

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

LAST UPDATE: 5-Mar-25

## 2024 Chinese National Championships (Quzhou, CHN)

## FINAL

		date	16-Sep-24	wind	0.6 m/s										Shandong Athletics Sport Science (2024)						
					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	3.70	4.72	5.74	6.72	7.73	8.74	9.76	10.79	11.86		13.05	5 / 1				
	reaction time	0.160	interval			1.03	1.02	1.02	0.98	1.01	1.01	1.02	1.03	1.07	1.19				3.07	3.00	3.12
			velocity			4.87	8.25	8.33	8.33	8.67	8.42	8.42	8.33	8.25	7.94	8.45	7.66		8.31	8.50	8.17
Chen Yinfeng (CHN) (1998)	time				2.74	3.78	4.83	5.87	6.92	7.92	8.99	10.06	11.15	12.24		13.39	7 / 2				
	reaction time	0.177	interval			1.04	1.05	1.04	1.05	1.00	1.07	1.07	1.09	1.09	1.15				3.13	3.12	3.25
			velocity			4.74	8.17	8.10	8.17	8.10	8.50	7.94	7.94	7.80	7.80	8.74	7.47		8.15	8.17	7.85
Wu Binbin (CHN) (2006)	time				2.64	3.72	4.78	5.84	6.89	7.94	9.01	10.09	11.17	12.26		13.41	8 / 3				
	reaction time	0.146	interval			1.08	1.06	1.06	1.05	1.05	1.07	1.08	1.08	1.09	1.15				3.20	3.17	3.25
			velocity			4.92	7.87	8.02	8.02	8.10	8.10	7.94	7.87	7.87	7.80	8.74	7.46		7.97	8.04	7.85
Jiang Liyunzhe (CHN) (2002)	time				2.71	3.82	4.89	5.96	7.00	8.06	9.10	10.16	11.24	12.33		13.50	4 / 4				
	reaction time	0.177	interval			1.11	1.07	1.07	1.04	1.06	1.04	1.06	1.08	1.09	1.17				3.25	3.14	3.23
			velocity			4.80	7.66	7.94	7.94	8.17	8.02	8.17	8.02	7.87	7.80	8.59	7.41		7.85	8.12	7.89
Gao Yirong (CHN) (2004)	time				2.74	3.82	4.89	5.92	6.96	8.00	9.06	10.13	11.20	12.28		13.50	6 / 5				
	reaction time	0.237	interval			1.08	1.07	1.03	1.04	1.04	1.06	1.07	1.07	1.08	1.22				3.18	3.14	3.22
			velocity			4.74	7.87	7.94	8.25	8.17	8.17	8.02	7.94	7.94	7.87	8.24	7.41		8.02	8.12	7.92
Luo Xianyan (CHN) (1997)	time				2.65	3.75	4.82	5.87	6.93	7.96	9.03	10.11	11.20	12.30		13.54	9 / 6				
	reaction time	0.148	interval			1.10	1.07	1.05	1.06	1.03	1.07	1.08	1.09	1.10	1.24				3.22	3.16	3.27
			velocity			4.91	7.73	7.94	8.10	8.02	8.25	7.94	7.87	7.80	7.73	8.10	7.39		7.92	8.07	7.80
Dong Jiaxin (CHN) (2004)	time				2.67	3.75	4.80	5.82	6.87	7.92	8.97	10.06	11.18	12.31		13.57	2 / 7				
	reaction time	0.184	interval			1.08	1.05	1.02	1.05	1.05	1.05	1.09	1.12	1.13	1.26				3.15	3.15	3.34
			velocity			4.87	7.87	8.10	8.33	8.10	8.10	8.10	7.80	7.59	7.52	7.98	7.37		8.10	8.10	7.63

## 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	8.76
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	8.44
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	8.42
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	8.53
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	8.33
Marshall, Tonia (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	8.36
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	8.25
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	8.04

## 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	8.70

<b>Samba-Mayela, Cyréna (FRA)</b>	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	8.67
<b>Russell, Masai (USA) (2000)</b>	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	8.67
<b>Stark, Grace (USA) (2001)</b>	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	8.67
<b>Visser, Nadine (NED) (1995)</b>	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	8.50
<b>Williams, Danielle (JAM) (1992)</b>	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	8.42
<b>Harrison, Kendra (USA) (1992)</b>	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	8.53
<b>Skrzyszowska, Pia (POL) (2001)</b>	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	8.17
<b>Kambundji, Ditaji (SUI) (2002)</b>	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			
	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		no official time given
	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		8.08	2.99	3.11
															8.28	8.53	8.20

## 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
<b>Nugent, Ackera (JAM) (2002)</b>	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	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
<b>Russell, Masai (USA) (2000)</b>	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	0.96	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
<b>Visser, Nadine (NED) (1995)</b>	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	0.99	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	8.59	8.59	8.50	8.10	7.99			8.61	8.79	8.56
<b>Samba-Mayela, Cyréna (FRA)</b>	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	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
<b>Johnson, Alaysha (USA) (1994)</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	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	0.99	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
<b>Kambundji, Ditaji (SUI) (2002)</b>	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
<b>Carmassi, Giada (ITA) (1994)</b>	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
<b>Charlton, Devynne (BAH) (1994)</b>	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
<b>Nugent, Ackera (JAM) (2002)</b>	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
<b>Stark, Grace (USA) (2001)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	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
<b>Russell, Masai (USA) (2000)</b>	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
<b>Johnson, Alaysha (USA) (1999)</b>	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
<b>Samba-Mayela, Cyréna (FRA)</b>	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
<b>Visser, Nadine (NED) (1995)</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Marshall, Tonea (USA) (1998)</b>	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	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
<b>Nugent, Ackera (JAM) (2002)</b>	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
<b>Johnson, Alaysha (USA) (1999)</b>	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
<b>Visser, Nadine (NED) (1995)</b>	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
<b>Marshall, Tonea (USA) (1998)</b>	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
<b>Russell, Masai (USA) (2000)</b>	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
<b>Skrzyszowska, Pia (POL) (2001)</b>	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
<b>Sember, Cindy (GBR) (1994)</b>	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
<b>Wojtunik, Klaudia (POL) (1999)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	time	2.37	3.40	4.36	5.33	6.26	7.22	8.18	9.15	10.14	11.14		12.37	4 / 1			
	reaction time 0.116 interval		1.03	0.96	0.97	0.93	0.96	0.96	0.97	0.99	1.00	1.23			2.96	2.85	2.96
	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
<b>Stark, Grace (USA) (2001)</b>	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			8.85	8.59



<b>Harrison, Kendra (USA) (1992)</b>	time	2.44	3.46	4.43	5.41	6.37	7.34	8.31	9.28	10.25	11.25		12.49		7 / 3			
	reaction time	0.186	interval	1.02	0.97	0.98	0.96	0.97	0.97	0.97	0.97	1.00	1.24			2.97	2.90	2.94
	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
<b>Samba-Mayela, Cyréna (FRA)</b>	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
<b>Caicedo, Maribel (ECU) (1998)</b>	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
<b>Majewska, Marika (POL) (2002)</b>	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
<b>Thompson, Yanique (JAM) (1)</b>	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
<b>Forster, Viktória (SVK) (2002)</b>	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
<b>Camacho-Quinn, Jasmine (PU)</b>	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	0.95	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
<b>Stark, Grace (USA) (2001)</b>	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
<b>Nugent, Ackera (JAM) (2002)</b>	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
<b>Visser, Nadine (NED) (1995)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	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
<b>Johnson, Alaysha (USA) (1999)</b>	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	0.98	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
<b>Samba-Mayela, Cyréna (FRA)</b>	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
<b>Kambundji, Ditaji (SUI) (2002)</b>	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
<b>Russell, Masai (USA) (2000)</b>	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	8.85	8.45	8.11		8.44	8.95	8.89
<b>Samba-Mayela, Cyréna (FRA)</b>	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	8.95	9.14	8.85	8.76	8.76	8.24	8.10		8.59	9.01	8.79
<b>Camacho-Quinn, Jasmine (PU)</b>	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
<b>Visser, Nadine (NED) (1995)</b>	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	
<b>Stark, Grace (USA) (2001)</b>	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	8.76	8.67	8.17	8.05	8.53	8.85	8.73	
<b>Charlton, Devynne (BAH) (1995)</b>	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	
<b>Johnson, Alaysha (USA) (1996)</b>	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	
<b>Nugent, Ackera (JAM) (2002)</b>	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
<b>Camacho-Quinn, Jasmine (PU)</b>	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	
<b>Russell, Masai (USA) (2000)</b>	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	
<b>Nugent, Ackera (JAM) (2002)</b>	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	
<b>Samba-Mayela, Cyréna (FRA)</b>	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	
<b>Fukube, Mako (JPN) (1995)</b>	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	
<b>Fourie, Marione (RSA) (2002)</b>	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	
<b>Tjin-a-Lim, Maayke (NED) (1999)</b>	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	
<b>Sember, Cindy (GBR) (1994)</b>	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
<b>Johnson, Alaysha (USA) (1996)</b>	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	
<b>Visser, Nadine (NED) (1995)</b>	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	
<b>Taylor, Charisma (BAH) (1999)</b>	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			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	
<b>Caicedo, Maribel (ECU) (1998)</b>	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	
<b>Kambundji, Ditaji (SUI) (2002)</b>	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	
<b>Lavin, Sarah (IRL) (1994)</b>	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
<b>Brown, Janeek (JAM) (1998)</b>	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
<b>Harala, Lotta (FIN) (1992)</b>	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	
<b>Stark, Grace (USA) (2001)</b>	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	
<b>Charlton, Devynne (BAH) (1995)</b>	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	
<b>Amusan, Tobi (NGR) (1997)</b>	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	
<b>Skrzyszowska, Pia (POL) (2001)</b>	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	
<b>Abdul-Rashid, Mariam (CAN) (1995)</b>	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	
<b>Williams, Danielle (JAM) (1992)</b>	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	
<b>Tanaka, Yumi (JPN) (1998)</b>	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	
<b>Morrison, Ebony (LBR) (1994)</b>	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	
<b>Harala, Lotta (FIN) (1992)</b>	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	
<b>Tanaka, Yumi (JPN) (1998)</b>	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	
<b>Kozák, Luca (HUN) (1996)</b>	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	
<b>Wu Yanni (CHN) (1997)</b>	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	
<b>Clay, Liz (AUS) (1999)</b>	time		2.44	3.51	4.52	5.54	6.55	7.57	8.59	9.61	10.65	11.70		12.99	5 / 5					
	reaction time	0.145	interval	1.07	1.01	1.02	1.01	1.02	1.02	1.02	1.04	1.05	1.29				3.10	3.05	3.11	
	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	
<b>Fiadanantsoa, Sidonie (MAD) (1995)</b>	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	
<b>Cartwright, Denisha (BAH) (1995)</b>	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	



