	1.00	0.99	0.99	1.04	1.04	1.17			3.00	2.96	3.07
	velocity	5.06	8.42	8.50	8.59	8.76	8.50	8.59	8.59	8.17	8.17	8.59	7.83		8.50	8.61	8.31

Laurencin, Aasia (USA) (2002)	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	
		4.92	velocity	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	
Robinson, Kaylah (USA) (1998)	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	
		4.83	velocity	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	
Cunningham, Gabbi (USA) (1998)	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		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	
		5.06	velocity	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	
Johnson, Brandeé (USA) (1998)	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	
		4.89	velocity	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	
Ali, Nia (USA) (1988)				no information available										20.38	3 / 7			

Heat 2

		date	28-Jun-24	wind	0.2 m/s											Henson (2024) - Athlete First: 2024 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	
Russell, Masai (USA) (2000)	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	0.97	0.97	1.07	PB	2.96	2.86	2.89	
					5.06	velocity	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	
Johnson, Alaysha (USA) (1998)	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	
					5.16	velocity	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	
Armstrong, Alia (USA) (2000)	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	
					5.16	velocity	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	
Phillips, Leah (USA) (2002)	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	
					5.04	velocity	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	
McMillian, Sydni (USA) (2002)	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	
					4.91	velocity	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	
Magee, Paige (USA) (2002)	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	1.04	1.05	1.05	1.06	1.05	1.18		3.18	3.12	3.16		
					4.69	velocity	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	
Block, Natalie (USA) (2002)	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	1.10	1.10	1.10	1.16	1.32		3.23	3.22	3.36		
					4.80	velocity	7.73	8.02	7.94	8.02	7.73	7.73	7.73	7.33	7.61	7.23	7.89	7.92	7.59		

Heat 1

		date	28-Jun-24	wind	1.7 m/s											Henson (2024) - Athlete First: 2024 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	
Marshall, Tonea (USA) (1998)	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	
					5.31	velocity	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	
Bonds, Talie (USA) (1998)	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	
					5.08	velocity	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	
Webster, Alexandra (USA) (2002)	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	
					4.94	velocity	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	
Jones, Tia (USA) (2000)	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	
					5.00	velocity	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	
Dyer, Danae (USA) (2000)	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	
					5.00	velocity	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	
Covington, Jaiya (USA) (2003)	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					interval	1.05	1.03	1.03	1.04	1.03	1.04	1.03	1.03	1.05	1.16		3.11	3.11	3.11	
					4.91	velocity	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	
Fune, Hailey (USA) (2002)	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	
					4.94	velocity	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	

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

FINAL

		date	28-Jun-24	wind	0.1 m/s										<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Nugent, Ackera (JAM) (2002)	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
			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
Williams, Danielle (JAM) (1992)	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
			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
Brown, Janeek (JAM) (1998)	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
			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

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

FINAL

		date	08-Jun-24	wind	-0.5 m/s										<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Stark, Grace (USA) (2001)	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	0.99	0.99	1.11	PB		2.98	2.90	2.95
			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
Caicedo, Maribel (ECU) (1998)	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
			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
Jones, Rayniah (USA) (2001)	time				2.52	3.54	4.52	5.50	6.48	7.48	8.47	9.45	10.45	11.47		12.59	4 / 3			
	reaction time		interval			1.02	0.98	0.98	0.98	1.00	0.99	0.98	1.00	1.02	1.12	PB		2.98	2.97	3.00
			velocity		5.16	8.33	8.67	8.67	8.67	8.50	8.59	8.67	8.50	8.33	8.97	7.94		8.56	8.59	8.50
Jones, Jasmine (USA) (2001)	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
			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
Huven, Destiny (USA) (2001)	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		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
			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
Laurencin, Aasia (USA) (2002)	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
			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
de Mello, Micaela (BRA) (2000)	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		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
			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
Smith, Jalaysiya (USA) (2003)	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
			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
Webster, Alexandra (USA) (20)	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	
			velocity		4.87	8.17	8.25	8.42	8.50	8.42	8.67	8.67	8.59					8.28	8.53	

2024 European Athletics Championships (Roma, ITA) (TV Analysis)

FINAL

		date	08-Jun-24	wind	0.8 m/s										<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Samba-Mayela, Cyréna (FRA)	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
			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
Kambundji, Ditaji (SUI) (2002)	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
			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
Skrzyszowska, Pia (POL) (2001)	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
			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
Sember, Cindy (GBR) (1994)	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
			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
Visser, Nadine (NED) (1995)	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
			velocity																	

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

	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	
Hurske, Reetta (FIN) (1995)	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
	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
Lavin, Sarah (IRL) (1994)	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	1.01	1.01	1.17			3.18	3.00	3.02
	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
Forster, Viktória (SVK) (2002)	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
	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

2024 Shimane High School Championships (Izumo, JPN)

FINAL

date 26-May-24 wind -1.0 m/s Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
別所 みゆ	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
	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
西尾 心和	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
	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
石川 茜	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
	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
中原 紗奈	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
	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
加藤 琉菜	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
	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
市川 佳歩	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
	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
高橋 あおい	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
	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
中村 美琴	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
	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

2024 Prefontaine Classic (Eugene, OR)

FINAL

date 25-May-24 wind -0.9 m/s Omega Timing (2024) - diamond league race analysis

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Samba-Mayela, Cyréna (FRA)	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	0.99	0.99	1.02	1.22	=NR =PB		2.97	2.89	3.00
	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
Camacho-Quinn, Jasmine (PU)	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	0.98	0.98	1.00	1.22			3.02	2.87	2.96
	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
Marshall, Toneya (USA) (1998)	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
	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
Charlton, Devynne (BAH) (1995)	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
	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
Johnson, Alaysha (USA) (1996)	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
	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
Williams, Danielle (JAM) (1992)	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
	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

Sember, Cindy (GBR) (1994)	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
	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
Ali, Nia (USA) (1988)	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
	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
Russell, Masai (USA) (2000)	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
	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

2024 Seashore Doha Meeting (Doha, QAT) (TV Analysis)**FINAL**

date 10-May-24 wind 1.7 m/s Henson (2024) - Athlete First: 2024 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
Kambundji, Ditaji (SUI) (2002)	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
	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
Marshall, Tonea (USA) (1998)	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
	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
Skrzyszowska, Pia (POL) (2001)	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
	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
Hughes, Amber (USA) (1994)	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
	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
Lavin, Sarah (IRL) (1994)	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
	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
Johnson, Alaysha (USA) (1994)	time	2.64	3.90	5.07	6.17	7.24	8.27	9.27	10.27		12.34		13.55	4 / 6	<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		2.07	1.21	DQ	3.53	3.10	3.07
	velocity	4.92	6.75	7.26	7.73	7.94	8.25	8.50	8.50		8.21	8.31	7.38		7.22	8.23	8.31
Bomme, Emma Beiter (DEN) (2001)	time	2.67	3.77	4.84	5.90	6.97	8.00	9.07	10.14	11.24	12.31		14.03	1 / 7 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
	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

2024 Oxy Invitational (Eagle Rock, CA) (TV Analysis)**FINAL**

date 04-May-24 wind -0.4 m/s Henson (2024) Athlete First: 2024 Sydney McLaughlin-Levrone 400m Hurdles World Record Season

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
McLaughlin-Levrone, Sydney	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	1.00	1.18		3.01	2.95	3.02	
	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	
Jones, Jasmine (USA) (2001)	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
	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	

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

date 27-Apr-24 wind 0.3 m/s Henson (2024) - Athlete First: 2024 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	
Amusan, Tobi (NGR) (1997)	time	2.55	3.57	4.57	5.54	6.51	7.46	8.46	9.44	10.47	11.51		12.61	6 / 4	<i>no official time given</i>			
	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	3.05
	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	
Camacho-Quinn, Jasmine (PU)	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	
	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	
Charlton, Devynne (BAH) (1992)	time	2.50	3.50	4.48	5.45	6.42	7.39	8.38	9.39	10.41	11.44		12.64	4 / 3 2				
	reaction time	0.136	interval	1.00	0.98	0.97	0.97	0.99	1.01	1.02	1.03	1.20		2.95	2.93	3.06		
	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	
Williams, Danielle (JAM) (1992)	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	
	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	
Russell, Masai (USA) (2000)	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	
	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	

Johnson, Alaysha (USA) (1996)	time	2.62	3.67	4.67	5.64	6.61	7.61	8.58	9.55	10.56	11.61		12.78	1 / 6 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
	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
Kambundji, Ditaji (SUI) (2002)	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
	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
Tapper, Megan (JAM) (1994)	time	2.57	3.61	4.61	5.57	6.54	7.54	8.56	9.58	10.61	11.64		12.83	8 / 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
	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
Wu Yanni (CHN) (1997)	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 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
	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

2024 Xiamen Diamond League (Xiamen, CHN)

FINAL

date 20-Apr-24 wind -0.2 m/s

Omega Timing (2024) - diamond league race analysis

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Camacho-Quinn, Jasmine (PU)	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	1.22			2.99	2.86	2.92
	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
Charlton, Devynne (BAH) (1996)	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	1.26			2.97	2.88	2.99
	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
Samba-Mayela, Cyréna (FRA)	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	0.96	0.97	0.98	0.97	1.00	1.27	NR PB		2.99	2.90	2.95
	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
Williams, Danielle (JAM) (1992)	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	1.25			2.99	2.87	3.03
	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
Amusan, Tobi (NGR) (1997)	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	0.96	0.95	0.98	1.00	1.01	1.23			3.00	2.88	2.99
	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
Russell, Masai (USA) (2000)	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	1.23			3.06	2.95	2.99
	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
Kambundji, Ditaji (SUI) (2002)	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	1.26			3.03	2.94	2.99
	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
Tapper, Megan (JAM) (1994)	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	1.30			3.05	2.99	3.09
	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
Johnson, Alaysha (USA) (1996)	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	1.31			3.08	2.95	3.18
	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
Wu Yanni (CHN) (1997)	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	1.30			3.09	3.01	3.10
	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

2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)

FINAL

date 03-Mar-24

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Charlton, Devynne (BAH) (1996)	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						1.30	WR		2.92		
	velocity	5.20	8.67	8.50	9.04	9.14						10.00	7.84		8.73		
Samba-Mayela, Cyréna (FRA)	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						1.29			2.98		
	velocity	5.16	8.50	8.50	8.67	8.95						10.08	7.75		8.56		
Skrzyszowska, Pia (POL) (2001)	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						1.27			2.98		
	velocity	5.08	8.50	8.67	8.50	8.67						10.24	7.70		8.56		
Russell, Masai (USA) (2001)	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
Lavin, Sarah (IRL) (1994)	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
Taylor, Charisma (BAH) (1999)	time		2.60	3.60	4.58	5.62	6.58						7.92	2 / 6	
reaction time	0.139	interval	1.00	0.98	1.04	0.96						1.34			3.02
velocity		7 Steps	5.00	8.50	8.67	8.17	8.85					9.70	7.58		8.44
Sember, Cindy (GBR) (1994)	time		2.60	3.65	4.65	5.62	6.60						7.92	8 / 7	
reaction time	0.164	interval	1.05	1.00	0.97	0.98						1.32			3.02
velocity			5.00	8.10	8.50	8.76	8.67					9.85	7.58		8.44
Kozak, Luca (HUN) (1996)	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

Heat 3

date 03-Mar-24

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

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Charlton, Devynne (BAH) (1994)	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		
Benach, Xénia (ESP) (2000)	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		
Graversgaard, Mette (DEN) (1994)	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		
Forster, Viktória (SVK) (2002)	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		

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

FINAL

date 23-Feb-24

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

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Charlton, Devynne (BAH) (1994)	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		
Visser, Nadine (NED) (1995)	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		
Skrzyszowska, Pia (POL) (2001)	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		
Lavin, Sarah (IRL) (1994)	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		
Hurske, Reetta (FIN) (1995)	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		
Kozak, Luca (HUN) (1996)	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		
Graversgaard, Mette (DEN) (1994)	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		
Jones, Cortney (USA) (1999)	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		

2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)

FINAL

date 16-Feb-24

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

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jones, Tia (USA) (2000)	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
Jones, Jasmine (USA) (2001)	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
Russell, Masai (USA) (2000)	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
Clemons, Christina (USA) (1994)	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
Hughes, Amber (USA) (1994)	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
Bonds, Talie (USA) (1998)	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
Jones, Cortney (USA) (1999)	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
Johnson, Alaysha (USA) (1994)	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

Heat 2

date 16-Feb-24

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jones, Tia (USA) (2000)	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		
Jones, Jasmine (USA) (2001)	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		
Clemons, Christina (USA) (1994)	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		
Hughes, Amber (USA) (1994)	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		
Jones, Cortney (USA) (1999)	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		

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

FINAL

date 11-Feb-24

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Charlton, Devynne (BAH) (1994)	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	WR		2.92		
		velocity	5.24	8.50	8.67	9.04	9.04					9.77	7.82		8.73		
Williams, Danielle (JAM) (1992)	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		
		velocity	5.16	8.33	8.67	8.67	8.85					9.77	7.70		8.56		
Jones, Tia (USA) (2000)	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		
Nugent, Ackera (JAM) (2002)	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		
Sember, Cindy (GBR) (1994)	time	2.58	3.60	4.60	5.58	6.56							7.91	1 / 5			
reaction time	0.170	interval		1.02	1.00	0.98	0.98					1.35			3.00		
		velocity	5.04	8.33	8.50	8.67	8.67					9.63	7.59		8.50		

Ali, Nia (USA) (1988)	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	
Tapper, Megan (JAM) (1994)	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	
Nelvis, Sharika (USA) (1990)	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	
Samuel, Aleesa (USA) (2007)	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	
	velocity	5.04	8.02	8.02	8.17	7.87							9.03	7.26		8.07	

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

date 04-Feb-24

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jones, Tia (USA) (2000)	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	
Amusan, Tobi (NGR) (1997)	time	2.48	3.50	4.48	5.46	6.43								7.75	4 / 2		
	reaction time	0.147	interval		1.02	0.98	0.98	0.97					1.32	NR		2.98	
	velocity	5.24	8.33	8.67	8.67	8.76							9.85	7.74		8.56	
Charlton, Devynne (BAH) (1995)	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	
Russell, Masai (USA) (2001)	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	
Clemons, Christina (USA) (1995)	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	
Sember, Cindy (GBR) (1994)	time	2.55	3.62	4.62	5.62	6.62								8.00	2 / 5		
	reaction time	0.490	interval		1.07	1.00	1.00	1.00					1.38			3.07	
	velocity	5.10	7.94	8.50	8.50	8.50							9.42	7.50		8.31	
Tapper, Megan (JAM) (1994)	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	
Abdul-Rashid, Mariam (CAN)	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	

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

date 20-Jan-24

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Charlton, Devynne (BAH) (1995)	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	NR PB		3.02	
	velocity	5.51	8.17	8.67	8.50	8.50							9.49	7.74		8.44	
Jones, Tia (USA) (2000)	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	
Russell, Masai (USA) (2001)	time	2.46	3.48	4.52	5.52	6.54								7.88	3 / 3		
	reaction time		interval		1.02	1.04	1.00	1.02					1.34			3.06	
	velocity	5.28	8.33	8.17	8.50	8.33							9.70	7.61		8.33	
Clemons, Christina (USA) (1995)	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	

2023 Prefontaine Classic (Eugene, OR)**FINAL**

date 17-Sep-23

wind 1.8 m/s

Omega Timing (2023) - diamond league race analysis

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Amusan, Tobi (NGR) (1997)	time	2.42	3.44	4.41	5.37	6.30	7.24	8.18	9.14	10.10	11.09			12.33	4 / 1			
	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		2.95	2.81	2.91
	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

Camacho-Quinn, Jasmine (PU)	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
	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
Harrison, Kendra (USA) (1992)	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
	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
Williams, Danielle (JAM) (1992)	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
	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
Tapper, Megan (JAM) (1994)	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
	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
Johnson, Alaysha (USA) (1999)	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
	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
Ali, Nia (USA) (1988)	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	0.99	1.00	1.01	1.26				3.01	2.91	3.00
	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
Skrzyszowska, Pia (POL) (2001)	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
	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
Jones, Tia (USA) (2000)	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
	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

2023 Xiamen Diamond League (Xiamen, CHN)

National FINAL

date 02-Sep-23 wind 0.1 m/s

Henson (2023) - Athlete First: 2023 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
Lin Yuwei (CHN) (1999)	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	0.99	1.02	1.02	1.05	1.07	1.18			3.07	3.01	3.14
	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
Xia Sining (CHN) (2003)	time	2.70	3.77	4.82	5.84	6.87	7.90	8.92	9.94	11.00	12.04		13.19	6 / 2			
	reaction time	0.158	interval	1.07	1.05	1.02	1.03	1.03	1.02	1.06	1.04	1.15			3.14	3.08	3.12
	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
Luo Xianyan (CHN) (1997)	time	2.65	3.73	4.77	5.82	6.87	7.91	8.97	10.04	11.12	12.22		13.45	7 / 3			
	reaction time	0.158	interval	1.08	1.04	1.05	1.05	1.04	1.06	1.07	1.08	1.23			3.17	3.15	3.25
	velocity	4.91	7.87	8.17	8.10	8.10	8.17	8.02	7.94	7.87	7.73	8.17	7.43		8.04	8.10	7.85
Zheng Ninali (CHN) (1998)	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
	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
Jiang Liyunzhe (CHN) (2002)	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	1.19			3.22	3.20	3.23
	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
Gao Yirong (CHN) (2004)	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	1.17	1.26		3.20	3.20	3.37
	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
Chen Yanqi (CHN) (2006)	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	1.10	1.10	1.13	1.11	1.26	PB		3.23	3.24	3.34
	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
Wu Binbin (CHN) (2006)	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
	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

2023 Weltklasse (Zürich, SUI)

FINAL

date 31-Aug-23 wind -0.2 m/s

Omega Timing (2023) - diamond league race analysis

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Williams, Danielle (JAM) (1992)	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	0.98	1.00	1.01	1.02	1.24			2.98	2.92	3.03
	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
Johnson, Alaysha (USA) (1999)	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	
		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
Harrison, Kendra (USA) (1992)	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			
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	
		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
Jones, Tia (USA) (2000)	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	
		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
Tapper, Megan (JAM) (1994)	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	
		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
Kambundji, Ditaji (SUI) (2002)	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	
		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
Ali, Nia (USA) (1988)	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	
		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
Charlton, Devynne (BAH) (1991)	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	
		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
Skrzyszowska, Pia (POL) (2001)	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	
		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

2023 World Athletics Championships (Budapest, HUN)

FINAL

	date	24-Aug-23	wind	-0.2 m/s										<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>				
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7
Williams, Danielle (JAM) (1992)	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	0.132	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		
		velocity	5.14	8.67	8.76	8.76	8.85	8.85	8.85	8.59	8.42	9.05	8.05	8.73	8.85	8.53		
Camacho-Quinn, Jasmine (PU)	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		
		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	
Harrison, Kendra (USA) (1992)	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		
		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	
Charlton, Devynne (BAH) (1991)	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		
		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	
Nugent, Ackera (JAM) (2002)	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		
		velocity	5.06	8.50	8.59	8.76	8.85	8.76	8.59	8.17	8.25	8.97	7.93	8.61	8.79	8.33		
Amusan, Tobi (NGR) (1997)	time	2.56	3.58	4.55	5.53	6.50	7.48	8.45	9.48	10.49	11.53		12.62	5 / 6				
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		2.97	2.92	3.08		
		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	
Kambundji, Ditaji (SUI) (2002)	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		
		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	
Ali, Nia (USA) (1988)	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		
		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 (TV A)

	date	23-Aug-23	wind	-0.4 m/s										<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7
Camacho-Quinn, Jasmine (PU)	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		
		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	
Ali, Nia (USA) (1988)	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	1.00	1.14		2.96	2.90	2.96		
		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	

Williams, Danielle (JAM) (1992)	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
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
Skrzyszowska, Pia (POL) (2001)	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
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
Jenneke, Michelle (AUS) (1993)	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
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
Fourie, Marione (RSA) (2002)	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
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
Graversgaard, Mette (DEN) (1995)	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
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
Harrison, Michelle (CAN) (1999)	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
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

Semi-Final 2 (TV A)

date 23-Aug-23 wind -0.7 m/s

Henson (2023) - Athlete First: 2023 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
Amusan, Tobi (NGR) (1997)	time	2.53	3.57	4.52	5.48	6.44	7.42	8.40	9.38	10.40	11.42		12.56	7 / 1			
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			2.95	2.92	3.02
velocity	5.14	8.17	8.95	8.85	8.85	8.67	8.67	8.67	8.67	8.33	8.33	8.82	7.96		8.64	8.73	8.44
Nugent, Ackera (JAM) (2002)	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
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
Visser, Nadine (NED) (1995)	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
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
Kozák, Luca (HUN) (1996)	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
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
Samba-Mayela, Cyréna (FRA) (2002)	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
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
Mucci, Celeste (AUS) (1999)	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	0.175	interval	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
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
Hurske, Reetta (FIN) (1995)	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
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
Russell, Masai (USA) (2000)	time	2.46	3.48	4.57	5.84	7.05							dnf	4 / --			
reaction time	0.152	interval	1.02	1.09	1.27	1.21									3.38		
velocity	5.28	8.33	7.80	6.69	7.02										7.54		

Semi-Final 1 (TV A)

date 23-Aug-23 wind 0.5 m/s

Henson (2023) - Athlete First: 2023 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
Harrison, Kendra (USA) (1992)	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	0.93	0.93	0.96	0.97	0.97	1.00	1.18			2.89	2.82	2.94
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
Charlton, Devynne (BAH) (1995)	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			
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
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
Kambundji, Ditaji (SUI) (2002)	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
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
Tapper, Megan (JAM) (1994)	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
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
Lavin, Sarah (IRL) (1994)	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	
		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
Sember, Cindy (GBR) (1994)	time		2.60	3.62	4.62	5.60	6.64	7.62	8.62	9.64	10.69	11.75		12.97	8 / 6		
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			3.00	3.02	3.13
		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	8.50	8.44	8.15
Tjin-A-Lim, Maayke (NED) (1991)	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
		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
Christofi, Natalia (CYP) (1997)	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	1.06	1.33			3.04	3.04	3.14
		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

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

Heat 5 (TV Analysis)

date 22-Aug-23 wind 0.4 m/s Henson (2023) - Athlete First: 2023 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
Amusan, Tobi (NGR) (1997)	time		2.54	3.55	4.54	5.52	6.47	7.41	8.38	9.34	10.34	11.35		12.48	4 / 1			
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				2.98	2.86	2.97
		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
Tapper, Megan (JAM) (1994)	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
		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
Jenneke, Michelle (AUS) (1993)	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
		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
Christofi, Natalia (CYP) (1997)	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
		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
Tjin-A-Lim, Maayke (NED) (1991)	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
		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
Tanaka, Yumi (JPN) (1998)	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			Kishima (2024)
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
		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

Heat 4 (TV Analysis)

date 22-Aug-23 wind 0.0 m/s Henson (2023) - Athlete First: 2023 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
Camacho-Quinn, Jasmine (PU)	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
		velocity	5.16	8.17	8.67	8.76	8.85	8.76	8.85	8.95	8.50	8.74	8.00			8.53	8.82	8.64
Visser, Nadine (NED) (1995)	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
		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
Kambundji, Ditaji (SUI) (2002)	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
		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
Mucci, Celeste (AUS) (1999)	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	0.171	interval	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
		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

Heat 3 (TV Analysis)

date 22-Aug-23 wind 0.1 m/s Henson (2023) - Athlete First: 2023 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
Harrison, Kendra (USA) (1992)	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	0.94	0.97	0.99	1.13				2.89	2.82	2.90
		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
Charlton, Devynne (BAH) (1991)	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
		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
Williams, Danielle (JAM) (1992)	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
		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
Sember, Cindy (GBR) (1994)	time		2.60	3.64	4.64	5.62	6.60	7.59	8.58	9.58	10.60	11.63		12.83	8 / 4			
reaction time	0.173	interval	1.04	1.00	0.98	0.98	0.99	0.99	1.00	1.02	1.03	1.20				3.02	2.96	3.05
		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		8.44	8.61	8.36

Hurske, Reetta (FIN) (1995)	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
		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

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

Heat 2 (TV Analysis)

date 22-Aug-23 wind 0.0 m/s

Henson (2023) - Athlete First: 2023 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
Ali, Nia (USA) (1988)	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	1.00	0.99	0.98	1.12		2.99	2.93	2.97
		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

Skrzyszowska, Pia (POL) (2001)	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
		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

Fourie, Marione (RSA) (2002)	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
		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

Kozák, Luca (HUN) (1996)	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
		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

Terada, Asuka (JPN) (1990)	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	1.09	1.16			3.11	3.07	3.19
		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

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

Heat 1 (TV Analysis)

date 22-Aug-23 wind 0.1 m/s

Henson (2023) - Athlete First: 2023 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
Nugent, Ackera (JAM) (2002)	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
		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

Russell, Masai (USA) (2000)	time	2.50	3.53	4.55	5.52	6.47	7.43	8.40	9.42	10.42	11.43		12.60	6 / 2			
reaction time	0.164	interval		1.03	1.02	0.97	0.95	0.96	0.97	1.02	1.00	1.01	1.17		3.02	2.88	3.03
		velocity	5.20	8.25	8.33	8.76	8.95	8.85	8.76	8.33	8.50	8.42	8.59	7.94	8.44	8.85	8.42

Lavin, Sarah (IRL) (1994)	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
		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

Samba-Mayela, Cyréna (FRA) (1994)	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
		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

Graversgaard, Mette (DEN) (1994)	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
		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

Harrison, Michelle (CAN) (1999)	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
		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

Aoki, Masumi (JPN) (1994)	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	0.136	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
		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

2023 Japanese National High School Championships (Sapporo, JPN)

FINAL

date 06-Aug-23 wind 0.8 m/s

Takashima (2023) - national high school sports festival - biomechanics data

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hayashi, Miki (JPN) (2005)	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
		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

片山 心菜	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
		velocity	4.83	7.59	8.02	8.10	7.94	7.94	7.94	7.73	7.80	7.52	8.24	7.32	7.89	7.94	7.68

Tenka, Yanaka (JPN)	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
		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

Kinashi, Mitsuna (JPN)	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
		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

Ayame, Hinano (JPN)	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	
		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
Nomura, Mitsuki (JPN)	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	
		velocity	4.73	7.59	7.66	7.73	7.80	7.80	7.73	7.52	7.33	8.31	7.16		7.66	7.77	7.52	
Okubo, Heki (JPN)	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	
		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
Oikawa, Riko (JPN) (2005)	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	
		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

2023 Herculis Meeting International d'Athlétisme (Monaco, MON)

FINAL

		date	21-Jul-23	wind	0.6 m/s											Omega Timing (2023) - diamond league race analysis				
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ali, Nia (USA) (1988)	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
		velocity	5.42	8.33	8.76	8.85	8.95	8.95	8.95	8.95	8.95	8.95	8.67	8.67	8.45	8.13		8.64	8.95	8.76
Harrison, Kendra (USA) 1992	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	0.94	0.95	0.97	0.99	1.22				2.94	2.82	2.91
		velocity	5.37	8.33	8.67	9.04	9.04	9.04	9.04	9.04	8.95	8.76	8.59	8.24		8.12		8.67	9.04	8.76
Johnson, Alaysha (USA) (1999)	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	0.95	0.96	0.98	1.17				3.01	2.86	2.89
		velocity	5.28	8.17	8.42	8.85	8.85	8.95	8.95	8.95	8.95	8.85	8.67	8.59		8.07		8.47	8.92	8.82
Jones, Tia (USA) (2000)	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	0.96	0.97	1.00	1.22				2.95	2.86	2.93
		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
Skrzyszowska, Pia (POL) (2001)	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	0.96	0.99	1.04	1.08	1.27				2.99	2.88	3.11
		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
Bapté, Laeticia (FRA) (1999)	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
		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
Lavin, Sarah (IRL) (1994)	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
		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
Carraro, Elena (ITA) (2001)	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
		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

2023 Kamila Skolimowska Memorial (Silesia, POL)

FINAL

		date	16-Jul-23	wind	0.9 m/s											Omega Timing (2023) - diamond league race analysis				
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time		2.43		3.46	4.44	5.39	6.33	7.27	8.22	9.19	10.15	11.14			12.34	5 / 1			
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					2.96	2.83	2.92
		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
Harrison, Kendra (USA) 1992	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
		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
Ali, Nia (USA) (1988)	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	0.98	0.99	0.98	0.99	1.20					2.93	2.89	2.96
		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
Tapper, Megan (JAM) (1994)	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
		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
Williams, Danielle (JAM) (1992)	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	0.96	1.00	1.02	1.03	1.25				2.97	2.87	3.05
		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
Jones, Tia (USA) (2000)	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

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
Johnson, Alaysha (USA) (1996) 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	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
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
Skrzyszowska, Pia (POL) (2001) 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	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
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
Fourie, Marione (RSA) (2002) 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	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
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

2023 USATF National Championships (Eugene, OR) (TV Analysis)**FINAL**

date 08-Jul-23 wind 0.4 m/s

Henson (2023) - Athlete First: 2023 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
Ali, Nia (USA) (1988) 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	1.11				2.96	2.84	2.95
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	
Harrison, Kendra (USA) (1992) 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
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	
Russell, Masai (USA) (2000) time	2.53	3.55	4.55	5.54	6.51	7.47	8.44	9.41	10.38	11.38		12.46	2 / 3				
reaction time	interval	1.02	1.00	0.99	0.97	0.96	0.97	0.97	0.97	1.00	1.08				3.01	2.90	2.94
velocity	5.14	8.33	8.50	8.59	8.76	8.85	8.76	8.76	8.76	8.50	9.31	8.03		8.47	8.79	8.67	
Johnson, Alaysha (USA) (1996) 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
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	
Jones, Tia (USA) (2000) 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
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	
Marshall, Tonea (USA) (1998) 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
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	
Armstrong, Alia (USA) (2000) 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
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	
Stark, Grace (USA) (2001) 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	1.01	1.03	1.14				3.00	2.96	3.03
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	

2023 Bauhaus Galan (Stockholm, SWE)**FINAL**

date 02-Jul-23 wind 0.9 m/s

Omega Timing (2023) - diamond league race analysis

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997) time	2.44	3.48	4.46	5.42	6.38	7.34	8.32	9.30	10.29	11.28		12.52	4 / 1				
reaction time	0.145	1.04	0.98	0.96	0.96	0.96	0.98	0.98	0.99	0.99	1.24				2.98	2.90	2.96
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	
Lavin, Sarah (IRL) (1994) 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	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
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	
Skrzyszowska, Pia (POL) (2001) 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	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
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	
Charlton, Devynne (BAH) (1995) 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	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
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	
Visser, Nadine (NED) (1995) 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	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
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	
Hurske, Reetta (FIN) (1995) time	0.122	no information available											12.98	2 / 6			
Jenneke, Michelle (AUS) (1993) 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	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

	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	
Bapté, Laetia (FRA) (1999)	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	1.34		3.10	3.02	3.14
	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

National FINAL

		date	02-Jul-23		wind 0.6 m/s										Omega Timing (2023) - diamond league race analysis				
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Lavin, Sarah (IRL) (1994)	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	
	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	
Bieldt, Taylon (RSA) (1998)	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	
	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	
Morrison, Ebony (LBR) (1994)	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	
	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	
Lindeblad, Elin (SWE) (1995)	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	
	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	
Carlsson, Johanna (SWE) (1995)	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	
	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	
Lindeén, Jonna (SWE) (1996)	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	
	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	
von Gerber, Alva (SWE) (2000)	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	
	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	
Södergren, Maria (SWE) (1998)	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	
	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	

2023 Athletissima (Lausanne, SU)**FINAL**

		date	30-Jun-23		wind -1.4 m/s										Omega Timing (2023) - diamond league race analysis				
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Camacho-Quinn, Jasmine (PU)	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	
	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	
Amusan, Tobi (NGR) (1997)	time		2.43	3.46	4.44	5.39	6.34	7.29	8.25	9.23	10.22	11.24		12.47	4 / 2				
	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			2.96	2.86	2.99	
	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	
Jones, Tia (USA) (2000)	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	
	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	
Skrzyszowska, Pia (POL) (2001)	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	
	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	
Kambundji, Ditaji (SUI) (2002)	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	0.99	1.01	1.02	1.03	1.33			3.04	2.97	3.06	
	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	
Ali, Nia (USA) (1988)	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	1.03	1.26			3.09	2.98	3.05	
	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	
Visser, Nadine (NED) (1995)	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	
	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	
Johnson, Alaysha (USA) (1996)	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	
	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	

2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)

FINAL

date 24-Jun-23 wind 2.8 m/s

Henson (2023) - Athlete First: 2023 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
Harrison, Kendra (USA) (1992)	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
	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
Johnson, Alaysha (USA) (1994)	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
	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
Williams, Danielle (JAM) (1992)	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
	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
Hughes, Amber (USA) (1994)	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
	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
Tapper, Megan (JAM) (1994)	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
	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
Cunningham, Gabbi (USA) (1994)	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	0.97	0.98	0.98	1.00	1.01	1.01	1.19		3.04	2.93	3.02
	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
Bonds, Talie (USA) (1998)	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	0.98	1.02	1.02	1.03	1.15		3.06	2.98	3.07	
	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
Vazquez, Paola (PUR) (1998)	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
	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
Sember, Cindy (GBR) (1994)	time	2.60	3.63	4.67	5.67	6.65	7.65	8.67	9.76	11.08		dnf	7 / --				
	reaction time	0.201	interval	1.03	1.04	1.00	0.98	1.00	1.02	1.09	1.32				3.07	3.00	
	velocity	5.00	8.25	8.17	8.50	8.67	8.50	8.33	7.80	6.44					8.31	8.50	

2023 NCAA Championships (Austin, TX) (TV Analysis)

FINAL

date 10-Jun-23 wind 3.8 m/s

Henson (2023) - Athlete First: 2023 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
Nugent, Ackera (JAM) (2002)	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
	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
Russell, Masai (USA) (2000)	time	2.44	3.44	4.47	5.45	6.40	7.35	8.30	9.26	10.22	11.20		12.32	4 / 2			
	reaction time		interval	1.00	1.03	0.98	0.95	0.95	0.95	0.96	0.96	0.98	1.12		3.01	2.85	2.90
	velocity	5.33	8.50	8.25	8.67	8.95	8.95	8.95	8.85	8.85	8.67	8.97	8.12		8.47	8.95	8.79
Armstrong, Alia (USA) (2000)	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
	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
Bonds, Talie (USA) (1998)	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
	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
Stark, Grace (USA) (2001)	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	1.02	1.02	1.19		3.00	3.00	3.03
	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
Glasco, Alexis (USA) (2002)	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	1.04	1.02	1.21		2.99	2.98	3.06
	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
Laurencin, Aasia (USA) (2002)	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
	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
Salmon, Paula (USA) (1999)	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
	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
Jones, Rayniah (USA) (2001)	time	2.47	3.49	4.49	5.49	6.47	7.46	8.49	9.53	10.63	11.71		13.00	8 / 9			
	reaction time		interval	1.02	1.00	1.00	0.98	0.99	1.03	1.04	1.10	1.08	1.29		3.02	3.00	3.22
	velocity	5.26	8.33	8.50	8.50	8.67	8.59	8.25	8.17	7.73	7.87	7.79	7.69		8.44	8.50	7.92

2023 Japanese Multi-Event National Championships (Akita, JPN)

Heptathlon - Heat 2

date	10-Jun-23	wind	-0.3 m/s	Matsubayashi (2024) - performance analysis of heptathlon athletes in the 2023 season													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Odama, Karin (JPN) (1999)	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	1.10	1.13	1.15	1.25			3.26	3.23	3.38
	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
Yamasaki, Yuki (JPN) (1995)	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	3.37
	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	7.57

2023 FBK Games (Hengelo, NED)

FINAL

date	04-Jun-23	wind	0.2 m/s	Omega Timing (2023) - continental tour race analysis													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ali, Nia (USA) (1988)	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	1.24			3.05	2.94	2.98
	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
Visser, Nadine (NED) (1995)	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
	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
Kambundji, Ditaji (SUI) (2002)	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
	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
Fourie, Marione (RSA) (2002)	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
	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
Lavin, Sarah (IRL) (1994)	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
	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
Charlton, Devynne (BAH) (1995)	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
	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
Tjin-A-Lim, Maayke (NED) (1995)	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
	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
Nelvis, Sharika (USA) (1990)	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
	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
Graversgaard, Mette (DEN) (1981)	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
	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

2023 Japanese National Championships (Osaka, JPN)

FINAL

date	03-Jun-23	wind	-1.2 m/s	Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Terada, Asuka (JPN) (1990)	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
	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
Aoki, Masumi (JPN) (1994)	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	0.161 interval		1.05	1.02	1.01	1.01	1.01	1.01	1.02	1.05	1.06	1.11			3.08	3.03	3.13
	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
Tanaka, Yumi (JPN) (1998)	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
	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
Fukube, Mako (JPN) (1995)	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
	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
Kiyoyama, Chisato (JPN) (1999)	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
	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
Shimura, Hitomi (JPN) (1990)	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

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

	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
Suzuki, Miho (JPN) (1996)	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
	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
Nakajima, Hitomi (JPN) (1995)	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
	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

2023 Japanese U20 National Championships (Osaka, JPN)

FINAL

	date	03-Jun-23	wind	-1.4 m/s	<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Katayama, Kokona (JPN) (2000)	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
	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	
Naito, Kano (JPN) (2004)	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	1.12	1.22			3.28	3.27	3.36
	velocity	4.74	7.73	7.66	7.94	7.87	7.73	7.80	7.59	7.59	7.59	8.24	7.21		7.77	7.80	7.59	
Takahashi, Ami (JPN) (2005)	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
	velocity	4.78	7.80	7.73	7.80	7.94	7.87	7.66	7.80	7.59	7.59	7.79	7.20		7.77	7.82	7.66	
Kodera, Saki (JPN) (2005)	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
	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	
Kinsahi, Hina (JPN) (2006)	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
	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	
Oikawa, Riko (JPN) (2005)	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
	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	
Yamada, Hiromi (JPN) (2004)	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	1.16	1.14	1.13	1.23			3.38	3.36	3.43	
	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	7.43	

2023 Shimane High School Championships (Izumo, JPN)

FINAL

	date	28-May-23	wind	-0.2 m/s	<i>Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis</i>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
別所 みゆ	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				
	reaction time		interval	1.15	1.11	1.14	1.11	1.15	1.15	1.15	1.19	1.18	1.33			3.40	3.41	3.52
	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	
松原 しほり	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
	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	
市川 佳歩	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
	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	
金子 映	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	4.20	4.19
	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	6.07	6.09	
中原 紗奈	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
	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	
松浦 ひか莉	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
	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	
高橋 みひろ	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
	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	
岡 優香	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
	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	

2023 USATF Los Angeles Grand Prix (Westwood, CA) (TV Analysis)**FINAL**

date 27-May-23 wind -0.2 m/s

Henson (2023) - Athlete First: 2023 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
Camacho-Quinn, Jasmine (PU)	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	0.96	0.96	0.95	0.97	1.15			2.94	2.84	2.88
	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
Harrison, Kendra (USA) (1992)	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	1.00	1.09			2.91	2.86	2.92
	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
Jones, Tia (USA) (2000)	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
	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
Johnson, Alaysha (USA) (1996)	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
	velocity	5.06	8.25	8.50	8.67	8.85	8.85	8.67	8.67	8.67	8.67	9.14	7.99		8.47	8.79	8.67
Marshall, Tonea (USA) (1998)	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	1.01	1.01	1.13			3.00	2.94	3.00
	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
Williams, Danielle (JAM) (1992)	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	1.17			2.95	2.92	3.02
	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
Ali, Nia (USA) (1988)	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	1.13			3.00	2.94	3.00
	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
Amusan, Tobi (NGR) (1997)	time	2.56	3.58	4.58	5.54	6.52	7.49	8.47	9.50	10.52	11.56		12.69	4 / 8			
	reaction time	0.184	interval	1.02	1.00	0.96	0.98	0.97	0.98	1.03	1.02	1.13			2.98	2.93	3.09
	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

2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)**FINAL**

date 21-May-23 wind 3.5 m/s

Henson (2023) - Athlete First: 2023 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
Camacho-Quinn, Jasmine (PU)	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	0.97	0.96	1.11			2.90	2.79	2.87
	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
Williams, Danielle (JAM) (1992)	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	1.01	1.12			2.93	2.83	2.97
	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
Marshall, Tonea (USA) (1998)	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	1.00	1.13			2.96	2.86	2.94
	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
Tapper, Megan (JAM) (1994)	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
	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

2023 Seiko Golden Grand Prix (Yokohama, JPN)**FINAL**

date 21-May-23 wind 0.4 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Terada, Asuka (JPN) (1990)	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		3.01	3.04	3.10
	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
Tanaka, Yumi (JPN) (1998)	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		3.05	2.98	3.14
	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
Fukube, Mako (JPN) (1995)	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
	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
Mucci, Celeste (AUS) (1999)	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	0.161	interval	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
	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
Aoki, Masumi (JPN) (1994)	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	0.114	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
	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

Kiyoyama, Chisato (JPN) (199)	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
	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
Jones, Hannah (AUS) (1995)	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
	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
Barber, Jade (USA) (1993)	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
	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
Shibata, Manaka (JPN) (2001)	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
	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

2023 Michitaka Kinami Memorial (Osaka, JPN)**FINAL**

date 07-May-23

wind 0.7 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Terada, Asuka (JPN) (1990)	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
	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
Tanaka, Yumi (JPN) (1998)	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
	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
Kiyoyama, Chisato (JPN) (199)	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
	velocity	4.91	8.02	8.33	8.50	8.50	8.50	8.33	8.25	8.10	8.02	8.66	7.66		8.28	8.44	8.12
Shibata, Manaka (JPN) (2001)	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
	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
Shimura, Hitomi (JPN) (1990)	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
	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
Nakajima, Hitomi (JPN) (1995)	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
	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
Suzuki, Miho (JPN) (1996)	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
	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
Omatsu, Yuki (JPN) (1996)	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
	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

Heptathlon - Heat 2

date 06-May-23

wind -0.3 m/s

Matsubayashi (2024) - performance analysis of heptathlon athletes in the 2023 season

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yamasaki, Yuki (JPN) (1995)	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	1.15	1.26		3.24	3.24	3.36
	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	7.59
Odama, Karin (JPN) (1999)	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
	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

2023 Doha Diamond League (Doha, QAT) (TV Analysis)**FINAL**

date 05-May-23

wind 1.1 m/s

Henson (2023) - Athlete First: 2023 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
Camacho-Quinn, Jasmine (PU)	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
	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
Johnson, Alaysha (USA) (199)	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	0.98	1.02	1.00	1.16		3.00	2.90	3.00	
	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
Ali, Nia (USA) (1988)	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	1.00	1.02	1.21		3.00	2.92	3.00	
	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

Tapper, Megan (JAM) (1994)	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
	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
Marshall, Toneya (USA) (1998)	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
	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
Hurske, Reetta (FIN) (1995)	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
	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
Jenneke, Michelle (AUS) (1993)	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
	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
Lavin, Sarah (IRL) (1994)	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
	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

2023 UNF East Coast Relays (Jacksonville, FL)**FINAL**

date 29-Apr-23 wind 3.2 m/s

Henson (2023) - Athlete First: 2023 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
Camacho-Quinn, Jasmine (PU)	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
	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
Jones, Rayniah (USA) (2001)	time	2.58	3.60	4.58	5.56	6.54	7.51	8.50	9.50	10.50	11.51		12.63	6 / 2			
	reaction time	interval	1.02	0.98	0.98	0.98	0.97	0.99	1.00	1.00	1.01	1.12			2.98	2.94	3.01
	velocity	5.04	8.33	8.67	8.67	8.67	8.76	8.59	8.50	8.50	8.42	8.97	7.92		8.56	8.67	8.47
Lin Yuwei (CHN) (1999)	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
	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
Glasco, Alexis (USA) (2002)	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	interval	1.00	1.00	1.03	0.98	0.98	1.00	1.01	1.01	1.08	1.11			3.03	2.96	3.10
	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

2023 Mikio Oda Memorial (Hiroshima, JPN)**FINAL**

date 29-Apr-23 wind 0.6 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Tanaka, Yumi (JPN) (1998)	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
	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	
Aoki, Masumi (JPN) (1994)	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	0.152	interval	1.03	1.04	1.01	1.02	1.03	1.02	1.04	1.04	1.04	1.11			3.08	3.07	3.10
	velocity	4.96	8.25	8.17	8.42	8.33	8.25	8.33	8.33	8.33	8.17	8.17	9.05	7.70	8.28	8.31	8.23	
Fukube, Mako (JPN) (1995)	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
	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	
Shimura, Hitomi (JPN) (1990)	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
	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	
Kiyoyama, Chisato (JPN) (1999)	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	1.07	1.08	1.18			3.13	3.07	3.19
	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	
Shibata, Manaka (JPN) (2001)	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
	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	
Nakajima, Hitomi (JPN) (1995)	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
	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	

2022 Weltklasse (Zürich, SUI) (TV Analysis)**FINAL**

date 08-Sep-22 wind -0.3 m/s

Henson (2022) - Athlete First: 2022 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	
Amusan, Tobi (NGR) (1997)	time	2.47	3.47	4.43	5.37	6.31	7.24	8.19	9.14	10.12	11.10		12.29	4 / 1				
	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			2.90	2.82	2.91

	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
Jones, Tia (USA) (2000)	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
	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
Anderson, Britany (JAM) (200)	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
	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
Camacho-Quinn, Jasmine (PU)	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
	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
Charlton, Devynne (BAH) (199)	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
	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
Ali, Nia (USA) (1988)	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	1.01	1.02	1.23		3.00	2.94	3.03
	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
Skrzyszowska, Pia (POL) (2001)	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
	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
Harrison, Kendra (USA) (1992)	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
	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
Kambundji, Ditaji (SUI) (2002)	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
	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

2022 ISTAF (Berlin, GER) (TV Analysis)**FINAL**

	date	04-Sep-22	wind	-0.3 m/s	<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time	2.48	3.52	4.48	5.44	6.38	7.32	8.28	9.28	10.26	11.26		12.45	4 / 1				
	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			2.96	2.84	2.98	
	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	
Jones, Tia (USA) (2000)	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		
	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	
Tapper, Megan (JAM) (1994)	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		
	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	
Zbären, Noemi (SUI) (1994)	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		
	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	
Mayer, Isabel (GER) (1993)	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	
	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	
Wojtunik, Klaudia (POL) (1999)	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		
	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	
Tóth, Anna (HUN) (2003)	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		
	velocity	4.85	7.87	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	
Hjørnevik, Martine (NOR) (200)	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		
	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	
Rooth, Andrea (NOR) (2002)	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		
	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	

2022 Memorial van Damme (Brussels, BEL) (TV Analysis)**FINAL**

	date	02-Sep-22	wind	0.1 m/s	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Camacho-Quinn, Jasmine (PU)	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
	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
Jones, Tia (USA) (2000)	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		2.94	2.84	2.93
	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
Harrison, Kendra (USA) (1992)	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
	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
Anderson, Britany (JAM) (200)	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	1.03	1.18			2.95	2.87	2.97
	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
Tapper, Megan (JAM) (1994)	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	1.00	1.00	1.20			2.95	2.92	2.97
	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
Charlton, Devynne (BAH) (199)	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
	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
Skrzyszowska, Pia (POL) (2001)	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
	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
Visser, Nadine (NED) (1995)	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
	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

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

date 26-Aug-22

wind -0.9 m/s

Henson (2022) - Athlete First: 2022 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
Camacho-Quinn, Jasmine (PU)	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
	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
Amusan, Tobi (NGR) (1997)	time	2.43	3.44	4.44	5.40	6.34	7.27	8.27	9.25	10.25	11.27			12.45	5 / 2			
	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			2.97	2.87	3.00
	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
Jones, Tia (USA) (2000)	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			2.97	2.90	2.93
	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
Ali, Nia (USA) (1988)	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	1.02	1.22			3.02	2.90	2.98
	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
Anderson, Britany (JAM) (200)	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
	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
Harrison, Kendra (USA) (1992)	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
	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
Visser, Nadine (NED) (1995)	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
	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
Kambundji, Ditaji (SUI) (2002)	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
	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

2022 European Athletics Championships (Munich, GER) (TV Analysis)**FINAL**

date 21-Aug-22

wind -0.1 m/s

Henson (2022) - Athlete First: 2022 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
Skrzyszowska, Pia (POL) (2001)	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
	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
Kozák, Luca (HUN) (1996)	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			2.98	2.92	3.01

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
Kambundji, Ditaji (SUI) (2002) 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
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
Visser, Nadine (NED) (1995) 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
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
Lavin, Sarah (IRL) (1994) 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
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
Graversgaard, Mette (DEN) (1988) 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
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
Samba-Mayela, Cyréna (FRA) (1999) 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
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
Sember, Cindy (GBR) (1994) time	2.54	3.58	4.74	5.80	6.85	7.81	8.85	9.81	10.83	11.89		13.16	3 / 8			
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			3.26	3.05	3.04
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		7.82	8.36	8.39

2022 Gyulai István Memorial (Székesfehérvár, HUN) (TV Analysis)

FINAL

date	08-Aug-22	wind	2.4 m/s	Henson (2022) - Athlete First: 2022 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
Camacho-Quinn, Jasmine (PU) (2019) 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	0.95	0.93	1.00	1.14		2.96	2.82	2.88	
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	
Harrison, Kendra (USA) (1992) 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	
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	
Ali, Nia (USA) (1988) 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	1.17			3.03	2.93	3.00	
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	
Johnson, Alaysha (USA) (1996) 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	
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	
Brissett, Chanel (USA) (1999) time	2.56	3.60	4.63	5.60	6.60	7.60	8.60	9.60	10.63	11.66		12.87	1 / 5				
reaction time 0.148 interval		1.04	1.03	0.97	1.00	1.00	1.00	1.00	1.03	1.03	1.21			3.04	3.00	3.06	
velocity	5.08	8.17	8.25	8.76	8.50	8.50	8.50	8.50	8.25	8.25	8.31	7.77		8.39	8.50	8.33	
Cunningham, Gabriele (USA) (1999) 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	1.06	1.10	1.26			3.07	3.02	3.18	
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	
Kerekes, Gréta (HUN) (1992) 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	
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	
Kozák, Luca (HUN) (1996) 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		
velocity	5.04	8.10	8.50	8.76	8.50	8.50	8.50	8.50						8.44	8.50		

2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)

FINAL

date	07-Aug-22	wind	-0.2 m/s	Henson (2022) - Athlete First: 2022 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
Amusan, Tobi (NGR) (1997) time	2.48	3.48	4.44	5.38	6.34	7.28	8.22	9.18	10.16	11.16		12.30	5 / 1				
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			2.90	2.84	2.94	
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	
Charlton, Devynne (BAH) (1995) 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	1.00	1.00	1.04	1.18			2.94	2.94	3.04	
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	
Sember, Cindy (GBR) (1994) time	2.52	3.52	4.52	5.52	6.48	7.44	8.40	9.40	10.38	11.40		12.59	3 / 3				
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			3.00	2.88	3.00	
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		8.50	8.85	8.50	

Tapper, Megan (JAM) (1994)	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
	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
Jenneke, Michelle (AUS) (1993)	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
	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
Williams, Danielle (JAM) (1992)	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
	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
Mucci, Celeste (AUS) (1999)	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	0.151	interval	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
	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
Harrison, Michelle (CAN) (1999)	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
	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

Heat 3

date 05-Aug-22 wind 2.4 m/s Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time	2.50	3.50	4.48	5.43	6.37	7.33	8.28	9.23	10.23	11.23		12.40	3 / 1			
	reaction time	0.150	interval	1.00	0.98	0.95	0.94	0.96	0.95	0.95	1.00	1.17			2.93	2.85	2.95
	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
Jenneke, Michelle (AUS) (1993)	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
	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
Harrison, Michelle (CAN) (1999)	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
	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

2022 Japanese National High School Championships (Naruto, JPN)

FINAL

date 07-Aug-22 wind -1.5 m/s Kishima (2022) - national high school championships biomechanics data collection

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hayashi, Miki (JPN) (2005)	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	1.07	1.11	1.10	1.16	1.25			3.22	3.19	3.37
	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
Takahashi, Ami (JPN) (2005)	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	1.24			3.32	3.30	3.35
	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
Nagai, Mahiro (JPN) (2004)	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
	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
Maeda, Mitsuki (JPN) (2004)	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
	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
Fujiwara, Karen (JPN) (2004)	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
	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
Moriwaki, Kanami (JPN) (2004)	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
	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
Taninaka, Tennka (JPN) (2006)	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
	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
Miyamatsu, Shiki (JPN) (2005)	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
	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

2022 World Athletics Championships (Eugene, OR)

FINAL

date 24-Jul-22 wind 2.5 m/s Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time	2.50	3.50	4.43	5.37	6.27	7.20	8.12	9.07	10.02	11.01		12.06	4 / 1			
	reaction time	0.130	interval	1.00	0.93	0.94	0.90	0.93	0.92	0.95	0.99	1.05			2.87	2.75	2.89
	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

Anderson, Britany (JAM) (200)	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		Aoki (2023)	
	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
	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
Camacho-Quinn, Jasmine (PU)	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		Aoki (2023)	
	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
	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
Armstrong, Alia (USA) (2000)	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		Aoki (2023)	
	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
	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
Sember, Cindy (GBR) (1994)	time	2.57	3.58	4.53	5.51	6.44	7.37	8.33	9.29	10.27	11.27		12.38	1 / 5		Aoki (2023)	
	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		2.94	2.82	2.94
	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		8.67	9.04	8.67
Williams, Danielle (JAM) (1992)	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		Aoki (2023)	
	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
	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
Charlton, Devynne (BAH) (199)	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		Aoki (2023)	
	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
	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
Harrison, Kendra (USA) (1992)	time	2.45	3.47	4.47	5.40	6.36	7.30	8.26	9.27				dnf	3 / --		Henson (2022)	
	reaction time	0.145	interval	1.02	1.00	0.93	0.96	0.94	0.96	1.01			DQ		2.95	2.86	
	velocity	5.31	8.33	8.50	9.14	8.85	9.04	8.85	8.42						8.64	8.92	

Semi-Final 3 (TV Analysis)

date 24-Jul-22

wind 0.3 m/s

Henson (2022) - Athlete First: 2022 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
Anderson, Britany (JAM) (200)	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
	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
Camacho-Quinn, Jasmine (PU)	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
	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
Visser, Nadine (NED) (1995)	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
	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
Harrison, Michelle (CAN) (199)	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	1.04	1.17	PB		2.96	2.97	3.04
	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
Lavin, Sarah (IRL) (1994)	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	1.02	1.02	1.03	1.14			3.04	3.00	3.07
	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
Bapté, Laetitia (FRA) (1999)	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
	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
Zbären, Noemi (SUI) (1994)	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
	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
Hurske, Reetta (FIN) (1995)	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	1.02	1.01	1.07	1.12	1.33			3.07	3.02	3.20
	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

Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season

Semi-Final 2

date 24-Jul-22

wind -0.1 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Armstrong, Alia (USA) (2000)	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			Henson (2022)
	reaction time	0.153	interval	0.99	0.95	0.99	0.96	0.96	0.98	1.00	1.01	1.20	PB		2.93	2.88	2.99
	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
Charlton, Devynne (BAH) (199)	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			Henson (2022)
	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
	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
Tapper, Megan (JAM) (1994)	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			Henson (2022)
	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
	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
Skrzyszowska, Pia (POL) (2001)	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			Henson (2022)

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	
		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
Fourie, Marione (RSA) (2002)	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		Henson (2022)
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	
		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
Aoki, Masumi (JPN) (1994)	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		Aoki (2023)
reaction time	0.123	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	
		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
Graversgaard, Mette (DEN) (1992)	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		Henson (2022)
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	
		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
Mucci, Celeste (AUS) (1999)	time	2.54	3.63	4.65	5.63	6.63	7.63	8.63	9.66	10.70				dnf	1 / --		Henson (2022)
reaction time	0.143	interval	1.09	1.02	0.98	1.00	1.00	1.00	1.03	1.04			DQ	3.09	3.00		
		velocity	5.12	7.80	8.33	8.67	8.50	8.50	8.50	8.25	8.17			8.25	8.50		

Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season

Semi-Final 1

date 24-Jul-22 wind 0.9 m/s Henson (2022) - Athlete First: 2022 year end hurdle report (TV Analysis)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	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			Aoki (2023)
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
		velocity	5.12	8.85	8.67	9.24	9.34	8.85	8.95	8.85	8.76	9.48	8.25		8.92	9.17	8.85
Harrison, Kendra (USA) (1992)	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			Henson (2022)
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	
		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
Williams, Danielle (JAM) (1992)	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			Henson (2022)
reaction time	0.105	interval	1.00	0.97	0.93	0.97	0.96	0.97	1.00	1.00	1.18			2.90	2.90	3.00	
		velocity	5.35	8.50	8.76	9.14	8.76	8.85	8.76	8.50	8.50	8.52	8.06		8.79	8.79	8.50
Sember, Cindy (GBR) (1994)	time	2.50	3.50	4.47	5.45	6.42	7.37	8.33	9.30	10.30	11.30		12.50	5 / 4			Henson (2022)
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	NR PB		2.95	2.88	2.97
		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	8.64	8.85	8.59
Jenneke, Michelle (AUS) (1993)	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			Henson (2022)
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
		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
Kambundji, Ditaji (SUI) (2002)	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			Henson (2022)
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
		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
Vargas, Andrea Carolina (CRC)	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			Henson (2022)
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	
		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
Fukube, Mako (JPN) (1995)	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			Aoki (2023)
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
		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 6 (TV Analysis)

date 23-Jul-22 wind -0.4 m/s Henson (2022) - Athlete First: 2022 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
Harrison, Kendra (USA) (1992)	time	2.50	3.53	4.53	5.50	6.46	7.40	8.36	9.36	10.33	11.36		12.60	4 / 1			
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
		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
Sember, Cindy (GBR) (1994)	time	2.47	3.52	4.50	5.46	6.46	7.40	8.40	9.38	10.38	11.40		12.67	5 / 2			
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		2.99	2.94	3.00	
		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	8.53	8.67	8.50
Jenneke, Michelle (AUS) (1993)	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	
		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
Hurske, Reetta (FIN) (1995)	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	
		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

Heat 5 (TV Analysis)

date 23-Jul-22 wind 0.5 m/s Henson (2022) - Athlete First: 2022 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
Armstrong, Alia (USA) (2000)	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
		velocity	5.28	8.50	8.76	8.95	8.76	8.67	8.50	8.76	8.50	8.52	8.01		8.73	8.64	8.59

Tapper, Megan (JAM) (1994)	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
	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
Fourie, Marione (RSA) (2002)	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
	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
Fukube, Mako (JPN) (1995)	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
	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

Heat 4 (TV Analysis)

date 23-Jul-22 wind 0.7 m/s Henson (2022) - Athlete First: 2022 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
Skrzyszowska, Pia (POL) (2001)	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	0.96	0.98	1.02	1.00	1.04	1.20			3.04	2.94	3.06
	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
Visser, Nadine (NED) (1995)	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
	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
Vargas, Andrea Carolina (CRC)	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
	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

Heat 3 (TV Analysis)

date 23-Jul-22 wind 1.5 m/s Henson (2022) - Athlete First: 2022 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
Amusan, Tobi (NGR) (1997)	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
	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
Williams, Danielle (JAM) (1992)	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	1.10	1.24			3.01	2.99	3.10
	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
Lavin, Sarah (IRL) (1994)	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	1.23			3.10	3.03	3.10
	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
Mucci, Celeste (AUS) (1999)	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	1.25			3.08	3.03	3.10
	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
Kambundji, Ditaji (SUI) (2002)	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
	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

Heat 2 (TV Analysis)

date 23-Jul-22 wind -0.4 m/s Henson (2022) - Athlete First: 2022 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
Camacho-Quinn, Jasmine (PU)	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
	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
Charlton, Devynne (BAH) (199)	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
	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
Zbären, Noemi (SUI) (1994)	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	1.02	1.02	1.04	1.26			3.06	3.00	3.08
	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
Samba-Mayela, Cyréna (FRA)	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
	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

Heat 1 (TV Analysis)

date 23-Jul-22 wind -0.3 m/s Henson (2022) - Athlete First: 2022 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
Anderson, Britany (JAM) (200)	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
	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
Harrison, Michelle (CAN) (199)	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	1.03	1.04	1.25			3.03	3.00	3.07
	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