<b>Morrison, Ebony (LBR) (1994)</b>	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	
<b>Caicedo, Maribel (ECU) (1998)</b>	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	
<b>Hurske, Reetta (FIN) (1995)</b>	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	
<b>Bapte, Laetitia (FRA) (1999)</b>	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	
<b>Mucci, Celeste (AUS) (1999)</b>	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	
<b>Lin Yuwei (CHN) (1999)</b>	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	
<b>Harrison, Michelle (CAN) (1999)</b>	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	
<b>Fourie, Marione (RSA) (2002)</b>	time	2.44	3.49	4.51	5.50	6.49	7.49	8.49	9.49	10.51	11.54		12.79	4 / 1				
	reaction time	0.154	interval	1.05	1.02	0.99	0.99	1.00	1.00	1.00	1.02	1.03	1.25		3.06	2.99	3.05	
	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	
<b>Tjin-a-Lim, Maayke (NED) (1999)</b>	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	
<b>Forster, Viktória (SVK) (2002)</b>	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	
<b>Yarraj, Jyothi (IND) (1999)</b>	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	
<b>Kerekes, Gréta (HUN) (1992)</b>	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	
<b>Chatfield, Emelia (HAI) (2001)</b>	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	
<b>Jenneke, Michelle (AUS) (1993)</b>	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	
<b>Kälin, Annik (SUI) (2000)</b>	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	
<b>Brooks, Taliyah (USA) (1995)</b>	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	
<b>Vidts, Noor (BEL) (1996)</b>	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	
<b>Araujo, Martha (COL) (1996)</b>	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	
<b>Hawkins, Chari (USA) (1991)</b>	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
<b>Hall, Anna (USA) (2001)</b>		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
<b>Gerevini, Sveva (ITA) (1996)</b>		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
<b>Lazraq-Khlass, Auriana (FRA)</b>		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
<b>Oosterwegel, Emma (NED) (19)</b>		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
<b>Schäfer, Carolin (GER) (1991)</b>		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
<b>Newton-Smith, Camryn (AUS)</b>		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
<b>Vetter, Anouk (NED) (1993)</b>		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
<b>Thiam, Nafissatou (BEL) (1994)</b>		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
<b>Vanninen, Saga (FIN) (2003)</b>		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
<b>Nemes, Rita (HUN) (1989)</b>		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
<b>Sulek-Schubert, Adrianna (POL)</b>		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
<b>Johnson-Thompson, Katarina</b>		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	1.06	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
<b>O'Dowda, Jade (GBR) (1999)</b>		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
<b>Dokter, Sofie (NED) (2002)</b>		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
<b>Krizsán, Xénia (HUN) (1993)</b>		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
<b>West, Tori (AUS) (1995)</b>		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
<b>O'Connor, Kate (IRL) (2000)</b>		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
<b>Nugent, Ackera (JAM) (2002)</b>	time	2.41	3.47	4.47	5.44	6.41	7.37	8.35	9.34	10.38	11.41		12.65	3 / 1			
	reaction time	0.128	interval	1.06	1.00	0.97	0.97	0.96	0.98	0.99	1.04	1.03	1.24		3.03	2.91	3.06
	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
<b>Charlton, Devynne (BAH) (1995)</b>	time	2.41	3.46	4.47	5.46	6.44	7.42	8.39	9.40	10.40	11.44		12.71	2 / 2			
	reaction time	0.155	interval	1.05	1.01	0.99	0.98	0.98	0.97	1.01	1.00	1.04	1.27		3.05	2.93	3.05
	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
<b>Stark, Grace (USA) (2001)</b>	time	2.43	3.46	4.45	5.45	6.48	7.48	8.48	9.48	10.48	11.49		12.72	9 / 3			
	reaction time	0.172	interval	1.03	0.99	1.00	1.03	1.00	1.00	1.00	1.00	1.01	1.23		3.02	3.03	3.01
	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
<b>Clay, Liz (AUS) (1995)</b>	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
<b>Harala, Lotta (FIN) (1992)</b>	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
<b>Forster, Viktória (SVK) (2002)</b>	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
<b>Lin Yuwei (CHN) (1999)</b>	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
<b>Harrison, Michelle (CAN) (1995)</b>	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

## Heat 4

date 07-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
<b>Williams, Danielle (JAM) (1992)</b>	time	2.39	3.42	4.41	5.38	6.35	7.33	8.31	9.31	10.31	11.33		12.59	9 / 1			
	reaction time	0.119	interval	1.03	0.99	0.97	0.97	0.98	0.98	1.00	1.00	1.02	1.26		2.99	2.93	3.02
	velocity	5.44	8.25	8.59	8.76	8.76	8.67	8.67	8.50	8.50	8.33	7.98	7.94		8.53	8.70	8.44
<b>Lavin, Sarah (IRL) (1994)</b>	time	2.48	3.52	4.52	5.51	6.49	7.47	8.46	9.46	10.47	11.48		12.73	6 / 2			
	reaction time	0.153	interval	1.04	1.00	0.99	0.98	0.98	0.99	1.00	1.01	1.01	1.25		3.03	2.95	3.02
	velocity	5.24	8.17	8.50	8.59	8.67	8.67	8.59	8.50	8.42	8.42	8.04	7.86		8.42	8.64	8.44
<b>Kambundji, Ditaji (SUI) (2002)</b>	time		3.50	4.52	5.52	6.51	7.50	8.49	9.50	10.51	11.54		12.81	2 / 3			
	reaction time	0.150	interval	1.02	1.00	0.99	0.99	0.99	1.01	1.01	1.03	1.27				2.97	3.05
	velocity		6.14	8.33	8.50	8.59	8.59	8.59	8.42	8.42	8.25	7.91	7.81			8.59	8.36
<b>Fourie, Marione (RSA) (2002)</b>	time	2.48	3.55	4.58	5.59	6.59	7.58	8.57	9.57	10.59	11.62		12.91	4 / 4			
	reaction time	0.157	interval	1.07	1.03	1.01	1.00	0.99	0.99	1.00	1.02	1.03	1.29		3.11	2.98	3.05
	velocity	5.24	7.94	8.25	8.42	8.50	8.59	8.59	8.50	8.33	8.25	7.79	7.75		8.20	8.56	8.36
<b>Bapte, Laetitia (FRA) (1999)</b>	time	2.48	3.53	4.55	5.54	6.53	7.53	8.55	9.59	10.66	11.72		13.04	8 / 5			
	reaction time	0.187	interval	7 steps	1.05	1.02	0.99	0.99	1.00	1.02	1.04	1.07	1.32		3.06	3.01	3.17
	velocity	5.24	8.10	8.33	8.59	8.59	8.50	8.33	8.17	7.94	8.02	7.61	7.67		8.33	8.47	8.04
<b>Kozák, Luca (HUN) (1996)</b>	time	2.53	3.62	4.64	5.67	6.68	7.68	8.71	9.74	10.79	11.84		13.11	5 / 6			
	reaction time	0.168	interval	1.09	1.02	1.03	1.01	1.00	1.03	1.03	1.05	1.05	1.27		3.14	3.04	3.13
	velocity	5.14	7.80	8.33	8.25	8.42	8.50	8.25	8.25	8.10	8.10	7.91	7.63		8.12	8.39	8.15
<b>Yarraj, Jyothi (IND) (1999)</b>	time	2.57	3.65	4.67	5.69	6.70	7.72	8.74	9.77	10.82	11.88		13.16	3 / 7			
	reaction time	0.168	interval	7 steps	1.08	1.02	1.01	1.02	1.02	1.03	1.05	1.06	1.28		3.12	3.05	3.14
	velocity	5.06	7.87	8.33	8.33	8.42	8.33	8.33	8.25	8.10	8.02	7.85	7.60		8.17	8.36	8.12
<b>Mota, Yoveiny (VEN) (2000)</b>	time	2.51	3.56	4.57	5.62	6.70	7.76	8.79						7 / --			
	reaction time	0.164	interval	1.05	1.01	1.05	1.08	1.06	1.03					DQ		3.11	3.17
	velocity	5.18	8.10	8.42	8.10	7.87	8.02	8.25							8.20	8.04	

## Heat 3

date 07-Aug-24

wind 0.8 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
<b>Russell, Masai (USA) (2000)</b>	time	2.46	3.51	4.51	5.48	6.44	7.40	8.37	9.34	10.32	11.31		12.53	6 / 1			
	reaction time	0.151	interval	1.05	1.00	0.97	0.96	0.96	0.97	0.97	0.98	0.99	1.22		3.02	2.89	2.94
	velocity	5.28	8.10	8.50	8.76	8.85	8.85	8.76	8.76	8.67	8.59	8.24	7.98		8.44	8.82	8.67
<b>Visser, Nadine (NED) (1995)</b>	time	2.43	3.46	4.45	5.41	6.36	7.31	8.28	9.26	10.26	11.28		12.53	9 / 1			
	reaction time	0.148	interval	1.03	0.99	0.96	0.95	0.95	0.97	0.98	1.00	1.02	1.25		2.98	2.87	3.00
	velocity	5.35	8.25	8.59	8.85	8.95	8.95	8.76	8.67	8.50	8.33	8.04	7.98		8.56	8.89	8.50