Graversgaard, Mette (DEN) (1988)	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
	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
Ali, Nia (USA) (1988)	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	1.19	DQ		2.98	2.94	3.15
	velocity	5.28	8.50	8.50	8.67	8.67	8.67	8.67	8.67	8.67	8.67	7.14			8.56	8.67	8.10

2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)**FINAL**

	date	30-Jun-22	wind	-0.5 m/s	Henson (2022) - Athlete First: 2022 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
Camacho-Quinn, Jasmine (PU) (2001)	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	
	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	
Amusan, Tobi (NGR) (1997)	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	
	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	
Ali, Nia (USA) (1988)	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	1.01	1.00	1.19		2.95	2.94	2.97	
	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	
Williams, Danielle (JAM) (1992)	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	
	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	
Charlton, Devynne (BAH) (1994)	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	
	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	
Visser, Nadine (NED) (1995)	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	
	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	
Skrzyszowska, Pia (POL) (2001)	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	1.06	1.03	1.05	1.21		3.06	3.00	3.14		
	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	
Jones, Tia (USA) (2000)	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	
	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	

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

	date	25-Jun-22	wind	-1.4 m/s	Henson (2022) - Athlete First: 2022 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
Harrison, Kendra (USA) (1992)	time	2.53	3.53	4.51	5.45	6.40	7.35	8.31	9.28	10.26	11.24		12.34	5 / 1				
	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		
	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	
Johnson, Alaysha (USA) (1996)	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	
	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	
Armstrong, Alia (USA) (2000)	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	
	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	
Marshall, Tonea (USA) (1998)	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		
	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	
Jones, Tia (USA) (2000)	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		
	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	
Salmon, Paula (USA) (1999)	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		
	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	
Cunningham, Gabriele (USA) (2000)	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	interval	1.02	1.00	1.00	1.00	1.02	1.03	1.03	1.03	1.06	1.26		3.02	3.05	3.12		
	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	

2022 Nigerian National Championships (Benin City, NGR) (TV Analysis)

FINAL

		date	25-Jun-22	wind	-0.4 m/s	Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	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	0.97	1.00	1.00	1.18			2.97	2.90	2.97
		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

		date	25-Jun-22	wind	0.0 m/s	Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	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
		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

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

FINAL

		date	18-Jun-22	wind	-0.4 m/s	Henson (2022) - Athlete First: 2022 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
Amusan, Tobi (NGR) (1997)	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
		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
Charlton, Devynne (BAH) (1995)	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
		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
Sember, Cindy (GBR) (1994)	time		2.52	3.54	4.52	5.52	6.49	7.47	8.47	9.45	10.47	11.50		12.73	3 / 3				
	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				3.00	2.95	3.03
		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		8.50	8.64	8.42
Samba-Mayela, Cyréna (FRA) (1995)	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
		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
Clay, Liz (AUS) (1995)	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
		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
Kambundji, Ditaji (SUI) (2002)	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				
	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
		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
Bapté, Laetitia (FRA) (1999)	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
		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

2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)

FINAL

		date	14-Jun-22	wind	0.2 m/s	Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	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
		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
Anderson, Britany (JAM) (200)	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
		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
Visser, Nadine (NED) (1995)	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
		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
Clay, Liz (AUS) (1995)	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
		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
Hurske, Reetta (FIN) (1995)	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
		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
Bogliolo, Luminosa (ITA) (1995)	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
		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
Kozák, Luca (HUN) (1996)	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
		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
Sedney, Zoë (NED) (2001)	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

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
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2022 New York Grand Prix (New York, NY) (TV Analysis)**FINAL**

		date	12-Jun-22	wind	2.0 m/s										Henson (2022) - Athlete First: 2022 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
Johnson, Alaysha (USA) (1996)	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
			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
Jones, Tia (USA) (2000)	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
			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
Cunningham, Gabriele (USA)	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
			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
Brissett, Chanel (USA) (1999)	time				2.58	3.62	4.60	5.60	6.56	7.52	8.50	9.48	10.48	11.50		12.66	8 / 4			
	reaction time	0.160	interval			1.04	0.98	1.00	0.96	0.96	0.98	0.98	1.00	1.02	1.16			3.02	2.90	3.00
			velocity		5.04	8.17	8.67	8.50	8.85	8.85	8.67	8.67	8.50	8.33	8.66	7.90		8.44	8.79	8.50
Vargas, Andrea Carolina (CRC)	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
			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
Clemons, Christina (USA) (1991)	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
			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
Chadwick, Payton (USA) (1991)	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
			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
Vazquez, Paolo (PUR) (1998)	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
			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

2022 NCAA Championships (Eugene, OR) (TV Analysis)**FINAL**

		date	11-Jun-22	wind	-0.2 m/s										Henson (2022) - Athlete First: 2022 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
Armstrong, Alia (USA) (2000)	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
			velocity		5.33	8.50	8.50	8.67	8.67	8.67	8.67	8.67	8.50	8.50	8.17	8.59	7.96		8.56	8.67
Jones, Jasmine (USA) (2001)	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
			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
Russell, Masai (USA) (2000)	time				2.52	3.57	4.62	5.61	6.59	7.59	8.59	9.57	10.57	11.57		12.81	4 / 3			
	reaction time		interval			1.05	1.05	0.99	0.98	1.00	1.00	0.98	1.00	1.00	1.24			3.09	2.98	2.98
			velocity		5.16	8.10	8.10	8.59	8.67	8.50	8.50	8.67	8.50	8.50	8.10	7.81		8.25	8.56	8.56
Salmon, Paula (USA) (1999)	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
			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
Robinson, Kaylah (USA) (1991)	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
			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
Huven, Destiny (USA) (2001)	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		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
			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
Roswell, Demisha (JAM) (1998)	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
			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
Jones, Rayniah (USA) (2001)	time				2.48	3.52	4.57	5.59	6.62	7.64	8.67	9.69	10.74	11.81		13.04	9 / 8			
	reaction time		interval			1.04	1.05	1.02	1.03	1.02	1.03	1.02	1.05	1.07	1.23	DQ		3.11	3.08	3.14
			velocity		5.24	8.17	8.10	8.33	8.25	8.33	8.25	8.33	8.10	7.94	8.17	7.67		8.20	8.28	8.12
Rocker, Destinee (USA) (1999)	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
			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

2022 Japanese National Championships (Osaka, JPN)

FINAL

		date	11-Jun-22	wind	Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season															
				0.8 m/s	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fukube, Mako (JPN) (1995)	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
			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
Aoki, Masumi (JPN) (1994)	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	0.143	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
			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
Tanaka, Yumi (JPN) (1998)	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
			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
Nakajima, Hitomi (JPN) (1995)	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
			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
Kiyoyama, Chisato (JPN) (1999)	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
			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
Tanaka, Kiyono (JPN) (2002)	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
			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
Suzuki, Miho (JPN) (1996)	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
			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

2022 Japanese Multi-Event National Championships (Akita, JPN)

Heptathlon - Heat 3

		date	04-Jun-22	wind	Takefu (2023) - performance analysis of heptathletes in the 2022 season															
				0.4 m/s	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hemphill, Meg (JPN) (1996)	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
			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
Odama, Karin (JPN) (1999)	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
			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
Yamasaki, Yuki (JPN) (1995)	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	3.34
			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	7.63
Rito, Nonoka (JPN) (1995)	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
			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

2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)

FINAL

		date	09-Jun-22	wind	Henson (2022) - Athlete First: 2022 year end hurdle report															
				0.1 m/s	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Camacho-Quinn, Jasmine (PU)	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
			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
Anderson, Britany (JAM) (200)	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
			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
Ali, Nia (USA) (1988)	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
			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
Skrzyszowska, Pia (POL) (2001)	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
			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
Williams, Danielle (JAM) (1992)	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
			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
Visser, Nadine (NED) (1995)	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
			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

Tapper, Megan (JAM) (1994)	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
	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
Bogliolo, Luminosa (ITA) (199)	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
	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
di Lazzaro, Elisa Maria (ITA) (1)	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
	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

2022 African Championships (St. Pierre, MRI) (TV Analysis)

FINAL

date		09-Jun-22	wind		4.0 m/s		Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season										
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	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
	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
Morrison, Ebony (LBR) (1994)	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
	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

2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)

FINAL

date		03-Jun-22	wind		0.2 m/s		Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season										
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jones, Tia (USA) (2000)	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
	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
Amusan, Tobi (NGR) (1997)	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
	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
Barber, Jade (USA) (1993)	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
	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
Lavin, Sarah (IRL) (1994)	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
	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
Kozák, Luca (HUN) (1996)	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
	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
Siciarz, Klaudia (POL) (1998)	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	1.00	1.00	1.04	1.04	1.08	1.24			3.10	3.02	3.16
	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
Kiepura, Monika (POL) (2000)	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	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
	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
Nagięć, Weronika (POL) (2002)	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	
	velocity	4.92	8.02	8.17	8.17	8.33	8.17	7.87	8.17						8.12	8.12	

2022 Prefontaine Classic (Eugene, OR) (TV Analysis)

FINAL

date		28-May-22	wind		-0.7 m/s		Henson (2022) - Athlete First: 2022 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
Camacho-Quinn, Jasmine (PU)	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
	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
Amusan, Tobi (NGR) (1997)	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
	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
Marshall, Tonea (USA) (1998)	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
	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
Sember, Cindy (GBR) (1994)	time	2.53	3.57	4.56	5.55	6.53	7.50	8.50	9.50	10.50	11.52		12.69	2 / 4			
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			3.02	2.95	3.02

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		8.44	8.64	8.44
Williams, Danielle (JAM) (1992) 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
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
Cunningham, Gabbi (USA) (1992) 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
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
Ali, Nia (USA) (1988) 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
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
Harrison, Kendra (USA) (1992) time	2.50	3.53	4.51	5.52	6.52	7.50	8.52	9.52	10.53	11.57		12.78	6 / 8			
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
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
Cockrell, Anna (USA) (1997) 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
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

2022 Shimane High School Championships (Izumo, JPN)

FINAL

date 28-May-22 wind -0.4 m/s Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
別所 みゆ 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
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	
松原 しほり 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
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	
福本 智帆 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
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	
大崎 琴葉 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
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	
松浦 ひか莉 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
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	
代 悠乃 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
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	

2022 Doha Diamond League (Doha, QAT) (TV Analysis)

FINAL

date 13-May-22 wind 3.8 m/s Henson (2022) - Athlete First: 2022 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
Harrison, Kendra (USA) (1992) time	2.50	3.53	4.51	5.45	6.40	7.34	8.29	9.25	10.23	11.25		12.43	4 / 1				
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
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	
Amusan, Tobi (NGR) (1997) 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
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	
Anderson, Britany (JAM) (200) 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
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	
Charlton, Devynne (BAH) (199) 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
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	
Samba-Mayela, Cyréna (FRA) 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
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	
Cunningham, Gabriele (USA) 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
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	

Chadwick, Payton (USA) (1991)	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	1.03	1.06	1.22		3.01	3.00	3.09
	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
Tapper, Megan (JAM) (1994)	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
	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

2022 Puerto Rico International Athletics Classic (Ponce, PUR) (TV Analysis)

FINAL

	date	12-May-22	wind	0.3 m/s	Henson (2022) - Athlete First: 2022 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
Johnson, Alaysha (USA) (1991)	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	0.97	1.02	0.98	1.16	PB			2.98	2.87	2.97
	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	
Camacho-Quinn, Jasmine (PU)	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						
	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	
	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	
Williams, Danielle (JAM) (1992)	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	
	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	

2022 Seiko Golden Grand Prix (Tokyo, JPN)

FINAL

	date	08-May-22	wind	-0.1 m/s	Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harrison, Kendra (USA) (1992)	time	2.53	3.60	4.62	5.60	6.58	7.58	8.56	9.55	10.56	11.61		12.76	4 / 1						
	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
	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	
Fukube, Mako (JPN) (1995)	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
	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	
Cunningham, Gabriel (USA) (1991)	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
	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	
Terada, Asuka (JPN) (1990)	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
	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	
Tapper, Megan (JAM) (1994)	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
	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	
Shimura, Hitomi (JPN) (1990)	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
	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	
Tanaka, Yumi (JPN) (1998)	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
	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	
Suzuki, Miho (JPN) (1996)	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
	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, Masumi (JPN) (1994)	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	0.144	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
	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	

2022 Michitaka Kinami Memorial (Osaka, JPN)

FINAL

	date	01-May-22	wind	-0.6 m/s	Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mucci, Celeste (AUS) (1999)	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
	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	
Shimura, Hitomi (JPN) (1990)	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
	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	
Suzuki, Miho (JPN) (1996)	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
	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	

Tanaka, Yumi (JPN) (1998)	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		
	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		
Tamaoki, Nanako (JPN) (2000)	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		
	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		
Nakajima, Hitomi (JPN) (1995)	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		
	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		
Kamada, Saki (JPN) (1997)	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		
	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		
Omura, Mika (JPN) (1995)	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		
	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		
Heptathlon - Heat 2		date	30-Apr-22	wind	1.0 m/s											<i>Takefu (2023) - performance analysis of heptathletes in the 2022 season</i>			
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yamasaki, Yuki (JPN) (1995)	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	3.51	
	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	7.26	
Heptathlon - Heat 1		date	30-Apr-22	wind	-0.6 m/s											<i>Takefu (2023) - performance analysis of heptathletes in the 2022 season</i>			
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hemphill, Meg (JPN) (1996)	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	
	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	
2022 Penn Relays (Philadelphia, PA) (TV Analysis)																			
FINAL		date	30-Apr-22	wind	0.0 m/s											<i>Henson (2022) - Athlete First: 2022 Sydney McLaughlin 400m hurdles world record season</i>			
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (1)	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	
	velocity	5.20	8.17	8.17	8.50	8.50	8.76	8.50	8.50	8.50	8.50	8.50	8.38	7.84		8.28	8.59	8.50	
2022 Mikio Oda Memorial (Hiroshima, JPN)																			
FINAL		date	29-Apr-22	wind	-2.8 m/s											<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>			
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mucci, Celeste (AUS) (1999)	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	
	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	
Fukube, Mako (JPN) (1995)	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	
	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	
Aoki, Masumi (JPN) (1994)	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	0.138 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	
	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	
Shimura, Hitomi (JPN) (1990)	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	
	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	
Tanaka, Yumi (JPN) (1998)	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	
	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	
Tamaoki, Nanako (JPN) (2000)	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	
	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	
Suzuki, Miho (JPN) (1996)	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	
	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	
Nakajima, Hitomi (JPN) (1995)	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	
	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	
B FINAL		date	29-Apr-22	wind	0.3 m/s											<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>			

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Kiyoyama, Chisato (JPN) (199)	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	1.10	1.09	1.23		3.22	3.18	3.26	
	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	
Fujimori, Nana (JPN) (1997)	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	
	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	
Tezuka, Mai (JPN) (2001)	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	
	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	
Takeuchi, Maya (JPN) (1998)	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	
	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	
Okubo, Yuri (JPN) (1997)	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	
	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	
Omatso, Yuki (JPN) (1996)	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	
	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	
Tanaka, Hikari (JPN) (1998)	time	2.72	3.85	4.93	6.01	7.08	8.15	9.25	10.36	11.48	12.62		13.87	8 / 7				
	reaction time	0.185	interval	7 steps	1.13	1.08	1.08	1.07	1.07	1.10	1.11	1.12	1.14	1.25		3.29	3.24	3.37
	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	

2022 Golden Games (Walnut, CA) (TV Analysis)**FINAL**

date 22-Apr-22 wind 0.8 m/s Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Marshall, Tonea (USA) (1998)	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	0.98	0.98	1.00	1.16			2.96	2.88	2.96	
	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	
Harrison, Kendra (USA) (1992)	time	2.50	3.54	4.54	5.50	6.46	7.42	8.38	9.36	10.38	11.38		12.56	4 / 2				
	reaction time		interval	1.04	1.00	0.96	0.96	0.96	0.98	1.02	1.00	1.18			3.00	2.88	3.00	
	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	
Jones, Tia (USA) (2000)	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
	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	
Amusan, Tobi (NGR) (1997)	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	
	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	
Sember, Cindy (GBR) (1994)	time	2.60	3.63	4.63	5.61	6.59	7.55	8.53	9.51	10.51	11.51		12.63	3 / 5				
	reaction time		interval	1.03	1.00	0.98	0.98	0.96	0.98	0.98	1.00	1.00	1.12		3.01	2.92	2.98	
	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		8.47	8.73	8.56	
Clemons, Christina (USA) (19)	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	1.00	1.02	1.19		3.00	2.95	3.00	
	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	
Castlin, Kristi (USA) (1988)	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	
	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	
Brissett, Chanel (USA) (1999)	time	2.63	3.63	4.63	5.61	6.59	7.59	8.59	9.59	10.59	11.63		12.79	8 / 8				
	reaction time		interval	1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.04	1.16			2.98	2.98	3.04	
	velocity	4.94	8.50	8.50	8.67	8.67	8.50	8.50	8.50	8.50	8.17	8.66	7.82		8.56	8.56	8.39	
Cockrell, Anna (USA) (1997)	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	1.02	1.02	1.03	1.06	1.16			3.00	3.02	3.11	
	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	

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

date 26-Mar-22 wind 3.9 m/s Henson (2022) - Athlete First: 2022 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
Harrison, Kendra (USA) (1992)	time	2.54	3.52	4.45	5.40	6.34	7.27	8.24	9.21	10.18	11.18		12.32	5 / 1			
	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
	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
Clemons, Christina (USA) (19)	time	2.54	3.54	4.50	5.47	6.42	7.37	8.34	9.31	10.31	11.29		12.45	7 / 2			

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	
	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	
Marshall, Tonea (USA) (1998)	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
	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

University FINAL

date 26-Mar-22 wind 2.5 m/s

Henson (2022) - Athlete First: 2022 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
Armstrong, Alia (USA) (2000)	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
	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
Robinson, Kaylah (USA) (1995)	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
	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
Nugent, Ackera (JAM) (2002)	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
	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

2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)**FINAL**

date 19-Mar-22

Henson (2022) - Athlete First: 2022 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
Samba-Mayela, Cyréna (FRA)	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		
Charlton, Devynne (BAH) (1995)	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		
Cunningham, Gabriele (USA)	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		
Anderson, Britany (JAM) (2000)	time	2.50	3.52	4.54	5.54	6.52							7.96	3 / 4			
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		
Mota, Yoveinny (VEN) (2000)	time	2.56	3.58	4.60	5.58	6.60							8.05	1 / 5			
reaction time 0.147	interval		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		
Sedney, Zoë (NED) (2001)	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		
Lavin, Sarah (IRL) (1994)	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		
Kambundji, Ditaji (SUI) (2002)	time	2.44	3.46										dnf	8 / --			
reaction time 0.108	interval		1.02														
	velocity	5.33	8.33														

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

date 22-Sep-21 wind 0.1 m/s

CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lin Yuwei (CHN) (1999)	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
	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
Wu Yanni (CHN) (1997)	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	3.11
	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	8.20
Wang Dou (CHN) (1993)	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
	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
Dai Yiru (CHN) (2001)	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
	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
Luo Xianyan (CHN) (1997)	time	2.53	3.60	4.64	5.68	6.70	7.73	8.77	9.83	10.90	11.97		13.25	2 / 5			

reaction time	0.149	interval	1.07	1.04	1.04	1.02	1.03	1.04	1.06	1.07	1.07	1.28	PB	3.15	3.09	3.20		
		velocity	5.14	7.94	8.17	8.17	8.33	8.25	8.17	8.02	7.94	7.94	7.85	7.55	8.10	8.25	7.97	
Wang Li (CHN) (1999)		time	2.53	3.63	4.70	5.73	6.76	7.80	8.83	9.86	10.96	12.03		13.29	4 / 6			
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	
		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
You Na (CHN) (1993)		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	
		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
Chen Yinfeng (CHN) (1998)		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	3.26	
		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	7.82

Semi-Final 3

date 21-Sep-21 wind 0.1 m/s

CAA Hurdle Development (2021)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lin Yuwei (CHN) (1999)		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	1.07	1.25	PB			3.03	2.97	3.11
		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
Wu Yanni (CHN) (1997)		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	3.11	
		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	8.20
Dai Yiru (CHN) (2001)		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
		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
Luo Xianyan (CHN) (1997)		time	2.53	3.61	4.66	5.68	6.70	7.72	8.78	9.84	10.89	12.00		13.31	3 / 4			
reaction time	0.143	interval	1.08	1.05	1.02	1.02	1.02	1.06	1.06	1.05	1.11	1.31	PB			3.15	3.10	3.22
		velocity	5.14	7.87	8.10	8.33	8.33	8.33	8.02	8.02	8.10	7.66	7.67	7.51		8.10	8.23	7.92
Yu Jiaru (CHN) (1999)		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
		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
Qin Hongyan (CHN) (2001)		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
		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

2021 Weltklasse (Zürich, SUI) (TV Analysis)**FINAL**

date 09-Sep-21 wind 0.4 m/s

Henson (2021) - Athlete First: 2021 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
Amusan, Tobi (NGR) (1997)		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	0.98	1.04	1.16	AR		2.92	2.84	3.00
		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
Visser, Nadine (NED) (1995)		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
		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
Tapper, Megan (JAM) (1994)		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
		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
Chadwick, Payton (USA) (1999)		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	0.98	1.00	0.98	1.04	1.20	PB		3.00	2.90	3.02
		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
Sember, Cindy (GBR) (1994)		time	2.54	3.56	4.54	5.52	6.50	7.50	8.48	9.46	10.48	11.52		12.71	6 / 5			
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				2.98	2.96	3.04
		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		8.56	8.61	8.39
Cunningham, Gabriele (USA)		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
		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
Kozák, Luca (HUN) (1996)		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
		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
Kambundji, Ditaji (SUI) (2002)		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	3.02	3.14
		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	8.44	8.12

Robinson, TeJyrica (USA) (1991)	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
			velocity	5.16	7.87	8.02	8.02	7.87	7.87	7.87	8.17	7.73	7.20	7.08	7.97	7.87	7.68

2021 Memorial van Damme (Brussels, BEL) (TV Analysis)**FINAL**

date 03-Sep-21 wind 0.7 m/s

Henson (2021) - Athlete First: 2021 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	
Visser, Nadine (NED) (1995)	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	0.96	0.98	1.00	1.02	1.04	1.19			2.98	2.92	3.06	
			velocity	5.12	8.33	8.67	8.67	8.67	8.50	8.33	8.17	8.45	7.88		8.56	8.73	8.33	
Amusan, Tobi (NGR) (1997)	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	0.96	0.98	0.98	1.00	1.04	1.19			3.04	2.92	3.02	
			velocity	5.16	8.02	8.50	8.67	8.67	8.85	8.67	8.67	8.50	8.45	7.88		8.39	8.73	8.44
Tapper, Megan (JAM) (1994)	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	1.00	1.02	1.02	1.06	1.23			2.96	2.96	3.10	
			velocity	5.16	8.33	8.67	8.85	8.67	8.67	8.50	8.33	8.33	8.02	7.83		8.61	8.61	8.23
Sember, Cindy (GBR) (1994)	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	1.04	1.04	1.17			3.04	2.96	3.06	
			velocity	5.08	8.02	8.50	8.67	8.50	8.67	8.67	8.17	8.17	8.59	7.82		8.39	8.61	8.33
Cunningham, Gabriele (USA)	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	
			velocity	5.24	8.17	8.50	8.67	8.50	8.17	8.50	8.17	8.33	8.02	7.76		8.44	8.39	8.17
Zagré, Anne (BEL) (1990)	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	
			velocity	5.00	8.33	8.33	8.67	8.67	8.50	8.50	8.17	8.33	8.17	7.98		8.44	8.56	8.23
Vidts, Noor (BEL) (1996)	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	
			velocity	4.89	7.59	8.02	8.02	8.50	8.02	8.02	7.73	7.73	7.91	7.38		7.87	8.17	7.82
Williams, Danielle (JAM) (1992)	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		
			velocity	5.24	8.17	8.50	8.67	8.33	7.87	8.17	7.33				8.44	8.12		

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

date 28-Aug-21 wind 1.7 m/s

Henson (2021) - Athlete First: 2021 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	
Williams, Danielle (JAM) (1992)	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	0.96	0.96	0.98	1.00	1.02	1.18			2.98	2.90	3.00	
			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
Visser, Nadine (NED) (1995)	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	1.00	1.02	1.18	NR PB		2.98	2.90	3.00	
			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
Tapper, Megan (JAM) (1994)	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	
			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
Amusan, Tobi (NGR) (1997)	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				
	reaction time	0.155	interval	1.04	1.00	0.98	0.96	0.98	1.00	1.00	1.00	1.21			3.02	2.92	3.00	
			velocity	5.12	8.17	8.50	8.67	8.67	8.85	8.67	8.50	8.50	8.31	7.88		8.44	8.73	8.50
Cunningham, Gabriele (USA)	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	
			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
Clemons, Christina (USA) (1991)	time	2.48	3.52	4.56	5.58	6.58	7.58	8.58	9.60	10.64	11.68		12.96	7 / 6				
	reaction time	0.150	interval	1.04	1.04	1.02	1.00	1.00	1.02	1.04	1.04	1.28			3.10	3.00	3.10	
			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

2020 Olympic Games (Tokyo, JPN) (TV Analysis)**FINAL**

date 02-Aug-21 wind -0.3 m/s

Henson (2021) - Athlete First: 2021 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	
Camacho-Quinn, Jasmine (PU)	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	0.96	1.04	1.23			2.94	2.82	2.94	
			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
Harrison, Kendra (USA) (1992)	time	2.44	3.48	4.46	5.42	6.38	7.36	8.30	9.28	10.26	11.28		12.52	4 / 2				
	reaction time	0.158	interval	1.04	0.98	0.96	0.96	0.98	0.94	0.98	0.98	1.04	1.24		2.98	2.88	2.98	
			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

Tapper, Megan (JAM) (1994)	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
	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
Amusan, Tobi (NGR) (1997)	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		3.02	2.90	3.00
	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
Visser, Nadine (NED) (1995)	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
	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
Charlton, Devynne (BAH) (1995)	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
	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
Cunningham, Gabriele (USA)	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
	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
Anderson, Britany (JAM) (2001)	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
	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 3

date 01-Aug-21 wind -0.2 m/s Henson (2021) - Athlete First: 2021 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
Camacho-Quinn, Jasmine (PU)	time	2.47	3.47	4.44	5.37	6.31	7.24	8.19	9.14	10.10	11.10		12.26	7 / 1			
	reaction time	0.175	interval	1.00	0.97	0.93	0.94	0.93	0.95	0.96	1.00	1.16	OR AR PB		2.90	2.82	2.91
	velocity	5.26	8.50	8.76	9.14	9.04	9.14	8.95	8.95	8.85	8.50	8.66	8.16		8.79	9.04	8.76

Heat 5

date 31-Jul-21 wind 0.3 m/s Henson (2021) - Athlete First: 2021 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
Camacho-Quinn, Jasmine (PU)	time	2.47	3.47	4.47	5.44	6.38	7.34	8.29	9.25	10.23	11.23		12.41	2 / 1			
	reaction time	0.153	interval	1.00	1.00	0.97	0.94	0.96	0.95	0.96	0.98	1.00	1.18		2.97	2.85	2.94
	velocity	5.26	8.50	8.50	8.76	9.04	8.85	8.95	8.85	8.67	8.50	8.52	8.06		8.59	8.95	8.67
Tapper, Megan (JAM) (1994)	time	2.53	3.54	4.50	5.47	6.44	7.39	8.34	9.34	10.32	11.34		12.53	5 / 2			
	reaction time	0.152	interval	1.01	0.96	0.97	0.97	0.95	0.95	1.00	0.98	1.02	1.19		2.94	2.87	3.00
	velocity	5.14	8.42	8.85	8.76	8.76	8.95	8.95	8.50	8.67	8.33	8.45	7.98		8.67	8.89	8.50

2021 Japanese High School National Championships (Fukui, JPN)**FINAL**

date 01-Aug-21 wind 1.8 m/s Shibayama (2021) - national high school and U20 national championships

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Taguchi, Mayu (JPN) (2003)	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	1.07	1.09	1.10	1.23	PB		3.19	3.14	3.26
	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
Asagi, Tsukiha (JPN) (2003)	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		3.18	3.20	3.27
	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
Takami, Towa (JPN) (2004)	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		3.18	3.27	3.33
	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
Fujiwara, Karen (JPN) (2004)	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
	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
Yoshida, Erika (JPN) (2004)	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
	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
Takahashi, Ami (JPN) (2005)	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	1.10	1.07	1.11	1.09	1.12	1.21	PB		3.28	3.25	3.32
	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
Otani, Sumire (JPN) (2005)	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
	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
Nishijima, Mai (JPN) (2004)	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
	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

2021 Chinese Student Games (Qingdao, CHN)**FINAL**

		date	14-Jul-21		wind -0.7 m/s										CAA Hurdle Development (2021)			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lin Yuwei (CHN) (1999)	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
		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
Dai Yiru (CHN) (2001)	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
		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
Wang Li (CHN) (1999)	time		2.62	3.67	4.70	5.77	6.81	7.84	8.90	9.97	11.07	12.17		13.42	4 / 3			
	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
		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
Chen Yifeng (CHN) (1998)	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	3.29
		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

2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)**FINAL**

		date	13-Jul-21		wind 1.5 m/s										Henson (2021) - Athlete First: 2021 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
Sember, Cindy (GBR) (1994)	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
		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
Chadwick, Payton (USA) (1999)	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
		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
Visser, Nadine (NED) (1995)	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
		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
Williams, Danielle (JAM) (1992)	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
		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
Anderson, Britany (JAM) (2001)	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
		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
Robinson, TeJyrica (USA) (1999)	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
		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
Jones, Hannah (AUS) (1995)	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
		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
Barrett, Alicia (GBR) (1998)	time		2.63	3.77	4.82									dnf	1 / --			
	reaction time	0.180 interval		1.14	1.05													
		velocity		4.94	7.46	8.10												

2021 Flavour Hangzhou Athletics Meeting (Hangzhou, CHN)**FINAL**

		date	09-Jul-21		wind -0.3 m/s										CAA Hurdle Development (2021)			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lin Yuwei (CHN) (1999)	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
		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

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

		date	06-Jul-21		wind 0.2 m/s										Henson (2021) - Athlete First: 2021 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
Camacho-Quinn, Jasmine (PU)	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
		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
Herman, Elvira (BLR) (1997)	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
		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
Cunningham, Gabriele (USA)	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
		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

Nelvis, Sharika (USA) (1990)	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
		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
Anderson, Britany (JAM) (200)	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
		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
Visser, Nadine (NED) (1995)	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
		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
Kozák, Luca (HUN) (1996)	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
		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

2021 Japanese National Championships (Osaka, JPN)

FINAL

		date	27-Jun-21	wind	0.0 m/s	Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tereda, Asuka (JPN) (1990)	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
		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
Kiyoyama, Chisato (JPN) (199)	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
		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
Suzuki, Miho (JPN) (1996)	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
		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
Takeuchi, Maya (JPN) (1998)	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
		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
Okubo, Yuri (JPN) (1997)	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
		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
Tanaka, Yumi (JPN) (1998)	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
		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
Fujiwara, Miku (JPN) (1992)	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
		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
Shibata, Manaka (JPN) (2001)	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
		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

2021 Japanese U20 National Championships (Osaka, JPN)

FINAL

		date	26-Jun-21	wind	0.2 m/s	Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Iwasa, Mayuko (JPN) (2002)	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
		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
Yoshida, Erika (JPN) (2004)	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
		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
Fujiwara, Karen (JPN) (2004)	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
		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
Otani, Sumire (JPN) (2005)	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
		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
Nakatsu, Haruha (JPN) (2003)	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
		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
Taguchi, Mayu (JPN) (2003)	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

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
Asagi, Tsukiha (JPN) (2003)	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
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

2021 Chinese National Championships (Chongqing, CHN)**FINAL**

date 25-Jun-21 wind 1.7 m/s CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Yanni (CHN) (1997)	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	3.06
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	8.33	
Chen Jiamin (CHN) (1996)	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
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	
Wang Dou (CHN) (1993)	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
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	
Deng Xuelin (CHN) (1998)	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
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	
Shi Jiali (CHN) (1997)	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
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	
Dai Yiru (CHN) (2001)	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
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	
Chen Yifeng (CHN) (1998)	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	3.23
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	7.89	

Heat 4

date 25-Jun-21 wind -1.8 m/s CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lin Yuwei (CHN) (1999)	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	1.08	1.12	1.20			3.20	3.19	3.27
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	
You Na (CHN) (1993)	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
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	
Luo Xianyan (CHN) (1997)	time	2.70	3.84	4.89	5.95	7.01	8.07	9.14	10.21	11.30	12.39		13.63	4 / 3			
reaction time	0.175	interval	1.14	1.05	1.06	1.06	1.06	1.07	1.07	1.09	1.09	1.24			3.25	3.19	3.25
velocity	4.81	7.46	8.10	8.02	8.02	8.02	7.94	7.94	7.80	7.80	8.10	7.34		7.85	7.99	7.85	
Qin Hongyan (CHN) (2001)	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
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	
Chen Yuyang (CHN) (2002)	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
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	
Yin Xiaoxia (CHN) (2000)	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
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	

Heat 3

date 25-Jun-21 wind -1.6 m/s CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Dai Yiru (CHN) (2001)	time	2.63	3.70	4.74	5.77	6.81	7.87	8.92	10.02	11.13	12.24		13.46	5 / 1			
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			3.14	3.15	3.32
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		8.12	8.10	7.68	
Shi Jiali (CHN) (1997)	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
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	
Wang Li (CHN) (1999)	time	2.67	3.75	4.80	5.87	6.94	7.99	9.06	10.13	11.28	12.41		13.65	3 / 3			
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
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	

Yu Jiaru (CHN) (1999)	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	
		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
Gong Qiudan (CHN) (2003)	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	
		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
Ge Ge (CHN) (2000)	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	
		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

Heat 2

date 25-Jun-21 wind -0.3 m/s CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Chen Jiamin (CHN) (1996)	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	
		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
Wang Dou (CHN) (1993)	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	
		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
Xia Sining (CHN) (2003)	time	2.74	3.84	4.90	5.95	7.04	8.10	9.19	10.26	11.38	12.50		13.75	6 / 3				
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			3.21	3.24	3.31	
		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		7.94	7.87	7.70
Lin Yuqian (CHN) (2003)	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	
		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
Liu Xinyu (CHN) (2002)	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	1.11	1.10	1.15	1.15	1.17	1.30			3.32	3.31	3.47	
		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
Lun Xinyu (CHN) (1998)	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	
		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

Heat 1

date 25-Jun-21 wind -0.3 m/s CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Wu Yanni (CHN) (1997)	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	3.15	
		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	8.10
Chen Yifeng (CHN) (1998)	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	3.29	
		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	7.75
Deng Xuelin (CHN) (1998)	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	
		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
Xaio Juxiu (CHN) (1998)	time	2.65	3.75	4.84	5.89	6.96	8.01	9.11	10.19	11.29	12.36		13.58	4 / 4				
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	
		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
Wei Yuhui (CHN) (2002)	time	2.77	3.90	5.02	6.12	7.22	8.33	9.44	10.58	11.74	12.96		14.31	8 / 5				
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	
		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
Yao Hui (CHN) (2000)	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	
		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
Zhuang Dongmei (CHN) (2001)	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	
		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

Heptathlon - Heat 3

date 24-Jun-21 wind 0.2 m/s CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Ren Shimei (CHN) (1996)	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	
		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
Wu Zheng (CHN) (2001)	time	2.75	3.90	5.04	6.16	7.29	8.39	9.52	10.71	11.89	13.09		14.44	5 / 2				

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
		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
Zhou Jingjing (CHN) (1998)	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
		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
Jin Donghua (CHN) (1999)	time	2.77	3.94	5.10	6.25	7.42	8.62	9.81	11.04	12.24	13.51			14.83	7 / 4		
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
		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
Yang Hua (CHN)	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
		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

Heptathlon - Heat 2

date 24-Jun-21 wind 0.6 m/s CAA Hurdle Development (2021)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wang Qingling (CHN) (1993)	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
		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
Shen Muhan (CHN) (1997)	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
		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
Yin Xinyi (CHN) (2000)	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
		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
Kong Rui (CHN) (2001)	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
		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
Du Yan (CHN) (2000)	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
		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
Sun Lan (CHN) (2002)	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
		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 1

date 24-Jun-21 wind 0.3 m/s CAA Hurdle Development (2021)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wang Meiqing (CHN) (1996)	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
		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
Zhang Xuhui (CHN) (2000)	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
		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
Gao Miao (CHN) (2001)	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
		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
Liu Jingyi (CHN) (2000)	time	2.83	3.97	5.12	6.27	7.42	8.56	9.72	10.91	12.11	13.36			14.75	5 / 4			
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
		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
Wang Huiqiong (CHN) (1990)	time	2.95	4.15	5.35	6.55	7.76	8.97	10.19	11.42	12.74	14.06			15.72	4 / 5			
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
		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
Liu Miao (CHN) (2003)	time	3.00	4.24	5.48	6.72	7.97	9.24	10.49	11.78	13.11	14.45			15.95	6 / 6			
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
		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

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

date 20-Jun-21 wind 0.8 m/s Henson (2021) - Athlete First: 2021 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
Harrison, Kendra (USA) (1992)	time	2.45	3.45	4.43	5.39	6.34	7.30	8.26	9.22	10.22	11.24			12.47	4 / 1			
reaction time	0.186	interval	1.00	0.98	0.96	0.95	0.96	0.96	0.96	0.96	1.00	1.02	1.23			2.94	2.87	2.98
		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
McNeal, Brianna (USA) (1991)	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

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
Clemons, Christina (USA) (1991) time	2.44	3.44	4.45	5.42	6.37	7.34	8.30	9.27	10.29	11.31		12.53	6 / 3			
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
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
Cunningham, Gabriele (USA) 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
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
Cockrell, Anna (USA) (1997) 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
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
Marshall, Tonea (USA) (1998) 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
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
Chadwick, Payton (USA) (1991) 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
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
Armstrong, Alia (USA) (2000) 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
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
Robinson, TeJyrica (USA) (1991) 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
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

date 20-Jun-21 wind 1.3 m/s

Henson (2021) - Athlete First: 2021 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
Harrison, Kendra (USA) (1992) time	2.43	3.46	4.44	5.40	6.36	7.32	8.27	9.25	10.23	11.26		12.50	5 / 1			
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
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
Cockrell, Anna (USA) (1997) 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
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
Chadwick, Payton (USA) (1991) 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
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
Robinson, TeJyrica (USA) (1991) 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
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
Jones, Rayniah (USA) (2001) time	2.43	3.45	4.47	5.47	6.43	7.40	8.40	9.40	10.40	11.46		12.68	6 / 5			
reaction time 0.141 interval		1.02	1.02	1.00	0.96	0.97	1.00	1.00	1.00	1.06	1.22			3.04	2.93	3.06
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
Brissett, Chanel (USA) (1999) time	2.47	3.50	4.53	5.53	6.50	7.47	8.47	9.45	10.45	11.50		12.71	8 / 6			
reaction time 0.192 interval		1.03	1.03	1.00	0.97	0.97	1.00	0.98	1.00	1.05	1.21			3.06	2.94	3.03
velocity	5.26	8.25	8.25	8.50	8.76	8.76	8.50	8.67	8.50	8.10	8.31	7.87		8.33	8.67	8.42
Claye, Queen (USA) (1988) 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
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
Stark, Grace (USA) (2001) 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	1.08	1.21			3.00	3.00	3.08
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

Semi Final 1

date 20-Jun-21 wind 1.2 m/s

Henson (2021) - Athlete First: 2021 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
Marshall, Tonea (USA) (1998) 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
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
Clemons, Christina (USA) (1991) time	2.41	3.43	4.41	5.37	6.33	7.28	8.24	9.23	10.23	11.26		12.51	3 / 2			
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
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
McNeal, Brianna (USA) (1991) 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
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

Cunningham, Gabriele (USA)	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
	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

Armstrong, Alia (USA) (2000)	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
	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

Brooks, Taliyah (USA) (1995)	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	1.08	1.24		2.97	2.95	3.08
	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

Nelvis, Sharika (USA) (1990)	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
	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

Castlin, Kristi (USA) (1988)	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	0.99	1.00	1.00	1.03	1.28		3.02	2.95	3.03	
	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

Britton, Evonne (USA) (1991)	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	1.03	1.03	1.05	1.32		3.04	3.00	3.11	
	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

Heat 4

date 19-Jun-21 wind 0.1 m/s Henson (2021) - Athlete First: 2021 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
McNeal, Brianna (USA) (1991)	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	1.00	1.00	1.00	1.24			2.95	2.88	3.00
	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

Cunningham, Gabriele (USA)	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	0.96	1.00	1.00	1.04	1.02	1.25	PB		2.99	2.94	3.06
	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

Heat 3

date 19-Jun-21 wind 1.0 m/s Henson (2021) - Athlete First: 2021 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
Cockrell, Anna (USA) (1997)	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	1.03	1.17			3.03	2.90	3.03
	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

Jones, Rayniah (USA) (2001)	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	1.03	1.21	PB		3.03	2.94	3.03
	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

Chadwick, Payton (USA) (1991)	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	0.96	1.00	1.00	1.00	1.23	PB		3.07	2.90	3.00
	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

Heat 2

date 19-Jun-21 wind 0.8 m/s Henson (2021) - Athlete First: 2021 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	
Brooks, Taliyah (USA) (1995)	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
	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	

Clemons, Christina (USA) (1991)	time	2.46	3.46	4.46	5.46	6.43	7.40	8.36	9.36	10.36	11.40		12.64	4 / 2			
	reaction time	0.143	interval	1.00	1.00	1.00	0.97	0.97	0.96	1.00	1.04	1.24			3.00	2.90	3.04
	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

Heat 1

date 19-Jun-21 wind -0.3 m/s Henson (2021) - Athlete First: 2021 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
Harrison, Kendra (USA) (1992)	time	2.56	3.58	4.54	5.50	6.46	7.42	8.38	9.36	10.36	11.39		12.49	2 / 1			
	reaction time	0.291	interval	1.02	0.96	0.96	0.96	0.96	0.98	1.00	1.03	1.10			2.94	2.88	3.01
	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

2020 Chinese Olympic Trials (Shaoxing, CHN)**FINAL**

date 12-Jun-21 wind 1.0 m/s CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Yanni (CHN) (1997)	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	1.02	1.04	1.06	1.14	PB		3.04	3.02	3.12
	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	8.17

Chen Jiamin (CHN) (1996)	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	1.00	1.04	1.03	1.05	1.06	1.14	PB		3.07	3.06	3.14
	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

Shi Jiali (CHN) (1997)	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
		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
You Na (CHN) (1993)	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
		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
Chen Yinfeng (CHN) (1998)	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	3.25
		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	7.85
Yu Jiaru (CHN) (1999)	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
		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
Dai Yiru (CHN) (2001)	time	2.62	3.68	4.74	5.78	6.82	7.87	8.90	10.00	11.12	12.28		13.55	8 / 7			
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			3.16	3.12	3.38
		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	8.07	8.17	7.54

Heat 2

	date	12-Jun-21	wind	2.2 m/s														CAA Hurdle Development (2021)		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Lin Yuwei (CHN) (1999)	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			
		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			
Chen Jiamin (CHN) (1996)	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			
		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			
Shi Jiali (CHN) (1997)	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			
		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			
Yu Jiaru (CHN) (1999)	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			
		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			
Xia Sining (CHN) (2003)	time	2.62	3.70	4.77	5.86	6.92	7.99	9.05	10.13	11.23	12.34		13.67	6 / 5						
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			3.24	3.19	3.29			
		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	7.87	7.99	7.75			

Heat 1

	date	12-Jun-21	wind	-0.2 m/s														CAA Hurdle Development (2021)		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Wu Yanni (CHN) (1997)	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	3.25			
		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	7.85			
You Na (CHN) (1993)	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			
		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			
Dai Yiru (CHN) (2001)	time	2.48	3.55	4.63	5.67	6.74	7.76	8.86	9.96	11.06	12.20		13.55	5 / 3						
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			3.19	3.19	3.34			
		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	7.99	7.99	7.63			
Chen Yinfeng (CHN) (1998)	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	3.31			
		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	7.70			
Luo Xianyan (CHN) (1997)	time	2.57	3.65	4.74	5.77	6.84	7.92	8.99	10.08	11.19	12.31		13.69	3 / 5						
reaction time	0.140	interval	1.08	1.09	1.03	1.07	1.08	1.07	1.09	1.11	1.12	1.38			3.20	3.22	3.32			
		velocity	5.06	7.87	7.80	8.25	7.94	7.87	7.94	7.80	7.66	7.59	7.28	7.30	7.97	7.92	7.68			
Lin Yuqian (CHN) (2003)	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			
		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			

2021 Japanese Multi-Event National Championships (Nagano, JPN)

Heptathlon - Heat 3

	date	12-Jun-21	wind	1.4 m/s														Matsubayashi (2021) - 100m hurdles race analysis of heptathletes in the 2021 season		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Yamasaki, Yuki (JPN) (1995)	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	3.31			
		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	7.70			
Odama, Karin (JPN) (1999)	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	1.08	1.13	1.24			3.24	3.18	3.28	
		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
Rito, Nonoka (JPN) (1995)	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	
		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

2021 NCAA Championships (Eugene, OR) (TV Analysis)

FINAL

	date	12-Jun-21	wind	0.4 m/s	Henson (2021) - Athlete First: 2021 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
Cockrell, Anna (USA) (1997)	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
		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
Jones, Rayniah (USA) (2001)	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
		velocity	5.20	8.17	8.50	8.50	8.50	8.42	8.59	8.25	8.17	8.31	7.80			8.39	8.47	8.33
Nugent, Ackera (JAM) (2002)	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
		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
Stark, Grace (USA) (2001)	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
		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
Akobundu, Madeleine (USA) (1999)	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
		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
Russell, Masai (USA) (2000)	time	2.52	3.60	4.64	5.67	6.71	7.67	8.67	9.71	10.71	11.71			12.97	9 / 6			
reaction time	0.233	interval	1.08	1.04	1.03	1.04	0.96	1.00	1.04	1.00	1.00	1.26				3.15	3.00	3.04
		velocity	5.16	7.87	8.17	8.25	8.17	8.85	8.50	8.17	8.50	8.50	7.98	7.71		8.10	8.50	8.39
Rothwell, Cha'mia (USA) (1999)	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
		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
Robinson, TeJyrica (USA) (1999)	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
		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

Semi Final 2

	date	10-Jun-21	wind	-0.5 m/s	Henson (2021) - Athlete First: 2021 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
Marshall, Toneya (USA) (1998)	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
		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
Cockrell, Anna (USA) (1997)	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
		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

2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)

FINAL

	date	10-Jun-21	wind	-0.8 m/s	Henson (2021) - Athlete First: 2021 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
Camacho-Quinn, Jasmine (PU) (1999)	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
		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
Charlton, Devynne (BAH) (1999)	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
		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
Herman, Elvira (BLR) (1997)	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
		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
Tapper, Megan (JAM) (1994)	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
		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
Bogliolo, Luminosa (ITA) (1999)	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
		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
Skrzyszowska, Pia (POL) (2001)	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	
		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
Seymour, Pedrya (BAH) (1995)	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	
		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
di Lazzaro, Elisa Maria (ITA) (1)	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		
		velocity	5.12	8.17	8.17	8.50	8.67								8.28		

2021 Fanny Blankers Koen Games (Hengelo, NED) (TV Analysis)

FINAL

date	06-Jun-21	wind	0.5 m/s	Henson (2021) - Athlete First: 2021 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
Camacho-Quinn, Jasmine (PU)	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
	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

2021 Fuse Sprint (Tottori, JPN)

FINAL

date	06-Jun-21	wind	1.8 m/s	Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Aoki, Masumi (JPN) (1994)	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	0.131	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
		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
Tereda, Asuka (JPN) (1990)	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
		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
Suzuki, Miho (JPN) (1996)	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
		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
Kimura, Ayako (JPN) (1988)	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
		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
Kiyoyama, Chisato (JPN) (1999)	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			
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
		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
Okubo, Yuri (JPN) (1997)	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
		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
Fujiwara, Miku (JPN) (1992)	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
		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
Shimura, Hitomi (JPN) (1990)	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
		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

2021 Michitaka Kinami Memorial (Osaka, JPN)

FINAL

date	01-Jun-21	wind	0.3 m/s	Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tereda, Asuka (JPN) (1990)	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
		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
Suzuki, Miho (JPN) (1996)	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	=PB		3.12	3.05	3.15
		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
Tanaka, Yumi (JPN) (1998)	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
		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
Kimura, Ayako (JPN) (1988)	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
		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
Fujiwara, Miku (JPN) (1992)	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
		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

Kiyoyama, Chisato (JPN) (199)	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													3.15	3.11	3.21
	interval		1.09	1.03	1.03	1.03	1.03	1.05	1.06	1.06	1.09	1.18			8.10	8.20	7.94
	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				
Nakajima, Hitomi (JPN) (1995)	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													3.16	3.15	3.24
	interval		1.06	1.06	1.04	1.03	1.04	1.08	1.08	1.07	1.09	1.18			8.07	8.10	7.87
	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				
Tanaka, Kiyono (JPN) (2002)	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													3.18	3.17	3.28
	interval		1.08	1.04	1.06	1.04	1.07	1.06	1.09	1.09	1.10	1.22	PB		8.02	8.04	7.77
	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				

Heat 1

date	01-Jun-21	wind	0.6 m/s	Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tereda, Asuka (JPN) (1990)	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													3.03	2.99	3.08
	interval		1.05	0.99	0.99	1.00	1.00	0.99	1.02	1.01	1.05	1.13	NR PB		8.42	8.53	8.28
	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				

2021 Shimane High School Championships (Izumo, JPN)

FINAL

date	30-May-21	wind	1.7 m/s	Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
福本 智帆	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														3.49	3.51	3.64
	interval		1.15	1.19	1.15	1.15	1.18	1.18	1.19	1.21	1.24	1.32			7.31	7.26	7.01
	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				
松原 しほり	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														3.55	3.61	3.85
	interval		1.20	1.16	1.19	1.18	1.22	1.21	1.29	1.26	1.30	1.39			7.18	7.06	6.62
	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				
石橋 望美	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														3.70	3.75	3.97
	interval		1.23	1.25	1.22	1.25	1.23	1.27	1.30	1.33	1.34	1.38			6.89	6.80	6.42
	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				
松本 春佳	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														3.69	3.71	3.94
	interval		1.24	1.23	1.22	1.23	1.25	1.23	1.30	1.30	1.34	1.44			6.91	6.87	6.47
	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				
大崎 琴葉	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														3.77	3.75	3.93
	interval		1.25	1.25	1.27	1.23	1.27	1.25	1.30	1.31	1.32	1.40			6.76	6.80	6.49
	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				
松浦 ひか莉	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														3.74	3.85	4.21
	interval		1.24	1.23	1.27	1.26	1.29	1.30	1.36	1.40	1.45	1.50			6.82	6.62	6.06
	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				
代 悠乃	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														3.77	3.91	4.34
	interval		1.22	1.26	1.29	1.26	1.34	1.31	1.35	1.39	1.60	1.52			6.76	6.52	5.88
	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				
藤原 未歩	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														4.17	4.33	4.37
	interval		1.37	1.38	1.42	1.43	1.42	1.48	1.45	1.45	1.47	1.52			6.12	5.89	5.84
	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				

2021 NCAA Championships Preliminary East Round (Jacksonville, FL) (TV Analysis)

Quarter Final 1

date	29-May-21	wind	0.8 m/s	Henson (2021) - Athlete First: 2021 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
Marshall, Toney (USA) (1998)	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														2.92	2.91	3.01
	interval		1.00	0.96	0.96	0.98	0.97	0.96	0.97	1.02	1.02	1.20	PB		8.73	8.76	8.47
	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				
Salmon, Paula (USA) (1999)	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														2.96	3.02	3.13
	interval		1.00	0.98	0.98	0.97	1.03	1.02	1.02	1.06	1.05	1.21	PB		8.61	8.44	8.15
	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				
Rothwell, Cha'mia (USA) (199)	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														3.10	3.02	3.08
	interval		1.06	1.04	1.00	0.98	1.02	1.02	1.01	1.03	1.04	1.18	PB		8.23	8.44	8.28
	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				

2021 Müller Grand Prix (Gateshead, GBR) (TV Analysis)

FINAL

date	23-May-21	wind	-3.9 m/s	Henson (2021) - Athlete First: 2021 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
Sember, Cindy (GBR) (1994)	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													3.20	3.06	3.20
	interval		1.10	1.06	1.04	1.02	1.02	1.02	1.04	1.08	1.08	1.26			7.97	8.33	7.97
	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				
Kozák, Luca (HUN) (1996)	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	
		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
Bogliolo, Luminosa (ITA) (199)	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	
		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
Porter, Tiffany (GBR) (1987)	time	2.56	3.62	4.70	5.74	6.78	7.80	8.84	9.94	11.02	12.16		13.50	4 / 4			
reaction time	0.131	interval	1.06	1.08	1.04	1.04	1.02	1.04	1.10	1.08	1.14	1.34		3.18	3.10	3.32	
		velocity	5.08	8.02	7.87	8.17	8.17	8.33	8.17	7.73	7.87	7.46	7.50	7.41	8.02	8.23	7.68
Tapper, Megan (JAM) (1994)	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			
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	
		velocity	5.00	8.17	8.02	8.02	8.02	8.02	7.87	7.87	7.73	7.79	7.39	8.07	7.97	7.77	
Sedney, Zoë (NED) (2001)	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	
		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
Seymour, Pedrya (BAH) (1995)	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	1.10	1.10	1.29		3.24	3.16	3.24	
		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
Valette, Laura (FRA) (1997)	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	
		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

2021 Chinese East Region Athletics Meeting (Fuzhou, CHN)

FINAL

		date	23-May-21	wind	-0.5 m/s												CAA Hurdle Development (2021)		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lin Yuwei (CHN) (1999)	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		
		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		
Luo Xianyan (CHN) (1997)	time	2.70	3.78	4.85	5.90	6.94	7.99	9.04	10.10	11.16	12.26		13.53	5 / 2					
reaction time	0.181	interval	1.08	1.07	1.05	1.04	1.05	1.05	1.06	1.06	1.10	1.27		3.20	3.14	3.22			
		velocity	4.81	7.87	7.94	8.10	8.17	8.10	8.10	8.02	8.02	7.73	7.91	7.39	7.97	8.12	7.92		
Zheng Ninali (CHN) (1998)	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			
		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		
Yuxi Lin (CHN) (2003)	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	0.242	interval	1.10	1.07	1.05	1.04	1.07	1.08	1.08	1.10	1.10	1.21	PB		3.22	3.19	3.28		
		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		
Yu Jiaru (CHN) (1999)	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			
		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		
Wang Li (CHN) (1999)	time	2.71	3.80	4.85	5.93	6.98	8.05	9.12	10.25	11.35	12.49		13.77	8 / 6					
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			
		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		
Qin Hongyan (CHN) (2001)	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		
		velocity	4.76	7.66	7.80	7.87	7.87	7.73	7.73	7.59	7.33	7.85	7.18	7.77	7.82	7.54			

2021 Philippe Cup Athletics Invitational (Wuhan, CHN)

FINAL

		date	19-May-21	wind	0.2 m/s												CAA Hurdle Development (2021)		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Xia Sining (CHN) (2003)	time	2.75	3.85	4.91	5.97	7.00	8.04	9.09	10.16	11.21	12.31		13.53		7 / 1				
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		3.22	3.12	3.22		
		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	7.92	8.17	7.92		
Shi Jiali (CHN) (1997)	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			
		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		
Lin Yuqian (CHN) (2003)	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		
		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		
You Na (CHN) (1993)	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			
		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	7.75	7.97	7.73		

Yin Xiaoxia (CHN) (2000)	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	
		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
Zhong Xiaoli (CHN) 2003	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	
		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
Liu Sihui (CHN)	time	2.88	4.08	5.26	6.47	7.67	8.85	10.09	11.34	12.59	13.89		15.25	3 / 7				
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	
		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

2021 Happy Chengdu Meeting (Chengdu, CHN)**FINAL**

date 15-May-21 wind -0.1 m/s CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Wang Dou (CHN) (1993)	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	
		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
Wu Yanni (CHN) (1997)	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	
		velocity	4.81	8.17	8.10	8.17	8.50	8.17	8.33	8.17	8.10	8.59	7.58		8.15	8.33	8.15	

2021 USATF Golden Games (Walnut, CA) (TV Analysis)**FINAL**

date 09-May-21 wind 2.0 m/s Henson (2021) - Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Harrison, Kendra (USA) (1992)	time	2.50	3.50	4.46	5.41	6.36	7.31	8.29	9.26	10.24	11.26		12.48	4 / 1				
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	
		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
Sember, Cindy (GBR) (1994)	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	
		velocity	5.14	8.42	8.59	8.76	8.76	8.85	8.85	8.59	8.50	8.66	7.98		8.59	8.82	8.56	
Amusan, Tobi (NGR) (1997)	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	
		velocity	5.14	8.17	8.50	8.76	8.85	8.76	8.59	8.59	8.50	8.59	7.93		8.47	8.73	8.56	
Charlton, Devynne (BAH) (1995)	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	
		velocity	5.35	8.25	8.67	8.67	8.85	8.67	8.67	8.33	8.33	8.04	7.93		8.53	8.73	8.44	
McLaughlin, Sydney (USA) (1996)	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	1.15	PB		3.04	2.93	3.03	
		velocity	5.20	8.33	8.33	8.50	8.67	8.67	8.76	8.50	8.50	8.74	7.91		8.39	8.70	8.42	
Porter, Tiffany (GBR) (1987)	time	2.47	3.47	4.45	5.43	6.40	7.37	8.37	9.35	10.40	11.44		12.69	5 / 6				
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	
		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

2021 Ready Steady Tokyo (Tokyo, JPN)**FINAL**

date 09-May-21 wind -0.8 m/s Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Tereda, Asuka (JPN) (1990)	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	
		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
Aoki, Masumi (JPN) (1994)	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	0.129	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	
		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
Kimura, Ayako (JPN) (1988)	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	
		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
Suzuki, Miho (JPN) (1996)	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	
		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
Shimano, Mao (JPN) (2001)	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	
		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
Okubo, Yuri (JPN) (1997)	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	

	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
Shimura, Hitomi (JPN) (1990)	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
	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
Takeuchi, Maya (JPN) (1998)	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
	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
Tanaka, Hikari (JPN) (1998)	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	1.05	1.06	1.08	1.08	1.08	1.14	1.46		3.20	3.19	3.30
	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

2021 Central China Athletics Meeting (Ji'an, CHN)**FINAL**

date 11-May-21 wind -0.6 m/s CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
You Na (CHN) (1993)	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
	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
Xiao Juxiu (CHN) (1998)	time	2.72	3.81	4.89	5.99	7.04	8.11	9.18	10.27	11.37	12.49		13.70	4 / 2			
	reaction time	interval	1.09	1.08	1.10	1.05	1.07	1.07	1.09	1.10	1.12	1.21			3.27	3.19	3.31
	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		7.80	7.99	7.70
Shi Jiali (CHN) (1997)	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
	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
Yin Xiaoxia (CHN) (2000)	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
	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
Liu Jingyi (CHN) (2000)	time	2.87	4.00	5.19	6.34	7.52	8.70	9.89	11.11	12.34	13.61		15.01	8 / 5			
	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
	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
Deng Mengying (CHN) (2004)	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
	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
Wang Yingjie (CHN) (2003)	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					
	velocity	4.38	6.54						5.29	5.99	5.86	6.74	6.00				

2021 Mikio Oda Memorial (Hiroshima, JPN)**FINAL**

date 29-Apr-21 wind 1.6 m/s Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tereda, Asuka (JPN) (1990)	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
	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
Suzuki, Miho (JPN) (1996)	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
	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
Okubo, Yuri (JPN) (1997)	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
	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
Aoki, Masumi (JPN) (1994)	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
	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
Shimura, Hitomi (JPN) (1990)	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
	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
Shimano, Mao (JPN) (2001)	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
	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
Takeuchi, Maya (JPN) (1998)	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
	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

Tanaka, Hikari (JPN) (1998)	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	1.06	1.07	1.09	1.09	1.10	1.22			3.19	3.19	3.28
	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

2021 USATF Grand Prix (Eugene, OR) (TV Analysis)**FINAL**

date 24-Apr-21 wind -0.3 m/s Henson (2021) - Athlete First: 2021 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
Camacho-Quinn, Jasmine (PU)	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
	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
Anderson, Britany (JAM) (200)	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
	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
Brooks, Taliyah (USA) (1995)	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
	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
McLaughlin, Sydney (USA) (1)	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
	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

2021 Tom Jones Invitational (Gainesville, FL) (TV Analysis)**FINAL**

date 17-Apr-21 wind 1.7 m/s Henson (2021) - Athlete First: 2021 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
Camacho-Quinn, Jasmine (PU)	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
	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

2021 Bryan Clay Invitational (Azusa, CA) (TV Analysis)**FINAL**

date 16-Apr-21 wind 0.2 m/s Henson (2021) - Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (1)	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
	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

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

date 24-Apr-21 wind -0.8 m/s CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lin Yuwei (CHN) (1999)	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
	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
Dai Yiru (CHN) (2001)	time	2.60	3.64	4.67	5.69	6.71	7.72	8.76	9.81	10.86	11.96		13.13	5 / 2			
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		3.09	3.07	3.20
	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		8.25	8.31	7.97
Chen Jiamin (CHN) (1996)	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
	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
Deng Xuelin (CHN) (1998)	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
	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
You Na (CHN) (1993)	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
	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
Yu Jiaru (CHN) (1999)	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
	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
Luo Xianyan (CHN) (1997)	time	2.69	3.80	4.90	5.95	7.02	8.07	9.16	10.23	11.31	12.40		13.63	3 / 7			
reaction time 0.178	interval		1.11	1.10	1.05	1.07	1.05	1.09	1.07	1.08	1.09	1.23			3.26	3.21	3.24
	velocity	4.83	7.66	7.73	8.10	7.94	8.10	7.80	7.94	7.87	7.80	8.17	7.34		7.82	7.94	7.87
Shi Jiali (CHN) (1997)	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
	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

date 24-Apr-21 wind 0.6 m/s CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shi Jiali (CHN) (1997)	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
		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
You Na (CHN) (1993)		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
		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
Chen Jiamin (CHN) (1996)		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
		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
Luo Xianyan (CHN) (1997)		time	2.71	3.84	4.92	5.99	7.04	8.11	9.17	10.22	11.30	12.39		13.67	8 / 4		
reaction time	0.192	interval	1.13	1.08	1.07	1.05	1.07	1.06	1.05	1.08	1.09	1.28			3.28	3.18	3.22
		velocity	4.80	7.52	7.87	7.94	8.10	7.94	8.02	8.10	7.87	7.80	7.85	7.32	7.77	8.02	7.92
Jiang Liyunzhe (CHN) (2002)		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
		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
Zhang Yan (CHN) (2001)		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
		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

Heat 1

	date	24-Apr-21	wind	0.5 m/s	CAA Hurdle Development (2021)													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Deng Xuelin (CHN) (1998)	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
		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
Dai Yiru (CHN) (2001)	time		2.65	3.72	4.76	5.81	6.85	7.89	8.96	10.08	11.16	12.31		13.54	6 / 2			
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			3.16	3.15	3.35
		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		8.07	8.10	7.61
Yu Jiaru (CHN) (1999)	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
		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
Lin Yuwei (CHN) (1999)	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
		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
Liu Xinyu (CHN) (2002)	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
		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

2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)

FINAL

	date	08-Apr-21	wind	-0.1 m/s	CAA Hurdle Development (2021)													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lin Yuwei (CHN) (1999)	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		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
		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
Wang Dou (CHN) (1993)	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			
reaction time		interval		1.08	1.04	1.04	1.04	1.04	1.04	1.06	1.06	1.04	1.11			3.16	3.12	3.16
		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
Luo Xianyan (CHN) (1997)	time		2.72	3.82	4.88	5.94	7.00	8.06	9.12	10.20	11.28	12.40		13.60	6 / 3			
reaction time		interval		1.10	1.06	1.06	1.06	1.06	1.06	1.08	1.08	1.12	1.20			3.22	3.18	3.28
		velocity	4.78	7.73	8.02	8.02	8.02	8.02	8.02	7.87	7.87	7.59	8.38	7.35		7.92	8.02	7.77
Jiang Liyunzhe (CHN) (2002)	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
		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
Yu Jiaru (CHN) (1999)	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
		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
Wang Li (CHN) (1999)	time		2.72	3.80	4.88	6.00	7.08	8.20	9.32	10.44	11.60	12.76		14.05	5 / 6			
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
		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
Qin Hongyan (CHN) (2001)	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
		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

2021 National Grand Prix (Chengdu, CHN)

FINAL

		date	02-Apr-21	wind	0.1 m/s										CAA Hurdle Development (2021)					
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Chen Jiamin (CHN) (1996)	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
			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
Wu Yanni (CHN) (1997)	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
			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
Dai Yiru (CHN) (2001)	time				2.64	3.68	4.72	5.72	6.76	7.78	8.80	9.86	10.96	12.10		13.37	3 / 3			
	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			3.08	3.08	3.30
			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		8.28	8.28	7.73
You Na (CHN) (1993)	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
			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
Shi Jiali (CHN) (1997)	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
			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
Xiao Juxiu (CHN) (1998)	time				2.69	3.82	4.92	6.00	7.08	8.17	9.27	10.36	11.50	12.62		13.87	7 / 6			
	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			3.31	3.27	3.35
			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		7.70	7.80	7.61
Ren Shimei (CHN) (1996)	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
			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
Chen Yuyang (CHN) (2002)	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
			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

		date	02-Apr-21	wind	1.0 m/s										CAA Hurdle Development (2021)					
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
You Na (CHN) (1993)	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
			velocity		4.78	7.73	8.17	8.17	7.87	8.02	8.17	8.02	8.17	7.87	7.87	8.38	7.41		8.02	8.02
Dai Yiru (CHN) (2001)	time				2.64	3.72	4.78	5.82	6.90	7.96	9.02	10.08	11.18	12.26		13.51	4 / 2			
	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			3.18	3.20	3.24
			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		8.02	7.97	7.87
Chen Yuyang (CHN) (2002)	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
			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
Wei Yuhui (CHN) (2002)	time				2.76	3.88	4.98	6.08	7.16	8.26	9.36	10.48	11.64	12.80		14.13	6 / 4			
	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
			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
Liu Xinyao (CHN) (2002)	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
			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
Zhong Xiaoli (CHN) (2003)	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
			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 2

		date	02-Apr-21	wind	0.4 m/s										CAA Hurdle Development (2021)					
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shi Jiali (CHN) (1997)	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
			velocity		4.85	7.73	7.87	8.02	8.02	8.02	8.02	8.02	7.87	7.73	7.59	7.98	7.32		7.87	8.02
Ren Shimei (CHN) (1996)	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
			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
Gong Qiudan (CHN) (2003)	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
			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
Leng Xiping (CHN) (2001)	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			

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

reaction time	0.449	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	
		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
Li Shiyu (CHN) (2005)		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
		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

Heat 1

date 02-Apr-21 wind 0.4 m/s

CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Wu Yanni (CHN) (1997)	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	1.06	1.06	1.12	1.30			3.14	3.06	3.24	
		velocity	4.85	8.02	8.02	8.33	8.33	8.33	8.02	8.02	7.59	7.73	7.45		8.12	8.33	7.87	
Xiao Juxiu (CHN) (1998)	time	2.70	3.82	4.92	6.00	7.08	8.16	9.24	10.30	11.42	12.54		13.79	2 / 2				
reaction time	0.175	interval		1.12	1.10	1.08	1.08	1.08	1.06	1.12	1.12	1.25			3.30	3.24	3.30	
		velocity	4.81	7.59	7.73	7.87	7.87	7.87	8.02	7.59	7.59	8.04	7.25		7.73	7.87	7.73	
Chen Jiamin (CHN) (1996)	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	1.28			3.18	3.28	3.40	
		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
Kong Rui (CHN) (2001)	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	
		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
Chen Xianying (CHN) (2003)	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	
		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
Zhong Xiaoli (CHN) (2003)	time	2.78	4.38											dnf	7 / --			
reaction time	0.247	interval		1.60														
		velocity	4.68	5.31														

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

date 18-Mar-21

CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Dai Yiru (CHN) (2001)	time	2.60	3.65	4.71	5.74	6.75							8.13	4 / 1			
reaction time	0.161	interval		1.05	1.06	1.03	1.01					1.38	PB		3.14		
		velocity	5.00	8.10	8.02	8.25	8.42					9.42	7.38		8.12		
Chen Jiamin (CHN) (1996)	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		
Luo Xianyan (CHN) (1997)	time	2.66	3.74	4.79	5.84	6.87							8.34	6 / 3			
reaction time	0.168	interval		1.08	1.05	1.05	1.03					1.47	PB		3.18		
		velocity	4.89	7.87	8.10	8.10	8.25					8.84	7.19		8.02		
Wang Qingling (CHN) (1993)	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		
Lun Xinyu (CHN) (1998)	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		
Shen Muhan (CHN) (1997)	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		

2021 National Indoor Grand Prix (Chengdu, CHN)**A FINAL**

date 13-Mar-21

CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lin Yuwei (CHN) (1999)	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		
Jiang Liyunzhe (CHN) (2002)	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		
Chen Yuyang (CHN) (2002)	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		
Gong Qiudan (CHN) (2003)	time	2.72	3.88	5.04	6.16	7.28							8.76	1 / 4			

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
Chen Xianying (CHN) (2003)	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

B FINAL

date 13-Mar-21

CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Yanni (CHN) (1997)	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	
Chen Yinfeng (CHN) (1998)	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	
Luo Xianyan (CHN) (1997)	time	2.69	3.78	4.86	5.90	6.94							8.38	3 / 3			
reaction time	0.171	interval	1.09	1.08	1.04	1.04						1.44				3.21	
		velocity	4.83	7.80	7.87	8.17	8.17					9.03	7.16			7.94	
Xiao Juxiu (CHN) (1998)	time	2.68	3.78	4.85	5.90	6.96							8.38	5 / 4			
reaction time	0.151	interval	1.10	1.07	1.05	1.06						1.42	PB			3.22	
		velocity	4.85	7.73	7.94	8.10	8.02					9.15	7.16			7.92	
Wei Yuhui (CHN) (2002)	time	2.75	3.85	4.94	6.04	7.14							8.68	2 / 5			
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

date 13-Mar-21

CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Yanni (CHN) (1997)	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	
Wei Yuhui (CHN) (2002)	time	2.77	3.87	4.95	6.02	7.09							8.64	4 / 2			
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	
Lin Yuwei (CHN) (1999)	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	
Wu Zheng (CHN) (2001)	time	2.73	3.87	4.99	6.09	7.22							8.74	1 / 4			
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	
Li Xiangrong (CHN) (2002)	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	
Liu Miao (CHN) (2003)	time	3.00	4.27	5.52	6.77	8.04							9.75	2 / 6			
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	

Heat 2

date 13-Mar-21

CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lou Xianyan (CHN) (1997)	time	2.72	3.82	4.89	5.94	6.99							8.45	4 / 1			
reaction time	0.174	interval	1.10	1.07	1.05	1.05						1.46				3.22	
		velocity	4.78	7.73	7.94	8.10	8.10					8.90	7.10			7.92	
Zhong Xiaoli (CHN) (2003)	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	PB			3.28	
		velocity	4.74	7.66	7.80	7.87	7.80					8.78	6.98			7.77	
Chen Xianying (CHN) (2003)	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	
Yin Xiaoxia (CHN) (2000)	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	
Deng Mengying (CHN) (2004)	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	

Liu Xinyao (CHN) (2003)	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	

Heat 1

date 13-Mar-21

CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Xiao Juxiu (CHN) (1998)	time	2.72	3.85	4.93	5.99	7.04							8.47	3 / 1			
	reaction time	0.180	interval	1.13	1.08	1.06	1.05					1.43			3.27		
			velocity	4.78	7.52	7.87	8.02	8.10				9.09	7.08		7.80		
Chen Yinfeng (CHN) (1998)	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		
Jiang Liyunzhe (CHN) (2002)	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		
Chen Yuyang (CHN) (2002)	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		
Gong Qiudan (CHN) (2003)	time	2.77	3.90	5.05	6.16	7.27							8.76	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		
Kong Rui (CHN) (2001)	time	2.92	4.09	5.27	6.42	7.59							9.12	4 / 6			
	reaction time	0.211	interval	1.17	1.18	1.15	1.17					1.53	PB		3.50		
			velocity	4.45	7.26	7.20	7.39	7.26				8.50	6.58		7.29		

2021 European Indoor Championships (Toruń, POL) (TV Analysis)**FINAL**

date 07-Mar-21

Henson (2021) - Athlete First: 2021 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
Visser, Nadine (NED) (1995)	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		
Sember, Cindy (GBR) (1994)	time	2.48	3.54	4.52	5.48	6.44							7.89	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		
Porter, Tiffany (GBR) (1987)	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		
Neziri, Nooralotta (FIN) (1992)	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		
Skrzyszowska, Pia (POL) (2001)	time	2.48	3.54	4.58	5.58	6.56							7.95	4 / 5			
	reaction time	0.147	interval	1.06	1.04	0.98						1.39			3.10		
			velocity	5.24	8.02	8.17	8.50	8.67				9.35	7.55		8.23		
Bogliolo, Luminosa (ITA) (199)	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		
Sedney, Zoë (NED) (2001)	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		
Kozák, Luca (HUN) (1996)	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		

2020 Michitaka Kinami Memorial (Osaka, JPN)**FINAL**

date 24-Oct-20

wind -1.4 m/s

Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Shimura, Hitomi (JPN) (1990)	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	
			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
Fujimori, Nana (JPN) (1997)	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	
			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

Aoki, Masumi (JPN) (1994)	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
	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
Kanai, Marumi (JPN) (1997)	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	3.29	3.30
	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	7.75	7.73
Fujiwara, Miku (JPN) (1992)	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
	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
Suzuki, Miho (JPN) (1996)	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
	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
Nakajima, Hitomi (JPN) (1995)	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
	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
Soma, Eriko (JPN) (1991)	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
	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

2020 Japanese National Championships (Niigata, JPN)

FINAL

		date	03-Oct-20	wind	-0.1 m/s	<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Aoki, Masumi (JPN) (1994)	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	1.04	1.07	1.13	PB		3.08	3.08	3.15
	velocity		5.04	8.10	8.33	8.42	8.25	8.33	8.25	8.17	8.17	8.17	7.94	8.89	7.68		8.28	8.28	8.10
Tereda, Asuka (JPN) (1990)	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
	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
Fujimori, Nana (JPN) (1997)	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
	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
Tanaka, Yumi (JPN) (1998)	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	1.05	1.07	1.11	1.24			3.13	3.13	3.23
	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
Suzuki, Miho (JPN) (1996)	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
	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
Shimura, Hitomi (JPN) (1990)	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
	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
Takeuchi, Maya (JPN) (1998)	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
	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
Fujiwara, Miku (JPN) (1992)	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
	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

2020 Japanese Multi-Event National Championships (Nagano, JPN)

Heptathlon - Heat 3

		date	26-Sep-20	wind	0.1 m/s	<i>Matsubayashi (2020) - research on athlete performance and technique- 2020 data book</i>													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hemphill, Megu (JPN) (1996)	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
	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
Odama, Karin (JPN) (1999)	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
	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
Yamasaki, Yuki (JPN) (1995)	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	3.40
	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	7.50

2020 Doha Diamond League (Doha, QAT) (TV Analysis)

FINAL

		date	25-Sep-20		wind		1.1 m/s		Henson (2020) - Athlete First: 2020 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
Chadwick, Payton (USA) (1991)	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
			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
Brooks, Taliyah (USA) (1995)	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
			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
Ofili, Cindy (GBR) (1994)	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
			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
Wojtunik, Klaudia (POL) (1999)	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
			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
Sedney, Zoë (NED) (2001)	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	
			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
Graversgaard, Mette (DEN) (1991)	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
			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
Lukic, Anja (SRB) (1999)	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
			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
Thompson, Yanique (JAM) (1991)	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
			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

2020 All Japan Corporate Championships (Kumagaya, JPN)

FINAL

		date	20-Sep-20		wind		0.0 m/s		Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers									
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Aoki, Masumi (JPN) (1994)	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
			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
Suzuki, Miho (JPN) (1996)	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
			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
Shimura, Hitomi (JPN) (1990)	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
			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
Fujimori, Nana (JPN) (1997)	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
			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
Fujiwara, Miku (JPN) (1992)	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
			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
Kanai, Marumi (JPN) (1997)	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	3.22	3.34
			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	7.92
Nakajima, Hitomi (JPN) (1995)	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
			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
Omura, Mika (JPN) (1995)	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
			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

2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)

FINAL

		date	17-Sep-20		wind		0.1 m/s		Henson (2020) - Athlete First: 2020 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
Visser, Nadine (NED) (1995)	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
			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

Bogliolo, Luminosa (ITA) (199)	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	1.00	1.02	1.02	1.04	1.19			3.02	2.96	3.08
	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
Chadwick, Payton (USA) (199)	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
	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
Ofili, Cindy (GBR) (1994)	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
	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
Brooks, Taliyah (USA) (1995)	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
	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
di Lazzaro, Elisa Maria (ITA) (1)	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
	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
Samba-Mayela, Cyréna (FRA)	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
	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
Graversgaard, Mette (DEN) (1)	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
	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
Korte, Annimari (FIN) (1988)	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	0.143 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
	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

2020 Galà dei Castelli (Bellinzona, SUI) (TV Analysis)**FINAL**

date 15-Sep-20 wind 0.0 m/s

Henson (2020) - Athlete First: 2020 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
Visser, Nadine (NED) (1995)	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
	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
Bogliolo, Luminosa (ITA) (199)	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	1.04	1.04	1.18				2.98	2.98	3.08
	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
Harala, Lotta (FIN) (1992)	time	2.56	3.60	4.64	5.66	6.66	7.68	8.70	9.74	10.80	11.88		13.19	6 / 3				
reaction time	interval		1.04	1.04	1.02	1.00	1.02	1.02	1.04	1.06	1.08	1.31				3.10	3.04	3.18
	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			8.23	8.39	8.02
Carmassi, Giada (ITA) (1994)	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
	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
Kambundji, Ditaji (SUI) (2002)	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	3.10	3.26
	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	8.23	7.82
Miteva, Elena (BUL) (1992)	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
	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
Mayer, Isabel (GER) (1993)	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
	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
Piffaretti, Emma (SUI) (2002)	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
	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

2020 Chinese National Championships (Shaoxing, CHN)**FINAL**

date 15-Sep-20 wind -0.4 m/s

CAA Hurdle Development (2020)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Yanni (CHN) (1997)	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
	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
Lin Yuwei (CHN) (1999)	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

	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		
Wang Dou (CHN) (1993)	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					
	reaction time	0.184	interval	1.07	1.04	1.05	1.04	1.06	1.06	1.08	1.09	1.13			3.16	3.16	3.23		
	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		8.07	8.07	7.89		
You Na (CHN) (1993)	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		
	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		
Jiang Liyunzhe (CHN) (2002)	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	
	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		
Wang Li (CHN) (1999)	time	2.65	3.76	4.85	5.91	6.97	8.03	9.10	10.17	11.27	12.39		13.61	9 / 6					
	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	
	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		
Xiao Juxiu (CHN) (1998)	time	2.68	3.77	4.84	5.91	6.98	8.05	9.13	10.25	11.38	12.52		13.71	8 / 7					
	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			3.23	3.22	3.39	
	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		7.89	7.92	7.52		
Yao Hui (CHN) (2000)	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
	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

		date	15-Sep-20		wind -0.6 m/s											CAA Hurdle Development (2020)			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Deng Xuelin (CHN) (1998)	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	
	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	
Lin Yuwei (CHN) (1999)	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	
	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	
Dai Yiru (CHN) (2001)	time		2.64	3.70	4.74	5.79	6.84	7.88	8.96	10.07	11.18	12.36		13.61	2 / 3				
	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			3.15	3.17	3.40	
	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		8.10	8.04	7.50	
You Na (CHN) (1993)	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	
	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	
Niao Juxiu (CHN) (1998)	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	
	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	
Yao Hui (CHN) (2000)	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	
	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	
Luo Xianyan (CHN) (1997)	time		2.73	3.83	4.94	6.05	7.15	8.28	9.42	10.55	11.70	12.86		14.15	9 / 7				
	reaction time	0.153	interval	1.10	1.11	1.11	1.10	1.13	1.14	1.13	1.15	1.16	1.29			3.32	3.37	3.44	
	velocity		4.76	7.73	7.66	7.66	7.73	7.52	7.46	7.52	7.39	7.33	7.79	7.07		7.68	7.57	7.41	
Chen Yuyang (CHN) (2002)	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	
	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	

Heat 1

		date	15-Sep-20		wind 0.3 m/s											CAA Hurdle Development (2020)			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Wu Yanni (CHN) (1997)	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	
	velocity		4.81	7.87	8.17	8.25	8.25	8.25	8.17	8.02	8.02	7.73	8.38	7.48		8.10	8.23	7.92	
Wang Dou (CHN) (1993)	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				
	reaction time	0.165	interval	1.08	1.07	1.06	1.06	1.06	1.06	1.07	1.08	1.10	1.15			3.21	3.18	3.25	
	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		7.94	8.02	7.85	
Wang Li (CHN) (1999)	time		2.69	3.76	4.82	5.89	6.95	8.03	9.11	10.23	11.34	12.46		13.64	4 / 3				
	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	
	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	
Yu Jiaru (CHN) (1999)	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	
	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	

Chen Jiamin (CHN) (1996)	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
	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
Jiang Liyunzhe (CHN) (2002)	time	2.77	3.89	5.00	6.10	7.19	8.28	9.41	10.54	11.67	12.81		14.03	8 / 6			
	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
	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
Lun Xinyu (CHN) (1998)	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
	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

2020 French National Championships (Albi, FRA) (TV Analysis)**FINAL**

date 12-Sep-20 wind 1.5 m/s Henson (2020) - Athlete First: 2020 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
Samba-Mayela, Cyrena (FRA)	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
	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
Comppter, Solenn (FRA) (1995)	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
	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
Quenot, Fanny (FRA) (1990)	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
	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
Bapte, Laetia (FRA) (1999)	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
	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
Jollivet, Lou-Anne (FRA) (200)	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
	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
Chausseray, Celia (FRA) (2000)	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
	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
Reppert, Axelle (FRA) (2001)	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
	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
Sevila, Emeline (FRA) (1994)	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
	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

2020 World Athletics Trials (Fuji, JPN)**Race 2**

date 06-Sep-20 wind 1.3 m/s Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fujiwara, Miku (JPN) (1992)	time	2.65	3.73	4.77	5.82	6.84	7.89	8.94	9.98	11.07	12.16		13.36	/ 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	
	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
Hemphill, Megu (JPN) (1996)	time	2.69	3.77	4.82	5.84	6.87	7.89	8.93	9.98	11.05	12.15		13.37	/ 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	
	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
Sasaki, Ten (JPN) (1997)	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	
	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
Soma, Eriko (JPN) (1991)	time	2.74	3.84	4.91	5.96	7.00	8.05	9.13	10.23	11.34	12.47		13.70	/ 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	
	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
Omura, Mika (JPN) (1995)	time	2.71	3.81	4.87	5.93	6.99	8.04	9.11	10.21	11.33	12.47		13.71	/ 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	
	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
Kamada, Saki (JPN) (1997)	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	
	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

2020 Memorial Van Damme (Brussels, BEL) (TV Analysis)

FINAL

		date	04-Sep-20	wind	-0.2 m/s	Henson (2020) - Athlete First: 2020 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
Zagré, Anne (BEL) (1990)	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
			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
Graversgaard, Mette (DEN) (1987)	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
			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
Missinne, Sarah (BEL) (1995)	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
			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
Johnson-Thompson, Katarina (GBR) (1991)	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
			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
Tomicic Prezelj, Joni (SLO) (1988)	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	0.147	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
			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
Beaucarne, Chloë (BEL) (1997)	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
			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
Bakker, Sharon (NED) (1990)	time			2.57	3.67	4.73									dnf	3 / --			
	reaction time	0.130	interval		1.10	1.06													
			velocity	5.06	7.73	8.02													

2020 Athlete Night Games (Fukui, JPN)

FINAL

		date	29-Aug-20	wind	2.1 m/s	Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Aoki, Masumi (JPN) (1994)	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
			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
Terada, Asuka (JPN) (1990)	time			2.61	3.63	4.64	5.65	6.65	7.66	8.67	9.69	10.73	11.78		12.93	1 / 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
			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
Kiyoyama, Chisato (JPN) (1999)	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
			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
Suzuki, Miho (JPN) (1996)	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
			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
Shimura, Hitomi (JPN) (1990)	time			2.67	3.72	4.75	5.77	6.78	7.80	8.82	9.86	10.91	11.97		13.14	1 / 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
			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
Fukube, Mako (JPN) (1995)	time			2.67	3.75	4.82	5.86	6.87	7.92	8.96	10.03	11.10	12.19		13.36	1 / 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
			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
Hemphill, Megu (JPN) (1996)	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
			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
Kobayashi, Ayumi (JPN) (2001)	time			2.69	3.79	4.86	5.91	6.94	8.00	9.06	10.14	11.22	12.33		13.58	1 / 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
			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

2020 Bauhaus Galan (Stockholm, SWE) (TV Analysis)

FINAL

		date	23-Aug-20	wind	1.4 m/s	Henson (2020) - Athlete First: 2020 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
Bogliolo, Luminosa (ITA) (1999)	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	1.10	1.15			3.00	3.03	3.10
			velocity	5.00	8.25	8.76	8.50	8.25	8.50	8.50	8.50	8.50	8.50	7.73	8.74	7.76		8.50	8.42
Harala, Lotta (FIN) (1992)	time			2.57	3.63	4.63	5.66	6.66	7.66	8.70	9.73	10.76	11.86		13.07	2 / 2			
	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	=PB		3.09	3.04	3.16
			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		8.25	8.39	8.07

Graversgaard, Mette (DEN) (1981)	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
	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
Wennersten, Julia (SWE) (2001)	time	2.60	3.70	4.77	5.87	6.97	8.03	9.13	10.20	11.33	12.47		13.72	7 / 4			
	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
	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
Karlsson, Lovisa (SWE) (2000)	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	1.07	1.06	1.10	1.10	1.14	1.13	1.26		3.20	3.23	3.37
	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
Johnson-Thompson, Katarina (GBR) (1999)	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
	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
Klaup-McColl, Mari (EST) (1999)	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	1.14	1.31			3.27	3.33	3.34
	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
Skogström, Malin (SWE) (1998)	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
	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

2020 Seiko Golden Grand Prix (Tokyo, JPN)**FINAL**

date 23-Aug-20 wind 0.3 m/s

Kijima (2020) - race analysis of 2020 top domestic Japanese 100m hurdlers

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Terada, Asuka (JPN) (1990)	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	1.04	1.07	1.15			3.08	3.05	3.14
	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
Aoki, Masumi (JPN) (1994)	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
	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
Kiyoyama, Chisato (JPN) (1999)	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
	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
Tanaka, Yumi (JPN) (1998)	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
	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
Suzuki, Miho (JPN) (1996)	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
	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
Fukube, Mako (JPN) (1995)	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
	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
Shimura, Hitomi (JPN) (1990)	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
	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
Ito, Ayaka (JPN) (2002)	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			
	reaction time	0.146	interval	1.14	1.12	1.10	1.10	1.11	1.09	1.14	1.14	1.20	PB		3.36	3.31	3.37
	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
Fujimori, Nana (JPN) (1997)	time	2.72	3.79	4.83	5.87	6.92	8.01						14.03	8 / 9			
	reaction time	0.138	interval	1.07	1.04	1.04	1.05	1.09							3.15		
	velocity	4.78	7.94	8.17	8.17	8.10	7.80						7.13		8.10		

2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)**FINAL**

date 19-Aug-20 wind -0.2 m/s

Henson (2020) - Athlete First: 2020 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
Visser, Nadine (NED) (1995)	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	1.00	1.00	1.01	1.02	1.24			2.98	2.94	3.03
	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
Kozák, Luca (HUN) (1996)	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	1.27	NR PB		3.00	2.97	3.00
	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
Herman, Elvira (BLR) (1997)	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

	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
Samba-Mayela, Cyrena (FRA)	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
	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
Korte, Annimari (FIN) (1988)	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
	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
Nelvis, Sharika (USA) (1990)	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	1.42		3.04	3.03	3.10
	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
Kerekes, Gréta (HUN) (1992)	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
	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
Brooks, Taliyah (USA) (1995)	time	2.50	3.54										dnf	1 / --			
	reaction time	0.120	interval	7 steps	1.04												
	velocity	5.20	8.17														

2020 Finnish National Championships (Turku, FIN) (TV Analysis)

FINAL

	date	14-Aug-20	wind	1.0 m/s	Henson (2020) - Athlete First: 2020 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
Korte, Annimari (FIN) (1988)	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	
	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	
Neziri, Nooralotta (FIN) (1992)	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	
	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	
Hurske, Reetta (FIN) (1995)	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	
	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	
Harala, Lotta (FIN) (1992)	time	2.56	3.63	4.66	5.70	6.70	7.70	8.73	9.76	10.80	11.83		13.15	5 / 4				
	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		3.14	3.03	3.10	
	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		8.12	8.42	8.23	
Siirtola, Anni (FIN) (1998)	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	
	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	
Vento, Lotta (FIN) (1997)	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	
	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	
Avikainen, Viivi (FIN) (1987)	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	1.13	1.31		3.30	3.20	3.33	
	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	
Keskitalo, Saara (FIN) (2000)	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	
	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	

2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)

FINAL

	date	11-Aug-20	wind	1.2 m/s	Henson (2020) - Athlete First: 2020 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
Visser, Nadine (NED) (1995)	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	
	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	
Bogliolo, Luminosa (ITA) (199)	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	1.02	1.04	1.19		3.02	2.98	3.04	
	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	
Kozák, Luca (HUN) (1996)	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	
	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	
Korte, Annimari (FIN) (1988)	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	
	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	

Neziri, Nooralotta (FIN) (1992)	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
		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
Harala, Lotta (FIN) (1992)	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		3.08	3.04	3.14
		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
Hurske, Reetta (FIN) (1995)	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			
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
		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
Ndama, Solène (FRA) (1998)	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
		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

2020 Shimane High School Championships (Izumo, JPN)

FINAL

date 11-Jul-20 wind 0.4 m/s Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
福本 智帆	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
		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
上木 杏香音	time	2.85	4.07	5.32	6.58	7.85	9.13	10.47	11.85	13.23	14.68		16.23	6 / 2			
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
		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
松本 春佳	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
		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
中村 寧々	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
		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
錦織 玲菜	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
		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
藤原 未歩	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
		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

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

FINAL

date 08-Jul-20 wind 0.7 m/s Henson (2020) - Athlete First: 2020 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
Korte, Annimari (FIN) (1988)	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	1.03	1.13			3.06	2.94	3.03
		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
Hurske, Reetta (FIN) (1995)	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		interval		1.04	1.03	1.00	1.00	1.00	1.03	1.04	1.03	1.18			3.07	3.00	3.10
		velocity	5.08	8.17	8.25	8.50	8.50	8.50	8.25	8.17	8.25	8.52	7.75		8.31	8.50	8.23
Neziri, Nooralotta (FIN) (1992)	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	1.03	1.07	1.22			3.06	2.97	3.10
		velocity	5.00	8.25	8.25	8.50	8.76	8.50	8.50	8.25	7.94	8.24	7.72		8.33	8.59	8.23
Harala, Lotta (FIN) (1992)	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
		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
Stång, Sonja (FIN) (2002)	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	1.13	1.26			3.33	3.20	3.33
		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
Avikainen, Viivi (FIN) (1987)	time	2.73	3.83	4.93	6.00	7.06	8.23	9.33	10.46				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	
		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	
Kokkonen, Tanja (FIN) (2002)	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	1.14	1.16	1.20	1.35			3.36	3.30	3.50
		velocity	4.81	7.52	7.52	7.73	7.73	7.73	7.46	7.33	7.08	7.44	7.04		7.59	7.73	7.29
Siirtola, Anni (FIN) (1998)	time	2.60	3.70										dnf	7 / --			
reaction time		interval		1.10													

velocity 5.00 7.73

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

date 15-Feb-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Cunningham, Gabriele (USA)	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	1.35	PB		3.01		
	velocity	5.06	8.42	8.33	8.67	8.59	9.63	7.58		8.47		
Chadwick, Payton (USA) (199)	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	1.30			3.04		
	velocity	5.00	8.25	8.50	8.42	8.50	10.00	7.56		8.39		
McReynolds, Tiffani (USA) (19)	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	1.32			3.05		
	velocity	5.00	8.25	8.33	8.50	8.59	9.85	7.54		8.36		
Jones, Cortney (USA) (1999)	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	1.41			3.04		
	velocity	4.91	8.33	8.42	8.42	8.50	9.22	7.41		8.39		
Castlin, Kristi (USA) (1988)	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	1.38			3.09		
	velocity	4.91	8.10	8.25	8.42	8.50	9.42	7.39		8.25		
Bougard, Erica (USA) (1993)	time	2.67	3.73	4.75	5.75	6.75		8.13	8 / 6			
	reaction time	0.143	interval	1.06	1.02	1.00	1.38			3.08		
	velocity	4.87	8.02	8.33	8.50	8.50	9.42	7.38		8.28		
Howell, Jackie (USA) (1996)	time	2.67	4.02					dnf	2 / --			
	reaction time	0.141	interval	1.35								
	velocity	4.87	6.30									

Heat 2

date 15-Feb-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McReynolds, Tiffani (USA) (19)	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	1.36			3.05		
	velocity	5.02	8.10	8.50	8.50	8.67	9.56	7.52		8.36		
Chadwick, Payton (USA) (199)	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	1.37			3.03		
	velocity	4.96	8.25	8.17	8.85	8.33	9.49	7.46		8.42		
Jones, Cortney (USA) (1999)	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	1.40			3.06		
	velocity	4.87	8.10	8.50	8.42	8.42	9.29	7.37		8.33		
Bougard, Erica (USA) (1993)	time	2.68	3.75	4.77	5.77	6.77		8.16	5 / 4			
	reaction time	0.161	interval	1.07	1.02	1.00	1.39			3.09		
	velocity	4.85	7.94	8.33	8.50	8.50	9.35	7.35		8.25		
Penda, Helnsarah (USA)	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	1.55			3.32		
	velocity	4.81	7.59	7.73	7.73	7.73	8.39	6.92		7.68		

Heat 1

date 15-Feb-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jones, Tia (USA) (2000)	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	1.34	PB		3.04		
	velocity	5.00	8.25	8.33	8.59	8.67	9.70	7.54		8.39		
Cunningham, Gabriele (USA)	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	1.38	PB		3.06		
	velocity	5.12	8.17	8.33	8.50	8.59	9.42	7.53		8.33		
Howell, Jackie (USA) (1996)	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	1.38			3.11		
	velocity	4.87	8.02	8.17	8.42	8.42	9.42	7.34		8.20		
Castlin, Kristi (USA) (1988)	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	1.39			3.17		
	velocity	4.96	7.87	8.10	8.17	8.42	9.35	7.33		8.04		
Moore, Tawnie (USA) (1995)	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	1.39			3.14		
	velocity	4.91	7.94	8.10	8.33	8.25	9.35	7.31		8.12		

2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)**FINAL**

date 14-Feb-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Sloan, Emily (USA) (2000)	time	2.67	3.70	4.76	5.77	6.82		8.18	4 / 1			
	reaction time		1.03	1.06	1.01	1.05	1.36	PB		3.10		
	velocity	4.87	8.25	8.02	8.42	8.10	9.56	7.33		8.23		
You Na (CHN) (1993)	time	2.72	3.79	4.83	5.87	6.90		8.28	6 / 2			
	reaction time		1.07	1.04	1.04	1.03	1.38			3.15		
	velocity	4.78	7.94	8.17	8.17	8.25	9.42	7.25		8.10		
Harrison, Michelle (CAN) (1999)	time	2.70	3.79	4.83	5.87	6.92		8.31	5 / 3			
	reaction time		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		
Caicedo, Maribel (ECU) (1998)	time	2.72	3.78	4.84	5.86	6.92		8.32	2 / 4			
	reaction time		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		
Hicks, Jada (USA) (2000)	time	2.67	3.74	4.82	5.86	6.93		8.35	1 / 5			
	reaction time		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		
Rusnak, Hannah (USA)	time	2.64	3.72	4.79	5.84	6.92		8.39	7 / 6			
	reaction time		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		

Semi-Final 2

date 14-Feb-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shi Jiali (CHN) (1997)	time	2.67	3.77	4.81	5.86	6.92		8.49	8 / 4			
	reaction time		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		

Semi-Final 1

date 14-Feb-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
You Na (CHN) (1993)	time	2.73	3.80	4.84	5.87	6.92		8.30	1 / 2			
	reaction time		1.07	1.04	1.03	1.05	1.38			3.14		
	velocity	4.76	7.94	8.17	8.25	8.10	9.42	7.23		8.12		
Shimura, Hitomi (JPN) (1990)	time	2.68	3.75	4.81	5.86	6.95		8.43	5 / 4			
	reaction time		1.07	1.06	1.05	1.09	1.48			3.18		
	velocity	4.85	7.94	8.02	8.10	7.80	8.78	7.12		8.02		

Heat 6

date 14-Feb-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
You Na (CHN) (1993)	time	2.59	3.69	4.74	5.80	6.89		8.48	2 / 2			
	reaction time		1.10	1.05	1.06	1.09	1.59			3.21		
	velocity	5.02	7.73	8.10	8.02	7.80	8.18	7.08		7.94		

Heat 3

date 14-Feb-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shi Jiali (CHN) (1997)	time	2.65	3.74	4.80	5.87	6.92		8.54	7 / 2			
	reaction time		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		

2020 Millrose Games (New York, NY)**FINAL**

date 08-Feb-20

PrimeTime Timing (2020) - <http://results.nyrrmillrosegames.org/>

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harrison, Keni (USA) (1992)	time	2.53	3.56	4.52	5.51	6.48		7.90	5 / 1			
	reaction time	0.201	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		
Ali, Nia (USA) (1988)	0.199	no information available						7.96	4 / 2			
Chadwick, Payton (USA) (1999)	time	2.57	3.62	4.61	5.61	6.59		8.00	8 / 3			
	reaction time	0.161	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		
Anderson, Britany (JAM) (200)	time	2.60	3.63	4.60	5.60	6.57		8.02	7 / 4			
	reaction time	0.168	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		
Cunningham, Gabbi (USA) (19)	time	2.56	3.60	4.62	5.64	6.64		8.08	3 / 5			
	reaction time	0.176	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		

Brown, Janeek (JAM) (1998)	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	
Phillips, Leah (USA) (2002)	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	
Ellenwood, Georgia (CAN) (1997)	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	
	velocity	4.80	7.66	8.02	8.17	8.10		8.67	7.08			7.94	

2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)**FINAL**

date 01-Feb-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Dyer, Danae (USA) (2000)	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	
	velocity	4.91	7.73	8.33	8.10	8.17	9.42	7.28			8.04	
You Na (CHN) (1993)	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	1.37				3.14	
	velocity	4.81	8.02	8.02	8.33	7.94	9.49	7.25			8.12	
Beattie, Danielle (USA) (2001)	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	
Shi Jiali (CHN) (1997)	time	2.70	3.77	4.84	5.90	6.94		8.40	6 / 4			
reaction time		interval	1.07	1.07	1.06	1.04	1.46				3.20	
	velocity	4.81	7.94	7.94	8.02	8.17	8.90	7.14			7.97	

Heat 2

date 01-Feb-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
You Na (CHN) (1993)	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	1.40	PB			3.17	
	velocity	4.91	7.94	8.10	8.10	8.17	9.29	7.26			8.04	

Heat 1

date 01-Feb-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Dyer, Danae (USA) (2000)	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	
	velocity	4.87	7.94	8.02	8.17	8.33	9.22	7.26			8.04	
Shi Jiali (CHN) (1997)	time	2.74	3.80	4.88	5.93	6.97		8.41	4 / 2			
reaction time		interval	1.06	1.08	1.05	1.04	1.44				3.19	
	velocity	4.74	8.02	7.87	8.10	8.17	9.03	7.13			7.99	

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

date 25-Jan-20

PrimeTime Timing (2020) - <https://results.nbindoorgrandprix.com/>

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ali, Nia (USA) (1988)	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	
Clemons, Christina (USA) (1997)	time	2.57	3.61	4.60	5.60	6.57		7.98	3 / 2			
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	
Brown, Janeek (JAM) (1998)	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	
Anderson, Britany (JAM) (2000)	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	
Pedersen, Isabelle (NOR) (1997)	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	
	velocity	4.87	8.33	8.50	8.25	8.67	9.29	7.41			8.36	
Chadwick, Payton (USA) (1997)	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	
Williams, Jeanine (JAM) (1997)	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
Porter, Tiffany (GBR) (1987)	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

date 25-Jan-20

PrimeTime Timing (2020) - <https://results.nbindoorgrandprix.com/>

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Brown, Janeek (JAM) (1998)	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	
Pedersen, Isabelle (NOR) (1992)	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	
	velocity	4.92	8.17	8.50	8.50	8.50	9.42	7.44			8.39	
Anderson, Britany (JAM) (2000)	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	
Porter, Tiffany (GBR) (1987)	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	
Stowers, Jasmin (USA) (1991)	time	2.68						dnf	7 / --			
reaction time	interval											
	velocity	4.85										

Heat 1

date 25-Jan-20

PrimeTime Timing (2020) - <https://results.nbindoorgrandprix.com/>

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ali, Nia (USA) (1988)	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	
Clemons, Christina (USA) (1988)	time	2.59	3.65	4.67	5.68	6.66		8.02	4 / 2			
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	
Chadwick, Payton (USA) (1992)	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	
Williams, Jeanine (JAM) (1997)	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	
Jones, Lolo (USA) (1982)	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	

2020 Leonard Hilton Memorial Invitational (Houston, TX)**FINAL**

date 17-Jan-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Taylor, Naomi (USA) (1998)	time	2.54	3.57	4.63	5.66	6.69		8.23	4 / 1			
reaction time	interval		1.03	1.06	1.03	1.03	1.54				3.12	
	velocity	5.12	8.25	8.02	8.25	8.25	8.44	7.29			8.17	
Carter, Kori (USA) (1992)	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	
You Na (CHN) (1993)	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	1.52	PB			3.19	
	velocity	5.06	7.87	8.10	8.02	8.10	8.55	7.20			7.99	
Shi Jiali (CHN) (1997)	time	2.59	3.64	4.71	5.77	6.82		8.42	6 / 4			
reaction time	interval		1.05	1.07	1.06	1.05	1.60				3.18	
	velocity	5.02	8.10	7.94	8.02	8.10	8.13	7.13			8.02	

Heat 3

date 17-Jan-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
You Na (CHN) (1993)	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	1.55				3.22	
	velocity	5.10	7.59	8.10	8.10	8.10	8.39	7.17			7.92	

Heat 2

date 17-Jan-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5						Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shi Jiali (CHN) (1997)	time	2.60	3.70	4.77	5.82	6.86							8.43	6 / 2			
	reaction time			1.10	1.07	1.05	1.04					1.57			3.22		
	velocity	5.00	7.73	7.94	8.10	8.17						8.28	7.12		7.92		

2019 Japanese National U18/U20 Championships (Hiroshima, JPN)

U20 FINAL

date 18-Oct-19

wind -0.5 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shibata, Manaka (JPN) (2001)	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		1.07	1.05	1.03	1.04	1.04	1.06	1.10	1.11	1.25			3.15	3.12	3.27
	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
Shimano, Mao (JPN) (2001)	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		1.10	1.04	1.06	1.08	1.10	1.09	1.15	1.14	1.25			3.20	3.24	3.38
	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
Kobayashi, Ayumi (JPN) (2001)	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		1.07	1.07	1.04	1.08	1.06	1.07	1.10	1.14	1.30			3.18	3.21	3.38
	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

U18 FINAL (76cm)

date 18-Oct-19

wind -0.8m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ito, Ayaka (JPN) (2002)	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		1.10	1.07	1.07	1.05	1.04	1.08	1.10	1.10	1.26			3.24	3.17	3.30
	velocity	5.02	7.73	7.94	7.94	8.10	8.17	7.87	7.73	7.73	7.73	8.33	7.37		7.87	8.04	7.73
Kikuchi, Aika (JPN) (2002)	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		1.10	1.06	1.06	1.08	1.07	1.07	1.11	1.13	1.22			3.22	3.22	3.34
	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
Kurokawa, Sane (JPN) (2002)	time	2.69	3.76	4.84	5.91	6.97	8.05	9.15	10.26	11.40	12.56		13.83	7 / 3			
	reaction time	0.107		1.07	1.08	1.07	1.06	1.08	1.10	1.11	1.14	1.16	1.27		3.22	3.24	3.41
	velocity	4.83	7.94	7.87	7.94	8.02	7.87	7.73	7.66	7.46	7.33	8.27	7.23		7.92	7.87	7.48

2019 IAAF World Championships (Doha, QAT)

FINAL

date 06-Oct-19

wind 0.3 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ali, Nia (USA) (1988)	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		1.01	0.97	0.96	0.95	0.96	0.95	0.96	1.00	0.97	1.18		2.94	2.86	2.93
	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
Harrison, Kendra (USA) (1992)	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		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
	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
Williams, Danielle (JAM) (1992)	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		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
	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
Amusan, Tobi (NGR) (1997)	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		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
	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
Vargas, Andrea Carolina (CRC)	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		1.04	0.98	0.99	0.98	0.97	0.99	0.98	1.02	1.01	1.20		3.01	2.94	3.01
	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
Visser, Nadine (NED) (1995)	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		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
	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
Brown, Janeek (JAM) (1998)	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		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
	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
Tapper, Megan (JAM) (1994)	time	2.67	4.08										dnf	9 / -			
	reaction time	0.209		10 step	1.41												
	velocity	4.87	6.03														

Semi-Final 3

date 06-Oct-19

wind 0.6 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	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		1.03	0.97	0.96	0.96	0.97	0.95	0.99	0.98	1.03	1.15		2.96	2.88	3.00
	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

Brown, Janeek (JAM) (1998)	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	
	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	
Vargas, Andrea Carolina (CRC)	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
	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	
Herman, Elvira (BLR) (1997)	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	
	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	
Zagré, Anne (BEL) (1990)	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
	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	
Hurske, Reetta (FIN) (1995)	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	1.03	1.03	1.07	1.07	1.39		3.07	3.04	3.17	
	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	
Schrott, Beate (AUT) (1988)	time	2.71	3.77	4.78	5.81	6.81	7.83	8.85	9.89	10.94	12.02		13.25	3 / 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	
	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	
Beahan, Brianna (AUS) (1991)	time	2.68	3.71	4.74	5.76	6.78	7.80	8.86	9.92	10.98	12.06		13.38	2 / 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	
	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	

Semi-Final 2

date 06-Oct-19

wind 0.8 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Harrison, Kendra (USA) (1992)	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	
	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	
Tapper, Megan (JAM) (1994)	time	2.38	3.38	4.36	5.32	6.28	7.26	8.24	9.24	10.26	11.28		12.61	4 / 2				
	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		2.94	2.92	3.04
	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		8.67	8.73	8.39	
Thompson, Yanique (JAM) (1991)	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	
	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	
Kołodziej, Karolina (POL) (1999)	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	
	velocity	5.33	8.17	8.50	8.67	8.50	8.17	8.50	8.50	8.33	8.17	7.73	7.78		8.44	8.39	8.33	
Neziri, Nooralotta (FIN) (1992)	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	
	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	
Ofili, Cindy (GBR) (1994)	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	0.98	1.00	1.02	1.04	1.04	1.37			3.04	2.98	3.10	
	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	
Steenkamp, Rikenette (RSA) (1999)	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	1.02	1.02	1.04	1.06	1.34			3.06	3.02	3.12	
	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	
Bogliolo, Luminosa (ITA) (1999)	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	1.06	1.04	1.06	1.36		3.06	3.02	3.16	
	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	

Semi-Final 1

date 06-Oct-19

wind 1.0 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Williams, Danielle (JAM) (1992)	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	0.98	0.98	0.98	1.21			2.94	2.88	2.94	
	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	
Ali, Nia (USA) (1988)	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
	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	
Visser, Nadine (NED) (1995)	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
	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	
Roleder, Cindy (GER) (1989)	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	
		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
Kozák, Luca (HUN) (1996)	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	
		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
Korte, Annimari (FIN) (1988)	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	
		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
Jenneke, Michelle (AUS) (1993)	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	1.06	1.06	1.35			3.06	3.04	3.14	
		velocity	5.20	8.17	8.33	8.50	8.50	8.33	8.33	8.02	8.02	7.44	7.64		8.33	8.39	8.12	
Romero, Genesis (VEN) (1995)	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	
		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

Heat 5 (TV Analysis)

date	05-Oct-19	wind	0.2 m/s	Henson (2021) - Athlete First: 2019 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	
Amusan, Tobi (NGR) (1997)	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
		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

Heat 4 (TV Analysis)

date	05-Oct-19	wind	0.3 m/s	Henson (2021) - Athlete First: 2019 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	
Harrison, Kendra (USA) (1992)	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	
		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

Heat 3 (TV Analysis)

date	05-Oct-19	wind	0.4 m/s	Henson (2021) - Athlete First: 2019 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	
Williams, Danielle (JAM) (1992)	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	
		velocity	5.37	8.50	8.67	8.85	8.85	8.85	8.67	8.50	8.33	7.91	7.99		8.67	8.85	8.50	

Heat 1

date	05-Oct-19	wind	0.3 m/s	Henson (2021) - Athlete First: 2019 year end hurdle report (TV Analysis)														
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Ali, Nia (USA) (1988)	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	
		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
Terada, Asuka (JPN) (1990)	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			(2019) - tfdata-store
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	
		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

Heptathlon - Heat 3

date	03-Oct-19	wind	0.4 m/s	Henson (2021) - Athlete First: 2019 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	
Williams, Kendall (USA) (1995)	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
		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

2019 National Sports Festival (Hitachinaka, JPN) (76cm)

date	06-Oct-19	wind	1.6 m/s	Enomoto (2019) - research on athlete performance and technique- 2019 data book														
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Onda, Misaki (JPN) (2004)	time	2.68	3.77	4.83	5.88	6.93	8.02	9.08	10.14	11.22	12.32			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	
		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
Asagi, Tsukiha (JPN) (2003)	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	
		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
Fujiwara, Karen (JPN) (2004)	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	
		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
Suzuki, Risa (JPN) (2003)	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	
		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
越智 心愛 (JPN) (2003)	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	
		velocity	4.74	7.66	7.59	7.73	7.87	7.59	7.87	7.59	7.66	8.61	7.19		7.66	7.77	7.63	

Shimamura, Aozora (JPN) (2011)	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													3.28	3.27	3.40
	interval		1.10	1.09	1.09	1.09	1.08	1.10	1.13	1.12	1.15	1.32					
	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
Matsuda, Kako (JPN) (2003)	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													3.26	3.29	3.45
	interval		1.10	1.09	1.07	1.08	1.11	1.10	1.11	1.15	1.19	1.29					
	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
Yasui, Mari (JPN) (2003)	time	2.75	3.88	4.98	6.09	7.19	8.28	9.41	10.57	11.72	12.87		14.12	2 / 8			
	reaction time	0.188													3.34	3.32	3.46
	interval		1.13	1.10	1.11	1.10	1.09	1.13	1.16	1.15	1.15	1.25					
	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

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

FINAL

	date	10-Sep-19	wind	0.1 m/s											Henson (2020) - Athlete First: 2019 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
Nelvis, Sharika (USA) (1990)	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														2.93	2.97	3.10
	interval		0.97	1.00	0.96	0.97	1.00	1.00	1.03	1.00	1.07	1.27						
	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
Kofczek, Karolina (POL) (1991)	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														3.04	3.00	3.03
	interval		1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.03	1.00	1.23						
	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
Herman, Elvira (BLR) (1997)	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														3.07	2.97	3.05
	interval		1.07	1.00	1.00	0.97	1.00	1.00	1.03	1.00	1.02	1.27						
	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
Claye, Queen (USA) (1988)	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														3.07	3.00	3.13
	interval		1.03	1.04	1.00	1.00	1.00	1.00	1.00	1.03	1.10	1.22						
	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
Korte, Annimari (FIN) (1988)	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														3.10	3.00	3.09
	interval		1.07	1.03	1.00	1.00	1.00	1.00	1.02	1.02	1.05	1.23						
	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
Bogliolo, Luminosa (ITA) (1991)	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														3.04	3.03	3.17
	interval		1.04	1.00	1.00	1.03	1.00	1.00	1.03	1.04	1.10	1.25						
	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
McReynolds, Tiffani (USA) (1988)	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														3.10	3.10	3.14
	interval		1.03	1.04	1.03	1.00	1.03	1.07	1.04	1.06	1.04	1.26						
	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
Barber, Kalia (USA) (1993)	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														3.28	3.20	3.24
	interval		1.08	1.14	1.06	1.07	1.07	1.06	1.09	1.05	1.10	1.34						
	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

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

FINAL

	date	06-Sep-19	wind	0.0 m/s											Henson (2020) - Athlete First: 2019 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
Williams, Danielle (JAM) (1992)	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														2.94	2.90	2.98
	interval		0.99	0.97	0.98	0.96	0.97	0.97	0.98	1.00	1.00	1.20						
	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
Harrison, Kendra (USA) (1992)	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														3.00	2.95	3.07
	interval		1.02	1.01	0.97	0.99	0.98	0.98	1.00	1.02	1.05	1.21						
	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
Ali, Nia (USA) (1988)	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														3.03	2.96	3.03
	interval		1.02	1.02	0.99	0.99	0.97	1.00	1.01	1.01	1.01	1.22						
	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
Nelvis, Sharika (USA) (1990)	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														3.00	2.98	3.04
	interval		1.00	1.00	1.00	0.98	1.00	1.00	1.02	1.02	1.00	1.31						
	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
Clemons, Christina (USA) (1991)	time	2.50	3.50	4.52	5.50	6.50	7.50	8.50	9.50	10.54	11.61		12.84		2 / 5			
	reaction time	0.136														3.00	3.00	3.11
	interval		1.00	1.02	0.98	1.00	1.00	1.00	1.00	1.04	1.07	1.23						
	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
Roleder, Cindy (GER) (1989)	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														3.07	3.04	3.13
	interval		1.04	1.03	1.00	1.00	1.00	1.04	1.03	1.04	1.06	1.25						
	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
Herman, Elvira (BLR) (1997)	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														3.09	3.05	3.10
	interval		1.07	1.02	1.00	1.02	1.00	1.03	1.02	1.03	1.05	1.25						

	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	
Zagne, Anne (BEL) (1990)	time	2.60	3.63	4.67	5.70	6.70	7.70							dnf	9 / --			
	reaction time	0.139	1.03	1.04	1.03	1.00	1.00							DQ		3.10		
	interval																	
	velocity	5.00	8.25	8.17	8.25	8.50	8.50									8.23		

2019 Japanese World Championships Trials (Fujiyoshida, JPN)**FINAL**

	date	01-Sep-19	wind	1.2 m/s											Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps				
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Terada, Asuka (JPN) (1990)	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				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
	interval																		
	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
Fukube, Mako (JPN) (1995)	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				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
	interval																		
	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
Kiyoyama, Chisato (JPN) (1999)	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				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
	interval																		
	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
Suzuki, Miho (JPN) (1996)	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			
	reaction time				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
	interval																		
	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
Shimura, Hitomi (JPN) (1990)	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				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
	interval																		
	velocity			4.92	8.10	8.17	8.25	8.42	7.87	8.10	7.94	7.87	7.87	8.82	7.51		8.17	8.12	7.89
Fujimori, Nana (JPN) (1997)	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				1.07	1.04	1.04	1.03	1.06	1.06	1.07	1.08	1.10	1.15			3.15	3.15	3.25
	interval																		
	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	8.10	7.85
Sasaki, Aogi (JPN) (1997)	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				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
	interval																		
	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

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

	date	24-Aug-19	wind	-0.1 m/s											CAA Hurdle Development (2019)				
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Chen Jiamin (CHN) (1996)	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			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
	interval																		
	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
Dai Yiru (CHN) (2001)	time			2.70	3.75	4.82	5.85	6.91	7.96	9.01	10.08	11.17	12.29		13.49	3 / 2			
	reaction time	0.202			1.05	1.07	1.03	1.06	1.05	1.05	1.07	1.09	1.12	1.20			3.15	3.16	3.28
	interval																		
	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		8.10	8.07	7.77
Deng Xuelin (CHN) (1998)	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			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
	interval																		
	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
Lin Yuwei (CHN) (1999)	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			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
	interval																		
	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
You Na (CHN) (1993)	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			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
	interval																		
	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
Wu Yanni (CHN) (1997)	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			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
	interval																		
	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
Yu Jiaru (CHN) (1999)	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			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
	interval																		
	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
Shi Jiali (CHN) (1997)	time			2.75	3.85	4.94	6.02	7.12	8.22	9.34	10.47	11.64	12.81		14.13	8 / 8			
	reaction time	0.208			1.10	1.09	1.08	1.10	1.10	1.12	1.13	1.17	1.17	1.32			3.27	3.32	3.47
	interval																		
	velocity			4.73	7.73	7.80	7.87	7.73	7.73	7.59	7.52	7.26	7.26	7.95	7.08		7.80	7.68	7.35

Heat 2

	date	23-Aug-19	wind	0.2 m/s											CAA Hurdle Development (2019)				
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Yanni (CHN) (1997)	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			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
	interval																		

	velocity	4.66	8.02	8.02	8.10	8.02	8.02	8.02	8.02	7.80	7.73	7.59	8.54	7.31		8.04	8.02	7.70
Chen Jiamin (CHN) (1996)	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
	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
Deng Xuelin (CHN) (1998)	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	1.12	1.19	1.23				3.22	3.17	3.36
	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
Yu Jiaru (CHN) (1999)	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
	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
Guo Jinglei (CHN) (2000)	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
	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
Wang Li (CHN) (1999)	time	2.82	3.95											dnf	8 / --			
	reaction time	0.174	interval	1.13														
	velocity	4.61	7.52															

Heat 1

		date	23-Aug-19	wind	-0.2 m/s													CAA Hurdle Development (2019)		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
You Na (CHN) (1993)	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	
	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	
Lin Yuwei (CHN) (1999)	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	
	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	
Shi Jiali (CHN) (1997)	time			2.74	3.82	4.91	5.97	7.07	8.18	9.29	10.38	11.55	12.68		13.97	5 / 3				
	reaction time	0.199		interval	1.08	1.09	1.06	1.10	1.11	1.11	1.09	1.17	1.13	1.29			3.23	3.32	3.39	
	velocity			4.74	7.87	7.80	8.02	7.73	7.66	7.66	7.80	7.26	7.52	8.14	7.16		7.89	7.68	7.52	
Dai Yiru (CHN) (2001)	time			2.70	3.77	4.86	5.91	6.99	8.11	9.23	10.39	11.54	12.75		14.02	4 / 4				
	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			3.21	3.32	3.52	
	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		7.94	7.68	7.24	
Wang Dou (CHN) (1993)	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				
	reaction time	0.206		interval	1.12	1.10	1.10	1.10	1.12	1.15	1.14	1.11	1.27			3.32	3.32	3.40		
	velocity			4.61	7.59	7.73	7.73	7.73	7.59	7.39	7.46	7.66	8.27	7.08		7.68	7.68	7.50		
He Jiamin (CHN) (2001)	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	
	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	
Yao Hui (CHN) (2000)	time			2.75	3.90	5.12									dnf	3 / --				
	reaction time	0.200		interval	1.15	1.22														
	velocity			4.73	7.39	6.97														

Heptathlon - Heat 2

		date	23-Aug-19	wind	?? m/s													CAA Hurdle Development (2019)		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Shen Muhan (CHN) (1997)	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	
	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	
Pang Yuting (CHN) (1995)	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	
	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	
Zhou Jingjing (CHN) (1998)	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	
	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	
Sun Lan (CHN) (2002)	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	
	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	
Li Jinghua (CHN) (1996)	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	
	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	
Jin Donghua (CHN) (1999)	time			2.94	4.10	5.34	6.52	7.72	8.91	10.13	11.35	12.53	13.83		15.20	8 / 6				
	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	
	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	

Pu Jing (CHN) (1997)	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	
		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 1

date 23-Aug-19

wind ?? m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wang Qingling (CHN) (1993)	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
		velocity	4.73	7.80	7.87	8.10	7.80	7.87	7.94	7.59	7.73	8.54	7.24		7.92	7.87	7.54
Wu Zheng (CHN) (2001)	time	2.82	3.94	5.05	6.16	7.29	8.43	9.56	10.71	11.89	13.10		14.44	6 / 2			
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
		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
Wang Meiqing (CHN) (1996)	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
		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
Gao Miao (CHN) (2001)	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
		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
Wang Huiqiong (CHN) (1990)	time	2.92	4.10	5.26	6.41	7.57	8.72	9.94	11.18	12.43	13.68		15.08	2 / 5			
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
		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
Liu Jingyi (CHN) (2000)	time	2.80	3.95	5.14	6.30	7.49	8.68	9.89	11.14	12.42	13.68		15.17	3 / 6			
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
		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
Yin Xinyi (CHN) (2000)	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
		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