<b>Samba-Mayela, Cyréna (FRA)</b>	time	2.46	3.49	4.49	5.45	6.41	7.37	8.34	9.31	10.30	11.31		12.56	3 / 3			
	reaction time	0.142	interval	1.03	1.00	0.96	0.96	0.96	0.97	0.97	0.99	1.01	1.25		2.99	2.89	2.97
	velocity	5.28	8.25	8.50	8.85	8.85	8.85	8.76	8.76	8.59	8.42	8.04	7.96		8.53	8.82	8.59
<b>Taylor, Charisma (BAH) (1999)</b>	time	2.45	3.48	4.49	5.47	6.45	7.44	8.44	9.45	10.48	11.53		12.78	8 / 4			
	reaction time	0.150	interval	7 steps 1.03	1.01	0.98	0.98	0.99	1.00	1.01	1.03	1.05	1.25		3.02	2.97	3.09
	velocity	5.31	8.25	8.42	8.67	8.67	8.59	8.50	8.42	8.25	8.10	8.04	7.82		8.44	8.59	8.25
<b>Abdul-Rashid, Mariam (CAN)</b>	time	2.47	3.52	4.53	5.52	6.50	7.47	8.44	9.44	10.46	11.51		12.80	2 / 5			
	reaction time	0.149	interval	1.05	1.01	0.99	0.98	0.97	0.97	1.00	1.02	1.05	1.29		3.05	2.92	3.07
	velocity	5.26	8.10	8.42	8.59	8.67	8.76	8.76	8.50	8.33	8.10	7.79	7.81		8.36	8.73	8.31
<b>Hurske, Reetta (FIN) (1995)</b>	time	2.46	3.51	4.51	5.51	6.50	7.50	8.51	9.54	10.59	11.65		12.96	7 / 6			
	reaction time	0.139	interval	1.05	1.00	1.00	0.99	1.00	1.01	1.03	1.05	1.06	1.31		3.05	3.00	3.14
	velocity	5.28	8.10	8.50	8.50	8.59	8.50	8.42	8.25	8.10	8.02	7.67	7.72		8.36	8.50	8.12
<b>Kerekes, Gréta (HUN) (1992)</b>	time	2.50	3.59	4.63	5.72	6.80	7.85	8.90	9.98	11.05	12.15		13.50	5 / 7			
	reaction time	0.136	interval	1.09	1.04	1.09	1.08	1.05	1.05	1.08	1.07	1.10	1.35		3.22	3.18	3.25
	velocity	5.20	7.80	8.17	7.80	7.87	8.10	8.10	7.87	7.94	7.73	7.44	7.41		7.92	8.02	7.85
<b>Jenneke, Michelle (AUS) (1993)</b>	time	2.42	3.46	4.48	9.12	11.15	12.71	14.24	15.77	17.32	18.91		20.85	4 / 8			
	reaction time	0.140	interval	1.04	1.02	4.64	2.03	1.56	1.53	1.53	1.55	1.59	1.94		6.70	5.12	4.67
	velocity	5.37	8.17	8.33	1.83	4.19	5.45	5.56	5.56	5.48	5.35	5.18	4.80		3.81	4.98	5.46

## Heat 2

date 07-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
<b>Camacho-Quinn, Jasmine (PU)</b>	time	2.48	3.50	4.48	5.42	6.38	7.33	8.29	9.26	10.24	11.23		12.42	2 / 1			
	reaction time	0.176	interval	1.02	0.98	0.94	0.96	0.95	0.96	0.97	0.98	1.19			2.94	2.87	2.94
	velocity	5.24	8.33	8.67	9.04	8.85	8.95	8.85	8.76	8.67	8.59	8.45	8.05		8.67	8.89	8.67
<b>Sember, Cindy (GBR) (1994)</b>	time	2.47	3.51	4.50	5.46	6.43	7.40	8.39	9.41	10.43	11.46		12.72	9 / 2			
	reaction time	0.155	interval	1.04	0.99	0.96	0.97	0.97	0.99	1.02	1.02	1.03	1.26		2.99	2.93	3.07
	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
<b>Skrzyszowska, Pia (POL) (2001)</b>	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	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
<b>Cartwright, Denisha (BAH) (1991)</b>	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	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
<b>Tanaka, Yumi (JPN) (1998)</b>	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
<b>Morrison, Ebony (LBR) (1994)</b>	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
<b>Mucci, Celeste (AUS) (1999)</b>	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
<b>Chatfield, Emelia (HAI) (2001)</b>	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	1.04	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
<b>Amusan, Tobi (NGR) (1997)</b>	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	0.97	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
<b>Johnson, Alaysha (USA) (1996)</b>	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
<b>Brown, Janeek (JAM) (1998)</b>	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
<b>Fukube, Mako (JPN) (1995)</b>	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
<b>Fiadanantsoa, Sidonie (MAD)</b>	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
<b>Wu Yanni (CHN) (1997)</b>		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
<b>Tjin-a-Lim, Maayke (NED) (199)</b>		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
<b>Caicedo, Maribel (ECU) (1998)</b>		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
<b>Yokoyama, Suzuha (JPN) (200)</b>	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	<b>PB</b>			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
<b>Kamizono, Miyu (JPN) (2007)</b>	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	<b>PB</b>			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
<b>Taninaka, Tennka (JPN) (2006)</b>	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
<b>Kariya, Ayu (JPN) (2006)</b>	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
<b>Gotou, Wakana (JPN) (2006)</b>	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
<b>Bessho, Miyu (JPN) (2007)</b>	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
<b>Matsuda, Anna (JPN) (2006)</b>	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
<b>Okubo, Aoi (JPN) (2007)</b>	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
<b>Visser, Nadine (NED) (1995)</b>	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	<b>NR PB</b>			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
<b>Skrzyszowska, Pia (POL) (2001)</b>	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	<b>PB</b>			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
<b>Fourie, Marione (RSA) (2002)</b>	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
<b>Camacho-Quinn, Jasmine (PU)</b>	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
<b>Visser, Nadine (NED) (1995)</b>	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	<b>NR PB</b>			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



<b>Fourie, Marione (RSA) (2002)</b>	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	
<b>Skrzyszowska, Pia (POL) (2001)</b>	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	
<b>Ali, Nia (USA) (1988)</b>	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	
<b>Jenneke, Michelle (AUS) (1993)</b>	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	
<b>Clay, Liz (AUS) (1995)</b>	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	
<b>Hughes, Amber (USA) (1994)</b>	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	
<b>Fourie, Marione (RSA) (2002)</b>	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
<b>Skrzyszowska, Pia (POL) (2001)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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	8.42	8.33	8.25	8.04	7.82		8.23	8.50	8.33
<b>Jenneke, Michelle (AUS) (1993)</b>	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
<b>Tjin-a-Lim, Maayke (NED) (199)</b>	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
<b>Christofi, Natalia (CYP) (1997)</b>	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
<b>Vesana, Veronica (ITA) (2002)</b>	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
<b>Groot, Mira (NED) (1995)</b>	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
<b>Lin Yuwei (CHN) (1999)</b>	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	
<b>Camacho-Quinn, Jasmine (PU)</b>	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
<b>Visser, Nadine (NED) (1995)</b>	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
<b>Clay, Liz (AUS) (1995)</b>	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
<b>Hughes, Amber (USA) (1994)</b>	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
<b>Bapté, Laetitia (FRA) (1999)</b>	time	2.44	3.53	4.53	5.50	6.54	7.57	8.60	9.64	10.68	11.74		13.04	8 / 5			
reaction time	0.147	interval	7 steps	1.09	1.00	0.97	1.04	1.03	1.03	1.04	1.04	1.06	1.30		3.06	3.10	3.14
		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
<b>Graversgaard, Mette (DEN) (1988)</b>	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
<b>Škvarková, Stanislava (SVK) (1988)</b>	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
<b>Valette, Laura (FRA) (1997)</b>	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
<b>Boons, Eefji (NED) (1994)</b>	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
<b>Russell, Masai (USA) (2000)</b>	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		
<b>Johnson, Alaysha (USA) (1994)</b>	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		
<b>Stark, Grace (USA) (2001)</b>	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		
<b>Ali, Nia (USA) (1988)</b>	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		
<b>Marshall, Tonea (USA) (1998)</b>	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		
<b>Harrison, Kendra (USA) (1992)</b>	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		
<b>Clemons, Christina (USA) (1994)</b>	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		
<b>Bonds, Talie (USA) (1998)</b>	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		
<b>Armstrong, Alia (USA) (2000)</b>	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
<b>Russell, Masai (USA) (2000)</b>		no information available											12.36	6 / 1			
<b>Stark, Grace (USA) (2001)</b>		no information available											12.45	4 / 2			
<b>Bonds, Talie (USA) (1998)</b>		no information available											12.77	5 / 3			
<b>Huven, Destiny (USA) (2001)</b>		no information available											12.83	3 / 4			
<b>Laurencin, Aasia (USA) (2002)</b>		no information available											13.03	7 / 5			
<b>Dyer, Danae (USA) (2000)</b>		no information available											13.08	8 / 6			
<b>Cunningham, Gabbi (USA) (1998)</b>		no information available											13.58	9 / 7			
<b>Block, Natalie (USA) (2002)</b>		no information available											14.19	1 / 8			
<b>Magee, Paige (USA) (2002)</b>		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

<b>Johnson, Alaysha (USA) (1996)</b>	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
<b>Marshall, Toneya (USA) (1998)</b>	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	<b>PB</b>		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
<b>Jones, Rayniah (USA) (2001)</b>	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
<b>Webster, Alexandra (USA) (2003)</b>	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
<b>Smith, Jalaysiya (USA) (2003)</b>	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
<b>McMillian, Sydni (USA) (2002)</b>	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
<b>Fune, Hailey (USA) (1982)</b>	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
<b>Jones, Lolo (USA) (1982)</b>	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