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

date 18-Aug-19

wind -0.2 m/s

Henson (2020) - Athlete First: 2019 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
Williams, Danielle (JAM) (1992)	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
		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
Harrison, Kendra (USA) (1992)	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
		velocity	5.20	8.25	8.50	8.76	8.76	8.76	8.50	8.50	8.25	8.61	7.90		8.50	8.76	8.42
Amusan, Tobi (NGR) (1997)	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
		velocity	5.14	8.17	8.50	8.76	8.85	8.76	8.42	8.50	8.33	8.47	7.87		8.47	8.79	8.42
Ali, Nia (USA) (1988)	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
		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
Brown, Janeek (JAM) (1998)	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
		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
McNeal, Brianna (USA) (1991)	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
		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
Chadwick, Payton (USA) (1999)	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
		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
McReynolds, Tiffani (USA) (1991)	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
		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

2019 Athlete Night Games (Fukui, JPN)**FINAL**

date 17-Aug-19

wind 1.4 m/s

(2019) - <http://tfdata-store.com/2019/09/02/post-1606/>

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Terada, Asuka (JPN) (1990)	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
		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

2019 Chinese National Youth Games (Taiyuan, CHN)

U20 FINAL		date	14-Aug-19	wind	-0.1 m/s	CAA Hurdle Development (2019)														
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Dai Yiru (CHN) (2001)	time			2.54	3.61	4.70	5.75	6.78	7.82	8.88	9.96	11.03	12.13		13.36	6 / 1				
	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				3.21	3.13	3.25
			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		7.94	8.15	7.85
Guo Jinglei (CHN) (2000)	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
			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
Zhang Jiayi (CHN) (2001)	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
			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
Ge Ge (CHN) (2000)	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
			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
Yao Hui (CHN) (2000)	time			2.71	3.84	4.94	6.06	7.16	8.27	9.39	10.54	11.68	12.83		14.14	9 / 5				
	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	PB			3.35	3.33	3.44
			velocity		4.80	7.52	7.73	7.59	7.73	7.66	7.59	7.39	7.46	7.39	8.02	7.07		7.61	7.66	7.41
He Jiamin (CHN) (2001)	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
			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
Shing Cho Yan (HKG) (2001)	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
			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
Zhang Yi (CHN) (2000)	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
			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

U18 FINAL (76cm)		date	14-Aug-19	wind	0.0 m/s	CAA Hurdle Development (2019)														
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Xia Sining (CHN) (2003)	time			2.72	3.79	4.82	5.87	6.89	7.91	8.93	9.97	11.03	12.10		13.30	7 / 1				
	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			3.15	3.06	3.17
			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		8.10	8.33	8.04
Han Zhirou (CHN) (2002)	time			2.73	3.82	4.92	6.01	7.11	8.24	9.35	10.50	11.68	12.86		14.20	5 / 2				
	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				3.28	3.34	3.51
			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		7.77	7.63	7.26
Li Yuansu (CHN) (2003)	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
			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
Wei Huaning (CHN) (2002)	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
			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
Lu Xinyue (CHN) (2002)	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
			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
Mei Xiaoqian (CHN) (2002)	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
			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
Wu Wenya (CHN) (2003)	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
			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
Sun Jingyuan (CHN) (2002)	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
			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

U20 Heat 3		date	14-Aug-19	wind	0.0 m/s	CAA Hurdle Development (2019)														
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Dai Yiru (CHN) (2001)	time			2.64	3.70	4.77	5.79	6.86	7.91	9.01	10.11	11.23	12.36		13.62	5 / 1				
	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				3.15	3.22	3.35
			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		8.10	7.92	7.61

Yao Hui (CHN) (2000)	time	2.72	3.84	4.94	6.03	7.17	8.29	9.44	10.58	11.74	12.91		14.15	4 / 2			
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	=PB		3.31	3.41	3.47
		velocity	4.78	7.59	7.73	7.80	7.46	7.59	7.39	7.46	7.33	7.26	8.47	7.07	7.70	7.48	7.35
He Jiamin (CHN) (2001)	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
		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
Ma Shiqi (CHN) (2001)	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
		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
He Xinyi (CHN) (2000)	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
		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

U20 Heat 2

date 14-Aug-19 wind -0.2 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zhang Jiayi (CHN) (2001)	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
		velocity	4.78	7.87	7.94	7.80	7.73	7.66	7.73	7.66	7.52	8.54	7.23	7.87	7.70	7.63	
Guo Jinglei (CHN) (2000)	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
		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
Ge Ge (CHN) (2000)	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
		velocity	4.71	7.46	7.59	7.94	7.73	7.59	7.46	7.52	7.26	8.33	7.07	7.66	7.59	7.43	
Yin Xiaoxia (CHN) (2000)	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
		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
Wang Yan (CHN) (2000)	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
		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
Jiang Minhong (CHN) (2000)	time	2.80	3.93	5.11	6.27	7.42	8.61	9.83	11.08	12.33	13.62		15.02	3 / 6			
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
		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

U20 Heat 1

date 14-Aug-19 wind 0.5 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zhang Yi (CHN) (2000)	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
		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
Shing Cho Yan (HKG) (2001)	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
		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
Chen Zhifei (CHN) (2001)	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
		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
Qin Hongyan (CHN) (2001)	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
		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
Tong Menghui (CHN) (2000)	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
		velocity	4.69	7.52	7.59	7.46	7.52	7.39	7.33	7.33	6.97	7.95	6.93	7.52	7.48	7.20	
Zhang Yan (CHN) (2001)	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
		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

2019 Pan American Games (Lima, PER) (TV Analysis)**FINAL**

date 08-Aug-19 wind 0.1 m/s

Henson (2020) - Athlete First: 2019 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
Vargas, Andrea Carolina (CRC)	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
		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
Brissett, Chanel (USA) (1999)	time	2.51	3.58	4.62	5.64	6.64	7.64	8.64	9.64	10.67	11.71		12.99	2 / 2			

reaction time	0.173	interval	1.07	1.04	1.02	1.00	1.00	1.00	1.00	1.03	1.04	1.28			3.13	3.00	3.07
		velocity	5.18	7.94	8.17	8.33	8.50	8.50	8.50	8.50	8.25	8.17	8.20	7.70	8.15	8.50	8.31
Tapper, Megan (JAM) (1994)		time	2.53	3.57	4.60	5.58	6.58	7.58	8.60	9.62	10.67	11.74		13.01	9 / 3		
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			3.05	3.02	3.14
		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	8.36	8.44	8.12
Thompson, Yanique (JAM) (1st)		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
		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
Seymour, Pedrya (BAH) (1995)		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
		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

2019 Japanese National High School Championships (Okinawa, JPN)

FINAL

		date	08-Aug-19	wind	-4.1 m/s	Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shimano, Maki (JPN) (2001)		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
		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
Nagamine, Sayuri (JPN) (2001)		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
		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
Tezuka, Mai (JPN) (2001)		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
		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
Masuda, Ayana (JPN) (2002)		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
		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
Ando, Manami (JPN) (2001)		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
		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
Saka, Nozomi (JPN) (2001)		time	2.74	3.87	4.98	6.11	7.27	8.44	9.61	10.79	11.97	13.16		14.42	7 / 6				
reaction time		interval	1.13	1.11	1.13	1.16	1.17	1.17	1.18	1.18	1.19	1.26					3.37	3.50	3.55
		velocity	4.74	7.52	7.66	7.52	7.33	7.26	7.26	7.20	7.20	7.14	8.33	6.93			7.57	7.29	7.18
Yamanishi, Momoko (JPN) (2001)		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	3.61
		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	7.06
Yoshii, Ririko (JPN) (2001)		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
		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

2019 Chinese World Championship Trials (Shenyang, CHN)

FINAL

		date	02-Aug-19	wind	0.0 m/s	CAA Hurdle Development (2019)													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Dai Yiru (CHN) (2001)		time	2.62	3.65	4.72	5.72	6.74	7.77	8.81	9.88	10.94	12.06		13.24	4 / 1				
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			3.10	3.09	3.25
		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			8.23	8.25	7.85
Deng Xuelin (CHN) (1998)		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
		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
Wu Yanni (CHN) (1997)		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
		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
Wang Dou (CHN) (1993)		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				
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					3.21	3.18	3.25
		velocity	4.81	7.87	8.02	7.94	8.17	8.25	7.66	7.94	7.94	7.66	8.90	7.40			7.94	8.02	7.85
Yu Jiaru (CHN) (1999)		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	1.06	1.05	1.10	1.09	1.21				3.16	3.15	3.24
		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
Lin Yuwei (CHN) (1999)		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
		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

Chen Jiamin (CHN) (1996)	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	
		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

date 02-Aug-19 wind -0.3 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Deng Xuelin (CHN) (1998)	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	
		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
Chen Jiamin (CHN) (1996)	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	
		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
Wang Dou (CHN) (1993)	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				
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			3.26	3.24	3.27	
		velocity	4.74	7.66	7.80	8.02	7.94	7.80	7.87	7.94	7.73	7.73	8.75	7.29		7.82	7.87	7.80
Lin Yuwei (CHN) (1999)	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	
		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
Luo Xianyan (CHN) (1997)	time	2.75	3.85	4.94	6.02	7.08	8.14	9.22	10.31	11.39	12.49		13.72	8 / 5				
reaction time	0.168	interval	1.10	1.09	1.08	1.06	1.06	1.08	1.09	1.08	1.10	1.23			3.27	3.20	3.27	
		velocity	4.73	7.73	7.80	7.87	8.02	8.02	7.87	7.80	7.87	7.73	8.54	7.29		7.80	7.97	7.80
Li Jinyu (CHN) (1999)	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	
		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
Guo Jinglei (CHN) (2000)	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	
		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 1

date 02-Aug-19 wind 0.2 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Dai Yiru (CHN) (2001)	time	2.64	3.70	4.77	5.83	6.87	7.92	8.97	10.04	11.13	12.25		13.46	6 / 1				
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		3.19	3.14	3.28	
		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		7.99	8.12	7.77
Wu Yanni (CHN) (1997)	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	
		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
Yu Jiaru (CHN) (1999)	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	
		velocity	4.78	7.73	7.80	8.02	8.10	8.02	7.73	7.87	7.20	9.05	7.33		7.85	8.07	7.59	
You Na (CHN) (1993)	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	
		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
Xiao Juxiu (CHN) (1998)	time	2.70	3.83	4.91	5.99	7.02	8.11	9.19	10.29	11.42	12.53		13.75	2 / 5				
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			3.29	3.20	3.34	
		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		7.75	7.97	7.63
Shi Jiali (CHN) (1997)	time	2.67	3.77	4.87	5.94	7.00	8.06	9.14	10.23	11.33	12.48		13.81	4 / 6				
reaction time	0.156	interval	1.10	1.10	1.07	1.06	1.06	1.08	1.09	1.10	1.15	1.33			3.27	3.20	3.34	
		velocity	4.87	7.73	7.73	7.94	8.02	8.02	7.87	7.80	7.73	7.39	7.89	7.24		7.80	7.97	7.63
Yao Hui (CHN) (2000)	time	2.70	3.87	5.02	6.14	7.27	8.39	9.54	10.68	11.84	13.01		14.29	7 / 7				
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			3.44	3.40	3.47	
		velocity	4.81	7.26	7.39	7.59	7.52	7.59	7.39	7.46	7.33	7.26	8.20	7.00		7.41	7.50	7.35
Ge Ge (CHN) (2000)	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	
		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

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

date 27-Jul-19 wind -1.2 m/s

Henson (2020) - Athlete First: 2019 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	
Harrison, Kendra (USA) (1992)	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	
		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

Ali, Nia (USA) (1988)	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
	velocity	5.26	8.25	8.76	8.76	8.85	8.76	8.76	8.76	8.50	8.50	8.42	8.75	7.97	8.59	8.79	8.47
McNeal, Brianna (USA) (1991)	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
	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	
Nelvis, Sharika (USA) (1990)	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
	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	
Claye, Queen (USA) (1988)	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
	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	
Marshall, Tonea (USA) (1998)	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	1.07	1.27		3.00	2.97	3.07	
	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	
Castlin, Kristi (USA) (1988)	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	2.94	3.04
	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	8.67	8.39	
Clemons, Christina (USA) (1991)	time	2.50	3.50	4.47	5.47	6.44	7.40	8.38	9.44	10.51	11.61		13.01	6 / 8			
	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
	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	

2019 Corporate Team vs College Team (Hiratsukai, JPN)**FINAL**

date 27-Jul-19 wind 1.3 m/s

(2019) - <http://tfdata-store.com/2019/09/02/post-1606/>

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Terada, Asuka (JPN) (1990)	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
	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	

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

date 20-Jul-19 wind 0.8 m/s

Henson (2020) - Athlete First: 2019 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
Williams, Danielle (JAM) (1992)	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	1.00	1.18	AR PB		2.88	2.86	2.96
	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	
Ali, Nia (USA) (1988)	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	0.98	1.00	1.02	1.19		3.00	2.90	3.00
	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	
Claye, Queen (USA) (1988)	time	2.48	3.50	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		1.02	0.98	0.98	0.98	0.98	1.00	1.02	1.20		2.98	2.94	3.04	
	velocity	5.24	8.33	8.67	8.67	8.67	8.67	8.67	8.50	8.33	8.33	8.75	7.91	8.56	8.67	8.39	
Tapper, Megan (JAM) (1994)	time	2.48	3.48	4.44	5.42	6.40	7.40	8.40	9.42	10.42	11.48		12.66	5 / 4			
	reaction time	0.142	interval		1.00	0.96	0.98	0.98	1.00	1.00	1.02	1.06	1.18		2.94	2.98	3.08
	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	8.67	8.56	8.28	
Amusan, Tobi (NGR) (1997)	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	1.21		3.04	2.92	3.08
	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	
Seymour, Pedrya (BAH) (1995)	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	1.22		3.06	3.04	3.10
	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	
Herman, Elvira (BLR) (1997)	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	1.22		3.08	3.00	3.12
	velocity	5.00	8.02	8.33	8.50	8.67	8.50	8.33	8.17	8.17	8.17	8.61	7.68	8.28	8.50	8.17	
Britton, Evonne (USA) (1991)	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	1.33		3.10	3.00	3.24
	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	
McReynolds, Tiffani (USA) (1991)	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		
	velocity	5.24	8.17	8.67	8.67	8.50	8.50							8.50			

Heat 1

date 20-Jul-19 wind -1.1 m/s

Henson (2020) - Athlete First: 2019 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

Williams, Danielle (JAM) (1992)	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
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
Claye, Queen (USA) (1988)	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
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
Britton, Evonne (USA) (1991)	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
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

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

FINAL

date		12-Jul-19	wind 0.1 m/s										Henson (2020) - Athlete First: 2019 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
Harrison, Kendra (USA) (1992)	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
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
Williams, Danielle (JAM) (1992)	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
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
Clemons, Christina (USA) (1991)	time	2.46	3.50	4.48	5.46	6.44	7.42	8.40	9.38	10.38	11.42		12.62	6 / 3				
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
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
Brown, Janeek (JAM) (1998)	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
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
Ali, Nia (USA) (1988)	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
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
Kolczek, Karolina (POL) (1991)	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
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
Nelvis, Sharika (USA) (1990)	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
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

2019 Chinese National Championships (Shenyang, CHN)

FINAL

date		08-Jul-19	wind 0.2 m/s										CAA Hurdle Development (2019)					
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Chen Jiamin (CHN) (1996)	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
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
Deng Xuelin (CHN) (1998)	time	2.73	3.78	4.82	5.87	6.89	7.94	8.97	10.04	11.09	12.17		13.36	3 / 2				
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
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
You Na (CHN) (1993)	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
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
Wang Li (CHN) (1999)	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
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
Shi Jiali (CHN) (1997)	time	2.65	3.71	4.78	5.83	6.88	7.92	8.97	10.04	11.11	12.23		13.46	8 / 5				
reaction time	0.161	interval	1.06	1.07	1.05	1.05	1.04	1.05	1.07	1.07	1.12	1.23				3.18	3.14	3.26
velocity		4.91	8.02	7.94	8.10	8.10	8.17	8.10	7.94	7.94	7.59	8.54	7.43			8.02	8.12	7.82
Yu Jiaru (CHN) (1999)	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
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
Dai Yiru (CHN) (2001)	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
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
Lin Yuwei (CHN) (1999)	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

velocity 4.76 7.87 7.87 7.80 7.87 7.80 7.80 7.80 7.59 7.73 7.46 8.54 7.23

7.85 7.82 7.59

Heat 3

date 08-Jul-19 wind 1.3 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
You Na (CHN) (1993)	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
	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
Deng Xuelin (CHN) (1998)	time	2.72	3.79	4.88	5.94	6.98	8.02	9.08	10.12	11.16	12.26		13.46	5 / 2			
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
	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
Dai Yiru (CHN) (2001)	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
	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
Wang Dou (CHN) (1993)	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			
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			3.25	3.24	3.32
	velocity	4.66	7.80	7.87	7.87	8.02	7.73	7.87	7.73	7.73	7.59	8.82	7.25		7.85	7.87	7.68
Jie Zhimao (CHN) (1998)	time	2.76	3.92	5.04	6.11	7.24	8.34	9.46	10.60	11.77	12.94		14.21	7 / 5			
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
	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
Yao Hui (CHN) (2000)	time	2.76	3.95	5.04	6.14	7.26	8.40	9.54	10.70	11.86	13.04		14.34	4 / 6			
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			3.38	3.40	3.50
	velocity	4.71	7.14	7.80	7.73	7.59	7.46	7.46	7.33	7.33	7.20	8.08	6.97		7.54	7.50	7.29

Heat 2

date 08-Jul-19 wind 0.7 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Chen Jiamin (CHN) (1996)	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
	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
Lin Yuwei (CHN) (1999)	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
	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
Luo Xianyan (CHN) (1997)	time	2.76	3.86	4.96	6.03	7.08	8.18	9.26	10.36	11.46	12.58		13.79	4 / 3			
reaction time	0.181	interval	1.10	1.10	1.07	1.05	1.10	1.08	1.10	1.10	1.12	1.21			3.27	3.23	3.32
	velocity	4.71	7.73	7.73	7.94	8.10	7.73	7.87	7.73	7.73	7.59	8.68	7.25		7.80	7.89	7.68
Guo Jinglei (CHN) (2000)	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
	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
Ge Ge (CHN) (2000)	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
	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

Heat 1

date 08-Jul-19 wind 0.5 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wang Li (CHN) (1999)	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
	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
Shi Jiali (CHN) (1997)	time	2.72	3.80	4.86	5.91	6.96	8.03	9.08	10.18	11.26	12.40		13.64	7 / 2			
reaction time	0.220	interval	1.08	1.06	1.05	1.05	1.07	1.05	1.10	1.08	1.14	1.24			3.19	3.17	3.32
	velocity	4.78	7.87	8.02	8.10	8.10	7.94	8.10	7.73	7.87	7.46	8.47	7.33		7.99	8.04	7.68
Yu Jiaru (CHN) (1999)	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
	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
Xiao Juxiu (CHN) (1998)	time	2.76	3.86	4.98	6.04	7.14	8.22	9.32	10.42	11.54	12.66		13.84	3 / 4			
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			3.28	3.28	3.34
	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		7.77	7.77	7.63
Huo Xuanyi (CHN) (1998)	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
	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
Chen Zhifei (CHN) (2001)	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
	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

Heptathlon - Heat 2

date 08-Jul-19

wind 0.8 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wang Qingling (CHN) (1993)	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
	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
Gao Miao (CHN) (2001)	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
	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
Pang Yuting (CHN) (1995)	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
	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
Wang Huiqiong (CHN) (1990)	time	2.88	4.05	5.22	6.37	7.52	8.67	9.85	11.03	12.26	13.51		14.87	2 / 4			
	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
	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
Sun Lan (CHN) (2002)	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
	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
Wen Xiaoyun (CHN) (1999)	time	3.15	4.50	5.77	6.99	8.19	9.41	10.61	11.86	13.11	14.36		15.69	5 / 6			
	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
	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
Zhang Yali (CHN) (1996)	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
	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
Pu Jing (CHN) (1997)	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
	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

Heptathlon - Heat 1

date 08-Jul-19

wind 0.1 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wang Meiqing (CHN) (1996)	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
	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
Shen Muhan (CHN) (1997)	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
	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
Jin Donghua (CHN) (1999)	time	2.93	4.09	5.27	6.42	7.59	8.77	9.94	11.14	12.34	13.58		14.85	6 / 3			
	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
	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
Ren Shimei (CHN) (1996)	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
	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
Li Jinghua (CHN) (1996)	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
	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
Zhou Jingjing (CHN) (1998)	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
	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
Liu Jingyi (CHN) (2000)	time	2.83	4.00	5.17	6.36	7.54	8.72	9.96	11.22	12.51	13.83		15.31	3 / 7			
	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
	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
Yin Xinyi (CHN) (2000)	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
	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

2019 Japanese National Championships (Fukuoka, JPN)

FINAL

date 29-Jun-19

wind 0.6 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayako (JPN) (1988)	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
	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
Aoki, Masumi (JPN) (1994)	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	
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	
Terada, Asuka (JPN) (1990)	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	
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	
Shimura, Hitomi (JPN) (1990)	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	
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	
Kiyoyama, Chisato (JPN) (1999)	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	
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	
Fukube, Mako (JPN) (1995)	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	
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	
Suzuki, Miho (JPN) (1996)	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	
velocity	4.78		8.10	8.25	8.17	8.25	8.17	8.17	8.10	7.94	7.94	8.97	7.51	8.17	8.20	7.99	
Fujimori, Nana (JPN) (1997)	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	3.16	3.26	
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	8.07	7.82	

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

FINAL

date		13-Jun-19		wind		1.1 m/s												Henson (2020) - Athlete First: 2019 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			
Clemons, Christina (USA) (1999)	time	2.56	3.56	4.56	5.54	6.50	7.48	8.46	9.46	10.50	11.52		12.69	3 / 1						
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			
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			
Nelvis, Sharika (USA) (1990)	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			
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			
Herman, Elvira (BLR) (1997)	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			
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			
Roleder, Cindy (GER) (1989)	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			
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			
Visser, Nadine (NED) (1995)	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			
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			
Pedersen, Isabelle (NOR) (1999)	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	1.24			3.00	3.08	3.20			
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			
Neziri, Nooralotta (FIN) (1992)	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			
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			

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

FINAL

date		08-Jun-19		wind		0.6 m/s												Henson (2020) - Athlete First: 2019 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			
Brown, Janeek (JAM) (1998)	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			
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			
Brissett, Chanel (USA) (1999)	time	2.50	3.53	4.51	5.47	6.43	7.37	8.34	9.31	10.27	11.30		12.52	4 / 2						
reaction time	0.144	interval	1.03	0.98	0.96	0.96	0.94	0.97	0.97	0.96	1.03	1.22	PB		2.97	2.87	2.96			
velocity		5.20	8.25	8.67	8.85	8.85	9.04	8.76	8.76	8.85	8.25	8.61	7.99		8.59	8.89	8.61			
Marshall, Tonea (USA) (1998)	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			
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			
Williams, Jeanie (JAM) (1997)	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			
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			

Cockrell, Anna (USA) (1997)	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
	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
Jones, Cortney (USA) (1999)	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
	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
McMinn, Tiara (USA) (1999)	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
	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
Chadwick, Payton (USA) (1999)	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
	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

2019 Japanese National Multi-Event Championships (Nagano, JPN)

Heptathlon - Heat 3

date	08-Jun-19	wind	2.3 m/s	Matsubayashi (2019) - research on athlete performance and technique- 2019 data book													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Utsunomiya, Eri (JPN) (1993)	time	2.75	3.88	4.98	6.07	7.15	8.23	9.31	10.41	11.51	12.61		13.81	7 / 2			
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
	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
Yamasaki, Yuki (JPN) (1995)	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
	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

2019 Asian Grand Prix 2 (Chongqing, CHN)

FINAL

date	07-Jun-19	wind	2.3 m/s	CAA Hurdle Development (2019)													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shimura, Hitomi (JPN) (1990)	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
	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
Lui Lai Yiu (HKG) (1994)	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
	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
Shi Jiali (CHN) (1997)	time	2.66	3.73	4.78	5.82	6.84	7.87	8.89	9.93	10.97	12.04		13.26	3 / 3			
reaction time	0.190	interval	1.07	1.05	1.04	1.02	1.03	1.02	1.04	1.04	1.07	1.22			3.16	3.07	3.15
	velocity	4.89	7.94	8.10	8.17	8.33	8.25	8.33	8.17	8.17	7.94	8.61	7.54		8.07	8.31	8.10
Chen Jiamin (CHN) (1996)	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
	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
Shynyzbekova, Aygerim (KAZ)	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
	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
Tran Thi Yen Hao (VIE) (1990)	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
	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
Meesri, Suchada (THA) (1994)	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
	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

2019 Asian Grand Prix 1 (Chongqing, CHN)

FINAL

date	04-Jun-19	wind	-1.2 m/s	CAA Hurdle Development (2019)													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shimura, Hitomi (JPN) (1990)	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
	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
Lui Lai Yiu (HKG) (1994)	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
	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
Shi Jiali (CHN) (1997)	time	2.65	3.73	4.78	5.83	6.87	7.94	8.99	10.06	11.16	12.27		13.53	8 / 3			
reaction time	0.156	interval	1.08	1.05	1.05	1.04	1.07	1.05	1.07	1.10	1.11	1.26			3.18	3.16	3.28
	velocity	4.91	7.87	8.10	8.10	8.17	7.94	8.10	7.94	7.73	7.66	8.33	7.39		8.02	8.07	7.77
Chen Jiamin (CHN) (1996)	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

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	
Tran Thi Yen Hao (VIE) (1990) 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	1.15	1.20			3.26	3.25	3.35
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
Shynyzbekova, Aygerim (KAZ) 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
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
Meesri, Suchada (THA) (1994) 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	
velocity	4.85	7.73	7.80	7.73	6.97	7.20	7.14	7.20				6.93		7.75	7.10	

2019 Fuse Sprint (Tottori, JPN)**FINAL**

date 02-Jun-19 wind 3.5 m/s Kijima (2019) - research on athlete performance and technique- 2019 data book

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayako (JPN) (1988) 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
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
Kiyoyama, Chisato (JPN) (1999) 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
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
Aoki, Masumi (JPN) (1994) 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	1.06	1.05	1.19			3.10	3.08	3.14
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
Fukube, Mako (JPN) (1995) 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
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
Kobayashi, Ayumi (JPN) (2001) 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
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
Suzuki, Miho (JPN) (1996) 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	1.08	1.08	1.16			3.15	3.12	3.20
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
Nakajima, Hitomi (JPN) (1995) 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
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
Nakamura, Yuki (JPN) (1995) 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 0.138 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
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

2019 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)**FINAL**

date 30-May-19 wind 1.3 m/s Henson (2020) - Athlete First: 2019 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
Harrison, Kendra (USA) (1992) 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
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
Nelvis, Sharika (USA) (1990) 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			
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
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
Amusan, Tobi (NGR) (1997) 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
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
Roleder, Cindy (GER) (1989) 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
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
Herman, Elvira (BLR) (1997) 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
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
Seymour, Pedrya (BAH) (1995) 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
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

Boons, Eefje (NED) (1994)	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
		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
Visser, Nadine (NED) (1995)	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
		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

2019 Chinese National Grand Prix 4 (Luoyang, CHN)

FINAL

		date	30-May-19	wind	-0.1 m/s												CAA Hurdle Development (2019)		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Deng Xuelin (CHN) (1998)	time		2.75	3.82	4.87	5.91	6.97	8.02	9.08	10.14	11.21	12.32		13.48	3 / 1				
reaction time	0.207	interval		1.07	1.05	1.04	1.06	1.05	1.06	1.06	1.06	1.07	1.11	1.16		3.16	3.17	3.24	
		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		
Wang Li (CHN) (1999)	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	
		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		
Chen Jiamin (CHN) (1996)	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		
		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		
Xiao Juxiu (CHN) (1998)	time		2.68	3.80	4.85	5.90	6.96	8.04	9.14	10.22	11.32	12.46		13.65	6 / 4				
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		3.22	3.24	3.32		
		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	7.92	7.87	7.68		
Dai Yiru (CHN) (2001)	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	
		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		
You Na (CHN) (1993)	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		
		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		
Jie Zhimao (CHN) (1998)	time		2.80	3.95	5.09	6.26	7.41	8.56	9.72	10.91	12.09	13.29		14.59	1 / 7				
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		
		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		
Huo Xuanyi (CHN) (1998)	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		
		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		

2019 Shimane High School Championships (Izumo, JPN)

FINAL

		date	26-May-19	wind	1.9 m/s												Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Nagamine, Sayuri (JPN) (2001)	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	
		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		
栢上 芽生	time		2.92	4.22	5.50	6.79	8.04	9.27	10.54	11.79	13.04	14.34		15.80	6 / 2				
reaction time		interval		1.30	1.28	1.29	1.25	1.23	1.27	1.25	1.25	1.30	1.46		3.87	3.75	3.80		
		velocity	4.45	6.54	6.64	6.59	6.80	6.91	6.69	6.80	6.80	6.54	6.88	6.33	6.59	6.80	6.71		
高田 菜月	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		
		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		
伊藤 彩乃	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		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		
		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		
中村 好香	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		
		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		
米原 楓加	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		
		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		

2019 Chinese National Grand Prix 3 (Jinhau, CHN)

FINAL

		date	23-May-19	wind	0.4 m/s												CAA Hurdle Development (2019)		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Luo Xianyan (CHN) (1997)	time		2.66	3.74	4.80	5.82	6.88	7.94	8.98	10.02	11.08	12.16		13.36	5 / 1				
reaction time	0.149	interval		1.08	1.06	1.02	1.06	1.06	1.04	1.04	1.06	1.08	1.20	PB		3.16	3.16	3.18	
		velocity	4.89	7.87	8.02	8.33	8.02	8.02	8.17	8.17	8.02	7.87	8.75	7.49	8.07	8.07	8.02		

Deng Xuelin (CHN) (1998)	time	2.72	3.78	4.82	5.86	6.90	7.94	8.98	10.04	11.12	12.22		13.41	6 / 2			
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
		velocity	4.78	8.02	8.17	8.17	8.17	8.17	8.02	7.87	7.73	8.82	7.46		8.12	8.17	7.87
Yu Jiaru (CHN) (1999)	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
		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
Wang Dou (CHN) (1993)	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			
reaction time	0.207	interval	1.06	1.06	1.04	1.06	1.06	1.06	1.06	1.10	1.08	1.19			3.16	3.18	3.24
		velocity	4.71	8.02	8.02	8.17	8.02	8.02	8.02	7.73	7.87	8.82	7.39		8.07	8.02	7.87
Xiao Juxiu (CHN) (1998)	time	2.72	3.82	4.90	5.96	7.02	8.10	9.18	10.26	11.36	12.48		13.67	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
		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
Shi Jiali (CHN) (1997)	time	2.68	3.76	4.84	5.88	6.94	8.02	9.08	10.16	11.28	12.40		13.68	8 / 6			
reaction time	0.176	interval	1.08	1.08	1.04	1.06	1.08	1.06	1.08	1.12	1.12	1.28			3.20	3.20	3.32
		velocity	4.85	7.87	7.87	8.17	8.02	7.87	8.02	7.87	7.59	7.59	8.20	7.31	7.97	7.97	7.68
Wang Li (CHN) (1999)	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	1.10	1.08	1.10	1.14	1.29				3.22	3.22	3.32
		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
Chen Yinfeng (CHN) (1998)	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	3.46
		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	7.37

2019 Nanjing World Challenge (Nanjing, CHN)

FINAL

		date	21-May-19	wind	-1.0 m/s												CAA Hurdle Development (2019)		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McNeal, Brianna (USA) (1991)	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	
		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	
Ali, Nia (USA) (1988)	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	
		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	
Clemons, Christina (USA) (1991)	time		2.53	3.53	4.56	5.55	6.53	7.55	8.52	9.55	10.56	11.62		12.79	6 / 3				
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	
		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	
Harrison, Queen (USA) (1988)	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	
		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	
Seymour, Pedrya (BAH) (1995)	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	
		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	
Roleder, Cindy (GER) (1989)	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	
		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	
Castlin, Kristi (USA) (1988)	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	3.09	3.10	
		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	8.25	8.23	
Wu Yanni (CHN) (1997)	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	1.05					3.15	3.14		
		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		
Chen Jiamin (CHN) (1996)	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	
		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	
Charlton, Devynne (BAH) (1991)	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		
		velocity	4.96	7.80	7.94	8.02	7.80	7.94	7.80	7.59				7.10		7.92	7.85		

2019 Seiko Golden Grand Prix (Osaka, JPN)

FINAL

		date	19-May-19	wind	0.4 m/s												Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Nelvis, Sharika (USA) (1990)	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
		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
Pearson, Sally (AUS) (1986)	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
		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
Seymour, Pedrya (BAH) (1995)	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
		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
Harrison, Queen (USA) (1988)	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
		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
Castlin, Kristi (USA) (1988)	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	3.02	3.11
		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	8.44	8.20
Kimura, Ayako (JPN) (1988)	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
		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
Tanaka, Yumi (JPN) (1998)	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
		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
Shimura, Hitomi (JPN) (1990)	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
		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
Aoki, Masumi (JPN) (1994)	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
		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

2019 IAAF World Relays - Shuttle Hurdle Relay (Yokohama, JPN)

Heat 2 - 1st Leg

date	11-May-19	wind	na	CAA Hurdle Development (2019)														
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Shi Jiali (CHN) (1997)	time	2.59	3.65	4.73	5.78	6.84	7.91	9.00	10.09	11.24	12.37		13.62	3 /				
reaction time	0.162	interval	1.06	1.08	1.05	1.06	1.07	1.09	1.09	1.15	1.13	1.25	(14.93)		3.19	3.22	3.37	
		velocity	5.02	8.02	7.87	8.10	8.02	7.94	7.80	7.80	7.39	7.52	8.40	7.34	57.54	7.99	7.92	7.57

Heat 2 - 3rd Leg

date	11-May-19	wind	na	CAA Hurdle Development (2019)														
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Wu Yanni (CHN) (1997)	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	
		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

2019 Kinami Memorial (Osaka, JPN)

FINAL

date	06-May-19	wind	0.5 m/s	Matsubayashi (2019) - research on athlete performance and technique- 2019 data book													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Britton, Evonne (USA) (1991)	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
		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
Shimura, Hitomi (JPN) (1990)	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
		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
Aoki, Masumi (JPN) (1994)	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
		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
Fukube, Mako (JPN) (1995)	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
		velocity	4.92	7.94	8.17	8.25	8.17	8.17	8.02	7.94	7.87	8.75	7.51		8.12	8.17	7.94
Tanaka, Yumi (JPN) (1998)	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			
reaction time		interval	1.06	1.06	1.03	1.04	1.04	1.04	1.04	1.09	1.10	1.24	PB		3.15	3.12	3.23
		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
Fujimori, Nana (JPN) (1997)	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		3.19	3.15	3.23
		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	8.10	7.89
Kiyoyama, Chisato (JPN) (1999)	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	
	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
Kanai, Marumi (JPN) (1997)	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	3.23	3.31
	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	7.89	7.70

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

FINAL

date		03-May-19		wind		0.9 m/s										<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Williams, Danielle (JAM) (1992)	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	interval	0.141		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		
	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		
Amusan, Tobi (NGR) (1997)	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	interval	0.147		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		
	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		
Nelvis, Sharika (USA) (1990)	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	interval	0.139		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		
	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		
Clemons, Christina (USA) (1991)	time	2.52	3.56	4.54	5.52	6.50	7.48	8.48	9.48	10.50	11.56		12.83	7 / 4					
reaction time	interval	0.142		1.04	0.98	0.98	0.98	1.00	1.00	1.02	1.06	1.27		3.00	2.96	3.08			
	velocity		5.16	8.17	8.67	8.67	8.67	8.50	8.50	8.33	8.02	8.27	7.79	8.50	8.61	8.28			
Camacho-Quinn, Jasmine (PU)	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	interval	0.182		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		
	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		
Herman, Elvira (BLR) (1997)	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	interval	0.136		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		
	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		
McNeal, Brianna (USA) (1991)	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	interval	0.163		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		
	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		
Hughes, Amber (USA) (1994)	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	interval	0.141		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		
	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		
Pedersen, Isabelle (NOR) (1992)	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	interval	0.187		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		
	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		

2019 Mikio Oda Memorial (Hiroshima, JPN)

A FINAL

date		28-Apr-19		wind		0.6 m/s										<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>			
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Pearson, Sally (AUS) (1986)	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			
	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		
Tanaka, Yumi (JPN) (1998)	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		
	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		
Shimura, Hitomi (JPN) (1990)	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			
	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		
Fukube, Mako (JPN) (1995)	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			
	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		
Fujimori, Nana (JPN) (1997)	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		3.20	3.16	3.29		
	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	8.07	7.75		
Kiyoyama, Chisato (JPN) (1999)	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			
	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		
Suzuki, Miho (JPN) (1996)	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			
	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		

Tanaka, Hikari (JPN) (1998)	time	2.70	3.78	4.85	5.91	6.97	8.03	9.11	10.20	11.29	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	1.09	1.12	1.24			3.21	3.20	3.30
	velocity	4.81	7.87	7.94	8.02	8.02	8.02	7.87	7.80	7.80	7.59	8.47	7.33		7.94	7.97	7.73

B FINAL

		date	28-Apr-19	wind	1.3 m/s													<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>		
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kobayashi, Ayumi (JPN) (2001)	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
	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
Okubo, Yuri (JPN) (1997)	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
	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
Nakamura, Yuki (JPN) (1995)	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
	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
Fujiwara, Miku (JPN) (1992)	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
	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
Kabayashi, Sayaka (JPN) (1996)	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
	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
Sasaki, Aogi (JPN) (1997)	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
	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
Shibata, Manaka (JPN) (2001)	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
	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

2019 Asian Athletics Championships (Doha, QAT)**FINAL**

		date	24-Apr-19	wind	1.3 m/s													<i>CAA Hurdle Development (2019)</i>		
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayako (JPN) (1988)	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
	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
Chen Jiamin (CHN) (1996)	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
	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
Aoki, Masumi (JPN) (1994)	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
	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
Lui Lai Yiu (HKG) (1994)	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
	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
Wu Yanni (CHN) (1997)	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
	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
Hsieh His-En (TPE) (1994)	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
	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
Jung Hye-Lim (KOR) (1987)	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
	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
Shynyzbekova, Aygerim (KAZ)	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
	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

Heat 2

		date	23-Apr-19	wind	1.9 m/s													<i>CAA Hurdle Development (2019)</i>		
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayako (JPN) (1988)	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	
	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	

Lui Lai Yiu (HKG) (1994)	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	PB	3.08	3.12	3.25
		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
Wu Yanni (CHN) (1997)	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
		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

Heat 1

date 23-Apr-19 wind 1.3 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Chen Jiamin (CHN) (1996)	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
		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
Aoki, Masumi (JPN) (1994)	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
		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
Hsieh His-En (TPE) (1994)	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	
		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	

2019 Chinese National Grand Prix 2 (Huangshi, CHN)**FINAL**

date 13-Apr-19 wind 0.3 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Chen Jiamin (CHN) (1996)	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	1.03	1.06	1.06	1.08	1.21			3.15	3.11	3.20
		velocity	4.85	8.02	8.10	8.17	8.17	8.25	8.02	8.02	7.87	8.68	7.49		8.10	8.20	7.97
Shi Jiali (CHN) (1997)	time	2.61	3.68	4.71	5.75	6.80	7.83	8.88	9.95	11.03	12.13		13.36	5 / 2			
reaction time	0.169	interval		1.07	1.03	1.04	1.05	1.03	1.05	1.07	1.08	1.10	1.23		3.14	3.13	3.25
		velocity	4.98	7.94	8.25	8.17	8.10	8.25	8.10	7.94	7.87	7.73	8.54	7.49	8.12	8.15	7.85
Yu Jiaru (CHN) (1999)	time	2.72	3.77	4.84	5.87	6.89	7.93	8.97	10.04	11.10	12.20		13.40	6 / 3			
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		3.15	3.10	3.23
		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	8.10	8.23	7.89
Wang Dou (CHN) (1993)	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			
reaction time	0.217	interval		1.09	1.04	1.04	1.06	1.06	1.06	1.07	1.07	1.10	1.18		3.17	3.18	3.24
		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	8.04	8.02	7.87
You Na (CHN) (1993)	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		3.16	3.18	3.27
		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
Luo Xianyan (CHN) (1997)	time	2.68	3.79	4.86	5.90	6.95	8.00	9.05	10.12	11.20	12.31		13.56	7 / 6			
reaction time	0.174	interval		1.11	1.07	1.04	1.05	1.05	1.05	1.07	1.08	1.11	1.25		3.22	3.15	3.26
		velocity	4.85	7.66	7.94	8.17	8.10	8.10	8.10	7.94	7.87	7.66	8.40	7.37	7.92	8.10	7.82
Dai Yiru (CHN) (2001)	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		3.22	3.19	3.35
		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
Wang Li (CHN) (1999)	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
		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 4

date 13-Apr-19 wind 0.1 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jiang Liyunzhe (CHN) (2002)	time	2.70	3.84	4.96	6.10	7.18	8.28	9.41	10.56	11.72	12.87		14.17	5 / 1			
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		3.40	3.31	3.46
		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
Guo Jinglei (CHN) (2000)	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
		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
Yao Hui (CHN) (2000)	time	2.70	3.82	4.92	6.02	7.12	8.24	9.36	10.52	11.69	12.87		14.21	4 / 3			
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		3.32	3.34	3.51
		velocity	4.81	7.59	7.73	7.73	7.73	7.59	7.59	7.33	7.26	7.20	7.84	7.04	7.68	7.63	7.26

Heat 3

date 13-Apr-19 wind 1.0 m/s

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Luo Xianyan (CHN) (1997)	time	2.66	3.75	4.82	5.86	6.90	7.93	9.01	10.10	11.18	12.29		13.58	4 / 1			
reaction time	0.158	interval		1.09	1.07	1.04	1.04	1.03	1.08	1.09	1.08	1.11	1.29		3.20	3.15	3.28
		velocity															

	velocity	4.89	7.80	7.94	8.17	8.17	8.25	7.87	7.80	7.87	7.66	8.14	7.36		7.97	8.10	7.77
Wang Li (CHN) (1999)	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
	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
Lin Yuwei (CHN) (1999)	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
	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

Heat 2

		date	13-Apr-19	wind	0.2 m/s												CAA Hurdle Development (2019)		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shi Jiali (CHN) (1997)	time			2.66	3.73	4.79	5.84	6.89	7.94	9.01	10.09	11.19	12.30		13.59	3 / 1			
	reaction time	0.187	interval	1.07	1.06	1.05	1.05	1.05	1.07	1.08	1.10	1.11	1.29				3.18	3.17	3.29
	velocity			4.89	7.94	8.02	8.10	8.10	8.10	7.94	7.87	7.73	7.66	8.14	7.36		8.02	8.04	7.75
Dai Yiru (CHN) (2001)	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
	velocity			4.85	7.73	8.02	8.02	8.10	7.94	7.87	7.87	7.26	7.84	7.22			7.92	7.97	7.46
Wang Dou (CHN) (1993)	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			
	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				3.24	3.26	3.38
	velocity			4.68	7.87	7.87	7.87	8.02	7.87	7.59	7.73	7.52	7.39	8.40	7.19		7.87	7.82	7.54

Heat 1

		date	13-Apr-19	wind	0.7 m/s												CAA Hurdle Development (2019)		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yu Jiaru (CHN) (1999)	time			2.72	3.80	4.87	5.92	6.98	8.02	9.08	10.16	11.24	12.34		13.57	8 / 1			
	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				3.20	3.16	3.26
	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		7.97	8.07	7.82
You Na (CHN) (1993)	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
	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
Chen Jiamin (CHN) (1996)	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
	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

2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)

FINAL

		date	09-Apr-19	wind	0.1 m/s												CAA Hurdle Development (2019)		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shi Jiali (CHN) (1997)	time			2.67	3.73	4.79	5.83	6.87	7.90	8.93	9.97	11.03	12.12		13.35	6 / 1			
	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
	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
Wang Dou (CHN) (1993)	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			
	reaction time	0.174	interval	1.07	1.06	1.06	1.04	1.08	1.04	1.06	1.06	1.10	1.19				3.19	3.16	3.22
	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		7.99	8.07	7.92
Wu Yanni (CHN) (1997)	time			2.78	3.86	4.92	5.97	7.02	8.06	9.11	10.20	11.28	12.38		13.63	5 / 3			
	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
	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
Yu Jiaru (CHN) (1999)	time			2.77	3.85	4.94	5.99	7.04	8.12	9.18	10.24	11.34	12.44		13.68	9 / 4			
	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				3.22	3.19	3.26
	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		7.92	7.99	7.82
Chen Jiamin (CHN) (1996)	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
	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
Luo Xianyan (CHN) (1997)	time			2.72	3.84	4.93	6.00	7.06	8.14	9.21	10.30	11.41	12.49		13.76	3 / 6			
	reaction time	0.167	interval	1.12	1.09	1.07	1.06	1.08	1.07	1.09	1.11	1.08	1.27				3.28	3.21	3.28
	velocity			4.78	7.59	7.80	7.94	8.02	7.87	7.94	7.80	7.66	7.87	8.27	7.27		7.77	7.94	7.77
Wang Li (CHN) (1999)	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
	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
Deng Xuelin (CHN) (1998)	time			2.76	3.84	4.89	5.94	7.00	8.04	9.09	10.20					8 / --			
	reaction time	0.234	interval	1.08	1.05	1.05	1.06	1.04	1.05	1.11				DQ			3.18	3.15	
	velocity			4.71	7.87	8.10	8.10	8.02	8.17	8.10	7.66						8.02	8.10	

Heat 4

		date	08-Apr-19	wind	0.1 m/s												CAA Hurdle Development (2019)		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Chen Jiamin (CHN) (1996)	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	1.07	1.11	1.29			3.17	3.21	3.27	
		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
Luo Xianyan (CHN) (1997)		time	2.72	3.82	4.90	5.97	7.04	8.11	9.18	10.28	11.40	12.50		13.78	2 / 2			
reaction time	0.181	interval	1.10	1.08	1.07	1.07	1.07	1.07	1.10	1.12	1.10	1.28			3.25	3.21	3.32	
		velocity	4.78	7.73	7.87	7.94	7.94	7.94	7.94	7.73	7.59	7.73	8.20	7.26		7.85	7.94	7.68

Heat 3

	date	08-Apr-19	wind	1.0 m/s														CAA Hurdle Development (2019)		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Shi Jiali (CHN) (1997)	time		2.64	3.73	4.79	5.84	6.87	7.92	8.98	10.03	11.12	12.20		13.42	4 / 1					
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		
		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		
Yu Jiaru (CHN) (1999)	time		2.78	3.85	4.92	5.99	7.03	8.09	9.17	10.24	11.30	12.41		13.63	8 / 2					
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				3.21	3.18	3.24		
		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		7.94	8.02	7.87		

Heat 2

	date	08-Apr-19	wind	-0.2 m/s														CAA Hurdle Development (2019)		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Deng Xuelin (CHN) (1998)	time		2.72	3.81	4.87	5.91	6.97	8.04	9.13	10.22	11.31	12.44		13.68	8 / 1					
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		
		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		
Wang Li (CHN) (1999)	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		
		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		

Heat 1

	date	08-Apr-19	wind	-1.0 m/s														CAA Hurdle Development (2019)		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Wu Yanni (CHN) (1997)	time		2.73	3.79	4.86	5.90	6.93	7.98	9.04	10.10	11.17	12.27		13.51	4 / 1					
reaction time	0.184	interval	1.06	1.07	1.04	1.03	1.05	1.06	1.06	1.06	1.07	1.10	1.24			3.17	3.14	3.23		
		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		
Wang Dou (CHN) (1993)	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					
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				3.18	3.17	3.25		
		velocity	4.74	8.02	8.02	8.02	8.02	8.17	7.94	7.94	7.73	7.87	8.47	7.36		8.02	8.04	7.85		

2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)**A-FINAL**

	date	20-Mar-19											CAA Hurdle Development (2019)						
			H1	H2	H3	H4	H5							Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
You Na (CHN) (1993)	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		
Shi Jiali (CHN) (1997)	time		2.65	3.74	4.81	5.87	6.94								8.39	4 / 2			
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		
Dai Yiru (CHN) (2001)	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		
Yu Jiaru (CHN) (1999)	time		2.74	3.84	4.91	5.99	7.04								8.47	2 / 4			
reaction time		interval	1.10	1.07	1.08	1.05							1.43			3.25			
		velocity	4.74	7.73	7.94	7.87	8.10							9.09	7.08		7.85		

B-FINAL

	date	20-Mar-19											CAA Hurdle Development (2019)						
			H1	H2	H3	H4	H5							Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Chen Jiamin (CHN) (1996)	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		
Wang Dou (CHN) (1993)	time		2.71	3.79	4.86	5.90	6.96								8.35	5 / 2			
reaction time		interval	1.08	1.07	1.04	1.06							1.39			3.19			
		velocity	4.80	7.87	7.94	8.17	8.02							9.35	7.19		7.99		
Luo Xianyan (CHN) (1997)	time		2.70	3.80	4.89	5.94	7.01								8.51	4 / 3			
reaction time		interval	1.10	1.09	1.05	1.07							1.50			3.24			
		velocity	4.81	7.73	7.80	8.10	7.94							8.67	7.05		7.87		
Wang Li (CHN) (1999)	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		

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

date 9-Mar-19

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

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Brissett, Chanel (USA) (1999)	time	2.53	3.53	4.53	5.51	6.49		7.90	3 / 1			
	reaction time	0.190	interval	1.00	1.00	0.98	0.98	1.41	=PB		2.98	
	velocity	5.14	8.50	8.50	8.67	8.67	9.22	7.59		8.56		
White, Kayla (USA) (1996)	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	
	velocity	5.20	8.33	8.67	8.33	8.42	9.35	7.58		8.44		
Chadwick, Payton (USA) (1999)	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		
Taylor, Naomi (USA) (1998)	time	2.53	3.55	4.58	5.58	6.56		8.01	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		
Brown, Janeek (JAM) (1998)	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		
Hall, Dior (USA) (1996)	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		

2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)**A-FINAL**

date 4-Mar-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
You Na (CHN) (1993)	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		
Dai Yiru (CHN) (2001)	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		
Zhang Yi (CHN) (2000)	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		
Guo Jinglei (CHN) (2000)	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		

B-FINAL

date 4-Mar-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Chen Jiamin (CHN) (1996)	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		
Li Danyang (CHN) (1997)	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		
Li Mengyu (CHN) (2002)	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		
Huo Xuanyi (CHN) (1998)	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		

2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)**A-FINAL**

date 28-Feb-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Chen Jiamin (CHN) (1996)	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		
You Na (CHN) (1993)	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		
Dai Yiru (CHN) (2001)	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		

Zhang Yi (CHN) (2000)	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

B-FINAL

date 28-Feb-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jie Zhimao (CHN) (1998)	time	2.68	3.82	4.92	6.01	7.09		8.47	4 / 1			
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	
Li Danyang (CHN) (1997)	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 Mengyu (CHN) (2002)	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	
Guo Jinglei (CHN) (2000)								DQ	4 / --			

2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)**A-FINAL**

date 24-Feb-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shi Jiali (CHN) (1997)	time	2.65	3.74	4.80	5.84	6.91		8.35	3 / 1			
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	
Yu Jiaru (CHN) (1999)	time	2.73	3.84	4.92	6.01	7.09		8.50	2 / 2			
reaction time	interval		1.11	1.08	1.09	1.08	1.41				3.28	
	velocity	4.76	7.66	7.87	7.80	7.87	9.22	7.06			7.77	
Wang Li (CHN) (1999)	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	
Luo Xianyan (CHN) (1997)	time	2.68	3.80	4.90	6.00	7.09		8.57	5 / 4			
reaction time	interval		1.12	1.10	1.10	1.09	1.48				3.32	
	velocity	4.85	7.59	7.73	7.73	7.80	8.78	7.00			7.68	

B-FINAL

date 24-Feb-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wang Dou (CHN) (1993)	time	2.73	3.84	4.92	5.99	7.06		8.47	4 / 1			
reaction time	interval		1.11	1.08	1.07	1.07	1.41				3.26	
	velocity	4.76	7.66	7.87	7.94	7.94	9.22	7.08			7.82	
Ge Ge (CHN) (2000)	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	
Li Jinyu (CHN) (1999)	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	
Yao Hui (CHN) (2000)	time	2.77	3.93	5.07	6.19	7.32		8.82	3 / 4			
reaction time	interval		1.16	1.14	1.12	1.13	1.50				3.42	
	velocity	4.69	7.33	7.46	7.59	7.52	8.67	6.80			7.46	

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

date 20-Feb-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shi Jiali (CHN) (1997)	time	2.68	3.74	4.81	5.88	6.96		8.40	3 / 1			
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	
Wang Dou (CHN) (1993)	time	2.73	3.82	4.89	5.96	7.00		8.43	4 / 2			
reaction time	interval		1.09	1.07	1.07	1.04	1.43				3.23	
	velocity	4.76	7.80	7.94	7.94	8.17	9.09	7.12			7.89	
Deng Xuelin (CHN) (1998)	time	2.73	3.82	4.89	5.96	7.00		8.46	2 / 3			
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	
Wang Li (CHN) (1999)	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	

B-FINAL

date 20-Feb-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yu Jiaru (CHN) (1999)	time	2.73	3.82	4.92	6.02	7.09		8.53	3 / 1			
	reaction time		1.09	1.10	1.10	1.07	1.44			3.29		
	velocity	4.76	7.80	7.73	7.73	7.94	9.03	7.03		7.75		
Xiao Juxiu (CHN) (1998)	time	2.77	3.87	4.99	6.10	7.19		8.60	2 / 2			
	reaction time		1.10	1.12	1.11	1.09	1.41			3.33		
	velocity	4.69	7.73	7.59	7.66	7.80	9.22	6.98		7.66		
Luo Xianyan (CHN) (1997)	time	2.70	3.82	4.92	6.02	7.11		8.62	4 / 3			
	reaction time		1.12	1.10	1.10	1.09	1.51			3.32		
	velocity	4.81	7.59	7.73	7.73	7.80	8.61	6.96		7.68		
Jiang Liyunzhe (CHN) (2002)	time	2.77	3.90	5.04	6.17	7.30		8.77	5 / 4			
	reaction time		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		

2019 ISTAF Indoor (Berlin, GER) (TV Analysis)**FINAL**

date 1-Feb-19

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

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Dutkiewicz, Pamela (GER) (1995)	time	2.54	3.56	4.56	5.54	6.52		7.89	4 / 1			
	reaction time	0.121	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	7.60		8.50		
Roleder, Cindy (GER) (1989)	time	2.58	3.58	4.58	5.56	6.54		7.91	3 / 2			
	reaction time	0.126	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		
Herman, Elvira (BLR) (1997)	time	2.60	3.62	4.62	5.60	6.58		7.97	5 / 3			
	reaction time	0.142	1.02	1.00	0.98	0.98	1.39	=PB		3.00		
	velocity	5.00	8.33	8.50	8.67	8.67	9.35	7.53		8.50		
Kozák, Luca (HUN) (1996)	time	2.60	3.62	4.66	5.68	6.68		8.07	2 / 4			
	reaction time	0.153	1.02	1.04	1.02	1.00	1.39	=PB		3.08		
	velocity	5.00	8.33	8.17	8.33	8.50	9.35	7.43		8.28		
Grauvogel, Louisa (GER) (1991)	time	2.62	3.66	4.70	5.72	6.74		8.12	1 / 5			
	reaction time	0.138	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		

2018 National Sports Festival (Fukui, JPN)**FINAL**

date 08-Oct-18

wind 2.5 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kobayashi, Ayumi (JPN) (2001)	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	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
	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
Shibata, Aika (JPN) (2001)	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	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
	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
Nagasaki, Sayuri (JPN) (2001)	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	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
	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
Nakao, Ayumi (JPN) (2000)	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	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
	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
Adachi, Karen (JPN) (2001)	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	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
	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
Shishido, Riko (JPN) (2000)	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	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
	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
Tamai, Nana (JPN) (2000)	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	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
	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
Uenosono, Yuiko (JPN) (2000)	time	2.67	3.76	4.85	5.92	6.99	8.13	9.26	10.40	11.55	12.69		13.94	1 / 8			
	reaction time	0.149	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
	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

U18 FINAL (76cm)

date 07-Oct-18

wind 2.0 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Iwasa, Mayuko (JPN) (2002)	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
	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
Ayuhashi, Yumeka (JPN)	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
	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
Toki, Asaki (JPN)	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
	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
Matsumoto, Kaotaya (JPN)	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
	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
Tsuchiya, Honoka (JPN) (2004)	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
	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
Chiba, Momoko (JPN) (1999)	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
	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
Ito, Ayaka (JPN)	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
	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
Matata, Koki (JPN)	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
	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

2018 Chinese National Championships (Taiyuan, CHN)**FINAL**

date 16-Sep-18

wind -0.2 m/s

Henson (2018) - coaching observations

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Yanni (CHN) (1997)	time	2.69	3.75	4.78	5.80	6.81	7.81	8.84	9.88	10.93	12.00		13.17	3 / 1			
	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
	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
Deng Xuelin (CHN) (1998)	time	2.74	3.81	4.83	5.89	6.92	7.96	8.97	10.04	11.08	12.19		13.38	4 / 2			
	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
	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
Wang Dou (CHN) (1993)	time	2.72	3.80	4.85	5.90	6.96	8.01	9.06	10.14	11.23	12.32		13.48	7 / 3			
	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
	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
Chen Jiamin (CHN) (1996)	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
	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
Lin Yuwei (CHN) (1999)	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
	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
Shi Jiali (CHN) (1997)	time	2.70	3.76	4.82	5.88	6.94	7.99	9.04	10.11	11.21	12.33		13.60	2 / 6			
	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
	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
Wang Li (CHN) (1999)	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
	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
Chen Yinfeng (CHN) (1998)	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	3.33
	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	7.66

Heat 2

date 15-Sep-18

wind 0.0 m/s

Henson (2018) - coaching observations

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Yanni (CHN) (1997)	time	2.76	3.82	4.87	5.89	6.92	7.93	8.95	9.99	11.06	12.12		13.33	5 / 1			
	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
	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

Deng Xuelin (CHN) (1998)	time	2.72	3.79	4.82	5.91	6.93	7.98	9.01	10.06	11.13	12.23		13.45	3 / 2			
	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
	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
Wang Dou (CHN) (1993)	time	2.75	3.85	4.94	6.01	7.07	8.14	9.21	10.29	11.40	12.48		13.65	7 / 3			
	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
	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
Shi Jiali (CHN) (1997)	time	2.68	3.76	4.82	5.87	6.96	8.03	9.09	10.21	11.33	12.46		13.72	4 / 4			
	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
	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
Chen Yinfeng (CHN) (1998)	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	3.32
	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
Dai Yiru (CHN) (2001)	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
	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
Jie Zhimao (CHN) (1998)	time	2.78	3.95	5.03	6.17	7.29	8.44	9.58	10.74	11.93	13.18		14.49	6 / 7			
	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
	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
Zhuang Dongmei (CHN) (2000)	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
	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

Heat 1

date 15-Sep-18 wind -0.6 m/s Henson (2018) - coaching observations

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Chen Jiamin (CHN) (1996)	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
	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
Lin Yuwei (CHN) (1999)	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
	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
Wang Li (CHN) (1999)	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
	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
Lou Xianyan (CHN) (1997)	time	2.81	3.90	5.00	6.07	7.16	8.25	9.33	10.46	11.57	12.70		13.96	4 / 4			
	reaction time	interval	1.09	1.10	1.07	1.09	1.09	1.08	1.13	1.11	1.13	1.26			3.26	3.26	3.37
	velocity	4.63	7.80	7.73	7.94	7.80	7.80	7.87	7.52	7.66	7.52	8.33	7.16		7.82	7.82	7.57
Yu Jiaru (CHN) (1999)	time	2.75	3.90	5.00	6.09	7.19	8.27	9.37	10.49	11.61	12.76		14.00	8 / 5			
	reaction time	interval	1.15	1.10	1.09	1.10	1.08	1.10	1.12	1.12	1.15	1.24			3.34	3.28	3.39
	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		7.63	7.77	7.52
Xiao Juxiu (CHN) (1998)	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	3.47
	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	7.35
Hao Ling (CHN) (1996)	time	2.80	3.94	5.02	6.10	7.19	8.31	9.43	10.58	11.76	12.98		14.34	3 / 7			
	reaction time	interval	1.14	1.08	1.08	1.09	1.12	1.12	1.15	1.18	1.22	1.36			3.30	3.33	3.55
	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		7.73	7.66	7.18
Zhang Xueqing (CHN) (1997)	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
	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