**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
<b>Clemons, Christina (USA) (1996)</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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
<b>Armstrong, Alia (USA) (2000)</b>	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
<b>Hughes, Amber (USA) (1994)</b>	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
<b>Robinson, Kaylah (USA) (1996)</b>	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
<b>Covington, Jaiya (USA) (2003)</b>	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
<b>Phillips, Leah (USA) (2002)</b>	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
<b>Johnson, Brandeé (USA) (1996)</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Stark, Grace (USA) (2001)</b>	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	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	9.22	7.99	8.67	8.59	8.59	
<b>Hughes, Amber (USA) (1994)</b>	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
<b>Huven, Destiny (USA) (2001)</b>	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	<b>PB</b>	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
<b>Smith, Jalaysiya (USA) (2003)</b>	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
<b>Jones, Lolo (USA) (1982)</b>	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
<b>Clemons, Christina (USA) (1994)</b>	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		
<b>Jones, Rayniah (USA) (2001)</b>	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		
<b>Laurencin, Aasia (USA) (2002)</b>	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		
	velocity	4.92	8.25	8.67	8.50	8.50	8.50	8.50	8.33	8.42	8.25	8.89	7.79	8.47	8.50	8.33		
<b>Robinson, Kaylah (USA) (1994)</b>	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		
	velocity	4.83	8.10	8.50	8.50	8.67	8.67	8.67	8.33	7.87	7.87	8.24	7.65	8.36	8.67	8.02		
<b>Cunningham, Gabbi (USA) (1994)</b>	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		
	velocity	5.06	7.94	8.25	8.17	8.42	8.42	8.25	8.10	8.17	7.87	8.17	7.60	8.12	8.36	8.04		
<b>Johnson, Brandée (USA) (1994)</b>	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		
	velocity	4.89	8.10	8.17	8.33	8.50	7.73	8.17	7.94	8.02	7.94	8.37	7.51	8.20	8.12	7.97		
<b>Ali, Nia (USA) (1988)</b>			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
<b>Russell, Masai (USA) (2000)</b>	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	<b>PB</b>	2.96	2.86	2.89		
	velocity	5.06	8.59	8.59	8.67	8.95	8.85	8.95	8.95	8.76	8.76	9.39	8.10	8.61	8.92	8.82		
<b>Johnson, Alaysha (USA) (1994)</b>	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		
	velocity	5.16	8.33	8.76	9.04	8.85	9.04	8.95	8.67	8.76	8.50	8.97	8.08	8.70	8.95	8.64		
<b>Armstrong, Alia (USA) (2000)</b>	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		
	velocity	5.16	8.25	8.50	8.76	8.50	8.76	8.33	8.50	8.10	8.10	8.89	7.85	8.50	8.53	8.23		
<b>Phillips, Leah (USA) (2002)</b>	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		
	velocity	5.04	8.17	8.17	8.25	8.10	8.25	7.94	8.17	8.10	7.87	8.24	7.56	8.20	8.10	8.04		
<b>McMillian, Sydni (USA) (2002)</b>	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		
	velocity	4.91	7.94	8.17	8.10	8.42	8.33	8.10	8.25	7.94	8.10	8.24	7.54	8.07	8.28	8.10		
<b>Magee, Paige (USA) (2002)</b>	time	2.77	3.87	4.92	5.95	6.98	8.02	9.07	10.12	11.18	12.23		13.41	9 / 6				
reaction time	interval		1.10	1.05	1.03	1.03	1.04	1.05	1.05	1.06	1.05	1.18		3.18	3.12	3.16		
	velocity	4.69	7.73	8.10	8.25	8.25	8.17	8.10	8.10	8.02	8.10	8.52	7.46	8.02	8.17	8.07		
<b>Block, Natalie (USA) (2002)</b>	time	2.71	3.81	4.87	5.94	7.00	8.06	9.16	10.26	11.36	12.52		13.84	7 / 7				
reaction time	interval		1.10	1.06	1.07	1.06	1.06	1.10	1.10	1.10	1.16	1.32		3.23	3.22	3.36		
	velocity	4.80	7.73	8.02	7.94	8.02	8.02	7.73	7.73	7.73	7.33	7.61	7.23	7.89	7.92	7.59		

## 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
<b>Marshall, Tonea (USA) (1998)</b>	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																			
	velocity				5.31	8.33	8.85	8.59	8.76	8.85	9.04	8.76	8.59	8.42	8.74	8.06		2.97	2.87	2.97
<b>Bonds, Talie (USA) (1998)</b>	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																			
	velocity				5.08	8.25	8.85	8.59	8.67	8.67	8.67	8.67	8.42	8.33	8.59	7.90		2.98	2.94	3.01
<b>Webster, Alexandra (USA) (20)</b>	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																			
	velocity				4.94	8.17	8.33	8.42	8.50	8.50	8.59	8.67	8.50	8.50	8.66	7.79		3.07	2.99	2.98
<b>Jones, Tia (USA) (2000)</b>	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																			
	velocity				5.00	8.25	8.50	8.59	8.42	8.59	8.50	8.42	8.33	8.10	8.37	7.75		3.02	3.00	3.08
<b>Dyer, Danae (USA) (2000)</b>	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																			
	velocity				5.00	8.33	8.33	8.33	8.17	8.50	8.25	8.25	8.50	7.87	8.52	7.68		3.06	3.07	3.11
<b>Covington, Jaiya (USA) (2003)</b>	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																			
	velocity				4.91	8.10	8.25	8.25	8.17	8.25	8.17	8.25	8.25	8.10	8.66	7.61		3.11	3.11	3.11
<b>Fune, Hailey (USA) (2002)</b>	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																			
	velocity				4.94	8.10	7.94	7.73	8.10	8.25	8.25	8.17	7.87	8.10	8.10	7.48		3.22	3.11	3.17

## 2024 Chinese National Grand Prix Final (Rizhao, CHN)

## FINAL

		date	30-Jun-24	wind	0.2 m/s										Shandong Athletics Sport Science (2024)					
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Wu Yanni (CHN) (1997)</b>	time				2.65	3.64	4.62	5.60	6.59	7.57	8.54	9.54	10.54	11.59		12.74	6 / 1			
	reaction time	0.184																		
	interval																			
	velocity				4.91	8.59	8.67	8.67	8.59	8.67	8.76	8.50	8.50	8.10	8.74	7.85		2.95	2.94	3.05
<b>Lin Yuwei (CHN) (1999)</b>	time				2.60	3.63	4.66	5.66	6.66	7.66	8.66	9.66	10.71	11.79		13.00	4 / 2			
	reaction time	0.157																		
	interval																			
	velocity				5.00	8.25	8.25	8.50	8.50	8.50	8.50	8.50	8.10	7.87	8.31	7.69		3.06	3.00	3.13
<b>Chen Jiamin (CHN) (1996)</b>	time				2.70	3.74	4.76	5.79	6.84	7.89	8.92	9.94	11.02	12.08		13.23	7 / 3			
	reaction time	0.151																		
	interval																			
	velocity				4.81	8.17	8.33	8.25	8.10	8.10	8.25	8.33	7.87	8.02	8.74	7.56		3.09	3.13	3.16
<b>Xia Sining (CHN) (2003)</b>	time				2.71	3.80	4.84	5.87	6.92	7.96	8.99	10.04	11.09	12.16		13.38	9 / 4			
	reaction time	0.123																		
	interval																			
	velocity				4.80	7.80	8.17	8.25	8.10	8.17	8.25	8.10	8.10	7.94	8.24	7.47		3.16	3.12	3.17
<b>Chen Yinfeng (CHN) (1998)</b>	time				2.62	3.67	4.73	5.78	6.82	7.89	8.96	10.04	11.13	12.24		13.43	5 / 5			
	reaction time	0.153																		
	interval																			
	velocity				4.96	8.10	8.02	8.10	8.17	7.94	7.94	7.87	7.80	7.66	8.45	7.45		3.16	3.18	3.28
<b>Dong Jiaxin (CHN) (2004)</b>	time				2.62	3.74	4.81	5.84	6.89	7.94	9.01	10.07	11.16	12.30		13.56	3 / 6			
	reaction time	0.175																		
	interval																			
	velocity				4.96	7.59	7.94	8.25	8.10	8.10	7.94	8.02	7.80	7.46	7.98	7.37		3.22	3.17	3.29
<b>Gong Qiudan (CHN) (2003)</b>	time				2.73	3.85	4.93	6.01	7.07	8.16	9.22	10.29	11.36	12.46		13.65	2 / 7			
	reaction time	0.179																		
	interval																			
	velocity				4.76	7.59	7.87	7.87	8.02	7.80	8.02	7.94	7.94	7.73	8.45	7.33		3.28	3.21	3.24
<b>Gao Yirong (CHN) (2004)</b>	time				2.68	3.74	4.77	5.84	6.91	7.98	9.04	10.14	11.27	12.41		13.66	1 / 8			
	reaction time	0.183																		
	interval																			
	velocity				4.85	8.02	8.25	7.94	7.94	7.94	8.02	7.73	7.52	7.46	8.04	7.32		3.16	3.20	3.37

## Heat 3

		date	29-Jun-24	wind	-0.4 m/s										Shandong Athletics Sport Science (2024)					
					H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Chen Yinfeng (CHN) (1998)</b>	time				2.72	3.82	4.87	5.92	6.99	8.04	9.12	10.19	11.29	12.39		13.56	5 / 1			
	reaction time	0.177																		
	interval																			
	velocity				4.78	7.73	8.10	8.10	7.94	8.10	7.87	7.94	7.73	7.73	8.59	7.37		3.20	3.20	3.27
<b>Gao Yirong (CHN) (2004)</b>	time				2.67	3.76	4.82	5.88	6.92	7.97	9.04	10.11	11.21	12.33		13.60	8 / 2			
	reaction time	0.160																		
	interval																			
	velocity				4.87	7.80	8.02	8.02	8.17	8.10	7.94	7.94	7.73	7.59	7.91	7.35		3.21	3.16	3.29
<b>Xia Sining (CHN) (2003)</b>	time				2.77	3.87	4.94	6.00	7.06	8.12	9.18	10.26	11.32	12.44		13.66	7 / 3			

reaction time	0.148	interval	1.10	1.07	1.06	1.06	1.06	1.06	1.08	1.06	1.12	1.22		3.23	3.18	3.26	
		velocity	4.69	7.73	7.94	8.02	8.02	8.02	8.02	7.87	8.02	7.59	8.24	7.32	7.89	8.02	7.82

## Heat 2

date 29-Jun-24 wind -0.5 m/s Shandong Athletics Sport Science (2024)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Lin Yuwei (CHN) (1999)</b>	time	2.65	3.71	4.76	5.80	6.82	7.86	8.89	9.94	10.99	12.06		13.26	5 / 1			
	reaction time	0.157	interval	1.06	1.05	1.04	1.02	1.04	1.03	1.05	1.05	1.07	1.20		3.15	3.09	3.17
		velocity	4.91	8.02	8.10	8.17	8.33	8.17	8.25	8.10	8.10	7.94	8.38	7.54	8.10	8.25	8.04
<b>Chen Jiamin (CHN) (1996)</b>	time	2.75	3.80	4.87	5.91	6.97	8.02	9.09	10.15	11.24	12.33		13.53	7 / 2			
	reaction time	0.179	interval	1.05	1.07	1.04	1.06	1.05	1.07	1.06	1.09	1.09	1.20		3.16	3.18	3.24
		velocity	4.73	8.10	7.94	8.17	8.02	8.10	7.94	8.02	7.80	7.80	8.38	7.39	8.07	8.02	7.87

## Heat 1

date 29-Jun-24 wind 0.0 m/s Shandong Athletics Sport Science (2024)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Wu Yanni (CHN) (1997)</b>	time	2.67	3.72	4.74	5.74	6.73	7.74	8.75	9.77	10.81	11.87		13.06	7 / 1			
	reaction time	0.186	interval	1.05	1.02	1.00	0.99	1.01	1.01	1.02	1.04	1.06	1.19		3.07	3.01	3.12
		velocity	4.87	8.10	8.33	8.50	8.59	8.42	8.42	8.33	8.17	8.02	8.45	7.66	8.31	8.47	8.17
<b>Dong Jiaxin (CHN) (2004)</b>	time	2.69	3.76	4.80	5.84	6.88	7.94	9.02	10.10	11.22	12.35		13.62	3 / 2			
	reaction time	0.162	interval	1.07	1.04	1.04	1.04	1.06	1.08	1.08	1.12	1.13	1.27		3.15	3.18	3.33
		velocity	4.83	7.94	8.17	8.17	8.17	8.02	7.87	7.87	7.59	7.52	7.91	7.34	8.10	8.02	7.66
<b>Gong Qiudan (CHN) (2003)</b>	time	2.72	3.82	4.92	6.00	7.07	8.14	9.23	10.36	11.46	12.58		13.75	5 / 3			
	reaction time	0.175	interval	1.10	1.10	1.08	1.07	1.07	1.09	1.13	1.10	1.12	1.17		3.28	3.23	3.35
		velocity	4.78	7.73	7.73	7.87	7.94	7.94	7.80	7.52	7.73	7.59	8.59	7.27	7.77	7.89	7.61

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

## FINAL

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	
<b>Nugent, Ackera (JAM) (2002)</b>	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	
<b>Williams, Danielle (JAM) (1992)</b>	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	
<b>Brown, Janeek (JAM) (1998)</b>	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 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		
<b>Stark, Grace (USA) (2001)</b>	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		
<b>Caicedo, Maribel (ECU) (1998)</b>	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	1.10			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		
<b>Jones, Rayniah (USA) (2001)</b>	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		
<b>Jones, Jasmine (USA) (2001)</b>	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		
<b>Huven, Destiny (USA) (2001)</b>	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		
<b>Laurencin, Aasia (USA) (2002)</b>	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		
<b>de Mello, Micaela (BRA) (2000)</b>	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		
<b>Smith, Jalaysiya (USA) (2003)</b>	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		



<b>Webster, Alexandra (USA) (20)</b>	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

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
<b>Samba-Mayela, Cyréna (FRA)</b>	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	interval	0.150	1.00	0.98	0.94	0.96	0.92	0.96	0.96	0.97	0.99	1.09	<b>NR PB</b>		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
<b>Kambundji, Ditaji (SUI) (2002)</b>	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	interval	0.159	1.00	0.97	0.97	0.97	0.92	0.97	0.94	0.99	1.03	1.12	<b>NR PB</b>		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
<b>Skrzyszowska, Pia (POL) (2001)</b>	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	interval	0.151	0.99	0.97	0.96	0.98	0.93	0.96	0.97	0.98	1.00	1.14	<b>PB</b>		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
<b>Sember, Cindy (GBR) (1994)</b>	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	interval	0.175	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
<b>Visser, Nadine (NED) (1995)</b>	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	interval	0.150	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	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
<b>Hurske, Reetta (FIN) (1995)</b>	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	interval	0.145	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
<b>Lavin, Sarah (IRL) (1994)</b>	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	interval	0.141	1.10	1.06	1.02	1.00	1.00	1.00	1.00	1.01	1.01	1.17			3.18	3.00	3.02
	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
<b>Forster, Viktória (SVK) (2002)</b>	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	interval	0.173	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
<b>Bessho, Miyu (JPN) (2007)</b>	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
<b>Konoha, Nishio (JPN)</b>	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
<b>Akane, Ishikawa (JPN)</b>	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
<b>Nakahara, Sana (JPN)</b>	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
<b>Kato, Rina (JPN)</b>	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
<b>Yoshiho, Ichikawa (JPN)</b>	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
<b>Takahashi, Aoi (JPN)</b>	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
<b>Nakamura, Mikoto (JPN)</b>	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
<b>Samba-Mayela, Cyréna (FRA)</b>	time	2.44	3.46	4.45	5.41	6.36	7.33	8.30	9.29	10.28	11.30		12.52	8 / 1			
	reaction time	0.132	interval	1.02	0.99	0.96	0.95	0.97	0.97	0.99	0.99	1.02	1.22	<b>=NR =PB</b>	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
<b>Camacho-Quinn, Jasmine (PU)</b>	time	2.47	3.53	4.51	5.49	6.44	7.40	8.36	9.34	10.32	11.32		12.54	6 / 2			
	reaction time	0.148	interval	1.06	0.98	0.98	0.95	0.96	0.96	0.98	0.98	1.00	1.22		3.02	2.87	2.96
	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
<b>Marshall, Tonea (USA) (1998)</b>	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
<b>Charlton, Devynne (BAH) (1994)</b>	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
<b>Johnson, Alaysha (USA) (1994)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	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
<b>Sember, Cindy (GBR) (1994)</b>	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	0.97	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
<b>Ali, Nia (USA) (1988)</b>	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	1.26			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
<b>Russell, Masai (USA) (2000)</b>	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
<b>Kambundji, Ditaji (SUI) (2002)</b>	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
<b>Marshall, Tonea (USA) (1998)</b>	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	1.16			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
<b>Skrzyszowska, Pia (POL) (2001)</b>	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
<b>Hughes, Amber (USA) (1994)</b>	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		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
<b>Lavin, Sarah (IRL) (1994)</b>	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
<b>Johnson, Alaysha (USA) (1994)</b>	time	2.64	3.90	5.07	6.17	7.24	8.27	9.27	10.27		12.34		13.55	4 / <del>6</del>			<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	<b>DQ</b>		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
<b>Bomme, Emma Beiter (DEN) (1994)</b>	time	2.67	3.77	4.84	5.90	6.97	8.00	9.07	10.14	11.24	12.31		14.03	1 / <del>7</del> 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
<b>McLaughlin-Levrone, Sydney</b>	time	2.55	3.58	4.58	5.56	6.53	7.53	8.51	9.52	10.53	11.53		12.71	4 / 1			
	reaction time	interval	7 steps	1.03	1.00	0.98	0.97	1.00	0.98	1.01	1.01	1.00	1.18		3.01	2.95	3.02
	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

<b>Jones, Jasmine (USA) (2001)</b>	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
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.55	3.57	4.57	5.54	6.51	7.46	8.46	9.44	10.47	11.51		12.61	6 / <del>4</del>	<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		
<b>Camacho-Quinn, Jasmine (PU)</b>	time	2.53	3.57	4.57	5.55	6.50	7.46	8.42	9.40	10.41	11.44		12.63	5 / <del>2</del> 1		3.02	2.87	3.02	
	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		8.44	8.89	8.44		
		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					
<b>Charlton, Devynne (BAH) (199)</b>	time	2.50	3.50	4.48	5.45	6.42	7.39	8.38	9.39	10.41	11.44		12.64	4 / <del>3</del> 2		2.95	2.93	3.06	
	reaction time	0.136	interval	1.00	0.98	0.97	0.97	0.97	0.99	1.01	1.02	1.03	1.20		8.64	8.70	8.33		
		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					
<b>Williams, Danielle (JAM) (1992)</b>	time	2.50	3.54	4.52	5.50	6.47	7.45	8.45	9.45	10.47	11.52		12.74	3 / <del>4</del> 3		3.00	2.95	3.07	
	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		8.50	8.64	8.31		
		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					
<b>Russell, Masai (USA) (2000)</b>	time	2.53	3.57	4.59	5.59	6.57	7.55	8.53	9.53	10.55	11.58		12.76	7 / <del>5</del> 4		3.06	2.94	3.05	
	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		8.33	8.67	8.36		
		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					
<b>Johnson, Alaysha (USA) (199)</b>	time	2.62	3.67	4.67	5.64	6.61	7.61	8.58	9.55	10.56	11.61		12.78	1 / <del>6</del> 5		3.02	2.94	3.03	
	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		8.44	8.67	8.42		
		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					
<b>Kambundji, Ditaji (SUI) (2002)</b>	time	2.55	3.61	4.61	5.59	6.57	7.55	8.54	9.54	10.56	11.62		12.81	2 / <del>7</del> 6		3.04	2.95	3.08	
	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		8.39	8.64	8.28		
		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					
<b>Tapper, Megan (JAM) (1994)</b>	time	2.57	3.61	4.61	5.57	6.54	7.54	8.56	9.58	10.61	11.64		12.83	8 / <del>8</del> 7		3.00	2.99	3.08	
	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		8.50	8.53	8.28		
		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					
<b>Wu Yanni (CHN) (1997)</b>	time	2.64	3.67	4.71	5.71	6.74	7.74	8.76	9.78	10.84	11.91		13.15	9 / <del>9</del> 8		3.07	3.05	3.15	
	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		8.31	8.36	8.10		
		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					