2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)

FINAL

date 08-Sep-18 wind -0.1 m/s Henson (2021) - Athlete First: 2018 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
Williams, Danielle (JAM) (1992)	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
	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
Harrison, Kendra (USA) (1992)	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
	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
Dutkiewicz, Pamela (GER) (1991)	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
	velocity	5.16	8.50	8.50	8.50	8.67	8.50	8.50	8.50	8.67	8.33	8.02	8.33	7.80		8.50	8.56

Herman, Elvira (BLR) (1997)	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
	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
Amusan, Tobi (NGR) (1997)	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	1.02	1.04	1.30			3.08	3.00	3.06
	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
Kimura, Ayako (JPN) (1988)	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
	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
Koala, Martha Yasmine (BUR)	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
	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
Jenneke, Michelle (AUS) (1993)	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
	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

2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)

FINAL

		date	31-Aug-18	wind	0.1 m/s	Henson (2020) - Athlete First: 2018 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
McNeal, Brianna (USA) (1991)	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	
	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	
Harrison, Kendra (USA) (1992)	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	
	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	
Williams, Danielle (JAM) (1992)	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	
	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	
Amusan, Tobi (NGR) (1997)	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	
	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	
Nelvis, Sharika (USA) (1990)	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	
	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	
Visser, Nadine (NED) (1995)	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	
	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	
Berings, Eline (BEL) (1986)	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	
	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	
Harper-Nelson, Dawn (USA) (1991)	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	
	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	
Manning, Christina (USA) (1991)	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	
	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	

2018 Japanese National High School Championships (Nagoya, JPN)

FINAL

		date	02-Aug-18	wind	-0.3 m/s	Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kobayashi, Ayumi (JPN) (2001)	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
	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	
Adachi, Karen (JPN) (2001)	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
	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	
Shibata, Aika (JPN) (2001)	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
	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	
Ibaraki, Rin (JPN) (2001)	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	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	
	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
Nagaskai, Sayuri (JPN) (2001)	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	1.11	1.13	1.22		3.28	3.26	3.34
	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
Nakao, Ayumi (JPN) (2000)	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
	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
Ban, Nozumi (JPN) (2001)	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
	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
Uenosono, Yuiko (JPN) (2000)	time	2.72	3.85	4.95	6.06	7.20	8.33	9.46	10.59	11.78	12.95		14.26	9 / 8		
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
	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

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

FINAL

date		22-Jul-18		wind		0.6 m/s												Henson (2020) - Athlete First: 2018 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			
Harrison, Kendra (USA) (1992)	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			
	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			
McNeal, Brianna (USA) (1991)	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			
	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			
Nelvis, Sharika (USA) (1990)	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			
	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			
Williams, Danielle (JAM) (1992)	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			
	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			
Manning, Christina (USA) (1991)	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			
	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			
Harrison, Queen (USA) (1988)	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			
	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			
Amusan, Tobi (NGR) (1997)	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			
	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			
Pedersen, Isabelle (NOR) (1999)	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	1.00	1.00	1.00	1.02	1.06	1.21			2.96	2.96	3.08			
	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			
Herman, Elvira (BLR) (1997)	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			
	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			

2018 IAAF World Junior Championships (Tampere, FIN)

FINAL

date		15-Jul-18		wind		-1.0 m/s												Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad		
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Jones, Tia (USA) (2000)	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			
	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			
Anderson, Britany (JAM) (2000)	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			
	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			
Jones, Courtney (USA) (1999)	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			
	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			

Semi-Final 2

date		14-Jul-18		wind		0.9 m/s												Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad		
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Yoshita, Airi (JPN) (1999)	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
		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

2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)

FINAL

	date	13-Jul-18	wind	0.1 m/s	Henson (2020) - Athlete First: 2018 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
McNeal, Brianna (USA) (1991)	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			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
		interval																
		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
Nelvis, Sharika (USA) (1990)	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			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
		interval																
		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
Manning, Christina (USA) (1991)	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			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
		interval																
		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
Harper-Nelson, Dawn (USA) (1991)	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			1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.26		3.00	3.00	3.08	
		interval																
		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
Amusan, Tobi (NGR) (1997)	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			1.02	1.02	1.00	1.00	1.00	1.00	1.02	1.04	1.25		3.04	3.00	3.06	
		interval																
		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
Roleder, Cindy (GER) (1989)	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			1.04	0.98	1.00	1.00	1.00	1.02	1.00	1.06	1.21		3.02	3.00	3.08	
		interval																
		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
Dutkiewicz, Pamela (GER) (1991)	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			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
		interval																
		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
Thompson, Yanique (JAM) (1991)	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			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
		interval																
		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
Boons, Eefje (NED) (1994)	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			1.08	1.04	1.02	1.02	1.02	1.06	1.06	1.08	1.32		3.14	3.06	3.20	
		interval																
		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

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

FINAL

	date	09-Jul-18	wind	0.9 m/s	Henson (2020) - Athlete First: 2018 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
McNeal, Brianna (USA) (1991)	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				0.98	0.98	0.98	0.96	0.96	0.96	0.98	1.02	1.16		2.94	2.90	2.96	
		interval																
		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
Dutkiewicz, Pamela (GER) (1991)	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				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
		interval																
		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
Manning, Christina (USA) (1991)	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				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
		interval																
		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
Harrison, Queen (USA) (1988)	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				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
		interval																
		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
Amusan, Tobi (NGR) (1997)	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				1.00	1.04	0.96	0.96	1.00	1.00	1.02	1.04	1.20		3.00	2.96	3.08	
		interval																
		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
Roleder, Cindy (GER) (1989)	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				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
		interval																
		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
Thompson, Yanique (JAM) (1991)	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				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
		interval																
		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
Kozák, Luca (HUN) (1996)	time		2.68											dnf	8 / 8			
	reaction time																	
		interval																
		velocity	4.85															

2018 Japanese National Championships (Yamaguchi, JPN)**FINAL**

		date	24-Jun-18	wind	Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad															
				1.1 m/s	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Aoki, Masumi (JPN) (1994)	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
			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
Shimura, Hitomi (JPN) (1990)	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
			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
Kimura, Ayako (JPN) (1988)	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
			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
Kiyoyama, Chisato (JPN) (1999)	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
			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
Nomura, Yuka (JPN) (1987)	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
			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
Tanaka, Hikari (JPN) (1998)	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
			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
Fukube, Mako (JPN) (1995)	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
			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
Okubo, Yuri (JPN) (1997)	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
			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

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

		date	23-Jun-18	wind	Henson (2020) - Athlete First: 2018 year end hurdle report															
				-1.4 m/s	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harrison, Kendra (USA) (1992)	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
			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
Manning, Christina (USA) (1999)	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
			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
Nelvis, Sharika (USA) (1990)	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
			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
Harrison, Queen (USA) (1988)	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
			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
Harper-Nelson, Dawn (USA) (1992)	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
			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
Carter, Kori (USA) (1992)	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
			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
Johnson, Alaysha (USA) (1996)	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
			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

2018 Japanese National Multi-Event Championships (Nagano, JPN)**Heptathlon - Heat 3**

		date	16-Jun-18	wind	Matsubayashi (2018) - research on athlete performance and technique- 2018 data book															
				1.6 m/s	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hemphill, Megu (JPN) (1996)	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
			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
Kiryama, Chie (JPN) (1991)	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

	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	
Utsunomiya, Eri (JPN) (1993)	time	2.74	3.83	4.94	6.02	7.09	8.19	9.31	10.39	11.49	12.62		13.80		5 / 3			
	reaction time	interval	1.09	1.11	1.08	1.07	1.10	1.12	1.08	1.10	1.13	1.18	PB		3.28	3.29	3.31	
	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	
Yamasaki, Yuki (JPN) (1995)	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	
	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	

2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)

FINAL

date		10-Jun-18	wind	1.3 m/s	Henson (2020) - Athlete First: 2018 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	
McNeal, Brianna (USA) (1991)	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	1.00	1.00	1.14			2.92	2.88	2.96	
	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	
Williams, Danielle (JAM) (1992)	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	0.98	1.02	1.16	PB		2.96	2.88	2.96	
	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	
Talay, Alina (BLR) (1989)	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	
	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	
Visser, Nadine (NED) (1995)	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	
	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	
Manning, Christina (USA) (1991)	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	1.06	1.27			2.98	2.96	3.06	
	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	
Harper-Nelson, Dawn (USA) (1991)	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	
	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	
Pedersen, Isabelle (NOR) (1997)	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	
	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	
Westerlund, Elin (SWE) (1990)	time	2.56	3.62	4.70	5.76	6.78	7.80	8.84	9.90	10.96	12.04		13.29		8 / 8			
	reaction time	0.148	interval	1.06	1.08	1.06	1.02	1.04	1.06	1.06	1.08	1.25			3.20	3.08	3.20	
	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	

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

FINAL

date		09-Jun-18	wind	0.9 m/s	Henson (2020) - Athlete First: 2018 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	
Camacho-Quinn, Jasmine (PU) (1991)	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	
	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	
Charlton, Devynne (BAH) (1991)	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	
	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	
Jones, Cortney (USA) (1999)	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	
	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	
Seymour, Pedrya (BAH) (1995)	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	
	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	
Brown, Janeek (JAM) (1998)	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	
	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	
Marshall, Tonea (USA) (1998)	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	
	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	

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

FINAL

date		07-Jun-18	wind	1.1 m/s	Henson (2020) - Athlete First: 2018 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	
Williams, Danielle (JAM) (1992)	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	
		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
Talay, Alina (BLR) (1989)	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	
		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
Harrison, Queen (USA) (1988)	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	
		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
Pedersen, Isabelle (NOR) (1999)	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	
		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
Roleder, Cindy (GER) (1989)	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	
		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
Berings, Eline (BEL) (1986)	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	
		velocity	5.16	8.17	8.50	8.50	8.50	8.33	8.17	8.33	8.33	8.54	7.76		8.39	8.44	8.28	
Owens, Bridgette (USA) (1992)	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	
		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
Stowers, Jasmin (USA) (1991)	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	1.10	1.21			3.06	3.06	3.14	
		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

2018 Fuse Sprint (Tottori, JPN)

FINAL

	date	03-Jun-18	wind	0.6 m/s			Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad										Lane / Place	H1-H4	H4-H7	H7-H10
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time					
Jung Hye-Lim (KOR) (1987)	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		
	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		
Shimura, Hitomi (JPN) (1990)	time	2.63	3.69	4.72	5.74	6.76	7.80	8.84	9.88	10.93	11.99			13.18	/ 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		
	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		
Fukube, Mako (JPN) (1995)	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		
	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		
Kimura, Ayako (JPN) (1988)	time	2.65	3.73	4.79	5.83	6.84	7.87	8.91	9.97	11.05	12.13			13.41	/ 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		
	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		
Kiyoyama, Chisato (JPN) (1999)	time	2.67	3.73	4.80	5.84	6.88	7.91	8.95	9.99	11.08	12.21			13.44	/ 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		
	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		
Fujimori, Nana (JPN) (1997)	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	3.20	3.34		
	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	7.97	7.63		
Nakamura, Yuki (JPN) (1995)	time	2.70	3.80	4.86	5.92	6.98	8.03	9.12	10.22	11.36	12.50			13.73	/ 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		
	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		

2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)

FINAL

	date	31-May-18	wind	0.0 m/s			Henson (2020) - Athlete First: 2018 year end hurdle report										Lane / Place	H1-H4	H4-H7	H7-H10
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time					
Nelvis, Sharika (USA) (1990)	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		
		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		
Williams, Danielle (JAM) (1992)	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	0.98	1.04	1.02	1.20				3.06	3.00	3.04		
		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		
Amusan, Tobi (NGR) (1997)	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	1.02	1.20				3.08	3.00	3.02		
		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		

Visser, Nadine (NED) (1995)	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			
	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
	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
Herman, Elvira (BLR) (1997)	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
	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
Harper-Nelson, Dawn (USA) (1997)	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
	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
Valette, Laura (FRA) (1997)	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
	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
di Lazzaro, Elisa Maria (ITA) (1997)	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
	velocity	4.85	7.87	7.87	8.33	8.02	8.17	8.02	8.02	8.02	7.87	7.87	8.20	7.40	8.02	8.07	7.92
McNeal, Brianna (USA) (1991)	time	2.48	3.60	4.90									15.80	5 / 9			
	reaction time	0.155	interval	1.12	1.30												
	velocity	5.24	7.59	6.54													

2018 Leise Prokop Memorial (St. Pölten, AUT) (TV Analysis)**FINAL**

date	31-May-18	wind	0.5 m/s	Henson (2021) - Athlete First: 2018 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
Talay, Alina (BLR) (1989)	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
	velocity	5.16	8.50	8.67	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.50	9.13	8.06	8.67	8.85	8.73

Heat 1

date	31-May-18	wind	0.1 m/s	Henson (2021) - Athlete First: 2018 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
Talay, Alina (BLR) (1989)	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
	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	

2018 Shimane High School Championships (Izumo, JPN)**FINAL**

date	27-May-18	wind	1.2 m/s	Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Nagamine, Sayuri (JPN) (2001)	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	1.10	1.13	1.12	1.25			3.35	3.32	3.35
	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
高田 桃花	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	1.15	1.15	1.19	1.20	1.29			3.35	3.41	3.54
	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
大下 愛梨	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
	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
拜上 芽生	time	2.97	4.22	5.47	6.73	7.98	9.23	10.52	11.82	13.13	14.47		15.98	6 / 4			
	reaction time	interval	1.25	1.25	1.26	1.25	1.25	1.29	1.30	1.31	1.34	1.51			3.76	3.79	3.95
	velocity	4.38	6.80	6.80	6.75	6.80	6.80	6.59	6.54	6.49	6.34	6.66	6.26		6.78	6.73	6.46
大林 里沙子	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
	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
高田 菜月	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
	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

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

date	20-May-18	wind	-0.6 m/s	Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harrison, Queen (USA) (1988)	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
	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
Jung Hye-Lim (KOR) (1987)	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
	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

Morgan, Monique (JAM) (1988)	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	
		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
Kimura, Ayako (JPN) (1988)	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	
		velocity	4.92	8.02	8.25	8.25	8.25	8.10	8.10	7.94	7.87	8.68	7.53		8.17	8.20	7.97	
Shimura, Hitomi (JPN) (1990)	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	
		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
Aoki, Masumi (JPN) (1994)	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	
		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
Wallace, Sasha (USA) (1995)	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	
		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
Soma, Eriko (JPN) (1991)	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	
		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

2018 South Eastern Conference Championships (Knoxville, TN) (TV Analysis)

FINAL

	date	13-May-18	wind	1.2 m/s	Henson (2020) - Athlete First: 2018 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
Camacho-Quinn, Jasmine (PU)	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	
	velocity	5.31	8.42	8.50	9.04	8.85	8.85	8.95	8.85	8.85	8.76	8.67	8.61	8.06		8.64	8.89	8.76
Duncan, Alexis (USA) (1998)	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	
	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	
Brown, Janeek (JAM) (1998)	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	
	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	
Brooks, Taliyah (USA) (1995)	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	
	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	
Humphrey, Brittley (USA) (1991)	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	
	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	

2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)

FINAL

	date	12-May-18	wind	0.9 m/s	Henson (2020) - Athlete First: 2018 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
McNeal, Brianna (USA) (1991)	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	
		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
Nelvis, Sharika (USA) (1990)	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	
		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
Harrison, Kendra (USA) (1992)	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	
		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
Stowers, Jasmin (USA) (1991)	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	1.04	1.21			3.00	2.96	3.04	
		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
Pedersen, Isabelle (NOR) (1992)	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	
		velocity	5.24	8.33	8.67	8.67	8.67	8.50	8.50	8.33	8.02	8.33	7.84		8.56	8.61	8.28	
Visser, Nadine (NED) (1995)	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	
		velocity	5.16	8.33	8.67	8.67	8.50	8.50	8.50	8.33	8.02	8.54	7.81		8.56	8.50	8.28	
Roleder, Cindy (GER) (1989)	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	

	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	
Harper-Nelson, Dawn (USA)	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	1.04	1.04	1.00	1.00	1.00	1.02	1.00	1.04	1.04	1.24			3.08	3.02	3.08
	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
Wu Shujiao (CHN) (1991)	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	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
	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

2018 Kinami Michitaka Memorial (Osaka, JPN)

FINAL

	date	06-May-18	wind	-0.5 m/s	Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jung Hye-Lim (KOR) (1987)	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		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
	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	
Shimura, Hitomi (JPN) (1990)	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		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
	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	
Kiyoyama, Chisato (JPN) (1999)	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		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
	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	
Tanaka, Yumi (JPN) (1998)	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		1.07	1.05	1.05	1.06	1.05	1.05	1.08	1.07	1.10	1.19				3.17	3.16	3.25
	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	
Nakamura, Yuki (JPN) (1995)	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		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
	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	
Sasaki, Takashi (JPN)	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		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
	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	
Aoki, Masumi (JPN) (1994)	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		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
	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	
Kataoka, Saki (JPN) (1996)	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		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
	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	

2018 Doha Diamond League (Doha, QAT) (TV Analysis)

FINAL

	date	04-May-18	wind	0.5 m/s	Henson (2020) - Athlete First: 2018 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
Harrison, Kendra (USA) (1992)	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	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
	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	
McNeal, Brianna (USA) (1991)	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	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
	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	
Nelvis, Sharika (USA) (1990)	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	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
	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	
Stowers, Jasmin (USA) (1991)	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	1.02	1.00	0.98	0.98	1.00	1.00	1.00	1.02	1.02	1.23				3.00	2.98	3.04
	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	
Williams, Danielle (JAM) (1992)	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	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
	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	
Pedersen, Isabelle (NOR) (1999)	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	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
	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	
Visser, Nadine (NED) (1995)	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	1.04	1.00	1.00	1.00	0.98	1.02	1.00	1.04	1.04	1.26				3.04	3.00	3.08
	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	

Harper-Nelson, Dawn (USA) († 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
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

2018 Mikio Oda Memorial (Hiroshima, JPN)

FINAL

date 29-Apr-18 wind 3.6 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Barber, Jade (USA) (1993)	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
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
Kiyoyama, Chisato (JPN) (1999)	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
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
Shimura, Hitomi (JPN) (1990)	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
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
Fukube, Mako (JPN) (1995)	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
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
Barber, Kaila (USA) (1993)	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
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
Jung Hye-Lim (KOR) (1987)	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
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
Aoki, Masumi (JPN) (1994)	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
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

2018 Tokyo Combined Event Meeting (Tokyo, JPN)

Heptathlon - Heat 3

date 21-Apr-18 wind -4.5 m/s

Matsubayashi (2018) - research on athlete performance and technique- 2018 data book

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kiriya, Chie (JPN) (1991)	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
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
Yamasaki, Yuki (JPN) (1995)	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
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
Hemphill, Megu (JPN) (1996)	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
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

Heptathlon - Heat 2

date 21-Apr-18 wind -2.4 m/s

Matsubayashi (2018) - research on athlete performance and technique- 2018 data book

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Utsunomiya, Eri (JPN) (1993)	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
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

2018 IAAF World Indoor Championships (Birmingham, GBR)

FINAL

date 03-Mar-18

Walker (2019) - Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Women

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harrison, Kendra (USA) (1992)	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	7.79			8.70		
Manning, Christina (USA) (1991)	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	7.70			8.56		
Visser, Nadine (NED) (1995)	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	7.65			8.56		
Nelvis, Sharika (USA) (1990)	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	7.63			8.50		
Roleder, Cindy (GER) (1989)	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	7.62		8.50			
Pedersen, Isabelle (NOR) (199)	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				
		velocity	4.85	8.25	8.59	8.76	8.59					10.16	7.56		8.53			
Amusan, Tobi (NGR) (1997)	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	7.45		8.36			
Charlton, Devynne (BAH) (19)	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	7.33		8.17			

2017 National Sports Festival (Matsuyama, JPN)**FINAL**

	date	09-Oct-17	wind	0.5 m/s	(2017.10.10) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Aoki, Masumi (JPN) (1994)	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
		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

2017 Chinese National Games (Tianjin, CHN)**FINAL**

	date	04-Sep-17	wind	-0.2 m/s	Henson (2017) - coaching observations													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Shuijiao (CHN) (1991)	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
		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
Wang Dou (CHN) (1993)	time	2.68	3.75	4.82	5.85	6.86	7.93	8.97	10.03	11.11	12.19			13.34	6 / 2			
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
		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
Wu Yanni (CHN) (1997)	time	2.72	3.79	4.82	5.85	6.85	7.91	8.94	10.00	11.06	12.16			13.36	4 / 3			
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
		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
Kang Ya (CHN) (1990)	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	3.12	3.21
		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	8.17	7.94
Deng Ru (CHN) (1989)	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
		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
Chen Jiamin (CHN) (1996)	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
		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
Lui Lai Yiu (HKG) (1994)	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
		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
Sun Minjing (CHN) (1988)	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
		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

Heat 1

	date	03-Sep-17	wind	0.0 m/s	Henson (2017) - coaching observations													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Shuijiao (CHN) (1991)	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
		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

2017 Weltklasse (Zürich, SUI) (TV Analysis)**FINAL**

	date	24-Aug-17	wind	-0.3 m/s	Henson (2020) - Athlete First: 2017 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
Pearson, Sally (AUS) (1986)	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
		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
Nelvis, Sharika (USA) (1990)	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
		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
Manning, Christina (USA) (19)	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

	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
Williams, Danielle (JAM) (1992)	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
	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
Talay, Alina (BLR) (1989)	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	1.00	1.04	1.00	1.04	1.22			2.98	2.96	3.08
	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
Harper Nelson, Dawn (USA) (†)	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	1.04	1.06	1.27			3.04	3.00	3.10
	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
Stowers, Jasmin (USA) (1991)	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	1.08	1.17		3.04	3.02	3.14
	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
Castlin, Kristi (USA) (1988)	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	1.02	1.04	1.04	1.25			3.10	3.00	3.10
	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	8.50	8.23

2017 IAAF World Championships (London, GBR)

FINAL

date		12-Aug-17		wind		0.1 m/s		Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles									
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pearson, Sally (AUS) (1986)	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
	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
Harper Nelson, Dawn (USA) (†)	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
	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
Dutkiewicz, Pamela (GER) (1991)	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
	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
Harrison, Kendra (USA) (1992)	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	1.01	1.01	0.98	0.99	0.99	1.03	1.25			3.08	3.00	3.01
	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
Manning, Christina (USA) (1991)	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	1.03	1.06	1.25			3.06	2.94	3.09
	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
Talay, Alina (BLR) (1989)	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	1.04	1.27			3.01	3.01	3.06
	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
Visser, Nadine (NED) (1995)	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
	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
Ali, Nia (USA) (1988)	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
	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 3

date		11-Aug-17		wind		0.2 m/s		Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles									
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harper Nelson, Dawn (USA) (†)	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
	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
Dutkiewicz, Pamela (GER) (1991)	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
	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
Harrison, Kendra (USA) (1992)	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
	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
Pedersen, Isabelle (NOR) (1992)	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
	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
Burton, Rushelle (JAM) (1997)	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
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
Charlton, Devynne (BAH) (19)	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
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
Plotitsyna, Hanna (UKR) (198)	time	2.48	3.55	4.57	5.58	6.60	7.60	8.64	9.67	10.72	11.78		13.08	8 / 7		
reaction time	0.139	interval	1.07	1.02	1.01	1.02	1.00	1.04	1.03	1.05	1.06	1.30		3.10	3.06	3.14
velocity	5.24		7.94	8.33	8.42	8.33	8.50	8.17	8.25	8.10	8.02	8.08	7.65	8.23	8.33	8.12
Bakker, Sharona (NED) (1990)	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
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

Semi-Final 2

date 11-Aug-17 wind 0.5 m/s Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Manning, Christina (USA) (19)	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
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
Talay, Alina (BLR) (1989)	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
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
Thompson, Yanique (JAM) (1)	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
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
Amusan, Tobi (NGR) (1997)	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
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
Williams, Danielle (JAM) (1992)	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
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
Herman, Elvira (BLR) (1997)	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
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
Jenneke, Michelle (AUS) (1993)	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
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
Kimura, Ayako (JPN) (1988)	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
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

Semi-Final 1

date 11-Aug-17 wind 0.5 m/s Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pearson, Sally (AUS) (1986)	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
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
Ali, Nia (USA) (1988)	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
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
Visser, Nadine (NED) (1995)	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
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
Simmonds, Megan (JAM) (199)	time	2.41	3.45	4.47	5.49	6.49	7.46	8.48	9.50	10.55	11.62		12.93	5 / 4				
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				3.08	2.99	3.14
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			8.28	8.53	8.12
George, Phylcia (CAN) (1987)	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
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
Lobe, Ricarda (GER) (1994)	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
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
Lindley, Lindsay (NGR) (1989)	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

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
Zagré, Anne (BEL) (1990)	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
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

2017 Japanese National High School Championships (Yamagata, JPN)

FINAL

date 02-Aug-17

wind -2.9 m/s

Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data collection

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yoshida, Yuri (JPN) (1999)	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
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
Sato, Nodoka (JPN) (1999)	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
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
Ibaraki, Rin (JPN) (2001)	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
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
Oikawa, Yuka (JPN) (2000)	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
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
Nishimura, Kaho (JPN) (1999)	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
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
Kobayashi, Ayumi (JPN) (2001)	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
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
Ban, Nozumi (JPN) (2001)	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
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
Kuroiwa, Kyoka (JPN) (1999)	time	2.72	3.86	4.99	6.11	7.25	8.43	9.61	10.77	11.94	13.12		14.44	9 / 8			
reaction time	0.146	interval	1.14	1.13	1.12	1.14	1.18	1.18	1.16	1.17	1.18	1.32			3.39	3.50	3.51
velocity	4.78	7.46	7.52	7.59	7.46	7.20	7.20	7.33	7.26	7.20	7.95	6.93			7.52	7.29	7.26

2017 Windsprint (Sundsvall, SWE)

FINAL 2

date 30-Jul-17

wind 1.0 m/s

(2017) - www.windsprint/Splittider/

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mossberg, Sofia (SWE) (1995)	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
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
Fleischer, Caroline (NOR) (199)	time	2.86	4.04	5.21	6.39	7.90	8.82			12.56	13.86		15.42	/ 2			
reaction time		interval	1.18	1.17	1.18	1.51	0.92			3.74	1.30	1.56			3.53		
velocity	4.55	7.20	7.26	7.20	5.63	9.24			6.82	6.54	6.73	6.49			7.22		

FINAL

date 30-Jul-17

wind 0.8 m/s

(2017) - www.windsprint/Splittider/

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mossberg, Sofia (SWE) (1995)	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
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
Fleischer, Caroline (NOR) (199)	time	2.85	4.04	5.22	6.42	7.58	8.80	10.04	11.40	12.70	14.02		15.56	/ 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
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 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)

FINAL

date 21-Jul-17

wind -0.2 m/s

Henson (2020) - Athlete First: 2017 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
Harrison, Kendra (USA) (1992)	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	0.98	0.96	0.98	1.00	1.02	1.11			2.98	2.90	3.00
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
Nelvis, Sharika (USA) (1990)	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
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
Williams, Danielle (JAM) (1992)	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
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

Ali, Nia (USA) (1988)	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	1.02	1.02	1.14			3.02	2.94	3.04	
		velocity	5.12	8.33	8.50	8.50	8.67	8.67	8.67	8.50	8.33	8.33	9.21	7.89		8.44	8.67	8.39
Pearson, Sally (AUS) (1986)	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	
		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
Stowers, Jasmin (USA) (1991)	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	1.04	1.17			3.00	2.96	3.06	
		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
Dutkiewicz, Pamela (GER) (1991)	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	
		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
Pedersen, Isabelle (NOR) (1999)	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	
		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

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

FINAL

date		09-Jul-17		wind		0.2 m/s		Henson (2020) - Athlete First: 2017 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	
Harrison, Kendra (USA) (1992)	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	
		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
Pearson, Sally (USA) (1986)	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	
		velocity	5.24	8.50	8.67	8.85	8.85	8.85	8.85	8.50	8.17	8.90	8.01		8.67	8.85	8.50	
Nelvis, Sharika (USA) (1990)	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	1.20			2.98	2.90	3.04	
		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
Manning, Christina (USA) (1991)	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	
		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
Ali, Nia (USA) (1988)	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	
		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
Visser, Nadine (NED) (1995)	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	
		velocity	5.12	8.33	8.33	8.67	8.67	8.33	8.50	8.17	8.17	8.47	7.78		8.44	8.56	8.28	
Pedersen, Isabelle (NOR) (1999)	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	1.02	1.02	1.04	1.04	1.08	1.27			3.00	3.04	3.16	
		velocity	5.12	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	
Stowers, Jasmin (USA) (1991)	time	2.50	3.50	4.48	5.44	6.40	7.36	8.34	9.30	10.30			dnf	6 / --				
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		
		velocity	5.20	8.50	8.67	8.85	8.85	8.85	8.67	8.85	8.50				8.67	8.79		
Castlin, Kristi (USA) (1988)	time	2.56	3.80	5.12									dnf	2 / --				
reaction time	0.128	interval	1.24	1.32														
		velocity	5.08	6.85	6.44													

2017 Athletissima (Lausanne, SUI) (TV Analysis)

FINAL

date		06-Jul-17		wind		-0.1 m/s		Henson (2020) - Athlete First: 2017 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	
Nelvis, Sharika (USA) (1990)	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	1.23			2.95	2.89	3.00	
		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
Stowers, Jasmin (USA) (1991)	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	
		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
Manning, Christina (USA) (1991)	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	
		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
Ali, Nia (USA) (1988)	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	
		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	
Castlin, Kristi (USA) (1988)	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	2.94	2.96	
		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	8.67	8.61
Harper Nelson, Dawn (USA) (*)	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	
		velocity	5.28	8.17	8.50	8.50	8.50	8.67	8.50	8.33	8.50	8.40	7.84		8.39	8.56	8.44	
Boons Eefje (NED) (1994)	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	
		velocity	5.16	7.87	8.33	8.50	8.50	8.50	8.33	8.33	8.17	8.20	7.70		8.23	8.50	8.28	

2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)

FINAL

	date	04-Jul-17	wind	0.1 m/s	Henson (2020) - Athlete First: 2017 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
Harrison, Kendra (USA) (1992)	time	2.38	3.40	4.38	5.34	6.30	7.26	8.20	9.14	10.10	11.08		12.28	4 / 1				
reaction time	0.152	interval	1.02	0.98	0.96	0.96	0.96	0.94	0.94	0.96	0.98	1.20			2.96	2.86	2.88	
		velocity	5.46	8.33	8.67	8.85	8.85	8.85	9.04	9.04	8.85	8.67	8.75	8.14		8.61	8.92	8.85
Stowers, Jasmin (USA) (1991)	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	
		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
Nelvis, Sharika (USA) (1990)	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
		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
Castlin, Kristi (USA) (1988)	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	2.94	2.98	
		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	8.67	8.56
Harper Nelson, Dawn (USA) (*)	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	
		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
Pearson, Sally (AUS) (1986)	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	
		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
Ali, Nia (USA) (1988)	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	1.04	1.04	1.23			3.02	2.98	3.08	
		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

2017 Japanese National Championships (Osaka, JPN)

FINAL

	date	25-Jun-17	wind	0.4 m/s	(2017) - tfdata-store.com/2017/07/19/post-1068/													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayako (JPN) (1988)	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	
		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
Shimura, Hitomi (JPN) (1990)	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	
		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
Soma, Eriko (JPN) (1991)	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	
		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
Fukube, Mako (JPN) (1995)	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	
		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
Nomura, Yuka (JPN) (1987)	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	
		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
Kiyoyama, Chisato (JPN) (199*)	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	
		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
Tanaka, Yumi (JPN) (1998)	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	
		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

Kobayashi, Sayaka (JPN) (1996)	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
		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

Semi-Final 2

date	24-Jun-17	wind	0.3 m/s	(2017.07.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shimura, Hitomi (JPN) (1990)	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
		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

Semi-Final 1

date	24-Jun-17	wind	0.4 m/s	(2017.06.24) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayako (JPN) (1988)	time	2.59	3.63	4.66	5.66	6.67	7.67	8.71	9.75	10.80	11.85		13.06	4 / 1			
	reaction time	0.161	interval	1.04	1.03	1.00	1.01	1.00	1.04	1.04	1.05	1.21			3.07	3.05	3.14
		velocity	5.02	8.17	8.25	8.50	8.42	8.50	8.17	8.17	8.10	8.10	8.68	7.66	8.31	8.36	8.12

2017 Bislett Games (Oslo, NOR) (TV Analysis)**FINAL**

date	15-Jun-17	wind	0.8 m/s	Henson (2020) - Athlete First : 2017 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
Dutkiewicz, Pamela (GER) (1996)	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
		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
Castlin, Kristi (USA) (1988)	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	1.02	1.04	1.17			3.04	2.94	3.04
		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	8.67	8.39
Pedersen, Isabelle (NOR) (1992)	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
		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
Talay, Alina (BLR) (1989)	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
		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
Porter, Tiffany (GBR) (1987)	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
		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
Zagré, Anne (BEL) (1990)	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
		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
Hildebrand, Nadine (GER) (1991)	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
		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
Clay, Raven (USA) (1990)	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
		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

2017 Fuse Sprint (Tottori, JPN)**A FINAL**

date	04-Jun-17	wind	3.7 m/s	(2017) - tfddata-store.com/2017/06/04/post-848/													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayako (JPN) (1988)	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
		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
Shimura, Hitomi (JPN) (1990)	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
		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
Kiyoyama, Chisato (JPN) (1999)	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
		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
Soma, Eriko (JPN) (1991)	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
		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
Fujimori, Nana (JPN) (1997)	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	3.16	3.29
		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	8.07	7.75
Fujiwara, Miku (JPN) (1992)	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
	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
Nomura, Yuka (JPN) (1987)	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
	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
Okazaki, Nagisa (JPN) (2001)	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
	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

Heat 3

date 04-Jun-17 wind 1.3 m/s (2017) - tfd-data-store.com/2017/06/04/post-848/

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayako (JPN) (1988)	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
	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
Soma, Eriko (JPN) (1991)	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
	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
Shimura, Hitomi (JPN) (1990)	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
	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
Kiyoyama, Chisato (JPN) (1999)	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
	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
Fujimori, Nana (JPN) (1997)	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	3.28	3.40
	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	7.77	7.50
Nomura, Yuka (JPN) (1987)	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
	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

2017 Shimane High School Championships (Izumo, JPN)

FINAL

date 28-May-17 wind 2.6 m/s Shimizu (2018) - [shimane high school championships 2018 - biomechanics data analysis](http://shimane-high-school-championships-2018-biomechanics-data-analysis)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Oga, Yuri (JPN) (1999)	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	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
	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
高田 桃花	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
	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
大下 愛梨	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
	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
大林 里沙子	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
	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

2017 Kanto Collegiate Championships (Yokohama, JPN)

Division 1 FINAL

date 26-May-17 wind 1.9 m/s (2017) - tfd-data-store.com/2017/06/08/post-920/

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fukube, Mako (JPN) (1995)	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
	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
Hemphill, Megu (JPN) (1996)	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
	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
Horiike, Kaho (JPN) (1996)	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
	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
Sasaki, Aogi (JPN) (1997)	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
	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

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

FINAL

date 27-May-17 wind 0.8 m/s

Henson (2020) - Athlete First: 2017 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
Stowers, Jasmin (USA) (1991)	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
	velocity	5.20	8.50	8.67	8.67	8.85	8.67	8.50	8.50	8.50	8.50	8.50	8.82	7.94	8.61	8.67	8.50
Harrison, Queen (USA) (1988)	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
	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
Harper Nelson, Dawn (USA) (1988)	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			
	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
	velocity	5.20	8.17	8.50	8.67	8.67	8.67	8.67	8.67	8.67	8.50	8.50	8.61	7.90	8.44	8.67	8.56
Manning, Christina (USA) (1988)	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
	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
Nelvis, Sharika (USA) (1990)	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
	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
Castlin, Kristi (USA) (1988)	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			
	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
	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
Ali, Nia (USA) (1988)	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
	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
Talay, Alina (BLR) (1989)	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	0.98	1.00	1.02	1.06	1.04	1.29			3.04	2.98	3.12
	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

2017 Seiko Golden Grand Prix (Kawasaki, JPN)

FINAL

date 21-May-17 wind 0.0 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harrison, Queen (USA) (1988)	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
	velocity	4.94	8.33	8.50	8.76	8.85	8.76	8.67	8.59	8.67	8.33	8.33	9.29	7.91	8.53	8.76	8.53
Kimura, Ayako (JPN) (1988)	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			
	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
	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

2017 Kansai Regional University Championships (Osaka, JPN)

FINAL

date 11-May-17 wind -1.2 m/s

(2017) - tfdata-store.com/2017/05/13/post-441/

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tanaka, Yumi (JPN) (1998)	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	1.08	1.06	1.08	1.08	1.11	1.12	1.27			3.26	3.20	3.31
	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
Nakamura, Yuki (JPN) (1995)	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
	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
Nakajima, Hitomi (JPN) (1995)	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			3.31	3.26	3.38
	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
Yasui, Ayana (JPN) (1997)	time	2.71	3.82	4.93	6.02	7.15		9.38					13.95	9 / 4			
	reaction time	interval	1.11	1.11	1.09	1.13		2.23				4.57			3.31	3.36	
	velocity	4.80	7.66	7.66	7.80	7.52		7.62				7.88	7.17		7.70	7.59	
Kataoka, Saki (JPN) (1996)	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
	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
Mouri, Hikari (JPN)	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
	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
Sakaguchi, Risako (JPN) (1996)	time	2.82	3.94	5.05	6.16	7.28	8.39	9.51	10.64	11.77	12.94		14.20	2 / 7			
	reaction time	interval	1.12	1.11	1.11	1.12	1.11	1.12	1.13	1.13	1.17	1.26			3.34	3.35	3.43
	velocity	4.61	7.59	7.66	7.66	7.59	7.66	7.59	7.52	7.52	7.26	8.33	7.04		7.63	7.61	7.43

Matsuo, Mika (JPN) (1995)	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
	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

2017 Michitaka Memorial (Osaka, JPN)**Open FINAL**

date 07-May-17 wind -0.2 m/s

(2017) - tfddata-store.com/2017/05/08/post-413/

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayako (JPN) (1988)	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
	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
Aoki, Masumi (JPN) (1994)	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
	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
Jung Hye-Lim (KOR) (1988)	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
	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
Kiyoyama, Chisato (JPN) (1999)	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
	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
Fujimori, Nana (JPN) (1997)	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	3.24	3.34
	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	7.87	7.63
Fujiwara, Miku (JPN) (1992)	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
	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
Tanaka, Hikari (JPN) (1998)	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
	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

date 07-May-17 wind -0.6 m/s

(2017) - tfddata-store.com/2017/05/08/post-413/

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jung Hye-Lim (KOR) (1988)	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
	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
Kimura, Ayako (JPN) (1988)	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
	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
Kiyoyama, Chisato (JPN) (1999)	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
	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
Aoki, Masumi (JPN) (1994)	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
	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
Nakamura, Yuki (JPN) (1995)	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
	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
Fujimori, Nana (JPN) (1997)	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	3.26	3.39
	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	7.82	7.52
Kobayashi, Sayaka (JPN) (1999)	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
	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
Tanaka, Hikari (JPN) (1998)	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
	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
Fujiwara, Miku (JPN) (1992)	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
	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

2017 Doha Diamond League (Doha, QAT) (TV Analysis)**FINAL**

date 05-May-17 wind -2.3 m/s

Henson (2020) - Athlete First: 2017 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
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Harrison, Kendra (USA) (1992)	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
	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
Roleder, Cindy (GER) (1989)	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
	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
Nelvis, Sharika (USA) (1990)	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
	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
Manning, Christina (USA) (1991)	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
	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
Simmonds, Megan (JAM) (1991)	time	2.52	3.52	4.56	5.60	6.60	7.62	8.66	9.72	10.80	11.88		13.13	8 / 5			
	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		3.08	3.06	3.22
	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		8.28	8.33	7.92
George, Phylcia (CAN) (1987)	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
	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
Ofili, Cindy (GBR) (1994)	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	1.10	1.28			3.20	3.12	3.18
	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
Ali, Nia (USA) (1988)	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	
	velocity	5.12	7.73	7.87	7.08	7.33	7.20	7.33	7.59				6.97		7.54	7.29	

2017 Mito Invitational (Mito, JPN)**FINAL**

date 05-May-17 wind 1.0 m/s

(2017) - tfd-data-store.com/2017/05/06/post-423/

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Soma, Eriko (JPN) (1991)	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
	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
Sasaki, Ten (JPN) (1997)	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
	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
Nakatuka, Natsuki (JPN) (1998)	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
	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

date 05-May-17 wind -2.7 m/s

(2017) - tfd-data-store.com/2017/05/06/post-423/

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Soma, Eriko (JPN) (1991)	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
	velocity	4.89	7.73	7.94	8.02	7.94	7.94	7.80	7.80	7.73	7.59	8.61	7.33		7.89	7.89	7.70
Sasaki, Ten (JPN) (1997)	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
	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
Nakatuka, Natsuki (JPN) (1998)	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
	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

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

date 29-Apr-17 wind 1.0 m/s

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

Harrison, Kendra (USA) (1992)	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
	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
Stowers, Jasmin (USA) (1991)	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
	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
Harper Nelson, Dawn (USA) (†)	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	0.97	1.00	1.00	1.03	1.23			3.03	2.97	3.03
	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

Harrison, Queen (USA) (1988)	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
	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
Ofili, Cindy (GBR) (1994)	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
	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
Castlin, Kristi (USA) (1988)	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
	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
Porter, Tiffany (GBR) (1987)	time	2.53	3.63	4.66	5.68	6.70	7.73	8.73	9.76	10.83	11.90		13.20	1 / 8			
reaction time	interval		1.10	1.03	1.02	1.02	1.03	1.00	1.03	1.07	1.07	1.30			3.15	3.05	3.17
	velocity	5.14	7.73	8.25	8.33	8.33	8.25	8.50	8.25	7.94	7.94	8.08	7.58		8.10	8.36	8.04

2017 Mikio Oda Memorial (Hiroshima, JPN)**FINAL**

date 29-Apr-17 wind 2.0 m/s

(2017) - tfdata-store.com/2017/05/01/458/

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Barber, Jade (USA) (1993)	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
	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
Kimura, Ayako (JPN) (1988)	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
	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
Jung Hye-Lim (KOR) (1988)	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
	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
Hemphill, Megumi (JPN) (1996)	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
	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
Soma, Eriko (JPN) (1991)	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
	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
Horiike, Kaho (JPN) (1996)	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
	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

B FINAL

date 29-Apr-17 wind 4.1 m/s

(2017) - tfdata-store.com/2017/05/01/458/

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kiyoyama, Chisato (JPN) (1999)	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
	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
Sasaki, Aogi (JPN) (1997)	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
	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
Fukube, Mako (JPN) (1995)	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
	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
Okubo, Yuri (JPN) (1997)	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
	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
Kobayashi, Sayaka (JPN) (1999)	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
	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
Takebe, Mao (JPN) (1995)	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
	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
Kiriya, Chie (JPN) (1991)	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
	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
Tanaka, Hikari (JPN) (1998)	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
	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

2017 Osaka University Athletics Championships (Osaka, JPN)

FINAL

		date	06-Apr-17		wind -1.8 m/s										(2017) - tfdata-store.com/2017/04/07/post-249/					
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Matsuo, Mika (JPN) (1995)	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	
	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	
Kataoka, Saki (JPN) (1996)	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	
	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	
Yasui, Ayana (JPN) (1997)	time		2.76	3.89	5.00	6.12	7.24	8.34	9.46	10.61	11.73	12.89		14.12	6 / 3					
	reaction time	interval		1.13	1.11	1.12	1.12	1.10	1.12	1.15	1.12	1.16	1.23				3.36	3.34	3.43	
	velocity		4.71	7.52	7.66	7.59	7.59	7.73	7.59	7.39	7.59	7.33	8.54	7.08			7.59	7.63	7.43	
Nakamura, Reina (JPN) (1998)	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	
	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	
Yamanaka, Aya (JPN) (1995)	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		
	velocity		4.69				7.49	7.46	7.39	7.14	7.08	7.08	7.95	6.89				7.10		
Asba, Haruka (JPN)	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	
	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	

2017 European Indoor Championships (Beograd, SRB)

FINAL

		date	03-Mar-17					(2017.03.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en											
			H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10						
Roleder, Cindy (GER) (1989)	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								

2017 Karlsruhe Indoor (Karlsruhe, GER)

FINAL

		date	04-Feb-17					(2017.02.10) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en											
			H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10						
Harrison, Kendra (USA) (1992)	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								

2017 Japanese National Indoor Junior Championships (Osaka, JPN)

FINAL

		date	04-Feb-17					(2017.02.04) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en											
			H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10						
Tanaka, Hikari (JPN) (1998)	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								

2017 Rod McCravy Memorial (Lexington, KY)

FINAL

		date	21-Jan-17					(2017.01.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en											
			H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10						
Harrison, Kendra (USA) (1992)	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								

2016 Japanese Junior Olympics (Yokohama, JPN) (A - 76cm) (B - 76cm / 8.0m)

FINAL - B

		date	30-Oct-16		wind -1.1 m/s										(2016.10.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en					
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Nakayama, Riko (JPN) (2002)	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	
	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

		date	30-Oct-16		wind 1.1 m/s										(2016.10.29) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en					
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Nakayama, Riko (JPN) (2002)	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	
	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	

FINAL - A

		date	28-Oct-16		wind -0.4 m/s										(2016.10.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en					
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Nagasaki, Sayuri (JPN) (2001)	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	
	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 - A		date	28-Oct-16		wind	-2.2 m/s		(2016.10.27) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en											
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Nagasaki, Sayuri (JPN) (2001)	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			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
	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

2016 Japanese National Junior Championships (Mizuho, JPN)

Semi-Final 3		date	21-Oct-16		wind	0.9 m/s		(2016.10.22) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en											
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Tanaka, Yumi (JPN) (1998)	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			1.09	1.10	1.05	1.07	1.07	1.08	1.07	1.07	1.12	1.26				3.24	3.22	3.26
	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
Tanaka, Yuzo (JPN)	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			1.11	1.10	1.10	1.09	1.10	1.10	1.12	1.12	1.14	1.23				3.31	3.29	3.38
	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

Semi-Final 2		date	21-Oct-16		wind	1.0 m/s		(2016.10.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en											
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Fujimori, Nana (JPN) (1997)	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			1.08	1.07	1.07	1.08	1.09	1.08	1.09	1.11	1.15	1.21				3.22	3.25	3.35
	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	7.85	7.61
Furuhashi, Kana (JPN) (1999)	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			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
	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

Semi-Final 1		date	21-Oct-16		wind	1.2 m/s		(2016.10.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en											
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Ono, Yui (JPN) (1999)	time		2.68	3.76	4.83	5.89	6.94	8.02	9.09	10.18	11.27	12.40		13.64	3 / 1				
	reaction time			1.08	1.07	1.06	1.05	1.08	1.07	1.09	1.09	1.13	1.24				3.21	3.20	3.31
	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
Sasaki, Ten (JPN) (1997)	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			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
	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

Heat 6		date	21-Oct-16		wind	2.1 m/s		(2016.11.03) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en											
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Yasui, Ayana (JPN) (1997)	time		2.72	3.82	4.93	6.04	7.14	8.26	9.37	10.50	11.64	12.79		14.01	6 / 1				
	reaction time			1.10	1.11	1.11	1.10	1.12	1.11	1.13	1.14	1.15	1.22				3.32	3.33	3.42
	velocity		4.78	7.27	7.21	7.21	7.27	7.14	7.21	7.08	7.02	6.96	12.30	7.14			7.23	7.21	7.02
Kamada, Saki (JPN) (1997)	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			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
	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
Oshiro, Yurika (JPN) (1998)	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			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
	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

Heat 5		date	21-Oct-16		wind	0.9 m/s		(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en											
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Shunji, Natsuki (JPN)	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			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
	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
Fujiwara, Rui (JPN)	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			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
	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
Yasuda, Shiori (JPN) (1998)	time		2.73	3.89	5.02	6.16	7.30	8.43	9.58	10.73	11.90	13.08		14.38	8 / 3				
	reaction time			1.16	1.13	1.14	1.14	1.13	1.15	1.15	1.17	1.18	1.30				3.43	3.42	3.50
	velocity		4.76	7.33	7.52	7.46	7.46	7.52	7.39	7.39	7.26	7.20	8.08	6.95			7.43	7.46	7.29

Heat 4		date	21-Oct-16		wind	1.5 m/s		(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en											
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Tanaka, Yumi (JPN) (1998)	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			1.09	1.07	1.07	1.06	1.08	1.09	1.09	1.10	1.13	1.29				3.23	3.23	3.32
	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
Sasaki, Aogi (JPN) (1997)	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			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
	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

Higa, Kazuki (JPN) (1998)	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
	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

Heat 3	date	21-Oct-16	wind	1.5 m/s	(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ono, Yui (JPN) (1999)	time	2.68	3.77	4.84	5.92	6.99	8.05	9.13	10.22	11.32	12.45		13.68	6 / 1				
	reaction time	interval	1.09	1.07	1.08	1.07	1.06	1.08	1.09	1.10	1.13	1.23			3.24	3.21	3.32	
	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	
Tanaka, Yoko (JPN)	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	
	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	
Ozaki, Saki (JPN) (1999)	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	
	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	

Heat 2	date	21-Oct-16	wind	1.3 m/s	(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Furuhashi, Kana (JPN)	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	
	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	
Takahashi, Makato (JPN)	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	
	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	
Chiba, Momoka (JPN) (1999)	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	
	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	

Heat 1	date	21-Oct-16	wind	1.7 m/s	(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fujimori, Nana (JPN) (1997)	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	3.23	3.36	
	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	7.89	7.59	
Okamoto, Rika (JPN) (1997)	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	
	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	
Fujimori, Shiori (JPN)	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	
	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	

2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)

FINAL	date	21-Oct-16	wind	0.8 m/s	(2016.10.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yuidori, Yuida (JPN)	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	NYR		3.16	3.13	3.24	
	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	date	21-Oct-16	wind	1.2 m/s	(2016.10.22) & (2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yuidori, Yuida (JPN)	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	NYR		3.21	3.14	3.23	
	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	
Oikawa, Yuka (JPN) (2000)	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	
	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	
Nihonmatsu, Yui (JPN) (1999)	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	
	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 4	date	21-Oct-16	wind	1.3 m/s	(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shichibu, Miki (JPN)	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	
	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	
Egashira, Ami (JPN) (1999)	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	
	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	

Heat 3

		date	21-Oct-16	wind	1.1 m/s	(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en														
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Oikawa, Yuka (JPN) (2000)	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
				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
Saito, Ukiyoshi (JPN)	time			2.70	3.79	4.89	6.01	7.09	8.20	9.30	10.45	11.59	12.76		14.06	7 / 2				
	reaction time			interval	1.09	1.10	1.12	1.08	1.11	1.10	1.15	1.14	1.17	1.30				3.31	3.29	3.46
				velocity	4.81	7.34	7.27	7.14	7.41	7.21	7.27	6.96	7.02	6.84	11.54	7.11		7.25	7.29	6.94
Muraoka, Kakehiro (JPN)	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	1.15	1.19	1.19	1.28				3.32	3.36	3.53
				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

Heat 2

		date	21-Oct-16	wind	0.4 m/s	(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en														
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Miyoshi, Minami (JPN)	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
				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
Kasahara, Riko (JPN) (1999)	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
				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
Oyamada, Tamaki (JPN)	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
				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

Heat 1

		date	21-Oct-16	wind	1.6 m/s	(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en														
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Yoshida, Yui (JPN) (1999)	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
				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
Nihonmatsu, Yui (JPN) (1999)	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
				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
Kita, Ayane (JPN) (2000)	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
				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

2016 Kansai Student Athletics Championships (Osaka, JPN)**FINAL**

		date	19-Oct-16	wind	0.5 m/s	(2016.10.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en														
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Yamanaka, Aya (JPN) (1995)	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	1.17	1.19	1.21	1.32				3.44	3.47	3.57
				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	7.14

2016 National Sports Festival (Kitakami, JPN)**FINAL**

		date	10-Oct-16	wind	2.8 m/s	(2016.11.14) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en														
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Hemphill, Megu (JPN) (1996)	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
				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
Kobayashi, Sayaka (JPN) (1996)	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
				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
Kiyoyama, Chisato (JPN) (1999)	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
				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
Soma, Eriko (JPN) (1991)	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
				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
Takebe, Mao (JPN) (1995)	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
				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

2016 Tokai Student Autumn Championships (Gifu, JPN)**FINAL**

		date	09-Oct-16	wind	1.3 m/s	(2016.10.10) - 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
Fujiwara, Rika (JPN)	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
	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

2016 Japanese National Corporate Championships (Osaka, JPN)

FINAL

date 25-Sep-16 wind 1.0 m/s (2016.09.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shimura, Hitomi (JPN) (1990)	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	interval		1.04	1.03	1.02	1.02	1.03	1.04	1.04	1.04	1.08	1.14			3.09	3.07	3.16
	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
Soma, Eriko (JPN) (1991)	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	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
	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
Kiyoyama, Chisato (JPN) (1999)	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	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
	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

2016 Gunma Prefecture High School Championships (Gunma, JPN)

FINAL

date 24-Sep-16 wind -0.3 m/s (2016.10.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ukiya, Saito (JPN)	time	2.70	3.85	4.97	6.09	7.20	8.31	9.46	10.61	11.76	12.94		14.22	5 / 1			
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
	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

2016 Chiba Prefecture High School Championships (Chiba, JPN)

FINAL

date 22-Sep-16 wind 0.5 m/s (2016.10.26) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shinga, Chiori (JPN)	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
	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

2016 Kanto Student Championships (Sagamihara, JPN)

FINAL

date 17-Sep-16 wind 3.2 m/s (2016.09.17) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fujimori, Nana (JPN) (1997)	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	3.18	3.30
	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	8.02	7.73
Yuri, Ohiko (JPN)	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
	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
Sasaki, Ten (JPN) (1997)	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
	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

2016 Miyazaki Prefecture High School Championships (Miyazaki, JPN)

FINAL

date 16-Sep-16 wind -0.4 m/s (2016.10.26) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Koto, Koenoson (JPN)	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
	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

2016 Memorial van Damme (Brussels, BEL) (TV Analysis)

FINAL

date 09-Sep-16 wind 0.1 m/s (Henson (2021) - 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
Stowers, Jasmin (USA) (1991)	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	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
	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
Zagré, Anne (BEL) (1990)	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	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
	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
Hildebrand, Nadine (GER) (1991)	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	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
	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
Roleder, Cindy (GER) (1989)	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	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
	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

Neziri, Nooralotta (FIN) (1992)	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
	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
George, Phylicia (CAN) (1987)	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	1.08	1.21		3.06	3.02	3.12
	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
Kallur, Susanna (SWE) (1981)	time	2.52	3.56	4.56	5.56	6.56	7.58	8.58	9.62	10.68	11.76		13.02	1 / 7			
	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	3.18
	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	8.02
Ivančević, Andrea (CRO) (1984)	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
	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

2016 Japanese University Championships (Kumagaya, JPN)**FINAL**

date 04-Sep-16 wind -0.2 m/s

(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

		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) (1991)	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	1.06	1.04	1.06	1.08	1.07	1.08	1.10	1.19	PB		3.20	3.18	3.25
	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
Nakamura, Yuki (JPN) (1995)	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	0.159	interval	1.07	1.06	1.05	1.06	1.06	1.08	1.10	1.12	1.20			3.18	3.18	3.30
	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
Fukube, Mako (JPN) (1995)	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
	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
Umahara, Satsuki (JPN) (1994)	time	2.69	3.77	4.83	5.90	6.95	8.02	9.09	10.17	11.27	12.39		13.59	7 / 4			
	reaction time	0.166	interval	1.08	1.06	1.07	1.05	1.07	1.08	1.10	1.12	1.20			3.21	3.19	3.30
	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
Horiike, Kaho (JPN) (1996)	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
	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

2016 Weltklasse (Zürich, SUI) (TV Analysis)**FINAL**

date 01-Sep-16 wind 0.4 m/s

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
Harrison, Kendra (USA) (1992)	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	0.98	0.98	0.98	0.98	0.98	1.00	1.25			3.00	2.94	2.96
	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
Oflili, Cindy (GBR) (1994)	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	0.98	0.98	1.00	1.00	1.00	1.00	1.26			3.02	2.96	3.00
	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
Harper-Nelson, Dawn (USA) (1991)	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	1.00	1.04	1.25		3.02	2.96	3.02
	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
Stowers, Jasmin (USA) (1991)	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	0.98	1.02	1.02	1.04	1.22			3.02	2.98	3.08
	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
Roleder, Cindy (GER) (1989)	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	0.98	1.00	1.00	1.02	1.02	1.20			3.00	2.98	3.04
	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
Simmonds, Megan (JAM) (1991)	time	2.56	3.56	4.58	5.58	6.56	7.56	8.56	9.58	10.62	11.66		12.90	8 / 6			
	reaction time	0.180	interval	1.00	1.02	1.00	0.98	1.00	1.00	1.02	1.04	1.24			3.02	2.98	3.10
	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		8.44	8.56	8.23
George, Phylicia (CAN) (1987)	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	1.04	1.04	1.06	1.21			3.02	3.00	3.14
	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
Zagré, Anne (BEL) (1990)	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	1.02	1.04	1.02	1.02	1.24			3.04	3.02	3.08
	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
Hildebrand, Nadine (GER) (1991)	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	1.00	1.00	1.02	1.06	1.04	1.21			3.08	3.02	3.12

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
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2016 Meeting Paris (Saint-Denis, FRA) (TV Analysis)**FINAL**

date 27-Aug-16

wind 0.2 m/s

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
Harrison, Kendra (USA) (1992) 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
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
Harper-Nelson, Dawn (USA) (1992) 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
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
Ofili, Cindy (GBR) (1994) 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
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
Stowers, Jasmin (USA) (1991) 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
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
Roleder, Cindy (GER) (1989) 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
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
Billaud, Cindy (FRA) (1986) 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
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
Hildebrand, Nadine (GER) (1991) 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
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
Gomis, Sandra (FRA) (1983) 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
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

2016 Athletissime (Luasanne, SUI) (TV Analysis)**FINAL**

date 25-Aug-16

wind 0.7 m/s

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
Harrison, Kendra (USA) (1992) 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
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
Harper-Nelson, Dawn (USA) (1992) 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
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
Stowers, Jasmin (USA) (1991) 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
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
Ofili, Cindy (GBR) (1994) 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			
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
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
Nelvis, Sharika (USA) (1990) 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		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
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
Rard-Reuse, Clélia (SUI) (1988) 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
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
Simmonds, Megan (JAM) (1999) time	2.48	3.52	4.52	5.50	6.52	7.54	8.58	9.64	10.74	11.88		13.15	2 / 7			
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			3.02	3.08	3.30
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		8.44	8.28	7.73

2016 Japanese National High School Championships (Okayama, JPN)**FINAL**

date 02-Aug-16

wind 1.5 m/s

Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics data collection

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tanaka, Yumi (JPN) (1998) 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
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
Tanaka, Hikari (JPN) (1998) 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	
		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
Fujiwara, Rui (JPN) (1998)		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	
		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
Yoshita, Airi (JPN) (1999)		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	
		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
Furuhashi, Kana (JPN) (1999)		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
		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
Nakatuka, Natsuki (JPN) (1998)		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
		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
Takahashi, Natsuki (JPN) (1991)		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	
		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
Fujimori, Kanna (JPN) (1999)		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	
		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

2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)