**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
<b>Camacho-Quinn, Jasmine (PU)</b>	time	2.46	3.50	4.49	5.45	6.41	7.36	8.31	9.27	10.25	11.23		12.45	5 / 1					
	reaction time	0.163	interval	1.04	0.99	0.96	0.96	0.95	0.95	0.96	0.98	0.98	1.22		8.03	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		
<b>Charlton, Devynne (BAH) (199)</b>	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		2.97	2.88	2.99	
	reaction time	0.144	interval	1.02	0.98	0.97	0.96	0.95	0.97	0.98	1.01	1.00	1.26		8.01	8.59	8.85	8.53	
		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					
<b>Samba-Mayela, Cyréna (FRA)</b>	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		2.99	2.90	2.95	
	reaction time	0.141	interval	1.03	0.99	0.97	0.97	0.96	0.97	0.98	0.97	1.00	1.27	NR PB	2.99	2.90	2.95		
		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		
<b>Williams, Danielle (JAM) (1992)</b>	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		2.99	2.87	3.03	
	reaction time	0.142	interval	1.03	0.99	0.97	0.96	0.95	0.96	0.99	1.01	1.03	1.25		8.53	8.89	8.42		
		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					
<b>Amusan, Tobi (NGR) (1997)</b>	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		3.00	2.88	2.99	
	reaction time	0.148	interval	1.03	1.00	0.97	0.97	0.96	0.95	0.98	1.00	1.01	1.23		8.50	8.85	8.53		
		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					
<b>Russell, Masai (USA) (2000)</b>	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		3.06	2.95	2.99	
	reaction time	0.155	interval	1.05	1.01	1.00	0.98	0.98	0.99	0.99	1.00	1.00	1.23		8.33	8.64	8.53		
		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					
<b>Kambundji, Ditaji (SUI) (2002)</b>	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		3.03	2.94	2.99	
	reaction time	0.152	interval	1.03	1.02	0.98	0.99	0.97	0.98	0.98	0.99	1.02	1.26		8.42	8.67	8.53		
		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					
<b>Tapper, Megan (JAM) (1994)</b>	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		3.05	2.99	3.09	
	reaction time	0.144	interval	1.05	1.00	1.00	0.99	1.00	1.00	1.02	1.02	1.05	1.30						

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



	velocity	5.31	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
<b>Johnson, Alaysha (USA) (1996)</b>	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	1.06	1.02	1.00	1.00	0.98	0.97	1.01	1.08	1.09	1.31			3.08	2.95	3.18
	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
<b>Wu Yanni (CHN) (1997)</b>	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	1.06	1.02	1.01	0.99	1.01	1.01	1.02	1.03	1.05	1.30			3.09	3.01	3.10
	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	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Charlton, Devynne (BAH) (1996)</b>	time	2.50	3.48	4.48	5.42	6.35		7.65	4 / 1			
	reaction time	0.152	0.98	1.00	0.94	0.93	1.30	<b>WR</b>		2.92		
	velocity	5.20	8.67	8.50	9.04	9.14	10.00	7.84		8.73		
<b>Samba-Mayela, Cyréna (FRA)</b>	time	2.52	3.52	4.52	5.50	6.45		7.74	5 / 2			
	reaction time	0.141	1.00	1.00	0.98	0.95	1.29			2.98		
	velocity	5.16	8.50	8.50	8.67	8.95	10.08	7.75		8.56		
<b>Skrzyszowska, Pia (POL) (2001)</b>	time	2.56	3.56	4.54	5.54	6.52		7.79	6 / 3			
	reaction time	0.142	1.00	0.98	1.00	0.98	1.27			2.98		
	velocity	5.08	8.50	8.67	8.50	8.67	10.24	7.70		8.56		
<b>Russell, Masai (USA) (2001)</b>	time	2.54	3.58	4.56	5.54	6.52		7.81	3 / 4			
	reaction time	0.142	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		
<b>Lavin, Sarah (IRL) (1994)</b>	time	2.63	3.65	4.65	5.64	6.64		7.91	7 / 5			
	reaction time	0.129	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		
<b>Taylor, Charisma (BAH) (1999)</b>	time	2.60	3.60	4.58	5.62	6.58		7.92	2 / 6			
	reaction time	0.139	7 Steps	1.00	0.98	1.04	1.34			3.02		
	velocity	5.00	8.50	8.67	8.17	8.85	9.70	7.58		8.44		
<b>Sember, Cindy (GBR) (1994)</b>	time	2.60	3.65	4.65	5.62	6.60		7.92	8 / 7			
	reaction time	0.164	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		
<b>Kozak, Luca (HUN) (1996)</b>	time	2.62	3.67	4.68	5.70	6.68		8.01	1 / 8			
	reaction time	0.150	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	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Charlton, Devynne (BAH) (1996)</b>	time	2.56	3.58	4.58	5.56	6.54		7.93	6 / 1			
	reaction time	0.181	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		
<b>Benach, Xénia (ESP) (2000)</b>	time	2.60	3.66	4.66	5.66	6.70		8.08	7 / 2			
	reaction time	0.124	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		
<b>Graversgaard, Mette (DEN) (1981)</b>	time	2.58	3.64	4.66	5.66	6.70		8.10	5 / 3			
	reaction time	0.152	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		
<b>Forster, Viktória (SVK) (2002)</b>	time	2.60	3.70	4.70	5.74	6.76		8.10	4 / 4			
	reaction time	0.145	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 Chinese Indoor Grand Prix I (Chengdu, CHN)

### Race 1

date 27-Feb-24

Shandong Athletics Sport Science (2024)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Liu Jingyang (CHN) (1997)</b>	time	2.67	3.74	4.79	5.84	6.89		8.32	4 / 1			
	reaction time		1.07	1.05	1.05	1.05	1.43			3.17		
	velocity	4.87	7.94	8.10	8.10	8.10	9.09	12.02		8.04		

## 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	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Charlton, Devynne (BAH) (1996)</b>	time	2.47	3.47	4.43	5.39	6.34		7.68	4 / 1			
	reaction time	0.139	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		

<b>Visser, Nadine (NED) (1995)</b>	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
<b>Skrzyszowska, Pia (POL) (2001)</b>	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
<b>Lavin, Sarah (IRL) (1994)</b>	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
<b>Hurske, Reetta (FIN) (1995)</b>	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
<b>Kozak, Luca (HUN) (1996)</b>	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
<b>Graversgaard, Mette (DEN) (1991)</b>	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
<b>Jones, Cortney (USA) (1999)</b>	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	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Jones, Tia (USA) (2000)</b>	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		8.82		
<b>Jones, Jasmine (USA) (2001)</b>	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	<b>PB</b>	2.96		
	velocity	5.14	8.50	8.59	8.76	8.76		9.77		8.61		
<b>Russell, Masai (USA) (2000)</b>	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		8.47		
<b>Clemons, Christina (USA) (1991)</b>	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		8.50		
<b>Hughes, Amber (USA) (1994)</b>	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		8.53		
<b>Bonds, Talie (USA) (1998)</b>	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		8.36		
<b>Jones, Cortney (USA) (1999)</b>	time	2.67	3.71	4.72	5.74	6.74			8 / --			
	reaction time		interval	1.04	1.01	1.02	1.00		<b>DQ</b>	3.07		
	velocity	4.87	8.17	8.42	8.33	8.50				8.31		
<b>Johnson, Alaysha (USA) (1991)</b>	time	2.64	3.64	4.64	5.61	6.61			5 / --			
	reaction time		interval	1.00	1.00	0.97	1.00		<b>DQ</b>	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	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Jones, Tia (USA) (2000)</b>	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	<b>=WR</b>	2.90		
	velocity	5.20	8.50	8.95	8.95	8.85		9.92		8.79		
<b>Jones, Jasmine (USA) (2001)</b>	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	<b>PB</b>	2.99		
	velocity	5.10	8.33	8.59	8.67	8.67		10.00		8.53		
<b>Clemons, Christina (USA) (1991)</b>	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
<b>Hughes, Amber (USA) (1994)</b>	time	2.65	3.68	4.68	5.64	6.62			7.98	5 / 4	
	reaction time	0.168	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
<b>Jones, Cortney (USA) (1999)</b>	time	2.64	3.67	4.67	5.67	6.67			8.02	4 / 5	
	reaction time	0.143	1.03	1.00	1.00	1.00		1.35	<b>=PB</b>		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		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Charlton, Devynne (BAH) (1995)</b>	time	2.48	3.48	4.46	5.40	6.34			7.67	4 / 1			
	reaction time	0.168	1.00	0.98	0.94	0.94		1.33	<b>WR</b>			2.92	
	velocity	5.24	8.50	8.67	9.04	9.04		9.77	7.82			8.73	
<b>Williams, Danielle (JAM) (1992)</b>	time	2.52	3.54	4.52	5.50	6.46			7.79	5 / 2			
	reaction time	0.127	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	
<b>Jones, Tia (USA) (2000)</b>	time	2.50	3.50	4.52	5.48	6.44			7.79	6 / 3			
	reaction time	0.181	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	
<b>Nugent, Ackera (JAM) (2002)</b>	time	2.52	3.52	4.52	5.50	6.46			7.80	7 / 4			
	reaction time	0.168	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	
<b>Sember, Cindy (GBR) (1994)</b>	time	2.58	3.60	4.60	5.58	6.56			7.91	1 / 5			
	reaction time	0.170	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	
<b>Ali, Nia (USA) (1988)</b>	time	2.54	3.58	4.60	5.58	6.56			7.95	3 / 6			
	reaction time	0.174	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	
<b>Tapper, Megan (JAM) (1994)</b>	time	2.60	3.60	4.62	5.60	6.56			7.98	8 / 7			
	reaction time	0.190	1.00	1.02	0.98	0.96		1.42	<b>PB</b>			3.00	
	velocity	5.00	8.50	8.33	8.67	8.85		9.15	7.52			8.50	
<b>Nelvis, Sharika (USA) (1990)</b>	time	2.58	3.62	4.64	5.64	6.64			8.05	2 / 8			
	reaction time	0.173	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	
<b>Samuel, Aleesa (USA) (2007)</b>	time	2.58	3.64	4.70	5.74	6.82			8.26	9 / 9			
	reaction time	0.202	1.06	1.06	1.04	1.08		1.44	<b>PB</b>			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		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Jones, Tia (USA) (2000)</b>	time	2.50	3.50	4.48	5.46	6.42			7.72	3 / 1			
	reaction time	0.153	1.00	0.98	0.98	0.96		1.30	<b>PB</b>			2.96	
	velocity	5.20	8.50	8.67	8.67	8.85		10.00	7.77			8.61	
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.48	3.50	4.48	5.46	6.43			7.75	4 / 2			
	reaction time	0.147	1.02	0.98	0.98	0.97		1.32	<b>NR</b>			2.98	
	velocity	5.24	8.33	8.67	8.67	8.76		9.85	7.74			8.56	
<b>Charlton, Devynne (BAH) (1995)</b>	time	2.48	3.49	4.48	5.46	6.43			7.76	5 / 3			
	reaction time	0.167	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	
<b>Russell, Masai (USA) (2001)</b>	time	2.50	3.52	4.52	5.50	6.48			7.84	6 / 4			
	reaction time	0.174	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	
<b>Clemons, Christina (USA) (1991)</b>	time	2.53	3.55	4.55	5.54	6.52			7.94	8 / 5			
	reaction time	0.182	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	
<b>Sember, Cindy (GBR) (1994)</b>	time	2.55	3.62	4.62	5.62	6.62			8.00	2 / 5			
	reaction time	0.490	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	



<b>Tapper, Megan (JAM) (1994)</b>	time	2.55	3.60	4.62	5.62	6.58							8.02	7 / 7			
	reaction time	0.189											1.44	<b>PB</b>			3.07
	velocity	5.10	8.10	8.33	8.50	8.85							9.03	7.48			8.31
<b>Abdul-Rashid, Mariam (CAN)</b>	time	2.55	3.57	4.57	5.60	6.62							8.06	1 / 8			
	reaction time	0.125											1.44	<b>PB</b>			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						Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Charlton, Devynne (BAH) (1997)</b>	time	2.36	3.40	4.38	5.38	6.38							7.75	4 / 1			
	reaction time											1.37	<b>NR PB</b>				3.02
	interval		1.04	0.98	1.00	1.00											
	velocity	5.51	8.17	8.67	8.50	8.50						9.49	7.74				8.44
<b>Jones, Tia (USA) (2000)</b>	time	2.46	3.50	4.52	5.52	6.54							7.80	5 / 2			
	reaction time											1.26	<b>PB</b>				3.06
	interval		1.04	1.02	1.00	1.02											
	velocity	5.28	8.17	8.33	8.50	8.33						10.32	7.69				8.33
<b>Russell, Masai (USA) (2001)</b>	time	2.46	3.48	4.52	5.52	6.54							7.88	3 / 3			
	reaction time											1.34					3.06
	interval		1.02	1.04	1.00	1.02											
	velocity	5.28	8.33	8.17	8.50	8.33						9.70	7.61				8.33
<b>Clemons, Christina (USA) (1997)</b>	time	2.50	3.54	4.58	5.58	6.58							7.89	2 / 4			
	reaction time											1.31					3.08
	interval		1.04	1.04	1.00	1.00											
	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
<b>Amusan, Tobi (NGR) (1997)</b>	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										1.24					2.95
	interval		1.02	0.97	0.96	0.93	0.94	0.94	0.96	0.96	0.99						2.81
	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				2.91
<b>Camacho-Quinn, Jasmine (PU)</b>	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										1.23					2.96
	interval		1.02	0.99	0.95	0.94	0.94	0.95	0.96	0.97	0.98						2.83
	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				2.91
<b>Harrison, Kendra (USA) (1992)</b>	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										1.24					2.97
	interval		1.03	0.99	0.95	0.95	0.94	0.97	0.96	0.98	0.98						2.86
	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				2.92
<b>Williams, Danielle (JAM) (1992)</b>	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										1.24					2.99
	interval		1.03	0.99	0.97	0.96	0.95	0.96	0.98	0.98	1.00						2.87
	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				2.96
<b>Tapper, Megan (JAM) (1994)</b>	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										1.24					2.99
	interval		1.04	0.99	0.96	0.95	0.95	0.96	0.97	0.99	1.00						2.86
	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				2.96
<b>Johnson, Alaysha (USA) (1999)</b>	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										1.22					3.01
	interval		1.05	0.99	0.97	0.96	0.97	0.97	0.97	0.96	0.99						2.90
	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				2.92
<b>Ali, Nia (USA) (1988)</b>	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										1.26					3.01
	interval		1.04	0.99	0.98	0.97	0.97	0.97	0.99	1.00	1.01						2.91
	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				3.00
<b>Skrzyszowska, Pia (POL) (2001)</b>	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										1.27					3.07
	interval		1.05	1.02	1.00	0.99	0.98	0.99	1.00	1.01	1.03						2.96
	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				3.04
<b>Jones, Tia (USA) (2000)</b>	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										1.40					3.02
	interval		1.04	1.00	0.98	0.97	0.97	0.98	1.00	1.01	1.02						2.92
	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				3.03

**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
<b>Lin Yuwei (CHN) (1999)</b>	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										1.18					3.07
	interval		1.04	1.03	1.00	1.00	0.99	1.02	1.02	1.05	1.07						3.01
	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				3.14
<b>Xia Sining (CHN) (2003)</b>	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										1.15					3.14
	interval		1.07	1.05	1.02	1.03	1.03	1.02	1.02	1.06	1.04						3.08
	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				3.12

<b>Luo Xianyan (CHN) (1997)</b>	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	1.10	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
<b>Zheng Ninali (CHN) (1998)</b>	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
<b>Jiang Liyunzhe (CHN) (2002)</b>	time	2.70	3.78	4.87	5.92	7.00	8.06	9.12	10.21	11.27	12.35		13.54	4 / 5				
reaction time	0.155	interval	1.08	1.09	1.05	1.08	1.06	1.06	1.09	1.06	1.08	1.19			3.22	3.20	3.23	
		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
<b>Gao Yirong (CHN) (2004)</b>	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
<b>Chen Yanqi (CHN) (2006)</b>	time	2.67	3.77	4.83	5.90	6.97	8.04	9.14	10.24	11.37	12.48		13.74	9 / 7				
reaction time	0.154	interval	1.10	1.06	1.07	1.07	1.07	1.10	1.10	1.13	1.11	1.26	<b>PB</b>		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
<b>Wu Binbin (CHN) (2006)</b>	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	
<b>Williams, Danielle (JAM) (1992)</b>	time		2.37	3.40	4.38	5.35	6.32	7.29	8.27	9.27	10.28	11.30		12.54	3 / 1				
reaction time	0.122	interval		1.03	0.98	0.97	0.97	0.97	0.98	1.00	1.01	1.02	1.24			2.98	2.92	3.03	
		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	
<b>Johnson, Alaysha (USA) (1991)</b>	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	
<b>Harrison, Kendra (USA) (1992)</b>	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	
<b>Jones, Tia (USA) (2000)</b>	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	
<b>Tapper, Megan (JAM) (1994)</b>	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	
<b>Kambundji, Ditaji (SUI) (2002)</b>	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	
<b>Ali, Nia (USA) (1988)</b>	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	
<b>Charlton, Devynne (BAH) (1991)</b>	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	
<b>Skrzyszowska, Pia (POL) (2001)</b>	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											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	
<b>Williams, Danielle (JAM) (1992)</b>	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	8.59	8.42	9.05	8.05		8.73	8.85	8.53	
<b>Camacho-Quinn, Jasmine (PU)</b>	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	
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Charlton, Devynne (BAH) (1995)</b>	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
<b>Nugent, Ackera (JAM) (2002)</b>	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	8.76	8.59	8.17	8.25	8.97	7.93	8.61	8.79	8.33
<b>Amusan, Tobi (NGR) (1997)</b>	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
<b>Kambundji, Ditaji (SUI) (2002)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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 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
<b>Camacho-Quinn, Jasmine (PU)</b>	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	
<b>Ali, Nia (USA) (1988)</b>	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	
<b>Williams, Danielle (JAM) (1992)</b>	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	
<b>Skrzysowska, Pia (POL) (2001)</b>	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	
<b>Jenneke, Michelle (AUS) (1993)</b>	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	
<b>Fourie, Marione (RSA) (2002)</b>	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	
<b>Graversgaard, Mette (DEN) (1995)</b>	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	
<b>Harrison, Michelle (CAN) (1999)</b>	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
<b>Amusan, Tobi (NGR) (1997)</b>	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	8.33	8.33	8.82	7.96	8.64	8.73	8.44	
<b>Nugent, Ackera (JAM) (2002)</b>	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	
<b>Visser, Nadine (NED) (1995)</b>	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	
<b>Kozák, Luca (HUN) (1996)</b>	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	
<b>Samba-Mayela, Cyréna (FRA) (2002)</b>	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
<b>Mucci, Celeste (AUS) (1999)</b>	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	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
<b>Hurske, Reetta (FIN) (1995)</b>	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	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
<b>Russell, Masai (USA) (2000)</b>	time	2.46	3.48	4.57	5.84	7.05							dnf	4 / --			
	reaction time	0.152	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 Analysis)

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
<b>Harrison, Kendra (USA) (1992)</b>	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	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
<b>Charlton, Devynne (BAH) (1994)</b>	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	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
<b>Kambundji, Ditaji (SUI) (2002)</b>	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	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
<b>Tapper, Megan (JAM) (1994)</b>	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	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
<b>Lavin, Sarah (IRL) (1994)</b>	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	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
<b>Sember, Cindy (GBR) (1994)</b>	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	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
<b>Tjin-A-Lim, Maayke (NED) (1994)</b>	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	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
<b>Christofi, Natalia (CYP) (1997)</b>	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	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
<b>Amusan, Tobi (NGR) (1997)</b>	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	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
<b>Tapper, Megan (JAM) (1994)</b>	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	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
<b>Jenneke, Michelle (AUS) (1993)</b>	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	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
<b>Christofi, Natalia (CYP) (1997)</b>	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	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
<b>Tjin-A-Lim, Maayke (NED) (1994)</b>	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	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
<b>Tanaka, Yumi (JPN) (1998)</b>	time	2.68	3.72	4.74	5.73	6.74	7.76	8.80	9.81	10.90	11.97		13.12	6 / 7			
	reaction time	0.196	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