FINAL

		date	17-Aug-16	wind	0.0 m/s												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
Rollins, Brianna (USA) (1991)		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	1.00	1.34				2.97	2.90	2.97
		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
Ali, Nia (USA) (1988)		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	0.97	1.00	1.03	1.32				2.99	2.91	3.00
		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
Castlin, Kristi (USA) (1988)		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	1.00	1.30				3.03	2.94	2.97
		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
Ofili, Cindy (GBR) (1994)		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
		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
Roleder, Cindy (GER) (1989)		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
		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
Seymour, Pedrya (BAH) (1995)		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
		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
Porter, Tiffany (GBR) (1987)		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
		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
George, Phylicia (CAN) (1987)		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
		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

2016 IAAF World Junior Championships (Bydgoszcz, POL)

FINAL

		date	24-Jul-16	wind	2.0 m/s												(2016.07.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Herman, Elvira (BLR) (1997)		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
		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
Burton, Rushelle (JAM) (1997)		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					3.10	3.02	3.04
		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
Jones, Tia (USA) (2000)		0.180	no information available											12.89	7 / 3				
Duncan, Alexis (USA) (1998)		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	
		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
Amusan, Oluwatobiloba (NGR)	0.197	no information available											12.95	5 / 5			
Barrett, Alicia (GBR) (1998)	0.175	no information available											PB 13.15	2 / 6			
Biedt, Taylon (RSA) (1998)	0.150	no information available											13.37	3 / 7			
Valette, Laura (FRA) (1997)	0.183	no information available											13.42	9 / 8			

Semi-Final 1

date	23-Jul-16	wind	0.6 m/s	(2016.07.23) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tanaka, Yumi (JPN) (1998)	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
		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

2016 All-Star Night Athletics (Hiratsuka, JPN)**FINAL**

date	23-Jul-16	wind	1.1 m/s	(2016.07.23) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hemphill, Megu (JPN) (1996)	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
		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
Shimura, Hitomi (JPN) (1990)	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	0.153	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
		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

2016 London Anniversary Games (London, GBR)**FINAL**

date	22-Jul-16	wind	0.3 m/s	Henson (2020) - Athlete First: 2016 year end hurdle report (TV Analysis) Vazel (2016) - Analysis of Keni Harrison's World Record 100m Hurdles Race													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harrison, Kendra (Keni) (USA)	time	2.49	3.49	4.45	5.40	6.33	7.27	8.21	9.15	10.11	11.10		12.20	6 / 1			Vazel (2016)
reaction time	0.149	interval	1.00	0.96	0.95	0.93	0.94	0.94	0.94	0.96	0.99	1.10	WR		2.91	2.81	2.89
		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
Rollins, Brianna (USA) (1991)	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			Henson (2020)
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
		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
Castlin, Kristi (USA) (1988)	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			Henson (2020)
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
		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
Ali, Nia (USA) (1988)	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			Henson (2020)
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
		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
Talay, Alina (BLR) (1989)	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			Henson (2020)
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
		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
Porter, Tiffany (GBR) (1987)	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			Henson (2020)
reaction time	0.119	interval	1.02	1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.02	1.22			3.02	2.96	3.02
		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
Zagré, Anne (BEL) (1990)	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			Henson (2020)
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
		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
Ennis-Hill, Jessica (GBR) (1981)	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			Henson (2020)
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
		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
Stowers, Jasmin (USA) (1991)	time	2.52	3.52	4.50	5.50									dnf	4 / --		Henson (2020)
reaction time	0.132	interval	1.00	0.98	1.00										2.98		
		velocity	5.16	8.50	8.67	8.50									8.56		

Heat 2

date	22-Jul-16	wind	0.2 m/s	Henson (2020) - Athlete First: 2016 year end hurdle report (TV Analysis) Brice (2017) - critical determinants of sprint hurdle performance													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harrison, Kendra (Keni) (USA)	time	2.55	3.56	4.55	5.53	6.47	7.42	8.38	9.34	10.33	11.33		12.40	4 / 1			Brice (2017)
reaction time	0.143	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
		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
Stowers, Jasmin (USA) (1991)	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			Henson (2020)
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
		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
Castlin, Kristi (USA) (1988)	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			Henson (2020)
reaction time	0.140	interval	1.04	1.02	0.96	0.96	0.96	0.96	1.00	1.00	1.04	1.19			3.02	2.88	3.04

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
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Heat 1

date		22-Jul-16		wind		0.3 m/s		Henson (2020) - Athlete First: 2016 year end hurdle report (TV Analysis)									
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ali, Nia (USA) (1988)	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
		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
Rollins, Brianna (USA) (1991)	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
		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
Ennis-Hill, Jessica (GBR) (1988)	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
		velocity	5.04	8.33	8.50	8.50	8.50	8.67	8.33	8.50	8.17	9.38	7.84		8.44	8.56	8.33

2016 USA Olympic Trials (Eugene, OR) (TV Analysis)**FINAL**

date		08-Jul-16		wind		1.2 m/s		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
Rollins, Brianna (USA) (1991)	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
		velocity	5.42	8.50	8.76	8.76	9.14	9.14	9.04	8.76	8.50	8.54	8.10		8.67	9.11	8.59
Castlin, Kristi (USA) (1988)	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
		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
Ali, Nia (USA) (1988)	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
		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
Harrison, Queen (USA) (1988)	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	0.96	0.97	1.01	1.00	1.22				2.97	2.90	2.98
		velocity	5.20	8.25	8.76	8.76	8.76	8.85	8.76	8.42	8.50	8.61	7.96		8.59	8.79	8.56
Nelvis, Sharika (USA) (1990)	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	1.23			3.00	2.87	3.00
		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
Harrison, Kendra (USA) (1992)	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
		velocity	5.26	8.25	8.50	8.76	8.76	8.85	8.50	8.50	8.50	8.40	7.92		8.50	8.79	8.50
Coward, Jackie (USA) (1989)	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
		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
Stowers, Jasmin (USA) (1991)	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
		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

2016 European Championships (Amsterdam, NED) (TV Analysis)**FINAL**

date		07-Jul-16		wind		-0.7 m/s		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
Roleder, Cindy (GER) (1989)	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
		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
Talay, Alina (BLR) (1989)	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
		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
Porter, Tiffany (GBR) (1987)	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
		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
Rard-Reuse, Clélia (SUI) (1988)	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
		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
Zagré, Anne (BEL) (1990)	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
		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
Pesiridou, Elisávet (GRE) (1991)	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

	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
Billaud, Cindy (FRA) (1986)	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
	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
Dutkiewicz, Pamela (GER) (1991)	time	2.60											dnf	9 / --			
	reaction time	0.145	interval														
	velocity	5.00															

2016 Japanese National Championships (Nagoya, JPN)

FINAL

	date	26-Jun-16	wind	2.1 m/s	Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayako (JPN) (1988)	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
	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
Abe, Haruka (JPN) (1994)	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
	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
Aoki, Masumi (JPN) (1994)	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
	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
Shimura, Hitomi (JPN) (1990)	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
	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
Soma, Eriko (JPN) (1990)	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
	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
Tanaka, Yumi (JPN) (1998)	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
	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
Kobayashi, Sayaka (JPN) (1991)	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
	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
Kiyoyama, Chisato (JPN) (1991)	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
	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

2016 Kinki Area High School Championships (Kobe, JPN)

FINAL

	date	19-Jun-16	wind	-0.6 m/s	(2016.06.19) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tanaka, Yumi (JPN) (1998)	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	1.15	1.28			3.24	3.26	3.36
	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

2016 Tokai High School Meeting (Gifu, JPN)

FINAL

	date	18-Jun-16	wind	0.9 m/s	(2016.06.18) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Furuhashi, Kana (JPN) (1999)	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
	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

2016 Kanto Area High School Championships (Tokyo, JPN)

FINAL

	date	17-Jun-16	wind	-1.5 m/s	(2016.06.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ono, Yui (JPN) (1999)	time	2.74	3.84	4.98	6.10	7.23	8.37	9.52	10.65	11.81	13.00		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
	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
Takahashi, Makato (JPN)	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
	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

2016 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)

FINAL

	date	16-Jun-16	wind	-0.4 m/s	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
Harrison, Kendra (USA) (1992)	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

	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	
Ali, Nia (USA) (1988)	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
	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
Harrison, Queen (USA) (1988)	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
	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
Talay, Alina (BLR) (1989)	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
	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
Kallur, Susanna (SWE) (1981)	time	2.48	3.50	4.53	5.50	6.50	7.50	8.52	9.54	10.57	11.64		13.00	4 / 5			
	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	3.12
	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	8.17
Pedersen, Isabelle (NOR) (1999)	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
	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
Zagré, Anne (BEL) (1990)	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
	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
Westerlund, Elin (SWE) (1990)	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
	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

2016 Japanese University Championships (Hiratsuka, JPN)

FINAL

date	10-Jun-16	wind	1.9 m/s	(2016.06.11) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Aoki, Masumi (JPN) (1994)	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
	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

2016 Bislett Games (Oslo, NOR) (TV Analysis)

FINAL

date	09-Jun-16	wind	-0.4 m/s	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
Rollins, Brianna (USA) (1991)	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			
	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
	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
Harper-Nelson, Dawn (USA) (1991)	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
	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
Stowers, Jasmin (USA) (1991)	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	1.19		3.00	2.96	3.04	
	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
Porter, Tiffany (GBR) (1987)	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	1.02	1.04	1.08	1.26		3.04	2.98	3.14	
	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
Roleder, Cindy (GER) (1989)	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	1.02	1.02	1.06	1.16		3.04	3.00	3.10	
	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
Pedersen, Isabelle (NOR) (1999)	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
	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
Pearson, Sally (AUS) (1986)	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
	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

2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis)

FINAL

date	05-Jun-16	wind	-0.3 m/s	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
Harrison, Kendra (USA) (1992)	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
	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
Rollins, Brianna (USA) (1991)	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	
		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
Castlin, Kristi (USA) (1988)	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	
		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
Harper-Nelson, Dawn (USA)	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	
		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
Porter, Tiffany (GBR) (1987)	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	
		velocity	5.20	8.25	8.50	8.25	8.76	8.50	8.50	8.50	7.94	8.33	7.78	7.78	8.33	8.59	8.31
Ali, Nia (USA) (1988)	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	
		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
Pearson, Sally (AUS) (1986)	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	
		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
Hatton, Lucy (GBR) (1994)	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	
		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

2016 Sparkassen Gala (Regensburg, GER)

FINAL

date	05-Jun-16	wind	0.0 m/s	Unfried (2016) - Austrian Athletics: athlete competition analysis													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Talay, Alina (1989) (BLR)	time	2.58	3.58	4.58	5.55	6.51	7.48	8.47	9.47	10.49	11.51		12.63	1 / 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
	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

2016 Fuse Sprint (Tottori, JPN)

FINAL

date	05-Jun-16	wind	2.2 m/s	(2016.06.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayako (JPN) (1988)	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
	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

date	05-Jun-16	wind	2.2 m/s	(2016.06.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayako (JPN) (1988)	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	1.04	1.04	1.04	1.06	1.07	1.10	1.19			3.13	3.10	3.23
	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

2016 Prefontaine Classic (Eugene, OR) (TV Analysis)

FINAL

date	28-May-16	wind	0.7 m/s	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
Harrison, Kendra (USA) (1992)	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
	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
Rollins, Brianna (USA) (1991)	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
	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
Stowers, Jasmin (USA) (1991)	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
	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
Ali, Nia (USA) (1988)	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
	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
Nelvis, Sharika (USA) (1990)	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	1.04	1.04	1.26			3.04	3.00	3.08
	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
Talay, Alina (BLR) (1989)	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
	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
Porter, Tiffany (GBR) (1987)	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	1.00	1.00	1.02	1.04	1.06	1.30			3.02	2.98	3.12

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	
Harper-Nelson, Dawn (USA) (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
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

2016 Fukui Prefecture High School Meeting (Fukui, JPN)**FINAL**date 28-May-16 wind 1.1 m/s (2016.06.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wada, Yuki (JPN) (1998) 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
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

2016 Schweizer Verein Meisterschaften (St. Gallen, SUI)**FINAL**

date 21-May-16 wind -0.4 m/s Swiss Athletics (2016) - sprint and hurdle analysis

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Rard-Reuse, Clélia (SUI) (1988) time	2.70	3.72	4.74	5.76	6.76	7.78	8.82	9.84	10.88	11.94		13.09	/ 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
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

2016 Aichi Prefecture High School Meeting (Nagoya, JPN)**FINAL**date 20-May-16 wind -1.5 m/s (2016.05.29) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Furuhashi, Kana (JPN) (1999) 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
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

2016 Kanto Collegiate Championships (Yokohama, JPN)**Division 1 FINAL**date 20-May-16 wind -0.4 m/s (2016.05.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hemphill, Megu (JPN) (1996) 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
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

2016 Saitama Prefecture High School Meeting (Kumagaya, JPN)**FINAL**date 10-May-16 wind 1.8 m/s (2016.05.29) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tanaka, Hikari (JPN) (1998) 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
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

2016 Kinan Memorial (Osaka, JPN)**FINAL**date 08-May-16 wind 0.6 m/s (2016.05.11) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayako (JPN) (1988) 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
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

2016 Hürden-und Sprintmeeting (Basel, SUI)**FINAL**

date 07-May-16 wind 1.0 m/s Swiss Athletics (2016) - sprint and hurdle analysis

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Rard-Reuse, Clélia (SUI) (1988) time	2.68	3.70	4.72	5.72	6.74	7.76	8.78	9.82	10.84	11.90		13.06	/ 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
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

2016 Mikio Oda Memorial (Hiroshima, JPN)**FINAL**

date 29-Apr-16 wind 1.1 m/s Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jung Hye-Lim (KOR) (1988) 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
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
Shimura, Hitomi (JPN) (1990) 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
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
Kimura, Ayako (JPN) (1988) 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
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
Fujiwara, Miku (JPN) (1992) 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
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

Tanaka, Anri (JPN) (1994)	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
	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
Kobayashi, Sayaka (JPN) (1996)	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
	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
Kiyoyama, Chisato (JPN) (1999)	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
	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
Aoki, Masumi (JPN) (1994)	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
	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

2015 IAAF World Championships (Beijing, CHN)

Henson (2021) - Athlete First: major championships report (TV Analysis)

FINAL

date 28-Aug-15 wind -0.3 m/s

Мирзоев (2015) - Временные характеристики технического мастерства бега на 100м с барьерами

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Williams, Danielle (JAM) (1992)	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			Мирзоев (2015)
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
	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
Roleder, Cindy (GER) (1989)	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			Мирзоев (2015)
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
	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
Talay, Alina (BLR) (1989)	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			Мирзоев (2015)
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
	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
Rollns, Brianna (USA) (1991)	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			Henson (2021)
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
	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
Porter, Tiffany (GBR) (1987)	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			Henson (2021)
reaction time	0.140 interval		1.00	0.98	0.98	0.98	0.96	0.98	0.98	1.00	1.08	1.22			2.96	2.92	3.06
	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
Zbären, Noemi (SUI) (1994)	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			Henson (2021)
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
	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
Williams, Shermaine (JAM) (1987)	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			Henson (2021)
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
	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
Nelvis, Sharika (USA) (1990)	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			Henson (2021)
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
	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

Semi-Final 3

date 28-Aug-15 wind -0.8 m/s

Xu (2015) - the 15th world track and field special report: Men's and women's hurdle project

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Shuijiao (CHN) (1991)	time			4.67				8.71			11.63		13.06	2 / 7			
reaction time	0.179 interval							4.04			2.92	1.43					2.92
	velocity			6.42				8.42			8.73	7.34	7.66				8.73

2015 Japanese National High School Championships (Wakayama, JPN)**FINAL**

date 02-Aug-15 wind 0.9 m/s

Enomoto (2015) - 68th high school championships: JAF scientific committee - biomechanics data collection

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tanaka, Yumi (JPN) (1998)	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
	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
Sasaki, Aogi (JPN) (1997)	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
	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
Kamada, Saki (JPN) (1997)	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
	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
Nakamura, Reina (JPN) (1998)	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
	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

Kanai, Marumi (JPN) (1997)	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	3.33	3.39
	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	7.66	7.52	
Okamoto, Rika (JPN) (1997)	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
	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	
Nakatuka, Natsuki (JPN) (1998)	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	
	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	
Negi, Mariko (JPN) (1997)	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	
	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	
Kato, Saaya (JPN) (1997)	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	
	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	

2015 Italian National Championships (Torino, ITA)**FINAL**date 25-Jul-15 wind 1.7 m/s *Incalza (FIDAL - Centro Studi & Ricerche) (2015) - <https://www.youtube.com/watch?v=E1vh3mZh5kw>*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Pennella, Giulia (ITA) (1989)	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
	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	

2015 Japanese National Championships (Niigata, JPN)**FINAL**date 27-Jun-15 wind -0.2 m/s *Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Shimura, Hitomi (JPN) (1990)	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	
	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		
Tanaka, Anri (JPN) (1994)	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
	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		
Aoki, Masumi (JPN) (1994)	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	
	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		
Fujiwara, Miru (JPN) (1992)	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	1.05	1.07	1.08	1.11	1.17		3.21	3.17	3.26		
	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		
Hemphill, Megu (JPN) (1996)	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	1.05	1.07	1.09	1.12	1.26		3.16	3.13	3.28		
	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		
Kiyoyama, Chisato (JPN) (1999)	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	
	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		
Ito, Airi (JPN) (1989)	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	
	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		

2015 World Challenge (Beijing, CHN)**FINAL**date 20-May-15 wind 0.8 m/s *Liu (2017) - study on the characteristics of speed rhythm of athletes at different levels of women's 100m hurdles*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Shuijiao (CHN) (1991)	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
	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

2015 Seiko Golden Grand Prix (Kawasaki, JPN)**FINAL**date 10-May-15 wind 0.9 m/s *Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Pearson, Sally (AUS) (1986)	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
	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	
Harrison, Queen (USA) (1988)	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
	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	

Jones, Tenaya (USA) (1989)	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
	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
Castlin, Kristi (USA) (1988)	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
	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
Idlette, Lavonne (DOM) (1985)	time	2.65	3.72	4.75	5.77	6.76	7.76	8.78	9.81	10.84	11.90		13.05	7 / 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
	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
Kimura, Ayako (JPN) (1988)	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
	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
Aoki, Masumi (JPN) (1994)	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
	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
Ito, Airi (JPN) (1989)	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
	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

2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)

FINAL

date 03-May-15 wind 0.2 m/s

Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayoko (JPN) (1988)	time	2.65	3.71	4.75	5.78	6.82	7.84	8.89	9.93	10.98	12.07		13.27	/ 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
	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
Shimura, Hitomi (JPN) (1990)	time	2.65	3.73	4.78	5.82	6.84	7.89	8.94	10.01	11.08	12.15		13.32	/ 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
	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
Ito, Airi (JPN) (1989)	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
	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
Aoki, Masumi (JPN) (1994)	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
	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

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

FINAL

date 14-Feb-15

Feher (2015) - Final report from the U18 & U20 Czech Republic indoor national championships

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Dvoráková, Katerina (CZE) (1991)	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		
	velocity	4.63	7.52	7.66	7.73	7.66	9.22	6.92		7.63		
Skálová, Annemarie (CZE) (1991)	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		3.46		
	velocity	4.64	7.52	7.33	7.26	7.33	8.50	6.70		7.37		
Prochová, Hana (CZE) (1996)	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		
Nečinová, Anna (CZE) (1996)	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		
Čaladi, Tereza (CZE) (1996)	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		
Odvárková, Lucie (CZE) (1996)	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		
Dostálová, Veronika (CZE) (1996)	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		

2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)

FINAL

date 14-Feb-15

Feher (2015) - Final report from the U18 & U20 Czech Republic indoor national championships

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Vokálová, Tereza (CZE) (1998) 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	1.41			3.22		
velocity	4.78	7.94	7.87	7.94	7.73	9.22	7.10		7.92		
Semecká, Tereza (CZE) (1998) 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	1.43			3.23		
velocity	4.56	7.87	7.87	7.94	7.87	9.09	6.98		7.89		
Žitná, Venuše (CZE) (1998) 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	1.47			3.42		
velocity	4.76	7.26	7.46	7.66	7.33	8.84	6.83		7.46		
Jirmanová, Karolína (CZE) (1998) time	2.80	3.94	5.06	6.22	7.34		8.82	3 / 4			
reaction time	0.475	interval	1.14	1.12	1.16	1.48			3.42		
velocity	4.64	7.46	7.59	7.33	7.59	8.78	6.80		7.46		
Vávrová, Denisa (CZE) (1998) 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	1.56			3.45		
velocity	4.68	7.33	7.66	7.20	7.39	8.33	6.71		7.39		
Barborová, Michaela (CZE) (1998) time	2.82	3.97	5.13	6.29	7.47		9.01	8 / 6			
reaction time	0.357	interval	1.15	1.16	1.16	1.54			3.47		
velocity	4.61	7.39	7.33	7.33	7.20	8.44	6.66		7.35		
Duchonová, Andrea (CZE) (1998) 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	1.59			3.54		
velocity	4.63	7.14	7.14	7.33	7.39	8.18	6.60		7.20		
Minárová, Pavlína (CZE) (1999) time	2.74	3.86					dnf	6 / --			
reaction time	0.165	interval	1.12								
velocity	4.74	7.59									

2014 Chinese National Championships (Suzhou, CHN)

FINAL

date 11-Oct-14 wind 1.6 m/s

Deng (2016) - research on the 2014 winter training of chinese excellent 100m hurdler Deng Ru

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Deng Ru (CHN) (1989) time	2.27	3.33	4.41	5.53	6.57	7.69	8.80	9.88	10.96	12.08		13.86	1 / 6			
reaction time		interval	1.06	1.08	1.12	1.04	1.11	1.08	1.08	1.12	1.78			3.26	3.27	3.28
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

2014 Japanese National High School Championships (Kofu, JPN)

FINAL

date 03-Aug-14 wind -0.9 m/s

Yanagiya (2014) - research on athlete performance and technique- 2014 data book

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hemphill, Megu (JPN) (1996) 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	1.26			3.25	3.19	3.27
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
Kobayashi, Sayaka (JPN) (1996) 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	1.09	1.08	1.12	1.24	PB		3.30	3.23	3.29
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
Fujimori, Nana (JPN) (1997) 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	3.24	3.40
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	7.87	7.50

2014 Czech Republic National Championships (Ostrava, CZE)

FINAL

date 02-Aug-14 wind 0.4 m/s

Feher (2014) - Final report from the Czech Republic national championships

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Škrobáková, Lucie (CZE) (1988) 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
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
Koudelová, Lucie (CZE) (1994) 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
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
Tomková, Helena (CZE) (1992) 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
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
Hamáčková, Barbora (CZE) (1991) time	2.77	3.89	4.96	6.03	7.09	8.18	9.24	10.33	11.44	12.57		13.82	7 / 4			
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		3.26	3.21	3.33
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		7.82	7.94	7.66
Hlavatá, Karolína (CZE) (1994) 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	1.21			3.23	3.26	3.38

	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		
Cachová, Katerina (CZE) (1991)	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		
	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		
Sotáková, Jana (CZE) (1992)	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		
	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		
Galertová, Alena (CZE) (1992)	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		
	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 2		date	02-Aug-14	wind	-1.0 m/s	<i>Feher (2014) - Final report from the Czech Republic national championships</i>													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Koudelová, Lucie (CZE) (1994)	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
	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
Tomková, Helena (CZE) (1992)	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
	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
Hlavatá, Karolina (CZE) (1994)	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
	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
Klučinová, Eliška (CZE) (1988)	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
	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
Šimečková, Michaela (CZE) (1989)	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
	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
Komrsková, Aneta (CZE) (1999)	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
	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
Vytlačilová, Tereza (CZE) (1999)	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
	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
Landová, Barbora (CZE) (1989)	time	2.94	4.20	5.48	6.78	8.06	9.39	10.73	12.23	13.69	15.40		17.33	1 / 8					
	reaction time	0.170	interval	1.26	1.28	1.30	1.28	1.33	1.34	1.50	1.46	1.71	1.93				3.84	3.95	4.67
	velocity	4.42	6.75	6.64	6.54	6.64	6.39	6.34	5.67	5.82	4.97	5.44	5.77				6.64	6.46	5.46
Heat 1		date	02-Aug-14	wind	0.2 m/s	<i>Feher (2014) - Final report from the Czech Republic national championships</i>													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Škrobáková, Lucie (CZE) (1988)	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
	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
Cachová, Katerina (CZE) (1991)	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
	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
Hamáčková, Barbora (CZE) (1989)	time	2.76	3.88	4.96	6.01	7.07	8.13	9.21	10.27	11.38	12.51		13.80	3 / 3					
	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				3.25	3.20	3.30
	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				7.85	7.97	7.73
Sotáková, Jana (CZE) (1992)	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
	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
Galertová, Alena (CZE) (1992)	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
	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
Šebestíková, Nikol (CZE) (1999)	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
	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
Škaloudová, Eliška (CZE) (1999)	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
	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

Plihalová, Katerina (CZE) (199)	time	2.94	4.19	5.43	6.66	7.89	9.13	10.40	11.69	12.98	14.30		15.79	8 / 8			
	reaction time	0.343	interval	1.25	1.24	1.23	1.23	1.24	1.27	1.29	1.29	1.32	1.49		3.72	3.74	3.90
	velocity	4.42	6.80	6.85	6.91	6.91	6.85	6.69	6.59	6.59	6.44	7.05	6.33		6.85	6.82	6.54

2014 Czech Republic National U20 Championships (Trinec, CZE)

FINAL

date 28-Jun-14 wind -3.9 m/s

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zekuciová, Anna (CZE) (1995)	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
	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
Svobodová, Lenka (CZE) (199)	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
	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
Vachová, Anna (CZE) (1995)	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
	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
Hofmanová, Martina (CZE) (19)	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
	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
Dobrovolná, Kristyna (CZE) (19)	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
	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
Skálová, Annemarie (CZE) (19)	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
	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
Králová, Adéla (CZE) (1996)	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
	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 2

date 28-Jun-14 wind -1.5 m/s

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Svobodová, Lenka (CZE) (199)	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	1.18	1.17	1.20	1.23	1.42			3.47	3.50	3.60
	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
Vachová, Anna (CZE) (1995)	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
	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
Hofmanová, Martina (CZE) (19)	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
	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
Čaladi, Tereza (CZE) (1996)	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
	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
Votinská, Barbora (CZE) (1996)	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
	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
Remešová, Dominika (CZE) (19)	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
	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

Heat 1

date 28-Jun-14 wind -4.5 m/s

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zekuciová, Anna (CZE) (1995)	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
	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
Dobrovolná, Kristyna (CZE) (19)	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
	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
Skálová, Annemarie (CZE) (19)	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
	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

Vytačilová, Tereza (CZE) (1995)	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
	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
Králová, Adéla (CZE) (1996)	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
	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
Reháková, Karolína (CZE) (1995)	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
	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
Hlavanová, Michaela (CZE) (1995)	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
	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

2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)

FINAL

date 28-Jun-14 wind -3.6 m/s

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semecká, Tereza (CZE) (1998)	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
	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
Vokálová, Tereza (CZE) (1998)	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
	velocity	4.73	7.59	7.66	7.73	7.73	7.80	7.59	7.66	7.39	7.46	8.33	7.12		7.66	7.70	7.50
Šimečková, Michaela (CZE) (1995)	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
	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
Dvoráková, Katerina (CZE) (1995)	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	1.12	1.14	1.14	1.18	1.26			3.34	3.34	3.46
	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
Janičková, Veronika (CZE) (1995)	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
	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
Dostálová, Veronika (CZE) (1995)	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
	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
Vávrová, Denisa (CZE) (1998)	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
	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
Jedličková, Petra (CZE) (1998)	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	1.29	1.43			3.66	3.68	3.79
	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

date 28-Jun-14 wind -1.3 m/s

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semecká, Tereza (CZE) (1998)	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	1.10	1.10	1.16	1.23			3.27	3.27	3.36
	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
Janičková, Veronika (CZE) (1995)	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	1.16	1.13	1.16	1.26			3.32	3.36	3.45
	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
Jedličková, Petra (CZE) (1998)	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	1.20	1.21	1.21	1.25	1.37			3.56	3.58	3.67
	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
Bendová, Daniela (CZE) (1997)	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	1.25	1.23	1.21	1.26	1.36			3.62	3.67	3.70
	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
Majerová, Denisa (CZE) (1997)	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	1.23	1.23	1.25	1.32	1.45			3.60	3.67	3.80
	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
Kopečná, Kristyna (CZE) (1995)	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	0.181	interval	1.18	1.19	1.23	1.25	1.25	1.30	1.30	1.28	1.44			3.60	3.80	3.85
	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

Burdová, Magdalena (CZE) (1st)	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
	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
Švehláková, Eva (CZE) (1998)	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
	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

Heat 2

date 28-Jun-14 wind -7.3 m/s

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Vokálová, Tereza (CZE) (1998)	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	1.16	1.16	1.17	1.20	1.29			3.40	3.46	3.53
	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
Šimečková, Michaela (CZE) (1st)	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	1.36			3.42	3.45	3.64
	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
Žitná, Venuše (CZE) (1998)	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	1.46			3.61	3.76	3.87
	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
Rákosníková, Iveta (CZE) (1999)	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
	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
Májová, Veronika (CZE) (1998)	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	1.61			3.67	4.02	4.22
	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
Valášková, Tereza (CZE) (1998)	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	1.73			3.78	4.11	4.36
	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
Malá, Patricie (CZE) (1998)	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	1.56			3.89	4.20	4.68
	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

Heat 1

date 28-Jun-14 wind -1.8 m/s

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Dvoráková, Katerina (CZE) (1999)	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	1.26			3.32	3.29	3.35
	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
Dostálová, Veronika (CZE) (1999)	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
	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
Vávrová, Denisa (CZE) (1998)	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
	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
Nemčeková, Nikola (CZE) (1999)	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	1.43			3.55	3.64	3.83
	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
Hysková, Dominika (CZE) (1999)	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	1.44			3.66	3.69	3.78
	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
Viková, Natálie (CZE) (1998)	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	1.32			3.78	3.79	3.84
	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
Jarešová, Lucie (CZE) (1998)	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
	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
Rašková, Adéla (CZE) (1998)	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
	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

2014 Sparkassen Gala (Regensburg, GER)**FINAL**

date 07-Jun-14 wind 0.1 m/s

Buckwitz (2014) - OSP Berlin / DLV frauen hürden report

	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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Hofmann, Franziska (GER) (1989)	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
	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
Pederson, Isabelle (NOR) (1999)	7 steps	no information available											13.07	5 / 8			
Lindenmayer, Sabrina (GER) (1989)	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
	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
Ferguen, Amina (ALG) (1989)	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
	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
Pletsch, Jenna (GER) (1991)	time	2.68	3.78	4.84	5.88	6.94	8.00	9.04	10.10	11.18	12.30		13.51	3 / 5			
reaction time	interval		1.10	1.06	1.04	1.06	1.06	1.04	1.06	1.08	1.12	1.21			3.20	3.16	3.26
	velocity	4.85	7.73	8.02	8.17	8.02	8.02	8.17	8.02	7.87	7.59	8.68	7.40		7.97	8.07	7.82

Heat 2

date 07-Jun-14 wind -0.5 m/s Buckwitz (2014) - OSP Berlin / DLV frauen hürden report

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hofmann, Franziska (GER) (1989)	time	2.66	3.70	4.74	5.75	6.76	7.76	8.80	9.86	10.92	12.00		13.22	1 / 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
	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
Lindenmayer, Sabrina (GER) (1989)	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
	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

Heat 1

date 07-Jun-14 wind -1.6 m/s Buckwitz (2014) - OSP Berlin / DLV frauen hürden report

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ferguen, Amina (ALG) (1989)	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
	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
Pletsch, Jenna (GER) (1991)	time	2.66		4.84	5.92	7.00	8.08	9.16	10.26	11.36	12.48		13.70	1 / 3			
reaction time	interval			2.18	1.08	1.08	1.08	1.08	1.10	1.10	1.12	1.22			3.26	3.24	3.32
	velocity	4.89		7.80	7.87	7.87	7.87	7.87	7.73	7.73	7.59	8.61	7.30		7.82	7.87	7.68

2014 Chinese National Grand Prix (Zhaoqing, CHN)

FINAL

date 20-Apr-14 wind 1.0 m/s Deng (2016) - research on the 2014 winter training of chinese excellent 100m hurdler Deng Ru

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Deng Ru (CHN) (1989)	time	2.35	3.43	4.51	5.59	6.63	7.66	8.74	9.81	10.90	12.01		13.57	1 / 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
	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

2014 Italian National Indoor Championships (Ancona, ITA)

FINAL

date 22-Feb-14 FIDAL - Centro Studi & Ricerche (2014) - www.youtube.com/watch?v=7_FeLg_p08Y

		H1	H2	H3	H4	H5							Run-In	Official Time	Lane / Place	H1-H4	
Pennella, Giulia (ITA) (1989)	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	
Caravelli, Marzia (ITA) (1991)	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	

2013 IAAF World Championships (Moscow, RUS) (TV Analysis)

FINAL

date 17-Aug-13 wind -0.6 m/s Henson (2021) - Athlete First: major championships report

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Rollins, Brianna (USA) (1991)	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		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
	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
Pearson, Sally (AUS) (1986)	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
	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
Porter, Tiffany (GBR) (1987)	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	1.00	1.00	1.02	1.23			2.96	2.88	3.02
	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
Harper Nelson, Dawn (1984)	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
	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
Harrison, Queen (USA) (1988)	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
		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
Whyte, Angela (CAN) (1980)	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
		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
Billard, Cindy (FRA) (1986)	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	1.00	1.00	1.00	1.02	1.04	1.24			3.02	2.96	3.06
		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
Kondakova, Yuliya (RUS) (198)	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
		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

2013 Windsprint (Sundsvall, SWE)

FINAL

date 28-Jul-13 wind 1.2 m/s

(2013) - www.ssg.se/windsprint/Splittider/

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Neziri, Nooralotta (FIN) (1992)	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
	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
Thomas, Vashti (USA) (1990)	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
	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
Ørving, Tale (NOR) (1989)	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
	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
Tuvsesson, Emma (SWE) (1991)	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
	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
Secher Myrnel, Lene (NOR) (1991)	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
	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
Inoussa, Farydah (SWE) (1994)	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
	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

2013 Athletissima Diamond League Meeting (Lausanne, SUI)

FINAL

date 04-Jul-13 wind 1.2 m/s

Vazel (2013) - hurdle observations

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pearson, Sally (AUS) (1986)	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
	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

2013 USATF National Championships (Des Moines, IA)

FINAL

date 22-Jun-13 wind 1.2 m/s

(2015.9.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Rollins, Brianna (USA) (1991)	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
	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

2013 Czech Republic National Championships (Tábor, CZE)

FINAL

date 15-Jun-13 wind 0.3 m/s

Feher (2013) - Final report from the men's & women's Czech Republic national championships

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Škrobáková, Lucie (CZE) (1988)	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
	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
Sotáková, Jana (CZE) (1993)	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
	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
Cachová, Katerína (CZE) (1991)	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
	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
Koudelová, Lucie (CZE) (1994)	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
	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
Klučinová, Eliška (CZE) (1988)	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
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
Komrsková, Aneta (CZE) (199)	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
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
Galertová, Alena (CZE) (1992)	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
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
Nejedlová, Michaela (CZE) (199)	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
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

Heat 3

date 15-Jun-13 wind -1.8 m/s *Fehér (2013) - Final report from the men's & women's Czech Republic national championships*

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Cachová, Katerína (CZE) (199)	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
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
Galertová, Alena (CZE) (1992)	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
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
Zekuciová, Anna (CZE) (1995)	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
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
Matysková, Ludmila (CZE) (199)	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
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
Nováčková, Olga (CZE) (1992)	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	
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

date 15-Jun-13 wind -0.9 m/s *Fehér (2013) - Final report from the men's & women's Czech Republic national championships*

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Sotáková, Jana (CZE) (1993)	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
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
Klučinová, Eliška (CZE) (1988)	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
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
Nejedlová, Michaela (CZE) (199)	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
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
Komrsková, Aneta (CZE) (199)	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
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
Šutová, Eva (CZE) (1990)	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
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
Plíhalová, Katerína (CZE) (199)	time	2.99	4.30	5.58	6.85	8.09	9.40				14.58		16.03		7 / 6			
reaction time	0.210	interval	1.31	1.28	1.27	1.24	1.31					1.45				3.86		
velocity	4.35		6.49	6.64	6.69	6.85	6.49					7.24	6.24			6.61		

Heat 1

date 15-Jun-13 wind -1.0 m/s *Fehér (2013) - Final report from the men's & women's Czech Republic national championships*

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Škrobáková, Lucie (CZE) (198)	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
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
Koudelová, Lucie (CZE) (1994)	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
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
Muchová, Zuzana (CZE) (1988)	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
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

Škaloudová, Eliška (CZE) (1991)	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		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
	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
Rajmová, Katerina (CZE) (1988)	time	2.81	3.99	5.13	6.28	7.45	8.61	9.75	10.95	12.24				2 / --				
	reaction time	0.144		1.18	1.14	1.15	1.17	1.16	1.14	1.20	1.29		DQ			3.47	3.47	
	velocity	4.63	7.20	7.46	7.39	7.26	7.33	7.46	7.08	6.59						7.35	7.35	

2013 European Indoor Championships (Göteborg, SWE)**FINAL**

date 01-Mar-13

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

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4
Yanit, Nevin (TUR) (1986)	time	2.52	3.58	4.58	5.58	6.56		7.89	3 / 4	
	reaction time	0.158		1.06	1.00	0.98	1.33	NR-DV		3.06
	velocity	5.16	8.02	8.50	8.50	8.67	9.77	7.60		8.33
Talay, Alina (BLR) (1989)	time	2.62	3.65	4.64	5.64	6.62		7.94	5 / 2-1	
	reaction time	0.154		1.03	0.99	1.00	1.32	=PB		3.02
	velocity	4.96	8.25	8.59	8.50	8.67	9.85	7.56		8.44
Borsi, Veronica (ITA) (1987)	time	2.60	3.64	4.64	5.64	6.62		7.94	4 / 3-2	
	reaction time	0.176		1.04	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
O'Rourke, Deval (IRL) (1981)	time	2.58	3.60	4.61	5.61	6.63		7.95	2 / 4-3	
	reaction time	0.141		1.02	1.01	1.00	1.32			3.03
	velocity	5.04	8.33	8.42	8.50	8.33	9.85	7.55		8.42
Kondakova, Yuliya (RUS) (1988)	time	2.58	3.64	4.65	5.64	6.65		7.99	6 / 5-4	
	reaction time	0.159		1.06	1.01	0.99	1.34			3.06
	velocity	5.04	8.02	8.42	8.59	8.42	9.70	7.51		8.33
Berings, Eline (BEL) (1986)	time	2.59	3.63	4.68	5.70	6.71		8.08	8 / 6-5	
	reaction time	0.127		1.04	1.05	1.02	1.37			3.11
	velocity	5.02	8.17	8.10	8.33	8.42	9.49	7.43		8.20
Cattaneo, Micol (ITA) (1982)	time	2.64	3.71	4.73	5.74	6.78		8.11	7 / 7-6	
	reaction time	0.180		1.07	1.02	1.01	1.33			3.10
	velocity	4.92	7.94	8.33	8.42	8.17	9.77	7.40		8.23
Neziri, Nooralotta (FIN) (1992)	time	2.65	3.74	4.78	5.79	6.80		8.19	1 / 8-7	
	reaction time	0.143		1.09	1.04	1.01	1.39			3.14
	velocity	4.91	7.80	8.17	8.42	8.42	9.35	7.33		8.12

Pentathlon - Heat 2

date 01-Mar-13

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

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4
Linde, Sofia (SWE) (1995)	time	2.73	3.80	4.86	5.90	6.94		8.36	5 / 5	
	reaction time	0.165		1.07	1.06	1.04	1.42			3.17
	velocity	4.76	7.94	8.02	8.17	8.17	9.15	7.18		8.04

Pentathlon - Heat 1

date 01-Mar-13

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

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4
Hallin, Ellinor (SWE) (1987)	time	2.74	3.82	4.88	5.96	7.00		8.43	6 / 2	
	reaction time	0.172		1.08	1.06	1.08	1.43			3.22
	velocity	4.74	7.87	8.02	7.87	8.17	9.09	7.12		7.92

2013 Italian National Indoor Championships (Ancona, ITA)**FINAL**

date 16-Feb-13

FIDAL - Centro Studi & Ricerche (2013) - www.youtube.com/watch?v=V4AEm5H14hl

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4
Borsi, Veronica (ITA) (1987)	time	2.69	3.69	4.70	5.68	6.67		8.00	4 / 1	
	reaction time			1.00	1.01	0.98	1.33	PB		2.99
	velocity	4.83	8.50	8.42	8.67	8.59	9.77	7.50		8.53

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

date 07-Aug-12

wind -0.2 m/s

Henson (2021) - Athlete First: major championships report

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pearson, Sally (AUS) (1986)	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		0.98	0.96	0.96	0.96	0.94	0.96	0.98	1.00	1.17	OR		2.90	2.86	2.98
	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
Harper, Dawn (USA) (1984)	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		1.00	0.96	0.96	0.96	0.96	0.96	0.98	1.00	1.15	PB		2.92	2.88	2.94
	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
Wells, Kellie (USA) (1982)	time	2.46	3.46	4.42	5.38	6.36	7.34	8.32	9.30	10.28	11.30		12.48	5 / 3			
	reaction time	0.137		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
	velocity																

	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	
Jones, Lolo (USA) (1982)	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	
	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	
Yanit, Nevin (TUR) (1986)	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
	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	
George, Phylicia (CAN) (1987)	time	2.52	3.54	4.52	5.48	6.44	7.42	8.40	9.40	10.42	11.46		12.65	3 / 4 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
	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	
Zelinka, Jessica (CAN) (1981)	time	2.50	3.50	4.50	5.46	6.42	7.40	8.38	9.40	10.42	11.46		12.69	8 / 7 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	
	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	
Schrott, Beate (AUT) (1988)	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	1.04	1.04	1.08	1.29			3.04	3.00	3.16	
	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	

Heat 1

	date	06-Aug-12	wind	0.6 m/s	(2016.10.31) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kimura, Ayako (JPN) (1988)	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		
	velocity	4.92	8.33	8.25	8.42	8.42							7.27			8.33		

Heptathlon - Heat 5

	date	03-Aug-12	wind	1.3 m/s	Hollman (2012) - uka 2012 olympic games report: combined events														
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Ennis, Jessica (GBR) (1986)	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
	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	

2012 Areva Diamond League Meeting (Saint-Denis, FRA)

FINAL

	date	06-Jul-12	wind	0.0 m/s	Vazel (2012) - hurdle observations													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pearson, Sally (AUS) (1986)	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
	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

2012 British National Championships (Birmingham, GBR)

FINAL

	date	23-Jun-12	wind	0.3 m/s	Hollman (2012) - uka 2012 olympic games report: combined events													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ennis, Jessica (GBR) (1986)	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	1.12				3.18	2.97	2.99
	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

2012 Windsprint (Sundsvall, SWE)

FINAL

	date	17-Jun-12	wind	0.8 m/s	Blomkvist (2012) - www.sub13.se													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Argunova, Nina (RUS) (1989)	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
	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
Gubina, Yekaterina (RUS) (1988)	time	2.81	3.87	4.92	5.96	6.99	8.04	9.09	10.14	11.22	12.30		13.47	/ 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
	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
Lundahl, Caroline (SWE) (1999)	time	2.79	3.87	4.94	5.99	7.04	8.15	9.20	10.30	11.42	12.57		13.80	/ 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
	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
Eriksson, Malin (SWE) (1991)	time	2.78	3.89	4.97	6.06	7.13	8.23	9.34	10.48	11.61	12.77		14.11	/ 4				
	reaction time		interval	1.11	1.08	1.09	1.07	1.10	1.11	1.14	1.13	1.16	1.34			3.28	3.28	3.43
	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			7.77	7.77	7.43
Juhász, Fanni (HUN) (1981)	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
	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
Skogström, Charlotte (SWE) (1988)	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
	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

2012 Melbourne Track Classic (Melbourne, AUS)

FINAL

date 03-Mar-12 wind 0.8 m/s

kitkat1 (2012) - www.charliefrancis.com/community/showthread.php?22163-Sally-Pearson-s-12-49

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pearson, Sally (AUS) (1986)	time	2.55	3.55	4.53	5.51	6.47	7.44	8.41	9.39	10.38	11.41		12.49	/ 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
	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

2012 Czech Republic National Indoor Championships (Praha, CZE)

FINAL

date 25-Feb-12

Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles

		H1	H2	H3	H4	H5						Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Korešová, Jana (CZE) (1981)	time	2.69	3.80	4.87	5.94	6.99							8.42	4 / 1			
	reaction time	0.148	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		
Tomková, Helena (CZE) (1992)	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		
Nejedlová, Michaela (CZE) (1991)	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		
Štáhllová, Zuzana (CZE) (1992)	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					1.55			3.33		
	velocity	4.76	7.73	7.33	7.94	7.46						8.39	6.86		7.66		
Sotáková, Jana (CZE) (1993)	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					1.51			3.44		
	velocity	4.68	7.39	7.46	7.39	7.52						8.61	6.77		7.41		
Michalská, Klára (CZE) (1993)	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		
Hamáčková, Barbora (CZE) (1991)	time	2.82	4.02	5.13	6.25	7.41							8.98	1 / 7			
	reaction time	0.190	interval	1.20	1.11	1.12	1.16					1.57			3.43		
	velocity	4.61	7.08	7.66	7.59	7.33						8.28	6.68		7.43		
Komrsková, Aneta (CZE) (1993)	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 2

date 25-Feb-12

Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles

		H1	H2	H3	H4	H5						Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Korešová, Jana (CZE) (1981)	time	2.72	3.84	4.90	5.98	7.03							8.49	4 / 1			
	reaction time	0.184	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		
Tomková, Helena (CZE) (1992)	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		
Sotáková, Jana (CZE) (1993)	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					1.55			3.37		
	velocity	4.66	7.46	7.52	7.73	7.59						8.39	6.80		7.57		
Štáhllová, Zuzana (CZE) (1992)	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					1.56			3.42		
	velocity	4.71	7.46	7.52	7.39	7.46						8.33	6.76		7.46		
Hamáčková, Barbora (CZE) (1991)	time	2.85	4.02	5.17	6.28	7.40							8.96	2 / 5			
	reaction time	0.204	interval	1.17	1.15	1.11	1.12					1.56			3.43		
	velocity	4.56	7.26	7.39	7.66	7.59						8.33	6.70		7.43		
Galertová, Alena (CZE) (1992)	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		
Nováčková, Olga (CZE) (1992)	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		6.84		

Heat 1

date 25-Feb-12

Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles

		H1	H2	H3	H4	H5						Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Nejedlová, Michaela (CZE) (1991)	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
Michalská, Klára (CZE) (1993) 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
Komrsková, Aneta (CZE) (1999) 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
Chmelarová, Klára (CZE) (1999) 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
Suchelová, Nikola (CZE) (1991) 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
Svojanovská, Michaela (CZE) (1999) 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

2012 Italian National Indoor Championships (Ancona, ITA)

FINAL

date 25-Feb-12

FIDAL - Centro Studi & Ricerche (2012) - www.youtube.com/watch?v=_GzCpvpvYL8

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4
Caravelli, Marzia (ITA) (1981) 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
Borsi, Veronica (ITA) (1987) 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
velocity	4.81	8.25	8.17	8.50	8.33	9.35	7.33		8.31

2011 IAAF World Championships (Daegu, KOR)

FINAL

date 03-Sep-11

wind 1.1 m/s

KSSB (2011) - biomechanical analysis of women's 100m hurdle

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pearson, Sally (AUS) (1986) 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
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
Carruthers, Danielle (USA) (1999) 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
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
Harper, Dawn (USA) (1984) 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	1.00	1.10	PB		2.92	2.89	2.96
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
Porter, Tiffany (GBR) (1987) 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
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
Dektyareva, Tatyana (RUS) (1991) 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
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
Holder, Nikkita (CAN) (1987) 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
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
George, Phylcia (CAN) (1987) time	0.126	no information available										17.97	4 / 7			
Wells, Kellie (USA) (1982) time	0.171	no information available										dnf	5 / --			

Heat 4

date 02-Sep-11

wind 0.0 m/s

KSSB (2011) - biomechanical analysis of women's 100m hurdle

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Carruthers, Danielle (USA) (1999) 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
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

Heat 2

date 02-Sep-11

wind -0.6 m/s

KSSB (2011) - biomechanical analysis of women's 100m hurdle

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pearson, Sally (AUS) (1986) 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
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
Jung Hye-lim (KOR) (1987) 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
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

Heat 1

date 02-Sep-11

wind 1.0 m/s

KSSB (2011) - biomechanical analysis of women's 100m hurdle

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wells, Kellie (USA) (1982)	time	2.60	3.64	4.62	5.59	6.59	7.57	8.55	9.54	10.56	11.58		12.73	2 / 1			
reaction time	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
velocity	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

2011 Windsprint (Sundsvall, SWE)**FINAL**

date 31-Jul-11

wind 1.4 m/s

Blomkvist (2011) - www.sub13.se

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harrison, Queen (USA) (1988)	time	2.67	3.72	4.76	5.77	6.76	7.77	8.75	9.76	10.76	11.78		12.93	1 / 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
velocity	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
Barber, Aleesha (TTO) (1987)	time	2.47	3.53	4.57	5.60	6.62	7.66	8.70	9.75	10.80	11.89		13.29	2 / 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
velocity	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
Tuvsesson, Emma (SWE) (1991)	time	2.73	3.80	4.85	5.92	6.97	8.02	9.06	10.11	11.17	12.25		13.43	3 / 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
velocity	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
Makakala, Fatima (SWE) (1989)	time	2.70	3.76	4.82	5.90	6.97	8.05	9.13	10.26	11.40	12.54		13.78	4 / 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
velocity	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
Samuelsson, Jessica (SWE) (1987)	time	2.77	3.88	4.96	6.06	7.15	8.25	9.34	10.46	11.61	12.76		13.95	5 / 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
velocity	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
Hallin, Ellinore (SWE) (1987)	time	2.81	3.95	5.03	6.14								14.06	6 / 6			
reaction time	interval		1.14	1.08	1.11										3.33		
velocity	velocity	4.63	7.46	7.87	7.66								7.11		7.66		
Rogemyr, Maja (SWE) (1991)	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
velocity	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

2011 European Team Championships (Stockholm, SWE)**Race 1**

date 19-Jun-11

wind -1.0 m/s

Blomkvist (2011) - www.sub13.se

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Dektyareva, Tatyana (RUS) (1987)	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	interval		1.04	1.04	1.04	1.00	1.04	1.04	1.04	1.04	1.08	1.24			3.12	3.08	3.16
velocity	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
Caravelli, Marzia (ITA) (1981)	time	2.58	3.64	4.68	5.70	6.72	7.76	8.80	9.86	10.92	12.00		13.21	2 / 2			
reaction time	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
velocity	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
Tymińska, Karolina (POL) (1987)	time	2.62	3.68	4.76	5.80	6.86	7.88	8.92	9.96	11.06	12.20		13.51	3 / 3			
reaction time	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
velocity	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
Yanovska, Olena (UKR) (1990)	time	2.58	3.68	4.74	5.80	6.88	7.92	9.00	10.06	11.16	12.28		13.56	4 / 4			
reaction time	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
velocity	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
Tuvsesson, Emma (SWE) (1991)	time	2.68	3.76	4.84	5.90	6.96	8.03	9.10	10.18	11.24	12.32		13.62	5 / 5			
reaction time	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
velocity	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
Mamona, Patricia (POR) (1988)	time	2.74	3.80	4.88	6.00	7.08	8.20	9.30	10.42	11.56	12.80		14.30	6 / 6			
reaction time	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
velocity	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

2011 Landskamp FIN-SWE-NOR (Tammefors, FIN)**FINAL**

date 05-Feb-11

Blomkvist (2011) - www.sub13.se

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4
Vukicevic, Christina (NOR) (1987)	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		3.00
velocity	velocity	5.33	8.17	8.50	8.85	8.50		8.78		8.50
Kluft, Carolina (SWE) (1983)	time	2.48	3.62	4.64	5.68	6.72		8.26	2 / 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
Neziri, Nooralotta (FIN) (1992)	time	2.54	3.64	4.68	5.74	6.80								8.32	/ 3
	reaction time		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
Pedersen, Isabelle (NOR) (1992)	time	2.56	3.64	4.68	5.74	6.80								8.38	/ 4
	reaction time		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
Tu vesson, Emma (SWE) (1991)	time	2.58	3.68	4.76	5.82	6.88								8.40	/ 5
	reaction time		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
Aidanpää, Ida (FIN) (1988)	time	2.56	3.66	4.72	5.76	6.80								8.43	/ 6
	reaction time		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

2010 National Sports Festival (Chiba, JPN)**FINAL**

	date	04-Oct-10	wind	0.5 m/s	(2017.03.26) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Terada, Asuka (JPN) (1990)	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			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
	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

2010 Swedish National Championships (Falun, SWE)**FINAL**

	date	22-Aug-10	wind	-0.2 m/s	Blomkvist (2010) - www.sub13.se													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Westerlund, Elin (SWE) (1990)	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			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
	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
Tu vesson, Emma (SWE) (1991)	time		2.77	3.89	4.97	6.04	7.11	8.15	9.23	10.32	11.41	12.50		13.71	/ 2			
	reaction time			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
	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
Lundahl, Caroline (SWE) (1992)	time		2.83	3.88	4.96	6.04	7.14	8.22	9.35	10.46	11.58	12.72		13.95	/ 3			
	reaction time			1.05	1.08	1.08	1.10	1.08	1.13	1.11	1.12	1.14	1.23			3.21	3.31	3.37
	velocity		4.59	8.10	7.87	7.87	7.73	7.87	7.52	7.66	7.59	7.46	8.54	7.17		7.94	7.70	7.57
Magnusson, Emma (SWE) (1991)	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			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
	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
Sääw, Ellen (SWE) (1990)	time		2.82	3.95	5.06	6.16	7.25	8.34	9.48	10.63	11.81	12.99		14.32	/ 5			
	reaction time			1.13	1.11	1.10	1.09	1.09	1.14	1.15	1.18	1.18	1.33	PB		3.34	3.32	3.51
	velocity		4.61	7.52	7.66	7.73	7.80	7.80	7.46	7.39	7.20	7.20	7.89	6.98		7.63	7.68	7.26
Samuelsson, Jessica (SWE) (1991)	time		2.78	3.89	5.04	6.14	7.25	8.40	9.56	10.72	11.90	13.11		14.35	/ 6			
	reaction time			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
	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
Rogemyr, Maja (SWE) (1991)	time		2.83	3.93	5.03	6.14	7.24	8.39	9.54	10.72	11.92	13.15		14.50	/ 7			
	reaction time			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
	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
Eurenius, Isabelle (SWE) (1989)	time		2.86	3.99	5.11	6.23	7.38	8.53	9.70	10.87	12.11	13.49		14.97	/ 8			
	reaction time			1.13	1.12	1.12	1.15	1.15	1.17	1.17	1.24	1.38	1.48			3.37	3.47	3.79
	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		7.57	7.35	6.73

2010 Windsprint (Sundsvall, SWE)**FINAL**

	date	08-Aug-10	wind	0.6 m/s	Blomkvist (2010) - 100/110m Hurdles: Development													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Barber, Aleesha (TTO) (1987)	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			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
	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
Davin, Elisabeth (BEL) (1981)	time		2.72	3.78	4.85	5.88	6.90	7.94	8.99	10.06	11.14	12.21		13.36	/ 2			
	reaction time			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
	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
Helsby, Ashley (GBR) (1990)	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			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
	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
Rogemyr, Maja (SWE) (1991)	time		2.84	3.99	5.10	6.20	7.33	8.46	9.61	10.78	11.95	13.14		14.50	/ 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	
	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
Sääw, Ellen (SWE) (1990)	time	2.83	3.96	5.08	6.18	7.28	8.40	9.52	10.68	11.91	13.21		14.60	/ 5		
reaction time	interval		1.13	1.12	1.10	1.10	1.12	1.12	1.16	1.23	1.30	1.39		3.35	3.34	3.69
	velocity	4.59	7.52	7.59	7.73	7.73	7.59	7.59	7.33	6.91	6.54	7.55	6.85	7.61	7.63	6.91
Lüppert Thomsson, Frida (SWE)	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
	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

2010 European Championships (Barcelona, ESP)

FINAL

date	31-Jul-10	wind	-0.5 m/s												Graubner (2010) - http://www.fgs.uni-halle.de				
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Yanit, Nevin (TUR) (1986)	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		
	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		
O'Rourke, Deval (IRL) (1981)	time	2.59	3.61	4.60	5.57	6.55	7.53	8.53	9.53	10.54	11.57		12.65	7 / 2					
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		
	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		
Nytra, Carolin (GER) (1985)	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		
	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		
Vukicevic, Christina (NOR) (1981)	0.157	no information available											12.78	/ 4					
Snihur, Yevheniya (UKR) (1988)	0.151	no information available											12.92	/ 5					
Dektyareva, Tatyana (RUS) (1989)	0.819	no information available											12.98	/ 6					
Urech, Lisa (SUI) (1989)	0.170	no information available											13.02	/ 7					
Hildebrand, Nadine (GER) (1989)	0.191	no information available											13.08	/ 8					

2010 IAAF World Indoor Championships (Doha, QAT)

FINAL

date	13-Mar-10											Kuitunen (2010) - <i>biomechanical analysis of the 14th IAAF world indoor championships</i>					
		H1	H2	H3	H4	H5						Run-In	Official Time	Lane / Place	H1-H4		
Jones, Lolo (USA) (1982)	time	2.59	3.56	4.53	5.46	6.42							7.72	2 / 1			
reaction time	0.157 interval		0.97	0.97	0.93	0.96						1.30	CR / AR		2.87		
	velocity	5.02	8.76	8.76	9.14	8.85						10.00	7.77		8.89		
Felicien, Perdita (CAN) (1980)	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		
Lopes-Schliep, Priscilla (CAN) (1980)	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		
Tejeda, Anay (CUB) (1983)	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		
Powell, Virginia (Ginnie) (USA) (1980)	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						1.36			2.99		
	velocity	4.94	8.33	8.59	8.67	8.59						9.56	7.53		8.53		
Dixon, Vonette (JAM) (1975)	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		
Golding-Clarke, Lacena (JAM) (1980)	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		
Dektyareva, Tatyana (RUS) (1989)	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		

2010 Five Nations (Glasgow, GBR)

FINAL

date	30-Jan-10											Blomkvist (2010) - www.sub13.se				
		H1	H2	H3	H4	H5						Run-In	Official Time	Lane / Place	H1-H4	
Sääw, Ellen (SWE) (1990)	time	2.54	3.63	4.74	5.81	6.87							8.50	/ 6		
reaction time	0.516 interval		1.09	1.11	1.07	1.06						1.63	PB		3.27	
	velocity	5.12	7.80	7.66	7.94	8.02						7.98	7.06		7.80	

2010 Scandic Indoor Games (Huddinge, SWE)

FINAL

date	16-Jan-10											Blomkvist (2010) - www.sub13.se				
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		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4
Sääw, Ellen (SWE) (1990)	time	2.60	3.69	4.80	5.87	6.94		8.60	/ 1	
	reaction time	0.200	1.09	1.11	1.07	1.07	1.66			3.27
	velocity	5.00	7.80	7.66	7.94	7.94	7.83	6.98		7.80

2009 Seiko Super Grand Prix (Kawasaki, JPN)**FINAL**

date 23-Sep-09 wind 0.3 m/s

Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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		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
	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
Fountain, Hyleas (USA) (1981)	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		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
	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

2009 IAAF World Athletic Final (Thessaloniki, GRE)**FINAL**

date 12-Sep-09 wind -0.1 m/s

Winckler (2009) - UK Athletics- National Coaching Conference

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Foster-Hylton, Brigitte (JAM)	0.178	no information available											12.58	1 / 5			
Harper, Dawn (USA) (1984)	0.187	no information available											12.61	6 / 2			
Ennis-London, Delloreen (JAM)	0.186	no information available											12.61	2 / 3			
Lopes-Schliep, Priscilla (CAN)	0.141	no information available											12.61	4 / 4			
Felicien, Perdita (CAN) (1986)	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	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
	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
Cherry, Damu (USA) (1977)	0.165	no information available											12.78	3 / 6			
Golding-Clarke, Lacena (JAM)	0.149	no information available											12.78	1 / 7			
Carruthers, Danielle (USA) (19)	0.182	no information available											12.78	8 / 8			

2009 Weltklasse (Zurich, SUI)**FINAL**

date 28-Aug-09 wind -0.4 m/s

Winckler (2009) - UK Athletics- National Coaching Conference

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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	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
	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

2009 IAAF World Championships (Berlin, GER)**FINAL**

date 19-Aug-09 wind 0.2 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Foster-Hylton, Brigitte (JAM)	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	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
	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
Lopes-Schliep, Priscilla (CAN)	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	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
	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
Ennis-London, Delloreen (JAM)	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	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
	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
O'Rourke, Derval (IRL) (1981)	time	2.58	3.57	4.55	5.53	6.52	7.51	8.49	9.50	10.52	11.58		12.67	1 / 4			
	reaction time	0.128	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
	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
McLellan, Sally (AUS) (1986)	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	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
	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
Crawford, Virginia (Ginnie) (U)	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	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
	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
Harper, Dawn (USA) (1984)	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	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
	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
Felicien, Perdita (CAN)	0.151	no information available											15.53	3 / 8			

Semi-Final 3

date 19-Aug-09 wind 0.3 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harper, Dawn (USA) (1984)	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	
		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
McLellan, Sally (AUS) (1986)	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
		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
O'Rourke, Derval (IRL) (1981)	time	2.60	3.60	4.60	5.59	6.57	7.55	8.55	9.58	10.60	11.65			12.73	5 / 3		
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
		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
Golding-Clark, Lacena (JAM)	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
		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
Nytra, Carolin (GER) (1985)	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
		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
Berings, Eline (BEL) (1986)	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
		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	8.33	8.47	8.17

Semi-Final 2

date 19-Aug-09 wind 0.1 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Foster-Hylton, Brigitte (JAM)	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
		velocity	5.04	8.33	8.59	8.76	8.85	8.85	8.50	8.50	8.33	9.72	7.97		8.56	8.85	8.44
Felicien, Perdita (CAN) (1980)	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
		velocity	4.96	8.33	8.67	8.67	8.76	8.76	8.85	8.50	8.25	9.72	7.95		8.56	8.76	8.53
Cherry, Danu (USA) (1977)	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
		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
Tejeda, Anay (CUB) (1983)	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
		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

Semi-Final 1

date 19-Aug-09 wind -0.1 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lopes-Schliep, Priscilla (CAN)	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
		velocity	5.04	8.33	8.50	8.59	8.76	8.67	8.59	8.67	8.17	9.72	7.94		8.47	8.73	8.47
Ennis-London, Delloreen (JAM)	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
		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
Crawford, Virginia (Ginnie) (U)	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
		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
Škrobáková, Lucie (CZE) (1982)	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
		velocity	4.91	8.17	8.59	8.50	8.67	8.59	8.42	8.25	8.17	8.90	7.74		8.42	8.56	8.28
Yanit, Nevin (TUR) (1986)	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
		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 5

date 18-Aug-09 wind 0.1 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Foster-Hylton, Brigitte (JAM)	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
		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
Felicien, Perdita (CAN) (1980)	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
		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
Tejeda, Anay (CUB) (1983)	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
		velocity	4.94	8.25	8.42	8.50	8.59	8.67	8.42	8.25	8.25	9.37	7.80		8.39	8.61	8.31

Claxton, Sarah (GBR) (1979)	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
	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

Heat 4

date 18-Aug-09 wind -0.3 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lopes-Schliep, Priscilla (CAN)	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
	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
Crawford, Virginia (Ginnie) (U)	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
	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
Yanit, Nevin (TUR) (1986)	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
	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
Vukicevic, Christina (NOR) (19)	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
	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

Heat 3

date 18-Aug-09 wind 0.1 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLellan, Sally (AUS) (1986)	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
	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
O'Rourke, Derval (IRL) (1981)	time	2.61	3.61	4.61	5.61	6.59	7.60	8.61	9.64	10.70	11.77		12.86	4 / 2			
	reaction time	0.147	interval	1.00	1.00	0.98	1.01	1.01	1.03	1.06	1.07	1.09			3.00	3.00	3.16
	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
Kondakova, Yuliya (RUS) (198)	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
	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

Heat 2

date 18-Aug-09 wind -0.3 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Cherry, Damu (USA) (1977)	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
	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
Golding-Clarke, Lacena (JAM)	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	1.05	1.07	1.17		3.02	3.04	3.14
	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
Nytra, Carolin (GER) (1985)	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
	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

Heat 1

date 18-Aug-09 wind 0.1 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harper, Dawn (USA) (1984)	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
	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
Ennis-London, Delloreen (JAI)	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	0.98	1.00	0.99	1.03	1.11			3.03	2.95	3.02
	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
Augustus, Olutoyin (NGR) (19)	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
	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

Heptathlon - Heat 4

date 15-Aug-09 wind -0.2 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Nana Djimou, Ida Antoinette ()	0.168	no information available											PB	13.44	2 / 1			
Chernova, Tatyana (RUS) (198)	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	
	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	
Yosypenko, Lyudmyla (UKR) (1)	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	
	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	

Theisen, Brianne (CAN) (1988)	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	1.10	1.10	1.19	PB		3.23	3.23	3.28
	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
De Aniceto, Marisa (FRA) (198)	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
	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
Tarasova, Yuliya (UZB) (1986)	time	2.85	3.98	5.08	6.20	7.30	8.41	9.54	10.69	11.84	13.02		14.23	8 / 7			
	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		3.35	3.34	3.48
	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		7.61	7.63	7.33

Heptathlon - Heat 3

date 15-Aug-09 wind -0.1 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hazel, Louise (GBR) (1985)	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
	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
Tymińska, Karolina (POL) (197)	time	2.75	3.88	4.99	6.04	7.12	8.19	9.23	10.30	11.40	12.50		13.67	2 / 2			
	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
	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
Samuelsson, Jessica (SWE) (1)	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	1.11	1.10	1.12	1.15	1.18			3.32	3.31	3.37
	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
Mächtigt, Julia (GER) (1986)	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
	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

Heptathlon - Heat 2

date 15-Aug-09 wind -0.3 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Wade, Bettie (USA) (1)	0.198	no information available											PB	13.79	5 / 1			
Schwarzkopf, Lilli (GER) (1983)	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	
	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	
Dobrynska, Nataliya (UKR) (19)	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	
	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	
Day, Sharon (USA) (1985)	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	0.205	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	
	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	

Heptathlon - Heat 1

date 15-Aug-09 wind -0.4 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Ennis, Jessica (GBR) (1986)	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	
	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	
Aerts, Sara (BEL) (19)	0.144	no information available												13.45	2 / 2			
Chudzik, Kamila (POL) (1986)	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	
	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	
Pickler, Diana (USA) (1983)	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	
	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	
Melnychenko, Hanna (UKR) (1)	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	
	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	
Oeser, Jennifer (GER) (1983)	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	
	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	
Wisse, Yvonne (NED) (1982)	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	
	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	
Grabuste, Aiga (LAT) (1988)	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		
		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

2009 Swiss National Championships (Zürich, SUI)**FINAL**

	date	02-Aug-09	wind	1.2 m/s	<i>Rees (2009) - wettkampfauswertung 100m hürden - frauen/w.jgd.A+B</i>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Urech, Lisa (SUI) (1989)	time		2.62	3.66	4.70	5.70	6.70	7.70	8.74	9.78	10.82	11.86		13.01	/ 1			
	reaction time	interval		1.04	1.04	1.00	1.00	1.00	1.04	1.04	1.04	1.04	1.15	NUR		3.08	3.04	3.12
		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

2009 DN Gala (Stockholm, SWE)**FINAL**

	date	31-Jul-09	wind	0.9 m/s	<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
		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

	date	31-Jul-09	wind	1.8 m/s	<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
		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

2009 Aviva (London, GBR)**FINAL**

	date	25-Jul-09	wind	-0.7 m/s	<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
		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

2009 Golden Gala (Rome, ITA)**FINAL**

	date	10-Jul-09	wind	0.4 m/s	<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
		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

2009 Athletissima (Lausanne, SUI)**FINAL**

	date	07-Jul-09	wind	0.3 m/s	<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
		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

2009 Bislett Games (Oslo, NOR)**FINAL**

	date	03-Jul-09	wind	-0.8 m/s	<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
		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

2009 Canadian National Championships (Toronto, CAN)**FINAL**

	date	27-Jun-09	wind	-1.4 m/s	<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
		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

	date	26-Jun-09	wind	-2.2 m/s	<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
		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

2009 Japanese National Championships (Hiroshima, JPN)**FINAL**

	date	26-Jun-09	wind	1.9 m/s	<i>Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season</i>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Terada, Asuka (JPN) (1990)	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
		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
Ishino, Mami (JPN) (1983)	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
		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

Joshita, Rena (JPN) (1986)	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
	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

Semi-Final 2

date	25-Jun-09	wind	1.0 m/s	<i>Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kumagai, Fumiko (JPN) (1984)	time	2.50	3.60	4.67	5.72	6.77	7.82	8.89	9.96	11.05	12.15		13.50	6 / 2			
reaction time	interval		1.10	1.07	1.05	1.05	1.05	1.07	1.07	1.09	1.10	1.35	PB		3.22	3.17	3.26
	velocity	5.20	7.73	7.94	8.10	8.10	8.10	7.94	7.94	7.80	7.73	7.78	7.41		7.92	8.04	7.82

Heat 5

date	25-Jun-09	wind	1.5 m/s	<i>Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shimura, Hitomi (JPN) (1990)	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
	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
Kimura, Ayako (JPN) (1988)	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
	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

Heat 3

date	25-Jun-09	wind	0.0 m/s	<i>Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shiba, Risa (JPN) (1981)	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
	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

2009 ISTAF (Berlin, GER)**FINAL**

date	14-Jun-09	wind	-0.1 m/s	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Cherry, Damu (USA) (1977)	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
	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
Ennis-London, Delloreen (JAI)	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
	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
Golding-Clarke, Lacena (JAM)	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
	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
Nytra, Carolin (GER) (1985)	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
	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
Vukicevic, Christina (NOR) (19)	time	2.61	3.63	4.63	5.65	6.66	7.67	8.69	9.73	10.79	11.87		13.04	/ 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
	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
Lewis, Yvette (USA) (1985)	time	2.62	3.65	4.68	5.71	6.73	7.75	8.77	9.82	10.86	11.93		13.07	/ 6			
reaction time	0.172 interval		1.03	1.03	1.03	1.02	1.02	1.02	1.05	1.04	1.07	1.14			3.09	3.06	3.16
	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
Carruthers, Danielle (USA) (19)	time	2.59	3.63	4.64	5.64	6.65	7.67	8.69	9.73	10.81	11.90		13.11	/ 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
	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
Berings, Eline (BEL) (1986)	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
	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
O'Rourke, Derval (IRL) (1981)	time	2.63	3.70	4.72	5.75	6.77	7.81	8.86	9.91	10.99	12.09		13.21	/ 9			
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
	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

2009 Festival of Excellence (Toronto, CAN)**FINAL**

date	11-Jun-09	wind	-1.8 m/s	<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
	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

2009 Prefontaine Classic (Eugene, OR)**FINAL**

date	07-Jun-09	wind	1.0 m/s	<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>													
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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
Felicien, Perdita (CAN) (1980) 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
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

2009 adidas Track Classic (Carson, CA)**FINAL**

date 16-May-09 wind -1.1 m/s

Winckler (2009) - UK Athletics- National Coaching Conference

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980) 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
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

2009 University of Illinois Invitational (Champaign, IL)**FINAL**

date 02-May-09 wind 2.1 m/s

Winckler (2009) - UK Athletics- National Coaching Conference

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980) 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
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

2009 Mikio Oda Memorial (Hiroshima, JPN)**Heat 3**

date 29-Apr-09 wind 2.1 m/s

Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Akai, Suzuka (JPN) (1990) 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
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

2009 Drake Relays (Des Moines, IA)**FINAL**

date 25-Apr-09 wind 3.1 m/s

Winckler (2009) - UK Athletics- National Coaching Conference

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980) 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
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

2009 Kansas Relays (Lawrence, KS)**FINAL**

date 18-Apr-09 wind -0.2 m/s

Winckler (2009) - UK Athletics- National Coaching Conference

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980) 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
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

2008 Seiko Super Grand Prix (Kawasaki, JPN)**FINAL**

date 23-Sep-08 wind 0.1 m/s

Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Cherry, Damu (USA) (1977) 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
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
Davis, Candice (USA) (1985) time	2.57	3.62	4.63	5.63	6.63	7.66	8.69	9.72	10.77	11.84		13.13	/ 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
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
Fountain, Hyleas (USA) (1981) 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
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
Ishino, Mami (JPN) (1983) 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
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

2008 IAAF World Athletic Final (Stuttgart, GER)**FINAL**

date 13-Sep-08 wind 0.3 m/s

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

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Onyia, Josephine (ESP) (1986) time	2.55	3.59	4.58	5.54	6.50	7.47	8.45	9.44	10.43	11.46		12.54	6 / 4			
reaction time interval	0.154		1.04	0.99	0.96	0.96	0.97	0.98	0.99	0.99	1.03	1.08		DV		
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
Jones, Lolo (USA) (1982) time	2.58	3.60	4.58	5.56	6.53	7.50	8.48	9.47	10.46	11.48		12.56	4 / 2-1			
reaction time interval	0.128		1.02	0.98	0.98	0.97	0.98	0.99	0.99	1.02	1.08			2.98	2.92	3.00
velocity	5.04	8.33	8.67	8.67	8.76	8.76	8.67	8.59	8.59	8.33	9.72	7.96		8.56	8.73	8.50
Ennis-London, Delloreen (JAI) 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			
reaction time interval	0.148		1.01	1.00	0.99	0.96	0.97	0.98	0.96	0.99	1.00	1.11		3.00	2.91	2.95
velocity	5.02	8.42	8.50	8.59	8.85	8.76	8.67	8.85	8.59	8.50	9.46	7.96		8.50	8.76	8.64

Harper, Dawn (USA) (1984)	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
	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
Foster-Hylton, Brigitte (JAM)	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
	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
Lopes-Schliep, Priscilla (CAN)	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
	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
McLellan, Sally (AUS) (1986)	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
	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
Hayes, Joanna (USA) (1976)	time	2.68	3.75	4.78	5.80	6.82	7.82	8.81	9.84	10.84	11.92		13.06	2 / 8 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
	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

2008 Olympic Games (Beijing, CHN)

FINAL

date		19-Aug-08	wind	0.1 m/s	Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance												
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harper, Dawn (USA) (1984)	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	0.96	0.99	0.99	0.99	1.01	1.10	PB		2.96	2.94	2.99
	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
McLellan, Sally (AUS) (1986)	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
	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
Lopes-Schliep, Priscilla (CAN)	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
	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
Cherry, Damu (USA) (1977)	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
	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
Ennis-London, Delloreen (JAI)	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			
	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		2.96	2.97	3.01
	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		8.61	8.59	8.47
Foster-Hylton, Brigitte (JAM)	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
	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
Jones, Lolo (USA) (1982)	time	2.57	3.53	4.50	5.44	6.44	7.38	8.34	9.32	10.37	11.46		12.72	4 / 7			
	reaction time	0.185	interval	0.96	0.97	0.94	1.00	0.94	0.96	0.98	1.05	1.09	1.26		2.87	2.90	3.12
	velocity	5.06	8.85	8.76	9.04	8.50	9.04	8.85	8.67	8.10	7.80	8.33	7.86		8.89	8.79	8.17
Claxton, Sarah (GBR) (1979)	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
	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

date		18-Aug-08	wind	0.2 m/s	Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance												
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Cherry, Damu (USA) (1977)	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	1.02	1.08			2.96	2.97	3.02
	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
Harper, Dawn (USA) (1984)	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
	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
Foster-Hylton, Brigitte (JAM)	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
	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
Claxton, Sarah (GBR) (1979)	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
	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
Dixon, Vonette (JAM) (1975)	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
	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

Okori, Reina-Flor (FRA) (1980)	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
	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
Kallur, Susanna (SWE) (1981)		0.198	no information available										dnf	6 / --			
Tejeda, Anay (CUB) (1983)		0.156	no information available										dnf	9 / --			

Semi-Final 1date 18-Aug-08 wind 0.2 m/s *Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jones, Lolo (USA) (1982)	time	2.53	3.52	4.50	5.45	6.40	7.37	8.33	9.33	10.31	11.31		12.43	7 / 1			
	reaction time	0.172	interval	0.99	0.98	0.95	0.95	0.97	0.96	1.00	0.98	1.00	1.12		2.92	2.88	2.98
	velocity	5.14	8.59	8.67	8.95	8.95	8.76	8.85	8.50	8.67	8.50	9.38	8.05		8.73	8.85	8.56
Ennis-London, Delloreen (JAM)	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			
	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		2.99	2.91	3.05
	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		8.53	8.76	8.36
Lopes-Schliep, Priscilla (CAN)	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
	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
McLellan, Sally (AUS) (1986)	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			
	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
	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
Onyia, Josephine (ESP) (1986)	time	2.60	3.69	4.71	5.72	6.73	7.73	8.72	9.74	10.76	11.79		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		3.12	3.00	3.07
	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
Trywiańska-Kollasch, Aurelia	time	2.56	3.69	4.70	5.72	6.73	7.75	8.75	9.76	10.79	11.84		12.96	3 / 6			
	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
	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
Nytra, Carolin (GER) (1985)	time	2.60	3.63	4.66	5.67	6.68	7.70	8.73	9.75	10.79	11.87		12.99	2 / 7			
	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
	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
Yanit, Nevin (TUR) (1986)	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
	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

2008 USA Olympic Trials (Eugene, OR)**FINAL**date 06-Jul-08 wind 3.8 m/s *USATF Hurdle Development (2008)*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jones, Lolo (USA) (1982)	time	2.56	3.53	4.48	5.45	6.38	7.32	8.25	9.22	10.19	11.21		12.29	4 / 1			
	reaction time	interval	0.97	0.95	0.97	0.93	0.94	0.93	0.97	0.97	1.02	1.08			2.89	2.80	2.96
	velocity	5.08	8.76	8.95	8.76	9.14	9.04	9.14	8.76	8.76	8.33	9.72	8.14		8.82	9.11	8.61
Cherry, Damu (USA) (1977)	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
	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
Harper, Dawn (USA) (1984)	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
	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
Denby, Nichole (USA) (1982)	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
	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
Davis, Candice (USA) (1985)	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
	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
Crawford, Virginia (Ginnie) (U)	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
	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
Hayes, Joanna (USA) (1976)	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
	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

2008 Nambu Chuhei Memorial (Harodate, JPN)**FINAL**date 06-Jul-08 wind 1.8 m/s *Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles*

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

Ishino, Mami (JPN) (1983)	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
	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
Kumagai, Fumiko (JPN) (1984)	time	2.58	3.69	4.77	5.83	6.88	7.93	8.98	10.05	11.14	12.25		13.58	/ 3			
	reaction time	interval	1.11	1.08	1.06	1.05	1.05	1.05	1.07	1.09	1.11	1.33			3.25	3.15	3.27
	velocity	5.04	7.66	7.87	8.02	8.10	8.10	8.10	7.94	7.80	7.66	7.89	7.36		7.85	8.10	7.80

2008 Japanese National Championships (Kawasaki, JPN)

FINAL

	date	28-Jun-08	wind	-1.5 m/s	Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Terada, Asuka (JPN) (1990)	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
	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
Joshita, Rena (JPN) (1986)	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
	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
Ishino, Mami (JPN) (1983)	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
	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
Kumagai, Fumiko (JPN) (1984)	time		2.50	3.61	4.70	5.78	6.86	7.93	9.02	10.12	11.24	12.36		13.72	/ 4			
	reaction time	interval		1.11	1.09	1.08	1.08	1.07	1.09	1.10	1.12	1.12	1.36			3.28	3.24	3.34
	velocity	5.20	7.66	7.80	7.87	7.87	7.94	7.80	7.73	7.59	7.59	7.72	7.29			7.77	7.87	7.63

2008 ISTAF (Berlin, GER) (TV Analysis)

FINAL

	date	01-Jun-08	wind	0.8 m/s	Graubner (2008) - http://www.fgs.uni-halle.de														
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Onyia, Josephine (ESP) (1986)	time		2.58	3.60	4.58	5.55	6.51	7.48	8.46	9.43	10.41	11.42		12.50	/ 1				
	reaction time	0.178	interval		1.02	0.98	0.97	0.96	0.97	0.98	0.97	0.98	1.01	1.08			2.97	2.91	2.96
	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	
Kallur, Susanna (SWE) (1981)	time		2.58	3.57	4.55	5.52	6.49	7.46	8.42	9.40	10.41	11.44		12.54	/ 2				
	reaction time	0.203	interval		0.99	0.98	0.97	0.97	0.96	0.98	1.01	1.03	1.10			2.94	2.90	3.02	
	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	8.44	

2008 Mikio Oda Memorial (Hiroshima, JPN)

FINAL

	date	29-Apr-08	wind	-0.1 m/s	Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Imura, Kumiko (JPN) (1983)	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	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
	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
Terada, Asuka (JPN) (1990)	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
	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

B FINAL

	date	29-Apr-08	wind	-0.9 m/s	Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kawafune, Manami (JPN) (1981)	time		2.57	3.72	4.84	5.94	7.05	8.17	9.30	10.44	11.59	12.75		14.15	/ 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
	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

2008 BW-Bank (Karlsruhe, GER)

FINAL

	date	10-Feb-08											Blomkvist (2010) - www.sub13.se		
			H1	H2	H3	H4	H5				Run-In	Official Time	Lane / Place	H1-H4	
Kallur, Susanna (SWE) (1981)	time		2.42	3.40	4.36	5.32	6.26					7.68	/ 1		
	reaction time	interval		0.98	0.96	0.96	0.94				1.42	WR		2.90	
	velocity	5.37	8.67	8.85	8.85	9.04				9.15	7.81		8.79		

2007 Seiko Super Grand Prix (Yokohama, JPN)

FINAL

	date	30-Sep-07	wind	-0.8 m/s	Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLellan, Sally (AUS) (1986)	time		2.49	3.58	4.64	5.69	6.73	7.76	8.79	9.84	10.90	11.97		13.27	/ 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
	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
Imura, Kumiko (JPN) (1981)	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	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
	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

2007 IAAF World Athletic Final (Stuttgart, GER)

FINAL

	date	22-Sep-07	wind	-0.3 m/s	Graubner (2007) - http://www.fgs.uni-halle.de												
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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
Perry, Michelle (USA) (1979)	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	0.98	0.98	1.00	0.99	0.99	1.02	1.10			3.03	2.96	3.00
	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
Onya, Josephine (ESP) (1986)	time	2.57	3.62	4.62	5.60	6.60	7.58	8.56	9.57	10.59	11.62		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
	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
Ennis-London, Delloreen (JAI)	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			
	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		3.02	2.94	3.03
	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		8.44	8.67	8.42
Felicien, Perdita (CAN) (1980)	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
	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
Dixon, Vonette (JAM) (1975)	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
	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
Kallur, Susanna (SWE) (1981)		no information available											DQ	4 /			
Jones, Lolo (USA) (1982)		no information available											DQ	8 /			
McLellan, Saly (AUS) (1986)		no information available											DQ	1 /			

2007 ISTAF (Berlin, GER) (TV Analysis)**FINAL**

date 16-Sep-07 wind 0.9 m/s

Graubner (2008) - <http://www.fgs.uni-halle.de>

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kallur, Susanna (SWE) (1981)	time	2.51	3.51	4.49	5.46	6.42	7.37	8.33	9.32	10.33	11.35		12.49	3 / 1			
	reaction time	0.153	interval	1.00	0.98	0.97	0.96	0.96	0.99	1.01	1.02	1.14	PB		2.95	2.87	3.02
	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	8.44

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

2007 IAAF World Championships (Osaka, JPN)**FINAL**

date 29-Aug-07 wind -0.1 m/s

Graubner (2008) - <http://www.fgs.uni-halle.de> (TV Analysis)

Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Perry, Michelle (USA) (1979)	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
	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
Felicien, Perdita (CAN) (1980)	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
	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
Ennis-London, Delloreen (JAI)	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			
	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	2.96	2.89	2.98
	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		8.61	8.82	8.56
Kallur, Susanna (SWE) (1981)	time	2.54	3.53	4.50	5.48	6.43	7.40	8.36	9.34	10.34	11.38		12.51	5 / 4			
	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	PB	2.94	2.88	3.02
	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	8.44
Crawford, Virginia (Ginnie) (U)	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	0.98	0.98	1.02	1.16			2.97	2.89	2.98
	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
Jones, Lolo (USA) (1982)	0.140	no information available											12.62	2 / 6			
Dixon, Vonette (JAM) (1975)	0.161	no information available											PB	12.64	8 / 7		
Whyte, Angela (CAN) (1980)	0.138	no information available											12.66	7 / 8			

Semi-Final 2

date 28-Aug-07 wind -0.1 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Perry, Michelle (USA) (1979)	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	1.03	1.08			2.97	2.94	2.99
	velocity	5.06	8.50	8.50	8.76	8.67	8.67	8.67	8.67	8.67	8.25	9.72	7.97		8.59	8.67	8.53
Felicien, Perdita (CAN) (1980)	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
	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
Crawford, Virginia (Ginnie) (U)	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	1.00	1.02	1.12		2.98	2.93	3.02
	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 4

date 27-Aug-07

wind 0.4 m/s

Kawakami (2010) - improving women's 100m hurdle of japanese hurdler- analysis of race patterns based on touchdown times

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Berings, Eilene (BEL) (1986)	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	
		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
Ishino, Mami (JPN) (1983)	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					
		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

Heat 3

date	27-Aug-07	wind	-0.8 m/s	<i>Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
		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
Crawford, Virginia (Ginnie) (U)	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
		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

Heat 1

date	27-Aug-07	wind	0.2 m/s	<i>Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Perry, Michelle (USA) (1979)	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
		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

2007 Pan American Games (Rio de Janeiro, BRA)**FINAL**

date	25-Jul-07	wind	0.0 m/s	<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ennis, Delloreen (JAN)	0.152	no information available											CR	12.65	/ 1		
Felicien, Perdita (CAN) (1980)	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	0.150	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
		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
Whyte, Angela (CAN) (1980)	0.167	no information available												12.72	/ 3		
Dixon, Vonette (JAM) (1975)	0.201	no information available												12.86	/ 4		
Tejada, Anay (CUB) (1983)	0.218	no information available												12.95	/ 5		
Adams, Jenny (USA) (1978)	0.225	no information available												13.15	/ 6		
Faustin-Park, Nadine (HAI) (1985)	0.227	no information available												13.26	/ 7		
Lewis, Yvette (USA) (1985)	0.257	no information available												13.69	/ 8		

Heat 3

date	24-Jul-07	wind	0.2 m/s	<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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		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
		velocity	4.96	8.25	8.76	8.85	8.76	8.67	8.50	8.33	8.17	9.29	7.88		8.61	8.73	8.33

2007 Canadian National Championships (Windsor, CAN)**FINAL**

date	14-Jul-07	wind	4.3 m/s	<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
		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

2007 European Cup (Munich, GER)**FINAL**

date	24-Jun-07	wind	0.9 m/s	<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Snihur, Yevheniya (UKR) (1988)	time	2.60	3.64	4.66	5.66	6.66	7.67	8.68	9.69	10.72	11.77			12.92	/ 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
		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
Lamalle, Adrianna (FRA) (1988)	time	2.72	3.80	4.83	5.84	6.83	7.82	8.80	9.79	10.80	11.82			12.94	/ 2		
reaction time	0.169	interval	1.08	1.03	1.01	0.99	0.99	0.98	0.99	1.01	1.02	1.12			3.12	2.96	3.02
		velocity	4.78	7.87	8.25	8.42	8.59	8.59	8.67	8.59	8.42	8.33	9.38	7.73	8.17	8.61	8.44
Antonova, Aleksandra (RUS) (1988)	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	0.118	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
		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
Funck, Annette (GER) (1977)	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
		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
Redoúmi, Flóra (GRE) (1976)	time	2.72	3.76	4.78	5.81	6.81	7.83	8.84	9.87	10.92	11.98			13.15	/ 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
		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

Valadzko, Yauhenia (BLR) (1991)	time	2.76	3.80	4.83	5.84	6.85	7.88	8.89	9.93	10.99	12.09		13.25	/ 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
	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
Kocielnik, Joanna (POL) (1983)	time	2.78	3.84	4.90	5.96	7.00	8.02	9.06	10.10	11.16	12.24		13.35	/ 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
	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
Troppa, Claudia (ESP) (1985)	time	2.78	3.85	4.97	6.04	7.12	8.18	9.26	10.33	11.42	12.54		13.77	/ 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
	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

2007 USATF National Championship (Indianapolis, IN)**FINAL**date 23-Jun-07 wind -1.3 m/s *USATF Men's Hurdle Development (2007)*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Crawford, Virginia (Ginnie) (U)	time	2.59	3.57	4.57	5.56	6.55	7.53	8.51	9.51	10.50	11.53		12.63	/ 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
	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
Perry, Michelle (USA) (1979)	time	2.59	3.62	4.62	5.61	6.51	7.59	8.59	9.58	10.61	11.63		12.72	/ 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
	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
Jones, Lolo (USA) (1982)	time	2.64	3.62	4.62	5.61	6.59	7.59	8.59	9.59	10.59	11.64		12.79	/ 3			
reaction time	interval		0.98	1.00	0.99	0.98	1.00	1.00	1.00	1.00	1.05	1.15			2.97	2.98	3.05
	velocity	4.92	8.67	8.50	8.59	8.67	8.50	8.50	8.50	8.50	8.10	9.13	7.82		8.59	8.56	8.36
Denby, Nichole (USA) (1982)	time	2.64	3.67	4.70	5.69	6.71	7.72	8.73	9.74	10.76	11.80		12.82	/ 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
	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
Cherry, Damu (USA) (1977)	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
	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
Adams, Jenny (USA) (1978)	time	2.67	3.69	4.70	5.69	6.71	7.70	8.73	9.73	10.76	11.81		12.96	/ 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
	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
Carruthers, Danielle (USA) (1991)	time	2.64	3.69	4.70	5.71	6.74	7.76	8.79	9.81	10.83	11.86		12.98	/ 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
	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
Harper, Dawn (USA) (1984)	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
	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

2007 Osaka Grand Prix (Osaka, JPN)**FINAL**date 05-May-07 wind 0.0 m/s *Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Carruthers, Danielle (USA) (1991)	time	2.48	3.55	4.58	5.58	6.58	7.58	8.58	9.59	10.62	11.65		12.90	/ 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
	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
Trywianska, Aurelia (POL) (1991)	time	2.52	3.57	4.59	5.59	6.59	7.60	8.60	9.62	10.64	11.68		12.93	/ 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
	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
Imura, Kumiko (JPN) (1981)	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	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
	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

2007 Mikio Oda Memorial (Hiroshima, JPN)**FINAL**date 29-Apr-07 wind 1.4 m/s *Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Trywianska, Aurelia (POL) (1991)	time	2.47	3.51	4.52	5.51	6.49	7.48	8.48	9.49	10.53	11.57		12.83	/ 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
	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
Imura, Kumiko (JPN) (1981)	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	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
	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

2006 IAAF World Athletic Final (Stuttgart, GER) (TV Analysis)**FINAL**date 10-Sep-06 wind 0.6 m/s *Graubner (2008) - http://www.fgs.uni-halle.de*

		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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Perry, Michelle (USA) (1979)	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													2.96	2.91	2.99
	interval		1.00	0.99	0.97	0.96	0.98	0.97	0.97	1.00	1.02	1.08					
	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
Cherry, Damu (USA) (1977)	0.159	no information available											12.56	3 / 2			
Felicien, Perdita (CAN) (1980)	0.136	no information available											12.58	8 / 3			
Kallur, Susanna (SWE) (1981)	0.134	no information available											12.59	4 / 4			
Foster-Hylton, Brigitte (JAM)	0.118	no information available											12.66	5 / 5			
Jones, Lolo (USA) (1982)	0.140	no information available											12.76	1 / 6			
Carruthers, Danielle (USA) (19)	0.133	no information available											12.89	2 / 7			
Bolm, Kirsten (GER) (1975)	0.145	no information available											13.37	7 / 8			

2006 European Championships (Göteborg, SWE) (TV Analysis)

FINAL

date 11-Aug-06 wind 0.5 m/s Graubner (2008) - <http://www.fgs.uni-halle.de>

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kallur, Susanna (SWE) (1981)	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													2.97	2.89	3.01
	interval		1.01	0.99	0.97	0.95	0.96	0.98	0.98	1.00	1.03	1.15					
	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
O'Rourke, Derval (IRL) (1981)		no information available											NR	12.72	/ 2		
Bolm, Kirsten (GER) (1975)		no information available												12.72	/ 3		
Alozie, Glory (ESP) (1977)		no information available												12.86	/ 4		
Trywianska, Aurelia (POL) (1976)		no information available												12.90	/ 5		
Antonova, Aleksandra (RUS) (1980)		no information available												12.93	/ 6		
Kallur, Jenny (SWE) (1981)		no information available												12.94	/ 7		
Lamalle, Adrianna (FRA) (1982)		no information available												12.99	/ 8		

2006 Canadian National Championships (Ottawa, CAN)

FINAL

date 05-Aug-06 wind 0.7 m/s Winckler (2009) - UK Athletics- National Coaching Conference

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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														3.02	2.92	3.00
	interval		1.05	0.97	1.00	0.93	1.05	0.94	0.97	1.01	1.02	1.10					
	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

2006 DLV Gala (Nurnberg, GER)

FINAL

date 30-Jul-06 wind 0.5 m/s Graubner (2008) - <http://www.fgs.uni-halle.de>

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Perry, Michelle (USA) (1979)	time	2.61	3.63	4.63	5.61	6.59	7.57	8.56	9.54	10.51	11.53		12.59	/ 1			
	reaction time	0.133													3.00	2.95	2.97
	interval		1.02	1.00	0.98	0.98	0.98	0.99	0.98	0.97	1.02	1.06					
	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
Jones, Lolo (USA) (1982)	time	2.61	3.59	4.56	5.54	6.51	7.48	8.46	9.45	10.47	11.51		12.59	/ 2			
	reaction time	0.157													2.93	2.92	3.05
	interval		0.98	0.97	0.98	0.97	0.97	0.98	0.99	1.02	1.04	1.08					
	velocity	4.98	8.67	8.76	8.67	8.76	8.76	8.67	8.59	8.33	8.17	9.72	7.94		8.70	8.73	8.36

2006 Japanese National Championships (Kobe, JPN)

FINAL

date 01-Jul-06 wind 0.3 m/s Akirabun (2007) - speed analysis of the 100m and hurdles with a laser system

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ishino, Mami (JPN) (1983)	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														3.15	3.10	3.22
	interval		1.07	1.04	1.04	1.03	1.02	1.05	1.07	1.07	1.08	1.31					
	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

2006 USATF National Championship (Indianapolis, IN)

FINAL

date 24-Jun-06 wind -0.4 m/s USATF Women's Hurdle Development (2006)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Crawford, Virginia (Ginnie) (U)	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														2.93	2.91	3.08
	interval		1.00	0.98	0.95	0.97	0.93	1.01	0.99	1.01	1.08	1.17					
	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
Cherry, Damu (USA) (1977)	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														3.01	2.95	3.00
	interval		1.04	0.98	0.99	0.96	0.95	1.04	0.98	1.04	0.98	1.08					
	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
Perry, Michelle (USA) (1979)	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														2.97	2.96	3.04
	interval		1.05	0.99	0.93	1.00	0.99	0.97	1.00	1.01	1.03	1.10					
	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
Adams, Jenny (USA) (1978)	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														3.01	2.93	3.07
	interval		1.04	0.98	0.99	0.96	0.99	0.98	1.00	1.02	1.05	1.14					
	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
Jones, Lolo (USA) (1982)	time	2.67	3.62	4.64	5.61	6.59	7.61	8.59	9.54	10.59	11.61		12.76	2 / 5			
	reaction time														2.94	2.98	3.02
	interval		0.95	1.02	0.97	0.98	1.02	0.98	0.95	1.05	1.02	1.15					
	velocity	4.87	8.95	8.33	8.76	8.67	8.33	8.67	8.95	8.10	8.33	9.13	7.84		8.67	8.56	8.44

Kirkland, Anjanette (USA) (19	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
	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
Harper, Dawn (USA) (1984)	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
	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
Foster, Ebony (USA) (1983)	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
	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

2006 Mikio Oda Memorial (Hiroshima, JPN)

FINAL

date	29-Apr-06	wind	1.9 m/s	Akirabun (2007) - speed analysis of the 100m and hurdles with a laser system															
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Imura, Kumiko (JPN) (1981)	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	
	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	

Heat 1

date	29-Apr-06	wind	0.2 m/s	Akirabun (2007) - speed analysis of the 100m and hurdles with a laser system															
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Bliss, Andrea (JAM) (1980)	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	
	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	

2005 IAAF World Championships (Helsinki, FIN)

FINAL

date	11-Aug-05	wind	-2.0 m/s																
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Perry, Michelle (USA) (1979)	0.149	no information available											12.66		3 / 1				
Ennis-London, Delloreen (JA)	0.138	no information available											12.76		6 / 2				
Foster-Hylton, Brigitte (JAM)	0.140	no information available											12.76		4 / 3				
Bolm, Kirsten (GER) (1975)	0.158	no information available											12.82		1 / 4				
Koroteyeva, Mariya (RUS) (19	0.148	no information available											12.93		2 / 5				
Kallur, Jenny (SWE) (1981)	0.174	no information available											12.95		8 / 6				
Shevchenko, Irina (RUS) (1975)	0.148	no information available											12.97		7 / 7				
Hayes, Joanna (USA) (1976)	0.140	no information available											13.57		5 / 8				

2005 USATF National Junior Championship (Carson, CA)

FINAL

date	23-Jun-05	wind	-0.7 m/s	USATF Women's Sprint Development (2005)															
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Robinson, Kira (USA) (1987)	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	
	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	
Stewart, Talia (USA) (1986)	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	
	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	
James, Tiki (USA) (1986)	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	
	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	
McGrew, Ashleigh (USA) (198	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	
	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	
Gilchrist, Danielle (USA) (1988	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	
	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	
Broom, Kimyon (USA) (1988)	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	
	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	
Woods, Shana (USA) (1988)	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	
	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	
Richardson, Ke'Nyia (USA) (1	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	
	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	
Purvis, Julian (USA) (1990)	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	
	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	

2004 Busan International Athletics Meeting (Busan, KOR)

FINAL

		date	24-Sep-04	wind	Lee (2007) - the kinematic analysis of horizontal velocity and records from start to finish on elite women 100m hurdler															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lee Yeon-Kyoung (KOR) (198)	time				2.74	3.83	4.90	5.94	7.01	8.05	9.10	10.17	11.24	12.32		13.47	/ 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
		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

2004 Olympic Games (Athens, GRE)

FINAL

		date	24-Aug-04	wind	Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hayes, Joanna (USA) (1976)	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
			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
Krasovska, Olena (UKR) (1976)	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
			velocity		5.10	8.50	8.50	8.85	8.76	8.85	8.85	8.67	8.67	8.59	9.63	8.03		8.61	8.79	8.64
Morrison-Howard, Melissa (USA) (1976)	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
			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
Koroteyeva, Mariya (RUS) (1976)	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	0.195	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
			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
Golding-Clark, Lacena (JAM) (1976)	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
			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
Whyte, Angela (CAN) (1980)	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
			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
Shevchenko, Irina (RUS) (1975)	0.155		no information available													dnf	6 / --			
Felicien, Perdita (CAN) (1980)	0.167		no information available													dnf	5 / --			

Semi-Final 2

		date	23-Aug-04	wind	Liagone (2007) - Historique: Le 110m haies en chiffres															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Okori, Reina-Flor (FRA) (1980)	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
			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

Semi-Final 1

		date	23-Aug-04	wind	Winckler (2009) - UK Athletics- National Coaching Conference															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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		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
			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

2004 Weltklasse (Zurich, SUI)

FINAL

		date	06-Aug-04	wind	Winckler (2009) - UK Athletics- National Coaching Conference															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
			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

2004 Canadian National Championships (Victoria, CAN)

FINAL

		date	10-Jul-04	wind	Winckler (2009) - UK Athletics- National Coaching Conference															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
			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

		date	09-Jul-04	wind	Winckler (2009) - UK Athletics- National Coaching Conference															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
			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

2004 Prefontaine Classic (Eugene, OR)

FINAL

		date	19-Jun-04	wind	Graubner (2008) - http://www.fgs.uni-halle.de															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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
			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

2004 Modesto Relays (Modesto, CA)**FINAL**

		date	08-May-04	wind	1.2 m/s												<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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				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
	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

2003 IAAF World Championships (Paris, FRA)**FINAL**

		date	27-Aug-03	wind	-0.2 m/s												<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Felicien, Perdita (CAN) (1980)	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			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
	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
Foster-Hylton, Brigitte (JAM)	0.158														12.57	5 / 2			
McKelvy-Jones, Miesha (USA)	0.146														12.67	3 / 3			
Alozie, Glory (ESP) (1977)	0.160														12.75	1 / 4			
Trywanska-Kollasch, Aurelia (0.150														12.75	7 / 5			
Adams, Jenny (USA) (1978)	0.161														12.77	6 / 6			
Girard, Patricia (FRA) (1968)	0.152														12.83	8 / 7			
Golding-Clarke, Lacena (JAM)	0.151														12.87	2 / 8			
Dixon, Vonette (JAM) (1975)	0.172														12.87	9 / 9			

2003 USATF National Junior Championships (Palo Alto, CA)**FINAL**

		date	22-Jun-03	wind	2.3 m/s												<i>USATF Women's Sprint Development (2003)</i>		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harper, Dawn (USA) (1984)	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				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
	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
Sherman, Alandra (USA) (198)	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				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
	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
Lodree, Ashley (USA) (1985)	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				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
	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
James, Tiki (USA) (1986)	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				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
	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
Stewart, Talia (USA) (1986)	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				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
	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
DuPree, Ryanne (USA) (1984)	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				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
	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
Davis, Candice (USA) (1985)	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				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
	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
Jimoh, Fummilayo (USA) (198	time			2.65	3.79	4.94	6.06	7.12	8.22	9.37	10.49	11.65	12.85		14.23	1 / 8			
	reaction time				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
	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
Brown, Ashlee (USA) (1985)	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				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
	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

2003 USATF National Championship (Palo Alto, CA)**FINAL**

		date	22-Jun-03	wind	-0.1 m/s												<i>USATF Women's Sprint Development (2003)</i>		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Devers, Gail (USA) (1966)	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				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
	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
McKelvy-Jones, Miesha (USA)	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				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
	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
Adams, Jenny (USA) (1978)	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				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

	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
Morrison, Melissa (USA) (1971)	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
	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
Cherry, Damu (USA) (1977)	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
	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
Carruthers, Danielle (USA) (1976)	time	2.50	3.57	4.57	5.59	6.57	7.57	8.56	9.56	10.59	11.63		12.84	2 / 6-5			
	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
	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
McCray, Yolana (USA) (1976)	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
	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
Perry, Michelle (USA) (1979)	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
	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

2002 IAAF World Cup (Madrid, ESP)

FINAL

date 21-Sep-02

wind 1.5 m/s

Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Devers, Gail (USA) (1966)	time	2.49	3.49	4.46	5.42	6.38	7.38	8.39	9.38	10.40	11.45		12.65	4 / 1			
	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
	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
Foster-Hylton, Brigitte (JAM)	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	1.01	1.04	1.06	1.22			3.00	3.00	3.11
	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
Alozie, Glory (ESP) (1977)	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	1.02	1.03	1.04	1.28			3.04	3.03	3.09
	velocity	5.18	8.42	8.33	8.42	8.42	8.42	8.42	8.33	8.25	8.17	8.20	7.72		8.39	8.42	8.25
Krasovska, Olena (UKR) (1976)	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
	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
Rakotozafy, Rosa (MAD) (1977)	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
	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
Laukhova, Svetlana (RUS) (1976)	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
	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
Bolm, Kirsten (GER) (1975)	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
	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
Munro, Jacquie (AUS) (1981)	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
	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
Kanazawa, Yvonne (JPN) (1977)	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	3.16	3.31
	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	8.07	7.70

2002 European Championships (Munich, GER)

FINAL

date 09-Aug-02

wind -0.7 m/s

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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Alozie, Glory (ESP) (1977)	time	2.62	3.68	4.68	5.67	6.66	7.64	8.64	9.65	10.66	11.65		12.73	1 / 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
	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
Krasovska, Olena (UKR) (1976)	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
	velocity	4.96	8.17	8.33	8.50	8.50	8.67	8.33	8.33	8.33	8.10	9.46	7.76		8.33	8.50	8.25
Kasova, Yana (BUL) (1981)	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
	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

Girard, Patricia (FRA) (1968)	time	2.62	3.66	4.68	5.70	6.70	7.72	8.74	9.78	10.84	11.90		13.03	/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
	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
Aron, Haydy (FRA) (1973)	time	2.72	3.74	4.76	5.76	6.76	7.76	8.76	9.80	10.84	11.92		13.05	/5			
	reaction time	0.203	interval	1.02	1.02	1.00	1.00	1.00	1.04	1.04	1.08	1.13		3.04	3.00	3.16	
	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
Allahgreen, Diane (GBR) (1971)	time	2.58	3.62	4.66	5.68	6.70	7.73	8.75	9.79	10.86	11.94		13.05	/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
	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
Kallur, Susanna (SWE) (1981)	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
	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
Dimitrova, Svetla (BUL) (1970)	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	
	velocity	4.81	7.87	8.50	8.50	8.33	8.67	7.20					7.27		8.28	8.02	

Semi-Final 2

	date	09-Aug-02	wind	0.6 m/s	Graubner (2009) - http://www.fgs.uni-halle.de															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Alozie, Glory (ESP) (1977)	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			
	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			
Aron, Haydy (FRA) (1973)	time	2.61	3.66	4.67	5.67	6.66	7.65	8.65	9.67	10.69	11.76		12.93	/2						
	reaction time	0.153	interval	1.05	1.01	1.00	0.99	0.99	1.00	1.02	1.02	1.07	PB		3.06	2.98	3.11			
	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			

Semi-Final 1

	date	09-Aug-02	wind	0.0 m/s	Graubner (2009) - http://www.fgs.uni-halle.de															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Girard, Patricia (FRA) (1968)	time	2.59	3.63	4.66	5.64	6.63	7.64	8.64	9.64	10.67	11.72		12.82	/1						
	reaction time	0.139	interval	1.04	1.03	0.98	0.99	1.01	1.00	1.03	1.05	1.10		3.05	3.00	3.08				
	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			
Krasovska, Olena (UKR) (1976)	time	2.64	3.70	4.72	5.72	6.72	7.70	8.70	9.72	10.76	11.80		12.88	/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			
	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 5

	date	08-Aug-02	wind	1.1 m/s	Graubner (2009) - http://www.fgs.uni-halle.de															
					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)	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			
	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			
Ferga, Linda (FRA) (1976)	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			
	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			

Heat 4

	date	08-Aug-02	wind	0.3 m/s	Graubner (2009) - http://www.fgs.uni-halle.de															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Aron, Haydy (FRA) (1973)	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			
	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			
Krasovska, Olena (UKR) (1976)	time	2.70	3.76	4.78	5.80	6.80	7.81	8.82	9.84	10.86	11.91		13.04	/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			
	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			
Lenskiy, Irina (ISR) (1971)	time	2.70	3.73	4.76	5.76	6.77	7.78	8.80	9.83	10.85	11.91		13.04	/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			
	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			

Heat 3

	date	08-Aug-02	wind	-0.3 m/s	Graubner (2009) - http://www.fgs.uni-halle.de															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Laukhova, Svetlana (RUS) (1976)	time	2.64	3.68	4.70	5.72	6.72	7.75	8.76	9.79	10.82	11.91		13.02	/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			
	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			
Kasova, Yana (BUL) (1981)	time	2.73	3.74	4.78	5.79	6.80	7.82	8.83	9.85	10.89	11.94		13.07	/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			
	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			

Heat 2

	date	08-Aug-02	wind	0.0 m/s	Graubner (2009) - http://www.fgs.uni-halle.de															
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Kallur, Susanna (SWE) (1981)	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		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
	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
Alozie, Glory (ESP) (1977)	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		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
	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

Heat 1

date 08-Aug-02 wind 0.5 m/s Graubner (2009) - <http://www.fgs.uni-halle.de>

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Girard, Patricia (FRA) (1968)	time	2.64	3.67	4.69	5.71	6.73	7.74	8.77	9.79	10.83	11.87		13.00	/ 1			
	reaction time	0.149		1.03	1.02	1.02	1.01	1.03	1.02	1.04	1.04	1.13			3.07	3.06	3.10
	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

2002 German National Indoor Championships (Sindelfingen, GER)

FINAL

date 16-Feb-02 Hücklekemkes (2002) - explosive starten vielfältig erlernen

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4
Bolm, Kirsten (GER) (1975)	time	2.64	3.66	4.68	5.69	6.68		7.97	/ 1	
	reaction time	0.129		1.02	1.02	1.01	0.99			3.05
	velocity	4.92	8.33	8.33	8.42	8.59	1.29	PB		8.36
							10.08	7.53		
Hentschke, Nadine (GER) (198)	time	2.62	3.68	4.70	5.73	6.75		8.09	/ 2	
	reaction time	0.161		1.06	1.02	1.03	1.02			3.11
	velocity	4.96	8.02	8.33	8.25	8.33	1.34			8.20
							9.70	7.42		
Rehwagen, Corinna (GER) (19)	time	2.66	3.73	4.78	5.82	6.88		8.22	/ 3	
	reaction time	0.149		1.07	1.05	1.04	1.06			3.16
	velocity	4.89	7.94	8.10	8.17	8.02	1.34			8.07
							9.70	7.30		
Braun, Sabine (GER) (1965)	time	2.68	3.74	4.80	5.84	6.88		8.29	/ 4	
	reaction time	0.167		1.06	1.06	1.04	1.04			3.16
	velocity	4.85	8.02	8.02	8.17	8.17	1.41			8.07
							9.22	7.24		
Komoll, Jennifer (GER) (1980)	time	2.64	3.76	4.78	5.82	6.89		8.33	/ 5	
	reaction time	0.119		1.12	1.02	1.04	1.07			3.18
	velocity	4.92	7.59	8.33	8.17	7.94	1.44			8.02
							9.03	7.20		
Thimm, Annette (GER) (1977)	time	2.78	3.88	4.94	5.98	7.04		8.41	/ 6	
	reaction time	0.199		1.10	1.06	1.04	1.06			3.20
	velocity	4.68	7.73	8.02	8.17	8.02	1.37			7.97
							9.49	7.13		

2001 Chinese National Games (Beijing, CHN)

FINAL

date 18-Nov-01 wind 2.2 m/s Huang (2003) - research on the technique of women's 100m hurdles in th 9th national games

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Su Yiping (CHN) (1979)	time	2.62	3.66	4.65	5.63	6.59	7.57	8.55	9.54	10.56	11.59		12.70	/ 1			Xu (2007)
	reaction time			1.04	0.99	0.98	0.96	0.98	0.99	1.02	1.03	1.11			3.01	2.92	3.04
	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
Zeng Xiaoling (CHN) (1980)	time	2.60	3.64	4.66	5.68	6.68	7.69	8.71	9.73	10.75	11.79		12.91	/ 3			Huang (2003)
	reaction time			1.04	1.02	1.02	1.00	1.01	1.02	1.02	1.04	1.12			3.08	3.03	3.08
	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

2001 IAAF World Championships (Edmonton, CAN)

FINAL

date 11-Aug-01 wind 2.0 m/s Winckler (2009) - UK Athletics- National Coaching Conference

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kirkland, Anjanette (USA) (19)	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		1.00	1.00	0.96	0.96	0.96	0.93	0.96	0.96	1.00	1.09		2.96	2.85	2.92
	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
Devers, Gail (USA) (1966)	0.136												12.54	6 / 2			
Shishigina, Olga (KAZ) (1968)	0.137												12.58	8 / 3			
Dimitrova, Svetla (BUL) (1970)	0.153												12.58	3 / 4			
Adams, Jenny (USA) (1978)	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		1.00	0.96	0.96	0.96	0.96	0.96	1.06	1.03	1.15			2.92	2.88	3.05
	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
Rose-Henley, Dionne (JAM) (0.131												12.79	2 / 6			
Ferga, Linda (FRA) (1976)	0.196												12.80	5 / 7			
Dixon, Vonette (JAM) (1975)	0.140												13.02	7 / 8			

Semi-Final 2

date 10-Aug-01 wind -0.3 m/s Winckler (2009) - UK Athletics- National Coaching Conference

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Devers, Gail (USA) (1966)	time	2.60	3.60	4.56	5.52	6.52	7.52	8.52	9.52	10.52	11.55		12.56	6 / 1			
	reaction time	0.134		1.00	0.96	0.96	1.00	1.00	1.00	1.00	1.03	1.01			2.92	3.00	3.03
	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

2001 European Cup (Bremen, GER)**FINAL**

		date	24-Jun-01		wind 0.6 m/s										Graubner (2007) - http://www.fgs.uni-halle.de				
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Korotyá, Irina (RUS) (1975)	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	0.150		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
	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
Ferga, Linda (FRA) (1976)	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		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
	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
Bolm, Kirsten (GER) (1975)	time		2.71	3.77	4.81	5.83	6.85	7.86	8.88	9.92	10.95	12.03		13.15	/ 3				
	reaction time	0.113		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
	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
Allahgreen, Diane (GBR) (1977)	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		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
	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
Macchiut, Margaret (ITA) (1977)	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		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
	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
Miklós, Éva (ROU) (1978)	time		2.73	3.82	4.87	5.92	6.98	8.04	9.09	10.14	11.24	12.33		13.53	/ 6				
	reaction time	0.161		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
	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
Škrobáková, Lucie (CZE) (1987)	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		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
	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
Likhuta, Yauhenia (BLR) (1987)	time		2.72	3.79	4.90	5.98	7.03	8.16	9.28										
	reaction time	0.151		1.07	1.11	1.08	1.05	1.13	1.12						DQ			3.26	3.30
	velocity		4.78	7.94	7.66	7.87	8.10	7.52	7.59									7.82	7.73

2000 Olympic Games (Sydney, AUS)**FINAL**

		date	27-Sep-00		wind 0.0 m/s										ATHLETICSHIRS.ORG				
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Shishigina, Olga (KAZ) (1968)	0.237		no information available										12.65	7 / 1					
			no information available										12.68	3 / 2					
Alozie, Glory (NGR) (1977)	0.217		no information available										12.76	6 / 3					
			no information available										12.80	8 / 4					
Morrison, Melissa (USA) (1971)	0.180		no information available										12.83	1 / 5					
			no information available										12.91	4 / 6					
Ennis-London, Delloreen (JAI)	0.156		no information available										13.11	2 / 7					
			no information available										13.49	3 / 8					
López, Aliuska (CUB) (1969)	0.179		no information available																
			no information available																
Ramalalanirina, Nicole (FRA) (1977)	0.194		no information available																
			no information available																
Ferga, Linda (FRA) (1976)	0.294		no information available																
			no information available																
Foster, Brigitte (JAM) (1974)	0.217		no information available																
			no information available																

2000 ISTAF (Berlin, GER)**FINAL**

		date	01-Sep-00		wind -0.2 m/s										Graubner (2009) - http://www.fgs.uni-halle.de				
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Alozie, Glory (NGR) (1977)	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		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
	velocity		5.04	8.17	8.50	8.59	8.50	8.59	8.50	8.50	8.50	8.67	8.67	9.55	7.90		8.42	8.53	8.61
Morrison, Melissa (USA) (1971)	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		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
	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
Shishigina, Olga (KZK) (1968)	time		2.62	3.64	4.64	5.63	6.62	7.62	8.61	9.62	10.62	11.65		12.74	/ 3				
	reaction time	0.169		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
	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
Ennis-London, Delloreen (JAI)	time		2.60	3.64	4.66	5.66	6.65	7.66	8.66	9.66	10.70	11.74		12.88	/ 4				
	reaction time	0.170		1.04	1.02	1.00	0.99	1.01	1.00	1.00	1.04	1.04	1.14				3.06	3.00	3.08
	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			8.33	8.50	8.28
Kirkland, Anjanette (USA) (1974)			no information available										12.97	/ 5					
			no information available										13.04	/ 6					
Ovcharova-Krasovska, Olena (UKR) (1976)			no information available										13.23	/ 7					
			no information available																
Manning, Valerie (USA) (1968)			no information available																
			no information available																
			no information available																
Sprenger, Juliane (GER) (1977)	time		2.66	3.72	4.76	5.80	6.83	7.88	8.93					13.39	/ 8				
	reaction time	0.166		1.06	1.04	1.04	1.03	1.05	1.05								3.14	3.13	
	velocity		4.89	8.02	8.17	8.17	8.25	8.10	8.10					7.47			8.12	8.15	

1999 IAAF World Championships (Sevilla, ESP)

FINAL

		date	28-Aug-99		wind		0.7 m/s		Sanchez (1999) - Sevilla '99: análisis de la carreras con villas									
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Devers, Gail (USA) (1966)	time		2.50	3.49	4.46	5.44	6.42	7.38	8.34	9.32	10.30	11.29		12.37	3 / 1			
	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
	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
Alozie, Glory (NGR) (1977)	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
	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
Engquist, Ludmila (SWE) (196)	time		2.58	3.59	4.57	5.55	6.51	7.45	8.42	9.40	10.38	11.39		12.47	5 / 3			
	reaction time	0.132	interval	1.01	0.98	0.98	0.96	0.94	0.97	0.98	0.98	1.01	1.08	NR		2.97	2.87	2.97
	velocity		5.04	8.42	8.67	8.67	8.85	9.04	8.76	8.67	8.67	8.42	9.72	8.02		8.59	8.89	8.59
Shishigina, Olga (KZK) (1968)	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
	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
Dimitrova, Svetla (BUL) (1970)	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
	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
Rose, Dionne (JAM) (1969)	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
	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
Ennis-London, Delloreen (JAM)	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			
	reaction time	0.148	interval	1.01	0.99	0.99	1.00	0.99	1.02	1.02	1.04	1.08	1.19			2.99	3.01	3.14
	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		8.53	8.47	8.12
Girard, Patricia (FRA) (1968)	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
	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 2

		date	27-Aug-99		wind		1.0 m/s		Sanchez (1999) - Sevilla '99: análisis de la carreras con villas									
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Devers, Gail (USA) (1966)	time		2.55	3.56	4.56	5.53	6.51	7.49	8.48	9.48	10.49	11.52		12.70	3 / 1			
	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
	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
Shishigina, Olga (KZK) (1968)	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
	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
Rose, Dionne (JAM) (1969)	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
	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
Dimitrova, Svetla (BUL) (1970)	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
	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
López, Aliuska (CUB) (1969)	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
	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
Koroty, Irina (RUS) (1975)	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	0.148	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
	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
Ramalalanirina, Nicole (FRA) (1969)	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
	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
Kulawansa-Fonseka, Sriyani (SRI)	time		2.57	3.61	4.64	5.64	6.65	7.65	8.67	9.69	10.72	11.77		12.98	7 / 8			
	reaction time	0.142	interval	1.04	1.03	1.00	1.01	1.00	1.02	1.02	1.03	1.05	1.21			3.07	3.03	3.10
	velocity		5.06	8.17	8.25	8.50	8.42	8.50	8.33	8.33	8.25	8.10	8.68	7.70		8.31	8.42	8.23

Semi-Final 1

		date	27-Aug-99		wind		1.9 m/s		Sanchez (1999) - Sevilla '99: análisis de la carreras con villas									
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Engquist, Ludmila (SWE) (196)	time		2.53	3.53	4.51	5.48	6.45	7.39	8.34	9.32	10.29	11.30		12.50	4 / 1			
	reaction time	0.135	interval	1.00	0.98	0.97	0.97	0.94	0.95	0.98	0.97	1.01	1.20			2.95	2.86	2.96
	velocity		5.14	8.50	8.67	8.76	8.76	9.04	8.95	8.67	8.76	8.42	8.75	8.00		8.64	8.92	8.61
Alozie, Glory (NGR) (1977)	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

	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	
Girard, Patricia (FRA) (1968)	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	
	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	
Ennis-London, Delloreen (JAI)	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				
	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		2.99	3.02	3.05	
	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		8.53	8.44	8.36	
Roberts, Trecia (THA) (1971)	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
	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	
Laukhova, Svetlana (RUS) (19)	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	
	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	
Graudyn, Yuliya (RUS) (1970)	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	
	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	
Feng Yun (CHN) (1976)	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	
	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	
Quarter-Final 4	date	26-Aug-99	wind	0.7 m/s											<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Engquist, Ludmila (SWE) (196)	time	2.57	3.57	4.57	5.54	6.50	7.47	8.44	9.43	10.44	11.45		12.65	3 / 1				
	reaction time	0.136	interval	1.00	1.00	0.97	0.96	0.97	0.97	0.99	1.01	1.01	1.20			2.97	2.90	3.01
	velocity	5.06	8.50	8.50	8.76	8.85	8.76	8.76	8.59	8.42	8.42	8.75	7.91			8.59	8.79	8.47
Quarter-Final 3	date	26-Aug-99	wind	-0.6 m/s											<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Devers, Gail (USA) (1966)	time	2.51	3.51	4.50	5.47	6.46	7.42	8.40	9.39	10.38	11.40		12.53	4 / 1				
	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
	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
Quarter-Final 2	date	26-Aug-99	wind	0.2 m/s											<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Alozie, Glory (NGR) (1977)	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
	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 6	date	26-Aug-99	wind	3.2 m/s											<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Engquist, Ludmila (SWE) (196)	time	2.59	3.60	4.60	5.57	6.56	7.54	8.51	9.50	10.50	11.53		12.62	4 / 1				
	reaction time	0.137	interval	1.01	1.00	0.97	0.99	0.98	0.97	0.99	1.00	1.03	1.09			2.98	2.94	3.02
	velocity	5.02	8.42	8.50	8.76	8.59	8.67	8.76	8.59	8.50	8.25	9.63	7.92			8.56	8.67	8.44
Heat 4	date	26-Aug-99	wind	1.1 m/s											<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Alozie, Glory (NGR) (1977)	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
	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
Heat 2	date	26-Aug-99	wind	-0.1 m/s											<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Devers, Gail (USA) (1966)	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
	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
1998 USATF National Championship (New Orleans, LA)																		
Heat 1	date	20-Jun-98	wind	2.3 m/s											<i>Mann (1998) - usatf elite sprint & hurdle summit</i>			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Morrison, Melissa (USA) (71)	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
	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
1998 European Championships (Budapest, HUN)																		
FINAL	date	23-Aug-98	wind	1.5 m/s											<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>			
			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)	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
	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

Bukovec, Brigita (SLO) (1970)	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
	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
Korotya, Irina (RUS) (1975)	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
	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
Ramalalalirina, Nicole (FRA) (*)	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
	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
Girard, Patricia (FRA) (1968)	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
	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
Blaßneck, Heike (GER) (1971)	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
	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
Baumann, Julie (SUI) (1964)	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
	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
Ferga, Linda (FRA) (1976)	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
	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

1998 Spanish National Championships (San Sebastián, ESP)

FINAL

date 01-Aug-98 wind 0.0 m/s Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mardomingo, Maria Jose (ESP)	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
	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
Azcárate, Nerea (ESP) (1974)	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
	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
Ingelmo, Sandra (ESP) (1978)	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
	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
Rodríguez, Jessica (ESP) (1971)	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
	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
Fraguas, Raquel (ESP) (1976)	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
	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
Clopes, Imma (ESP) (1968)	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
	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
Siles, Isabel (ESP) (1973)	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
	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

1997 IAAF World Championships (Athens, GRE)

FINAL

date 10-Aug-97 wind -0.3 m/s Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Engquist, Ludmila (SWE) (1961)	time	2.56	3.56	4.56	5.54	6.48	7.46	8.41	9.38	10.36	11.36		12.50	5 / 1			
reaction time 0.126	interval		1.00	1.00	0.98	0.94	0.98	0.95	0.97	0.98	1.00	1.14			2.98	2.87	2.95
	velocity	5.08	8.50	8.50	8.67	9.04	8.67	8.95	8.76	8.67	8.50	9.21	8.00		8.56	8.89	8.64
Dimitrova, Svetla (BUL) (1970)	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
	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
Freeman, Michelle (JAM) (1966)	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
	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
Bukovec, Brigita (SLO) (1970)	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
		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
Rose, Dionne (JAM) (1969)	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
		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
Anderson, Katie (CAN) (1968)	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
		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
Laukhova, Svetlana (RUS) (19)	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
		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
Girard, Patricia (FRA) (1968)			no information available										DQ	6 /			

1997 European Cup (Munich, GER)**FINAL**date 22-Jun-97 wind 0.7 m/s Jung (2003) - <http://www.fgs.uni-halle.de>

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Laukhova, Svetlana (RUS) (19)	time	2.65	3.69	4.68	5.69	6.68	7.69	8.69	9.71	10.74	11.81		12.94	/ 1			
reaction time	interval		1.04	0.99	1.01	0.99	1.01	1.00	1.02	1.03	1.07	1.13	PB		3.04	3.00	3.12
	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
Girard, Patricia (FRA) (1968)	time	2.65	3.68	4.69	5.70	6.71	7.71	8.74	9.76	10.79	11.86		13.03	/ 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
	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
Thorp, Angela (GBR) (1972)	time	2.69	3.76	4.76	5.79	6.81	7.87	8.89	9.92	10.95	12.03		13.16	/ 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
	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
Tuzzi, Carla (ITA) (1967)	time	2.68	3.76	4.80	5.81	6.84	7.84	8.87	9.95	11.00	12.10		13.23	/ 4			
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
	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
Kuchma, Oksana (UKR) (1973)	time	2.69	3.78	4.84	5.87	6.91	7.96	9.01	10.06	11.15	12.25		13.43	/ 5			
reaction time	interval		1.09	1.06	1.03	1.04	1.05	1.05	1.05	1.09	1.10	1.18			3.18	3.14	3.24
	velocity	4.83	7.80	8.02	8.25	8.17	8.10	8.10	8.10	7.80	7.73	8.90	7.45		8.02	8.12	7.87
Nastase, Liliana (ROU) (1962)	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
	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
Voronkova, Nelli (BLR) (1972)	time	2.79	3.94	4.99	6.10	7.17	8.26	9.35	10.47	11.59	12.73		13.90	/ 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
	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
Blaßneck, Heike (GER) (1971)	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	1.65	1.56	1.41			3.04	3.06	4.26
	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

1997 Southeastern Conference Championships (Auburn, AL)**FINAL**

date 18-May-97 wind 1.4 m/s Shaver (2002) - Hurdle training design

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Walker, Astia (JAM) (1975)	time	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.4	10.4	11.4		12.82	/ 1			
reaction time	interval		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	PB		3.01	2.95	2.92
	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

1996 Olympic Games (Atlanta, GA)**FINAL**

date 31-Jul-96 wind 0.2 m/s Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Engquist, Ludmila (SWE) (196)	time	2.48	3.54	4.50	5.48	6.44	7.41	8.40	9.39	10.37	11.39		12.58	6 / 1			
reaction time	0.132	interval	1.06	0.96	0.98	0.96	0.97	0.99	0.99	0.98	1.02	1.19			3.00	2.92	2.99
		velocity	5.24	8.02	8.85	8.67	8.85	8.76	8.59	8.59	8.67	8.33	8.82	7.95	8.50	8.73	8.53
Bukovec, Brigita (SLO) (1970)	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
		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
Girard-Leno, Patricia (FRA) (1)	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
		velocity	5.51	8.17	8.59	8.50	8.59	8.50	8.67	8.10	8.17	8.68	7.91		8.42	8.56	8.31
Devers, Gail (USA) (1966)	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

	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
Rose, Dionne (JAM) (1969)	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	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
	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
Freeman, Michelle (JAM) (1966)	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	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
	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
Shekhodanova, Nataliya (RUS)	time	2.45	3.50	4.48	5.45	6.43	7.44	8.46	9.47	10.51	11.51		12.80	1 / -			
	reaction time	0.160	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
	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
Tolbert-Goode, Lynda (USA)	time	2.43	3.50	4.52	5.52	6.55	7.58	8.62	9.65	10.72	11.80		13.11	7 / - 7			
	reaction time	0.175	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
	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

1996 USATF National Junior Championships (Delaware, OH)

FINAL

date 29-Jun-96 wind -2.5 m/s USATF Women's Sprint Development (1996)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Calloway, Dominqué (USA) (1977)	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		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
	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
Bates, Joyce (USA) (1977)	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		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
	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
Merriman, Donica (USA) (1979)	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		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
	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
Adams, Jenny (USA) (1978)	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		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
	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
Williams, Camee (USA) (1980)	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		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
	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
Bethel, Ashley (USA) (1980)	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		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
	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
Williams, Michelle (USA) (1978)	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		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
	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
Kamani, Nzingah (USA) (1978)	time	2.67	3.80	4.98									dnf	1 / --			
	reaction time		1.13	1.18													
	velocity	4.87	7.52	7.20													

1996 ??? (Lisboa, POR)

FINAL

date 29-Jun-96 wind 3.0 m/s Coh (1998) - a biomechanical model of the 100m hurdles of birgita bukovec

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bukovec, Brigita (SLO) (1970)	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		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
	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

1996 USA Olympic Trials (Atlanta, GA)

FINAL

date 23-Jun-96 wind 0.6 m/s USATF Women's Sprint Development (1996)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Devers, Gail (USA) (1966)	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	0.153	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
	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
Tolbert-Goode, Lynda (USA)	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	0.119	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
	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
Dickey, Cheryl (USA) (1966)	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		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
	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
Bowles, Dawn (USA) (1968)	time	2.34	3.41	4.44	5.44	6.44	7.43	8.46	9.46	10.46	11.48		12.93	3 / 4			

reaction time	interval	1.07	1.03	1.00	1.00	0.99	1.03	1.00	1.00	1.02	1.45			3.10	3.02	3.02	
	velocity	5.56	7.94	8.25	8.50	8.50	8.59	8.25	8.50	8.50	8.33	7.24	7.73	8.23	8.44	8.44	
Lawson, Tonya (USA) (1969)	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
	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
Stanley-Boutte, Tananjaly (U	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
	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
Carson, Kim (USA) (1974)	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
	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
Morrison, Melissa (USA) (1971)	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
	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

1996 German National Championships (Köln, GER)**Semi-Final 1**

date	23-Jun-96	wind	???											<i>Hommel (2007) - Sprinttechnik beobachten und analysieren! P.71</i>			????
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jung, Caren (GER) (1968)	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
	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

1995 IAAF World Championships (Göteborg, SWE)**FINAL**

date	06-Aug-95	wind	0.2 m/s														
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Devers, Gail (USA) (1966)	0.162	no information available											12.68	5 / 1			
Shishigina, Olga (KAZ) (1968)	0.141	no information available											12.80	4 / 2			
Graudyn, Yuliya (RUS) (1970)	0.185	no information available											12.85	8 / 3			
Reshetnikova, Tatyana (RUS)	0.194	no information available											12.87	2 / 4			
Baumann, Julie (SUI) (1964)	0.137	no information available											12.95	7 / 5			
Russell, Gillian (JAM) (1973)	0.167	no information available											12.96	6 / 6			
Rose, Dionne (JAM) (1969)	0.152	no information available											12.98	1 / 7			
Bukovec, Brigita (SLO) (1970)	0.180	no information available											13.02	3 / 8			

1995 Postojna, SLO**FINAL**

date	08-Jul-95	wind	???											<i>Coh (1996) - three-dimensional kinematic analysis of the hurdles technique used by brigita bukovec</i>			
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bukovec, Brigita (SLO) (1970)	time	2.60	3.64	4.66	5.66	6.65	7.63	8.61	9.60	10.62	11.65		12.75	/ 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
	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

1993 Chinese National Games (Beijing, CHN)**FINAL**

date	09-Sep-93	wind	0.1 m/s											<i>Bo (1996) - a study on female 100m hurdles running rhythm in the 7th national games</i>			
		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)	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
	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
Xie Liuying (CHN) (1967)	time	2.55	3.57	4.57	5.55	6.53	7.53	8.55	9.57	10.60	11.65		12.75	/ 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	3.10
	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	8.23
Zhou Hongyan (CHN) (1970)	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
	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
Pang Jiewen (CHN) (1967)	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
	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
Luo Bin (CHN) (1970)	time	2.51	3.53	4.53	5.49	6.47	7.45	8.47	9.51	10.57	11.77		13.13	/ 5			
reaction time	interval		1.02	1.00	0.96	0.98	0.98	1.02	1.04	1.06	1.20	1.36			2.98	2.98	3.30
	velocity	5.18	8.33	8.50	8.85	8.67	8.67	8.33	8.17	8.02	7.08	7.72	7.62		8.56	8.56	7.73
Zhou Jing (CHN) (1973)	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
	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
Sun Xue (CHN)	time	2.69	3.75	4.79	5.83	6.87	7.91	8.95	9.99	11.05	12.13		13.28	/ 7			
reaction time	interval		1.06	1.04	1.04	1.04	1.04	1.04	1.04	1.06	1.08	1.15			3.14	3.12	3.18
	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

1993 IAAF World Championships (Stuttgart, GER)**FINAL**

date 20-Aug-93 wind 0.2 m/s

Graubner (2008) - <http://www.fgs.uni-halle.de>

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Devers, Gail (USA) (1966)	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
	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	
Azyabina, Marina (RUS) (1963)	0.157	no information available											12.60	4 / 2				
Tolber-Goode, Lynda (USA) (1967)	0.118	no information available											12.67	5 / 3				
Lopez, Aliuska (CUB) (1969)	0.187	no information available											12.73	1 / 4				
Sokolova, Eva (RUS) (1962)	0.163	no information available											12.78	6 / 5				
Bowles, Dawn (USA) (1968)	0.217	no information available											12.90	8 / 6				
Freeman, Michelle (JAM) (1965)	0.188	no information available											12.90	7 / 7				
Cinelu, Cecile (FRA) (1970)	0.190	no information available											12.95	2 / 8				

1993 European Junior Championships (San Sebastian, ESP)**FINAL**

date 01-Aug-93 wind 1.3 m/s

Hücklekmekes (1997) - *geschwindigkeitstabellen vereinfachen die auswertung von hürdensprints*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fust, Katja (GER) (1974)	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
	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

date 31-Jul-93 wind 0.4 m/s

Hücklekmekes (1997) - *geschwindigkeitstabellen vereinfachen die auswertung von hürdensprints*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fust, Katja (GER) (1974)	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
	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

1992 Olympic Games (Barcelona, ESP)**FINAL**

date 06-Aug-92 wind 0.4 m/s

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Patoulidou, Voula (GRE) (1965)		no information available											NR	12.64	5 / 1			
Martin, LaVonna (USA) (1966)		no information available												12.69	4 / 2			
Donkova, Yordanka (BUL) (1961)		no information available												12.70	6 / 3			
Tolbert-Goode, Lynda (USA) (1967)		no information available												12.75	3 / 4			
Devers-Roberts, Gail (USA) (1966)		no information available												12.75	2 / 5			
Lopez, Aliuska (CUB) (1969)		no information available												12.87	7 / 6			
Kolovanova, Natalya (EUN) (1964)		no information available												13.01	8 / 7			
Adams, Odalys (CUB) (1966)		no information available												13.57	1 / 8			

Quarter-Final 3

date 05-Aug-92 wind -0.7 m/s

Lyle - *miscellaneous coaching notes*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Devers-Roberts, Gail (USA) (1966)	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
	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

Quarter-Final 2

date 05-Aug-92 wind 1.4 m/s

Lyle - *miscellaneous coaching notes*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tolbert-Goode, Lynda (USA) (1967)	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
	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

Quarter-Final 1

date 05-Aug-92 wind -1.5 m/s

Lyle - *miscellaneous coaching notes*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Martin, LaVonna (USA) (1966)	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
	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 5

date 05-Aug-92 wind -0.7 m/s

Lyle - *miscellaneous coaching notes*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tolbert-Goode, Lynda (USA) (1967)	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
	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

Heat 4

date 05-Aug-92 wind 0.0 m/s

Lyle - *miscellaneous coaching notes*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Martin, LaVonna (USA) (1966)	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
	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

Heat 3

date 05-Aug-92 wind -0.4 m/s

Lyle - *miscellaneous coaching notes*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Donkova, Yordanka (BUL) (1961)	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
	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

Heat 2

date 05-Aug-92 wind 0.0 m/s

Lyle - miscellaneous coaching notes

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Devers-Roberts, Gail (USA) (1) 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
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

Heat 1

date 05-Aug-92 wind -1.5 m/s

Lyle - miscellaneous coaching notes

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Engquist-Narozhilenko, Ludm time	2.56	3.60	4.61	5.60	6.58	7.58	8.60	9.64	10.71	11.84		13.04	1 / 1			
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
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

1991 IAAF World Championships (Tokyo, JPN)

FINAL

date 30-Aug-91 wind -1.7 m/s

Numazawa (1991) - analysis of time in the 3rd world athletics championships, women's 100m hurdles

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Engquist-Narozhilenko, Ludm 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
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
Devers, Gail (USA) (1966) 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
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
Grigoryeva, Natalya (URS) (19) 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
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
Éwanjé-Épée, Monique (FRA) 0.150												12.84	3 / 4			
Baumann, Julie (SUI) (1964) 0.152												12.88	2 / 5			
Colle, Florence (FRA) (1965) 0.165												13.01	1 / 6			
López, Aliuska (CUB) (1969) 0.168												13.06	8 / 7			
Patzwahl, Kristin (GER) (1965) 0.155												13.07	7 / 8			

Heat 5

date 29-Aug-91 wind 0.5 m/s

Numazawa (1991) - analysis of time in the 3rd world athletics championships, women's 100m hurdles

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Sasaki, Ayumi (JPN) (1967) 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
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

1991 USSR National Championships (Kiev, URS)

FINAL

date 11-Jul-91 wind 1.8 m/s

Stepanov (2004) - speed and (or?) technique: gail devers and others (in Jarver (ed) - the hurdles, 2004)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Narozhilenko, Ludmila (URS) time	2.58	3.57	4.54	5.50	6.44	7.38	8.33	9.30	10.28	11.28		12.28	1 / 1			
reaction time interval		0.99	0.97	0.96	0.94	0.94	0.95	0.97	0.98	1.00	1.00	PB		2.92	2.83	2.95
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

1991 European Cup (Frankfurt, GER)

FINAL

date 30-Jun-91 wind -2.1 m/s

Federle (2003) - <http://www.fgs.uni-halle.de>

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Narozhilenko, Lyudmila (URS) time	2.63	3.64	4.63	5.61	6.59	7.55	8.53	9.51	10.49	11.48		12.55	1 / 1			
reaction time interval		1.01	0.99	0.98	0.98	0.96	0.98	0.98	0.98	0.99	1.07			2.98	2.92	2.95
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
Ewanjé-Épée, Monique (FRA) time	2.59	3.64	4.64	5.64	6.64	7.63	8.63	9.62	10.62	11.64		12.79	1 / 2			
reaction time interval		1.05	1.00	1.00	1.00	0.99	1.00	0.99	1.00	1.02	1.15			3.05	2.99	3.01
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		8.36	8.53	8.47
Patzwahl, Kristin (GER) (1965) time	2.62	3.65	4.67	5.69	6.70	7.72	8.74	9.78	10.83	11.90		13.10	1 / 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
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
Pogacian, Mihaela (ROU) (195) time	2.66	3.74	4.77	5.79	6.81	7.83	8.85	9.87	10.90	11.94		13.18	1 / 4			
reaction time interval		1.08	1.03	1.02	1.02	1.02	1.02	1.02	1.03	1.04	1.24			3.13	3.06	3.09
velocity	4.89	7.87	8.25	8.33	8.33	8.33	8.33	8.33	8.25	8.17	8.47	7.59		8.15	8.33	8.25
Skeete, Lesley-Ann (GBR) (19) 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
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
Włodarczyk, Urszula (POL) (1965)												13.66	1 / 6			
Bálint, Zita (HUN) (1971)												14.12	1 / 7			
Stoyanova, Yordanka (BUL) (1956)												17.79	1 / 8			

1989 IAAF World Cup (Barcelona, ESP)

FINAL

date 09-Sep-89		wind -0.3 m/s										Gill (1990) - atletismo (I) carreras y marcha					
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Oschkenat, Cornelia (GDR) (1)	time	2.55	3.59	4.58	5.56	6.52	7.50	8.51	9.50	10.51	11.53		12.60	/ 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
	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
Narozhilenko, Ludmila (URS)	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
	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
Tolbert, Lynda (USA) (1967)	time	2.57	3.61	4.62	5.64	6.64	7.65	8.68	9.69	10.72	11.77		12.86	/ 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
	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
Adams, Odalys (CUB) (1966)	time	no information available										12.86	/ 4				
Zackiewicz, Claudia (FRG) (1962)	time	no information available										12.96	/ 5				
Liu Huajin (CHN) (1960)	time	no information available										13.43	/ 6				
Mardomingo, María José (ESP)	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
	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
Azzizi, Yasmina (ALG) (1966)	time	no information available										13.99	/ 8				
Pirovano, Helen (NZL)	time	no information available										14.91	/ 9				

1988 Olympic Games (Seoul, KOR)

FINAL

date 30-Sep-88		wind 0.2 m/s										Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988					
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Donkova, Yordanka (BUL) (19)	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	OR		2.96	2.88	2.94
	velocity	5.12	8.42	8.76	8.67	8.85	8.85	8.85	8.85	8.85	8.76	8.42	9.91	8.08		8.61	8.85
Siebert, Gloria (GDR) (1964)	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
	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
Zackiewicz, Claudia (FRG) (1)	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	0.166 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
	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
Grigoryeva, Natalya (URS) (19)	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
	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
Colle, Florence (FRA) (1965)	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
	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
Rocheleau-Baumann, Julie (C)	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
	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
Ewanjé-Epée, Monique (FRA)	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			
	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			3.23	3.06	3.08
	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		7.89	8.33	8.28
Oschkenat, Cornelia (GDR) (1)	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
	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

Semi-Final 2

date 29-Sep-88		wind 0.4 m/s										Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988					
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Oschkenat, Cornelia (GDR) (1)	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
	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
Zackiewicz, Claudia (FRG) (1)	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	0.147 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
	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
Grigoryeva, Natalya (URS) (19)	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
	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
Ewanjé-Epée, Monique (FRA)	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			
	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			3.08	3.00	3.09

	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
Olyslager, Marjan (NED) (1962)	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	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
	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
Gunnell, Sally (GBR) (1966)	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	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
	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
Humphrey, Jacqueline (USA)	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	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
	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
Narozhilenko, Lyudmila (EUN)	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	1.04	1.00	0.99	0.97	0.98	0.98	1.00	1.00					3.03	2.93	
	velocity	4.87	8.17	8.50	8.59	8.76	8.67	8.67	8.50	8.50					8.42	8.70	

Semi-Final 1date 29-Sep-88 wind 0.5 m/s *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Donkova, Yordanka (BUL) (19)	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	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
	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
Siebert, Gloria (GDR) (1964)	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	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
	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
Rocheleau-Baumann, Julie (C)	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	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
	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
Colle, Florence (FRA) (1965)	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	1.04	1.06	1.02	1.00	1.00	1.00	1.01	1.03	1.03	1.08			3.12	3.00	3.07
	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
Knabe, Kerstin (GDR) (1959)	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	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
	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
Skeete, Lesley-Ann (GBR) (19)	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	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
	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
Martin, LaVonna (USA) (1966)	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	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
	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
Devers-Roberts, Gail (USA) (1)	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	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
	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

1988 (Stara Zagova, BUL)**FINAL**date 20-Aug-88 wind 0.7 m/s *Vazel (2016) - Analysis of Keni Harrison's World Record 100m Hurdles Race*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Donkova, Yordanka (BUL) (19)	time	2.50	3.49	4.42	5.34	6.24	7.19	8.16	9.14	10.11	11.14		12.21	/ 1			
	reaction time		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
	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

1987 Chinese National Games (Guangzhou, CHN)**FINAL**date 25-Nov-87 wind ?? *Xia (1990) - analysis of Liu Huajin's technical features in breaking the Asian 100m hurdles record*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Liu Huajin (CHN) (1960)	time	2.55	3.62	4.58	5.58	6.62	7.66	8.68	9.71	10.73	11.77		12.89	/ 1			
	reaction time		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
	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

Semi-Final 2date 25-Nov-87 wind -0.3 m/s *Xia (1990) - analysis of Liu Huajin's technical features in breaking the Asian 100m hurdles record*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Du Juan (CHN) (1968)	time	2.57	3.57	4.62	5.66	6.70	7.72	8.76	9.80	10.85	11.97		13.17	/ 2			
	reaction time		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
	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

1987 IAAF World Championships (Rome, ITA)**FINAL**date 04-Sep-87 wind -0.5 m/s *Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zagorcheva, Ginka (BUL) (195)	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	
	velocity	5.18	8.42	8.76	8.76	8.67	8.76	8.76	8.85	8.76	8.76	8.10	8.64	8.73	8.79	
Uibel-Siebert, Gloria (GDR) (1!	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
	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
Riefstahl-Oschkenat, Cornelia	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
	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
Donkova, Yordanka (RUL) (1961)													12.49	3 / 4		
Piquereau, Anne (FRA) (1964)													12.82	1 / 5		
Elloy-Machabey, Laurence (FRA) (1959)													12.83	8 / 6		
Zaczekiewicz, Claudia (FRG) (1962)													12.98	2 / 7		
Martin, LaVonna (USA) (1966)													13.06	7 / 8		

Semi-Final 2date 04-Sep-87 wind -0.9 m/s *Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Uibel-Siebert, Gloria (GDR) (1!	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
	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
Zagorcheva, Ginka (BUL) (195	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
	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

Semi-Final 1date 04-Sep-87 wind -0.2 m/s *Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics*

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

Heat 4date 03-Sep-87 wind -1.6 m/s *Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Uibel-Siebert, Gloria (GDR) (1!	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
	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

Heat 3date 03-Sep-87 wind -0.8 m/s *Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Riefstahl-Oschkenat, Cornelia	time	2.62	3.66	4.66	5.63	6.62	7.62	8.61	9.62	10.62	11.66		12.83	/ 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
	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

Heat 1date 03-Sep-87 wind -1.0 m/s *Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zagorcheva, Ginka (BUL) (195	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
	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

1987 Greece vs. Bulgaria vs. USSR (Drama, GRE)**FINAL**date 08-Aug-87 wind 1.4 m/s *Bondarchuk (2007) - transfer of training in sports*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zagorcheva, Ginka (BUL) (195	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
	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

1987 West German National Championships (Gelsenkirchen, FRG)**FINAL**date 11-Jul-87 wind -0.2 m/s *Hucklekemkes (1997) - velocity in the women's 100m sprint hurdles (in Jarver (ed) - the hurdles, 1997)*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zaczekiewicz, Claudia (FRG) (1!	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
	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

1987 European Cup (Prague, TCH)**FINAL**date 28-Jun-87 wind -0.9 m/s *Sušanka (1987) - hints on computer processing of biomechanical data*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Riefstahl-Oschkenat, Cornelia	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
	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
Donkova, Yordanka (RUL) (19	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
	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

Zaczekiewicz, Claudia (FRG) (1964)	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
	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
Grigoryeva, Natalya (URS) (1964)	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
	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
Piquereau, Anne (FRA) (1964)	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
	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
Tebichova, Milena (TCH) (1962)	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
	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
Skeete, Lesley-Ann (GBR) (1964)	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
	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
Latos, Barbara (POL) (1965)	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
	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

1987 GDR vs. USSR (Karl-Marx-Stadt, GDR)**FINAL**

date 21-Jun-87 wind 1.6 m/s

Breiser (1990) - the road to success- skill analysis of leading women hurdlers

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

1986 Balkan Games (Ljubljana, YUG)**FINAL**

date 07-Sep-86 wind 1.5 m/s

Čoh (1987) Analiza svetovnega rekorda teka na 100m z ovirami Jordanke Donkove

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Donkova, Yordanka (BUL) (1969)	time	2.43	3.43	4.39	5.36	6.31	7.26	8.22	9.19	10.16	11.17		12.26	/ 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
	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

1986 West German National Junior Championships (Krefeld, FRG)**FINAL**

date 26-Jul-86 wind 1.3 m/s

Hucklekemkes (1997) - velocity in the women's 100m sprint hurdles (in Jarver (ed) - the hurdles, 1997)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wolf, Birgit (FRG) (1969)	time	2.70	3.82	4.90	5.98	7.06	8.12	9.20	10.28	11.38	12.50		13.70	/ 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
	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

1986 IAAF World Junor Championships (Athens, GRE)**FINAL**

date 19-Jul-86 wind -0.7 m/s

Miskos (1986) - IAAF biomechanical research - Athens 1986 - hurdle races

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tillack, Heike (GDR) (1968)	time	2.68	3.74	4.76	5.77	6.79	7.78	8.80	9.79	10.86	11.93		13.10	/ 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
	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
López, Aliuska (CUB) (1969)	time	2.65	3.70	4.72	5.74	6.78	7.81	8.85	9.87	10.90	11.95		13.14	/ 2			
reaction time	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
	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
Davis, Tanya (USA) (1968)	time	2.58	3.67	4.68	5.73	6.78	7.83	8.86	10.00	11.13	12.26		13.46	/ 3			
reaction time	interval		1.09	1.01	1.05	1.05	1.05	1.03	1.14	1.13	1.13	1.20			3.15	3.13	3.40
	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
Wolf, Birgit (FRG) (1969)													13.52	/ 4			
Bellutti, Antonella (ITA) (1968)													13.62	/ 5			
Birzu, Lenuta (ROM)													13.96	/ 6			
Wang Shu-Hwa (TPE) (1969)													14.03	/ 7			
Zep, Malgorzata (POL)													14.35	/ 8			

1986 East German National Championships (Jena, GDR)**FINAL**

date 27-Jun-86 wind 1.4 m/s

Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Riefstahl-Oschkenat, Cornelia	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
	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
Theele, Heike (GDR) (1964)	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	
	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
Knabe, Kerstin (GDR) (1959)	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
	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
Paetz, Sabine (GDR) (1957)	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
	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

1986 French National Indoor Championship (Lievin, FRA)**FINAL**

date 26-Jan-86

Aubert (1986) - indoor - video - haies, etude des performances

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4
Piquereau, Anne (FRA) (1964)	time	2.61	3.66	4.67	5.68	6.67		8.00	/ 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
Elloy, Laurence (FRA) (1959)	time	2.65	3.73	4.76	5.77	6.77		8.12	/ 2	
reaction time	interval		1.08	1.03	1.01	1.00	1.35			3.12
	velocity	4.91	7.87	8.25	8.42	8.50	9.63	7.39		8.17
Ewanjé-Epée, Monique (FRA)	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
Kaftandjan, Isabelle (FRA) (19	time	2.66	3.72	4.78	5.81	6.84		8.24	/ 4	
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
Chardonnet, Michèle (FRA) (1	time	2.67	3.75	4.80	5.84	6.86		8.26	/ 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
Sallaz, Christine (FRA) (1961)	time	2.70	3.82	4.90	5.93	6.99		8.34	/ 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

date 25-Jan-86

Aubert (1986) - indoor - video - haies, etude des performances

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4
Piquereau, Anne (FRA) (1964)	time	2.67	3.74	4.76	5.76	6.78		8.13	/ 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
Elloy, Laurence (FRA) (1959)	time	2.68	3.76	4.78	5.78	6.79		8.15	/ 2	
reaction time	interval		1.08	1.02	1.00	1.01	1.36			3.10
	velocity	4.85	7.87	8.33	8.50	8.42	9.56	7.36		8.23
Ewanjé-Epée, Monique (FRA)	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
Kaftandjan, Isabelle (FRA) (19	time	2.69	3.76	4.83	5.85	6.90		8.30	/ 1	
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
Chardonnet, Michèle (FRA) (1	time	2.71	3.78	4.84	5.90	6.92		8.42	/ 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
Sallaz, Christine (FRA) (1961)	time	2.71	3.80	4.84	5.87	6.90		8.28	/ 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
Grimont, Corinne (FRA) (1963)	time	2.82	3.87	4.93	5.97	6.99		8.51	/ 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
Sena, Françoise (FRA)	time	2.74	3.83	4.91	5.94	6.98		8.40	/ 5	
reaction time	interval		1.09	1.08	1.03	1.04	1.42			3.20
	velocity	4.74	7.80	7.87	8.25	8.17	9.15	7.14		7.97
Truwant, Véronique (FRA) (19	time	2.67	3.78	4.88	5.93	7.01		8.46	/ 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

date 25-Jan-86

Aubert (1986) - indoor - video - haies, etude des performances

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4
Piquereau, Anne (FRA) (1964)	time	2.60	3.68	4.73	5.75	6.79		8.23	/1	
	reaction time		interval	1.08	1.05	1.02	1.04	1.44		3.15
	velocity	5.00	7.87	8.10	8.33	8.17	9.03	7.29		8.10
Elloy, Laurence (FRA) (1959)	time	2.63	3.70	4.75	5.76	6.80		8.27	/2	
	reaction time		interval	1.07	1.05	1.01	1.04	1.47		3.13
	velocity	4.94	7.94	8.10	8.42	8.17	8.84	7.26		8.15
Ewanjé-Épée, Monique (FRA)	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
Kaftandjan, Isabelle (FRA) (19	time	2.68	3.77	4.78	5.83	6.87		8.30	/1	
	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
Chardonnet, Michèle (FRA) (1	time	2.69	3.78	4.86	5.92	6.96		8.42	/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
Sallaz, Christine (FRA) (1961)	time	2.66	3.75	4.84	5.91	6.95		8.36	/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
Grimont, Corinne (FRA) (1963)	time	2.73	3.80	4.88	5.92	6.98		8.38	/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
Sena, Françoise (FRA)	time	2.71	3.81	4.88	5.92	6.98		8.42	/5	
	reaction time		interval	1.10	1.07	1.04	1.06	1.44		3.21
	velocity	4.80	7.73	7.94	8.17	8.02	9.03	7.13		7.94
Truwant, Véronique (FRA) (19	time	2.74	3.85	4.93	5.98	7.07		8.51	/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

1985 European Junior Championships (Cottbus, GDR)

FINAL

date 23-Aug-85 wind 2.0 m/s

Warburton (1985) - 1985 european junior championships - hurdles

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Skeete, Lesley-Anne (GBR) (1	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
	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 2

date 23-Aug-85 wind 1.3 m/s

Warburton (1985) - 1985 european junior championships - hurdles

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Maynard, Sonia (GBR) (1967)	time	2.58	3.70	4.85	5.89	7.00	8.20	9.30	10.55	11.64	12.77		14.40	/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
	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

Semi-Final 1

date 23-Aug-85 wind 1.5 m/s

Warburton (1985) - 1985 european junior championships - hurdles

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Skeete, Lesley-Anne (GBR) (1	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
	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 2

date 23-Aug-85 wind 0.6 m/s

Warburton (1985) - 1985 european junior championships - hurdles

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Maynard, Sonia (GBR) (1967)	time	2.58	3.70	4.74	5.81	6.88	7.93	9.09	10.15	11.28	12.37		13.86	/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
	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

Heat 1

date 23-Aug-85 wind 0.6 m/s

Warburton (1985) - 1985 european junior championships - hurdles

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Skeete, Lesley-Anne (GBR) (1	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
	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

1985 BNP Meeting d'Athlétisme (Paris, FRA)

FINAL

date 13-Jul-85 wind 2.0 m/s

Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Elloy, Laurence (FRA) (1959)	time	2.53	3.54	4.52	5.54	6.52	7.48	8.53	9.52	10.51	11.56		12.90	/1			
	reaction time		interval	1.01	0.98	1.02	0.98	0.96	1.05	0.99	0.99	1.05	1.34		3.01	2.99	3.03
	velocity	5.14	8.42	8.67	8.33	8.67	8.85	8.10	8.59	8.59	8.10	7.84	7.75		8.47	8.53	8.42

1985 Marseille, FRA

FINAL

		date	19-Jun-85	wind	0.9 m/s	<i>Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes</i>													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Elloy, Laurence (FRA) (1959)	time			2.51	3.56	4.56	5.55	6.46	7.45	8.40	9.42	10.45	11.53		12.89	/ 1			
	reaction time	interval			1.05	1.00	0.99	0.91	0.99	0.95	1.02	1.03	1.08	1.36			3.04	2.85	3.13
	velocity				5.18	8.10	8.50	8.59	9.34	8.59	8.95	8.33	8.25	7.87	7.72	7.76		8.39	8.95

1985 Internationales Sportfest (Fürth, FRG)

FINAL

		date	17-Jun-85	wind	2.8 m/s	<i>Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes</i>														
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Elloy, Laurence (FRA) (1959)	time			2.43	3.51	4.43	5.41	6.38	7.33	8.29	9.20	10.27	11.30		12.72	/ 2				
	reaction time	interval				1.08	0.92	0.98	0.97	0.95	0.96	0.91	1.07	1.03	1.42			2.98	2.88	3.01
	velocity					5.35	7.87	9.24	8.67	8.76	8.95	8.85	9.34	7.94	8.25	7.39	7.86		8.56	8.85

Heat 2

		date	17-Jun-85	wind	2.0 m/s	<i>Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes</i>														
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Elloy, Laurence (FRA) (1959)	time			2.55	3.56	4.54	5.52	6.52	7.51	8.46	9.46	10.46	11.40		12.87	/ 2				
	reaction time	interval				1.01	0.98	0.98	1.00	0.99	0.95	1.00	1.00	0.94	1.47			2.97	2.94	2.94
	velocity					5.10	8.42	8.67	8.67	8.50	8.59	8.95	8.50	8.50	9.04	7.14	7.77		8.59	8.67

1985 Joinville, FRA

FINAL

		date	12-Jun-85	wind	1.4 m/s	<i>Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes</i>														
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Elloy, Laurence (FRA) (1959)	time			2.44	3.45	4.43	5.41	6.39	7.36	8.36	9.39	10.40	11.42		12.79	/ 1				
	reaction time	interval				1.01	0.98	0.98	0.98	0.97	1.00	1.03	1.01	1.02	1.37			2.97	2.95	3.06
	velocity					5.33	8.42	8.67	8.67	8.67	8.76	8.50	8.25	8.42	8.33	7.66	7.82		8.59	8.64
Piquereau, Anne (FRA) (1964)	time			2.42	3.44	4.40	5.41	6.42	7.36	8.35	9.37	10.38	11.46		12.89	/ 2				
	reaction time	interval				1.02	0.96	1.01	1.01	0.94	0.99	1.02	1.01	1.08	1.43			2.99	2.94	3.11
	velocity					5.37	8.33	8.85	8.42	8.42	9.04	8.59	8.33	8.42	7.87	7.34	7.76		8.53	8.67

1984 Olympic Games (Los Angeles, CA)

FINAL

		date	10-Aug-84	wind	0.7 m/s	<i>Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes</i>													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fitzgerald-Brown, Benita (US)	0.153			no information available											12.84	4 / 1			
Strong, Shirley (GBR) (1958)	0.171			no information available											12.88	7 / 2			
Turner, Kim (USA) (1961)	0.163			no information available											13.06	6 / 3			
Chardonnet, Michèle (FRA) (1958)	0.183			no information available											13.06	5 / 3			
Nunn, Glynis (AUS) (1960)	0.164			no information available											13.20	1 / 5			
Savigny, Marie-Noëlle (FRA) (1958)	0.159			no information available											13.28	8 / 6			
Denk, Ulrike (FRG) (1964)	0.158			no information available											13.32	3 / 7			
Page, Pamela (USA) (1958)	0.139			no information available											13.40	2 / 8			

1984 USSR National Championships (Kiev, URS)

FINAL

		date	22-Jun-84	wind	-0.4 m/s	<i>Breiser (1985) - over the hurdles with vera akimova and nadezdha korshunova</i>													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Akimova, Vera (URS) (1959)	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																
	velocity																		
Korshunova, Nadezhda (URS) (1959)	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	0.170	interval																
	velocity																		

1983 IAAF World Championships (Helsinki, FIN)

FINAL

		date	13-Aug-83	wind	2.4 m/s	<i>Knobe (1984) - the hurdles</i>													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jahn, Bettine (GDR) (1958)	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																
	velocity																		
Knabe, Kerstin (GDR) (1959)	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																
	velocity																		
Zagorcheva, Ginka (BUL) (1958)	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																
	velocity																		
Petrova, Natalya (URS) (1957)				no information available											12.67	8 / 4			
Strong, Shirley (GBR) (1958)				no information available											12.78	2 / 5			
Biserova, Yelena (URS) (1962)				no information available											12.80	5 / 6			
Riefstahl-Oschkenat, Cornelia (GDR) (1962)				no information available											12.94	7 / 7			
Fitzgerald-Brown, Benita (USA) (1961)				no information available											12.99	3 / 8			

Semi-Final 2

date 13-Aug-83 wind 1.6 m/s

Knobe (1984) - the hurdles

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Nunn-Cearns, Glynis (AUS) (1 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
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

date 12-Aug-83 wind 1.4 m/s

Knobe (1984) - the hurdles

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Nunn-Cearns, Glynis (AUS) (1 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
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

1983 Olympischer Tag (Berlin, GER)**FINAL**

date 08-Jun-83 wind 1.8 m/s

Graubner (2008) - http://www.fgs.uni-halle.de

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jahn, Bettine (GDR) (1958) time	2.55	3.55	4.53	5.48	6.44	7.40	8.35	9.32	10.31	11.32		12.42	/ 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
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

1982 European Championships (Athens, GRE)**FINAL**

date 09-Sep-82 wind 1.5 m/s

Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdenisziplinen im olympiazyklus 1981/84

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Katek, Lucyna (POL) (1956) time	2.55		4.56		6.50		8.42			11.37		12.45	/ 1			
reaction time interval			2.01		1.94		1.92			2.95	1.08	CR				2.95
velocity	5.10		8.46		8.76		8.85			8.64	9.72	8.03				8.64

1982 ASV Weltklasse (Köln, FRG)**FINAL**

date 22-Aug-82 wind 0.2 m/s

Ballreich (1986) - biomechanik der sprarten- Band 1- biomechanik der leichtathletik

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Katek, Lucyna (POL) (1956) time	2.60	3.62	4.59	5.55	6.52	7.49	8.45	9.44	10.42	11.44		12.55	/ 1			
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	2.99
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	8.53

1981 USSR vs. USA (Leningrad, URS)**FINAL**

date 11-Jul-81 wind 0.3 m/s

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

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Anisimova, Tatyana (URS) (19 time	2.60	3.61	4.62	5.62	6.62	7.62	8.62	9.62	10.62	11.64		12.79	/ 1			
reaction time interval		1.01	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.02	1.15			3.02	3.00	3.02
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
Hightower, Stephanie (USA) (time	2.65	3.68	4.70	5.72	6.78	7.85	8.87	9.89	10.94	11.97		13.09	/ 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
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
Fitzgerald, Benita (USA) (1961 time	2.66	3.70	4.71	5.74	6.83	7.90	8.93	9.94	11.02	12.09		13.24	/ 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
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
Petrova, Natalya (URS) (1957) time	2.65	3.69	4.70	5.74	6.82	7.91	8.95	9.96	11.07	12.16		13.32	/ 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
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

1981 USSR vs. GDR (Tbilisi, URS)**FINAL**

date 26-Jun-81 wind 0.0 m/s

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

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Anisimova, Tatyana (URS) (19 time	2.49	3.50	4.48	5.46	6.45	7.45	8.44	9.45	10.46	11.50		12.68	/ 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
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
Knabe, Kerstin (GDR) (1959) 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
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
Kemenchezhi, Mariya (URS) (1 time	2.52	3.56	4.57	5.58	6.64	7.69	8.74	9.75	10.78	11.82		12.96	/ 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
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
Gärtz, Bettine (GDR) (1958) time	2.48	3.52	4.52	5.65	6.66	7.72	8.76	9.78	10.85	11.92		13.17	/ 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
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

1980 Olympic Games (Moscow, URS)**FINAL**

date 28-Jul-80 wind 1.0 m/s

McFarlane (1988) - the science of hurdling

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Komisova, Vera (URS) (1953)	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	1.06	OR / PB		3.00	3.00	3.00
	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
Schaller-Klier, Johanna (GDR)	0.137	no information available											12.63	3 / 2			
Langer, Lucyna (POL) (1956)	0.169	no information available											12.65	2 / 3			
Claus-Knabe, Kerstin (GDR) (0.131	no information available											12.66	4 / 4			
Rabsztyń, Grazyna (POL) (195	0.138	no information available											12.74	1 / 5			
Litovchenko, Irina (URS) (195	0.205	no information available											12.84	7 / 6			
Gärtz, Bettina (GDR) (1958)	0.173	no information available											12.93	8 / 7			
Bielczyk, Zofia (POL) (1958)	0.133	no information available											13.08	6 / 8			

1979 VII USSR Spartakiade (Moscow, URS)

A FINAL

date 25-Jul-79 wind ??? *Balachničiv (1981) - Periodisierung und Zyklisierung des Trainings 1978/79- Hürdenläuferinnen der Spitzenklasse der UdSSR*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Anisimova, Tatyana (URS) (19	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
	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
Komisova, Vera (URS) (1953)	time	2.50	3.56	4.60	5.63	6.64	7.63	8.61	9.65	10.68	11.74		12.94	/ 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
	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
Morgulina, Nina (URS) (1956)	time	2.56	3.64	4.67	5.68	6.70	7.70	8.72	9.76	10.81	11.90		13.10	/ 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
	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
Lebedeva, Natalya (URS) (194	time	2.58	3.66	4.74	5.81	6.80	7.77	8.78	9.85	10.90	11.96		13.15	/ 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
	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
Litovchenko, Irina (URS) (195	time	2.54	3.68	4.70	5.76	6.76	7.76	8.78	9.86	10.92	11.99		13.18	/ 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
	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

1979 Pan American Games (San Juan, PUR)

FINAL

date 13-Jul-79 wind 3.9 m/s *Lyle (1979) - coaching observations*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
LaPlante, Deby (USA) (1953)	time	2.37	3.39	4.39	5.42	6.38	7.33	8.28	9.27	10.28	11.36		12.90	/ 1			
	reaction time	interval	1.02	1.00	1.03	0.96	0.95	0.95	0.99	1.01	1.08	1.54			3.05	2.86	3.08
	velocity	5.49	8.33	8.50	8.25	8.85	8.95	8.95	8.59	8.42	7.87	6.82	7.75		8.36	8.92	8.28
Lane, Sharon (CAN)		no information available											13.56	/ 2			
Machado, Grisel (CUB) (1959)		no information available											13.60	/ 3			
Young, Candy (USA) (1962)	time	2.57	3.60	4.57	5.66	6.74	7.78	8.85	9.95	11.04	12.22		13.67	/ 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
	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

date 12-Jul-79 wind 2.8 m/s *Lyle (1979) - coaching observations*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Young, Candy (USA) (1962)	time	2.39	3.48	4.54	5.57	6.68	7.69	8.79	9.88	11.02	12.24		13.74	/ 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
	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

Semi-Final 1

date 12-Jul-79 wind 3.4 m/s *Lyle (1979) - coaching observations*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
LaPlante, Deby (USA) (1953)	time	2.26	3.28	4.33	5.36	6.29	7.29	8.28	9.25	10.27	11.44		12.97	/ 1			
	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
	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

1978 European Championships (Prague, TCH)

FINAL

date 02-Sep-78 wind 0.6 m/s *Lamare (1978) - championnats d'Europa 1978*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Schaller-Klier, Johanna (GDR)	time	2.69					6.52							12.62	4 / 1			
	reaction time	interval					3.83											
	velocity	4.83					8.88							7.92				
Anisimova, Tatiana (URS) (1949)		no information available											PB	12.67	5 / 2			
Berend, Gudrun (GDR) (1955)		no information available											PB	12.73	1 / 3			
Morgulina, Nina (URS) (1956)	time	2.67				6.56								12.86	3 / 4			
	reaction time	interval				3.89												
	velocity	4.87				8.74								7.78				

Langer, Lucyna (POL) (1956)	no information available	12.98	8 / 5
Fiedler, Annerose (GDR) (1951)	no information available	13.09	6 / 6
Rabsztyn, Elzbieta (POL) (1956)	no information available	13.17	7 / 7

1976 Olympic Games (Montreal, CAN)

FINAL

date 29-Jul-76		wind 0.0 m/s										<i>Ilyin (1979) - successes of women hurdlers</i>					
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Schaller-Klier, Johanna (GDR)	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
		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
Anisimova, Tatyana (URS) (19	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
		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
Lebedeva, Natalya (URS) (194	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
		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
Berend, Gudrun (GDR) (1955)	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
		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
Rabsztyn, Grazyna (POL) (1952)	no information available												12.96	2 / 5			
Shakhamorov-Rot, Esther (ISR) (1952)	no information available												13.04	6 / 6			
Bufano-Stefanescu, Valeria (ROU) (1946)	no information available												13.35	4 / 7			
Ongar, Ileana (ITA) (1950)	no information available												13.51	7 / 8			

1975 International "Pravda" Sportfest (Sotschi, URS)

FINAL

date 29-May-75		wind ??										<i>Artyschenko (1977) - zwischen den hürden geht es um die sekunde, teil 2</i>					
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kononova, Lyubov (URS) (19	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
		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
Lebedeva, Natalya (URS) (194	time	2.4	3.6	4.7	5.8	6.9	7.9	9.0	10.0	11.1	12.1		13.4	/ 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
		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
Morgulina, Nina (URS) (1956)	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
		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

1974 West German National Championships (Hannover, FRG)

FINAL

date 28-Jul-74		wind 2.8 m/s										<i>Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften</i>					
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wengler, Gudrun (FRG)	time	2.55				6.93							14.01	/ 4			
	reaction time					4.38						7.08					
		velocity	5.10				7.76						7.49	7.14			
Bretz, Heide-Lore (FRG) (1955)	time	2.58				7.06							14.15	/ 7			
	reaction time					4.48						7.09					
		velocity	5.04				7.59						7.48	7.07			

1973 East German National Championships (Dresden, GDR)

FINAL

date 22-Jul-73		wind 1.5 m/s										<i>Tepper (1978) - Analyse der trainingsgestaltung und leistungsentwicklung in den sprintdisziplinen der M und F der DVfL</i>					
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ehrhardt, Anneliese (GDR) (1	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	0.99	1.12		(12.3)	3.04	2.95	2.95
		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

1972 Olympic Games (Munich, FRG)

FINAL

date 08-Sep-72		wind -0.6 m/s										<i>Kay (1972) - BAAB Munich Technical Report</i>					
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ehrhardt, Anneliese (GDR) (1	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	1.1	1.0	1.0	0.9	1.0	1.0	1.0	0.9	1.1	1.09	WR	3.10	2.90	3.00
		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
Bufanu, Valeria (ROU) (1946)	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	1.0	1.1	1.0	1.0	0.9	1.0	1.0	1.1	1.14		PB	3.10	2.90	3.10
		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
Balzer-Richert, Karin (GDR) (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	1.1	1.0	1.1	1.0	1.0	1.0	1.0	1.1	1.10		PB	3.20	3.00	3.10
		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

Kilborn-Ryan, Pam (AUS) (1952)	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	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.2	1.08				3.00	3.10	3.20
		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

Nowak, Teresa (POL) (1942)		no information available											13.17		1 / 5			
Strazynska, Danuta (POL) (1942)		no information available											13.18		8 / 6			
Krumpholz, Annerose (GDR) (1951)		no information available											13.27		2 / 7			
Rabsztyn, Grazyna (POL) (1952)		no information available											13.44		4 / 8			

Heat 3

	date	04-Sep-72	wind	0.6 m/s											<i>Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften</i>			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Rallins, Mamie (USA) (1941)	time		2.5				6.7							13.51		4 / 3		
	reaction time	interval					4.3											
		velocity	5.24				7.98							7.40				

Heat 2

	date	04-Sep-72	wind	-0.6 m/s											<i>Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften</i>			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mathews, Brenda (NZL) (1949)	time		2.5				6.9							13.81		4 / 5		
	reaction time	interval					4.4											
		velocity	5.12				7.80							7.24				

Heat 1

	date	04-Sep-72	wind	0.0 m/s											<i>Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften</i>			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shakhamarov, Esther (ISR) (1952)	time		2.5				6.7							13.17		2 / 4		
	reaction time	interval					4.2											
		velocity	5.26				8.10							7.59				

1968 Olympic Games (Mexico City, MEX) (80m Hurdles)**FINAL**

	date	18-Oct-68	wind	0.0 m/s														
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Caird, Maureen (AUS) (1951)			no information available										OR	10.3	1 / 1	(10.39)		
Kilborn, Pan (AUS) (1939)			no information available											10.4	8 / 2	(10.46)		
Chi Cheng (TPE) (1944)			no information available											10.4	2 / 3	(10.51)		
van Wolvelaere, Patty (USA) (1950)			no information available											10.5	7 / 4	(10.60)		
Balzer, Karin (GDR) (1938)			no information available											10.6	5 / 5	(10.61)		
Straszyńska, Danuta (POL) (1942)			no information available											10.6	4 / 6	(10.66)		
Zebrowska, Elżbieta (POL) (1945)			no information available											10.6	6 / 7	(10.66)		
Talysheva, Tatyana (URS) (1937)			no information available											10.7	3 / 8	(10.72)		

1964 Olympic Games (Tokyo, JPN) (80m Hurdles)**FINAL**

	date	19-Oct-64	wind	2.3 m/s									<i>Breitschaft (1965) - die leichtathletik wettkampfe der 1964 olympischen sommerspielen - 80m hürdenlauf</i>				
			H1	H2	H3	H4	H5	H6	H7	H8		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Richert, Karin (EUA/GDR) (1938)			no information available										10.5	3 / 1	(10.54)		
Cieply, Teresa (POL) (1937)			no information available										10.5	2 / 2	(10.55)		
Kilborn, Pan (AUS) (1939)			no information available										10.5	7 / 3	(10.56)		
Press, Irina (URS) (1939)	time				4.1			7.1						10.6	4 / 4		
	reaction time	interval	7 steps					3.0					3.50	(10.62)			
		velocity		6.83				8.00					6.86	9.43			
Yoda, Ikuko (JPN) (1938)	time				3.8			7.2						10.7	6 / 5		
	reaction time	interval						3.4					3.50	(10.72)			
		velocity		7.37				7.06					6.86	9.35			
Piatkowska, Maria (POL) (1931)	time				4.1			7.2						10.7	8 / 6		
	reaction time	interval	7 steps					3.1					3.50	(10.76)			
		velocity		6.83				7.74					6.86	9.35			
Stamejčić, Draga (YUG) (1937)	time				4.3			7.3						10.8	5 / 7		
	reaction time	interval						3.0					3.50	(10.86)			
		velocity		6.51				8.00					6.86	9.26			
Bonds, Rosie (USA) (1946)	time				4.1			7.5						10.8	1 / 8		
	reaction time	interval						3.4					3.30	(10.88)			
		velocity		6.83				7.06					7.27	9.26			

Semi-Final 2

	date	19-Oct-64	wind	???									<i>Breitschaft (1965) - die leichtathletik wettkampfe der 1964 olympischen sommerspielen - 80m hürdenlauf</i>				
			H1	H2	H3	H4	H5	H6	H7	H8		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yoda, Ikuko (JPN) (1938)	time				4.4			7.3					10.7		/ 2		
	reaction time	interval						2.9					3.40	(10.72)			
		velocity		6.36				8.28					7.06	9.35			
Piatkowska, Maria (POL) (1931)	time				4.3			7.3						10.7		/ 4	
	reaction time	interval	7 steps					3.0					3.40	(10.73)			
		velocity		6.51				8.00					7.06	9.35			

Bystrova, Galina (URS) (1934)	time	4.2	7.3	10.8	/ 6
reaction time	interval		3.1	3.50 (10.89)	
	velocity	6.67	7.74	6.86 9.26	

Semi-Final 1

date 19-Oct-64 wind ??? Breitschaft (1965) - die leichtathletik wettkampfe der 1964 olympischen sommerspielen - 80m hürdenlauf

		H1	H2	H3	H4	H5	H6	H7	H8	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kilborn, Pam (AUS) (1939)	time			4.2			7.1				10.6	/ 1			
reaction time	interval						2.9			3.50	=OR	(10.69)			
	velocity			6.67			8.28			6.86	9.43				
Press, Irina (URS) (1939)	time			4.3			7.2				10.8	/ 3			
reaction time	interval	7 steps					2.9			3.60	(10.85)				
	velocity			6.51			8.28			6.67	9.26				
Bonds, Rosie (USA) (1946)	time			4.2			7.2				10.8	/ 4			
reaction time	interval						3.0			3.60	(10.87)				
	velocity			6.67			8.00			6.67	9.26				

1960 Olympic Games (Rome, ITA) (80m Hurdles)**FINAL**

date 01-Sep-60 wind 0.0 m/s

		H1	H2	H3	H4	H5	H6	H7	H8	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Press, Irina (URS) (1939)		no information available									10.8	3 / 1	(10.93)		
Quinton, Carole (GBR) (1936)		no information available									10.9	6 / 2	(10.99)		
Birkemeyer, Gisela (EUA/GDR) (1931)		no information available									11.0	4 / 3	(11.13)		
Bignal, Mary (GBR) (1940)		no information available									11.1	5 / 4	(11.22)		
Bystrova, Galina (URS) (1934)		no information available									11.2	2 / 5	(11.26)		
Kosheleva, Rimma (URS) (1936)		no information available									11.2	1 / 6	(11.28)		

1956 Olympic Games (Melbourne, AUS) (80m Hurdles)**FINAL**

date 28-Nov-56 wind -1.3 m/s

		H1	H2	H3	H4	H5	H6	H7	H8	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Strickland, Shirley (AUS) (1925)		no information available								OR	10.7	8 / 1	(10.96)		
Köhler, Gisela (EUA/GDR) (1931)		no information available									10.9	4 / 2	(11.12)		
Thrower, Norma (AUS) (1936)		no information available									11.0	7 / 3	(11.25)		
Bystrova, Galina (URS) (1934)		no information available								7 steps	11.0	6 / 4	(11.25)		
Golubnichaya, Mariya (URS) (1924)		no information available									11.3	5 / 5	(11.50)		
Cooke, Gloria (AUS) (1934)		no information available									11.4	3 / 6	(11.60)		

1952 Olympic Games (Helsinki, FIN) (80m Hurdles)**FINAL**

date 24-Jul-52 wind

		H1	H2	H3	H4	H5	H6	H7	H8	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Strickland, Shirley (AUS) (1925)		no information available								WR	10.9	4 / 1	(11.01)		
Golubnichaya, Mariya (URS) (1924)		no information available									11.1	6 / 2	(11.24)		
Sander, Maria (FRG) (1924)		no information available									11.1	5 / 3	(11.38)		
Seonbuchner, Anneliese (FRG) (1929)		no information available									11.2	7 / 4	(11.46)		
Desorges, Jean (GBR) (1929)		no information available									11.6	2 / 5	(11.75)		
Blankers-Koen, Fanny (NED) (1918)		no information available									dnf	3 / --			

1948 Olympic Games (London, GBR) (80m Hurdles)**FINAL**

date 04-Aug-48 wind 1.9 m/s

		H1	H2	H3	H4	H5	H6	H7	H8	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Blankers-Koen, Fanny (NED) (1918)		no information available								OR	11.2	2 / 1			
Gardner, Maureen (GBR) (1928)		no information available								OR	11.2	3 / 2			
Strickland, Shirley (AUS) (1925)		no information available									11.4	6 / 3			
Monginou, Yvette (FRA) (1927)		no information available									11.8e	5 / 4			
Oberbreyer, Maria (AUT) (1921)		no information available									11.9e	4 / 5			
Lomská, Libuše (TCH) (1923)		no information available									11.9e	7 / 6			

1936 Olympic Games (Berlin, GER) (80m Hurdles)**FINAL**

date 06-Aug-36 wind 1.4 m/s

		H1	H2	H3	H4	H5	H6	H7	H8	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Valla, Trebisonda (ITA) (1916)		no information available								=OR	11.7	5 / 1	(11.75)		
Steuer, Anni (GER) (1913)		no information available								=OR	11.7	2 / 2	(11.81)		
Taylor, Elizabeth (CAN) (1916)		no information available								=OR	11.7	4 / 3	(11.82)		
Testoni, Claudia (ITA) (1915)		no information available								=OR	11.7	3 / 4	(11.82)		
ter Braake, Kitty (NED) (1913)		no information available									11.8	6 / 5	(11.84)		
Eckert, Doris (GER) (1915)		no information available									12.0	7 / 6	(12.19)		

1932 Olympic Games (Los Angeles, CA) (80m Hurdles)**FINAL**

date 04-Aug-32 wind

		H1	H2	H3	H4	H5	H6	H7	H8	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Didriksen, Mildred "Babe" (USA) (1911)		no information available				9 steps					WR	11.7	3 / 1		
Hall, Evelynne (USA) (1909)		no information available									WR	11.7	2 / 2		
Clark, Marjorie (RSA) (1909)		no information available				7 steps						11.8	4 / 3		

Schaller, Simone (USA) (1912)
Webb, Violet (GBR) (1915)
Wilson, Alda (CAN) (1910)

no information available
no information available
no information available

7 steps
9 steps

11.8 7 / 4
11.9 6 / 5
12.0 5 / 6