<b>Camacho-Quinn, Jasmine (PU)</b>	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	8.50	8.74	8.00		8.53	8.82	8.64
<b>Visser, Nadine (NED) (1995)</b>	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
<b>Kambundji, Ditaji (SUI) (2002)</b>	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
<b>Mucci, Celeste (AUS) (1999)</b>	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	
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Charlton, Devynne (BAH) (1992)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	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
<b>Sember, Cindy (GBR) (1994)</b>	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
<b>Hurske, Reetta (FIN) (1995)</b>	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	
<b>Ali, Nia (USA) (1988)</b>	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
<b>Skrzyszowska, Pia (POL) (2001)</b>	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	8.59	8.50	8.50	8.59	8.89	7.91		8.44	8.64	8.53	
<b>Fourie, Marione (RSA) (2002)</b>	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
<b>Kozák, Luca (HUN) (1996)</b>	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
<b>Terada, Asuka (JPN) (1990)</b>	time	2.62	3.67	4.71	5.73	6.75	7.77	8.80	9.85	10.90	11.99		13.15	1 / 6				
reaction time	0.153	interval	1.05	1.04	1.02	1.02	1.02	1.03	1.05	1.05	1.09	1.16			3.11	3.07	3.19	
		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	
<b>Nugent, Ackera (JAM) (2002)</b>	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
<b>Russell, Masai (USA) (2000)</b>	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
<b>Lavin, Sarah (IRL) (1994)</b>	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
<b>Samba-Mayela, Cyréna (FRA)</b>	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	
<b>Graversgaard, Mette (DEN) (1981)</b>	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
<b>Harrison, Michelle (CAN) (1999)</b>	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
<b>Aoki, Masumi (JPN) (1994)</b>	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		<i>Kishima (2024)</i>	
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

## Heptathlon - Heat 3

date 19-Aug-23 wind 0.4 m/s Henson (2024) - 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
<b>Brooks, Taliyah (USA) (1995)</b>	time	2.62	3.62	4.63	5.62	6.62	7.62	8.62	9.62	10.64	11.66	12.78	8 / 1				
reaction time	0.177	interval	7 steps	1.00	1.01	0.99	1.00	1.00	1.00	1.02	1.02	1.12			3.00	3.00	3.04
velocity	4.96	8.50	8.42	8.59	8.50	8.50	8.50	8.50	8.33	8.33	8.97	7.82		8.50	8.50	8.39	
<b>Hall, Anna (USA) (2001)</b>	time	2.68	3.70	4.68	5.68	6.68	7.67	8.70	9.70	10.73	11.83	12.97	5 / 2				
reaction time	0.187	interval	7 steps	1.02	0.98	1.00	1.00	0.99	1.03	1.00	1.03	1.10	1.14		3.00	3.02	3.13
velocity	4.85	8.33	8.67	8.50	8.50	8.59	8.25	8.50	8.25	7.73	8.82	7.71		8.50	8.44	8.15	
<b>Hawkins, Chari (USA) (1991)</b>	time	2.65	3.70	4.70	5.70	6.70	7.70	8.72	9.74	10.80	11.86	13.04	7 / 3				
reaction time	0.168	interval	1.05	1.00	1.00	1.00	1.00	1.02	1.02	1.06	1.06	1.18	PB		3.05	3.02	3.14
velocity	4.91	8.10	8.50	8.50	8.50	8.50	8.33	8.33	8.02	8.02	8.52	7.67		8.36	8.44	8.12	
<b>Turpin, Esther (FRA) (1996)</b>	time	2.70	3.73	4.75	5.75	6.80	7.83	8.85	9.90	10.96	12.08	13.24	3 / 4				
reaction time	0.172	interval	1.03	1.02	1.00	1.05	1.03	1.02	1.05	1.06	1.12	1.16			3.05	3.10	3.23
velocity	4.81	8.25	8.33	8.50	8.10	8.25	8.33	8.10	8.02	7.59	8.66	7.55		8.36	8.23	7.89	
<b>Vetter, Anouk (NED) (1993)</b>	time	2.68	3.73	4.76	5.82	6.87	7.91	8.95	10.02	11.12	12.25	13.42	4 / 5				
reaction time	0.153	interval	1.05	1.03	1.06	1.05	1.04	1.04	1.07	1.10	1.13	1.17			3.14	3.13	3.30
velocity	4.85	8.10	8.25	8.02	8.10	8.17	8.17	7.94	7.73	7.52	8.59	7.45		8.12	8.15	7.73	
<b>Johnson-Thompson, Katarina</b>	time	2.75	3.83	4.87	5.92	6.95	8.02	9.07	10.13	11.25	12.33	13.50	6 / 6				
reaction time	0.185	interval	7 steps	1.08	1.04	1.05	1.03	1.07	1.05	1.06	1.12	1.08	1.17		3.17	3.15	3.26
velocity	4.73	7.87	8.17	8.10	8.25	7.94	8.10	8.02	7.59	7.87	8.59	7.41		8.04	8.10	7.82	
<b>Schäfer, Carolin (GER) (1991)</b>	time	2.82	3.88	4.93	5.97	7.05	8.08	9.14	10.21	11.32	12.42	13.60	9 / 7				
reaction time	0.151	interval	1.06	1.05	1.04	1.08	1.03	1.06	1.07	1.11	1.10	1.18			3.15	3.17	3.28
velocity	4.61	8.02	8.10	8.17	7.87	8.25	8.02	7.94	7.66	7.73	8.52	7.35		8.10	8.04	7.77	
<b>Vanninen, Saga (FIN) (2003)</b>	time	2.68	3.75	4.84	5.89	6.95	8.02	9.08	10.20	11.28	12.42	13.62	2 / 8				
reaction time	0.161	interval	1.07	1.09	1.05	1.06	1.07	1.06	1.12	1.08	1.14	1.20			3.21	3.19	3.34
velocity	4.85	7.94	7.80	8.10	8.02	7.94	8.02	7.59	7.87	7.46	8.38	7.34		7.94	7.99	7.63	

## Heptathlon - Heat 2

date 19-Aug-23 wind -0.2 m/s Henson (2024) - 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
<b>Kälin, Annik (SUI) (2000)</b>	time	2.55	3.60	4.65	5.68	6.71	7.75	8.80	9.88	10.95	12.08	13.36	6 / 1				
reaction time	0.169	interval	1.05	1.05	1.03	1.03	1.04	1.05	1.08	1.07	1.13	1.28			3.13	3.12	3.28
velocity	5.10	8.10	8.10	8.25	8.25	8.17	8.10	7.87	7.94	7.52	7.85	7.49		8.15	8.17	7.77	
<b>Oosterwegel, Emma (NED) (1991)</b>	time	2.73	3.80	4.86	5.90	6.92	7.94	8.96	10.02	11.08	12.14	13.38	5 / 2				
reaction time	0.181	interval	1.07	1.06	1.04	1.02	1.02	1.02	1.06	1.06	1.06	1.24			3.17	3.06	3.18
velocity	4.76	7.94	8.02	8.17	8.33	8.33	8.33	8.02	8.02	8.02	8.10	7.47		8.04	8.33	8.02	
<b>Cambours, Léonie (FRA) (2000)</b>	time	2.72	3.78	4.87	5.91	6.94	7.98	9.06	10.12	11.18	12.32	13.56	2 / 3				
reaction time	0.180	interval	1.06	1.09	1.04	1.03	1.04	1.08	1.06	1.06	1.14	1.24			3.19	3.15	3.26
velocity	4.78	8.02	7.80	8.17	8.25	8.17	7.87	8.02	8.02	7.46	8.10	7.37		7.99	8.10	7.82	
<b>Weißenberg, Sophie (GER) (1991)</b>	time	2.73	3.78	4.87	5.91	6.94	7.98	9.06	10.14	11.24	12.32	13.58	3 / 4				
reaction time	0.182	interval	7 steps	1.05	1.09	1.04	1.03	1.04	1.08	1.08	1.10	1.08	1.26		3.18	3.15	3.26
velocity	4.76	8.10	7.80	8.17	8.25	8.17	7.87	7.87	7.73	7.87	7.98	7.36		8.02	8.10	7.82	
<b>Lazraq-Khlass, Auriana (FRA) (1991)</b>	time	2.70	3.75	4.80	5.88	6.90	7.95	9.08	10.15	11.28	12.38	13.62	4 / 5				
reaction time	0.156	interval	1.05	1.05	1.08	1.02	1.05	1.13	1.07	1.13	1.10	1.24			3.18	3.20	3.30
velocity	4.81	8.10	8.10	7.87	8.33	8.10	7.52	7.94	7.52	7.73	8.10	7.34		8.02	7.97	7.73	
<b>Nemes, Rita (HUN) (1989)</b>	time	2.70	3.76	4.82	5.88	6.92	7.98	9.08	10.14	11.25	12.35	13.63	8 / 6				
reaction time	0.162	interval	1.06	1.06	1.06	1.04	1.06	1.10	1.06	1.11	1.10	1.28			3.18	3.20	3.27
velocity	4.81	8.02	8.02	8.02	8.17	8.02	7.73	8.02	7.66	7.73	7.85	7.34		8.02	7.97	7.80	
<b>Araujo, Martha (COL) (1996)</b>	time	2.68	3.72	4.78	5.85	6.88	7.95	8.98	10.08	11.18	12.32	13.65	9 / 7				
reaction time	0.171	interval	1.04	1.06	1.07	1.03	1.07	1.03	1.10	1.10	1.14	1.33			3.17	3.13	3.34
velocity	4.85	8.17	8.02	7.94	8.25	7.94	8.25	7.73	7.73	7.46	7.56	7.33		8.04	8.15	7.63	



<b>Dokter, Sofie (NED) (2002)</b>	time	2.72	3.80	4.89	5.94	7.05	8.12	9.20	10.30	11.40	12.53		13.82	7 / 8				
reaction time	0.158	interval	1.08	1.09	1.05	1.11	1.07	1.08	1.10	1.10	1.13	1.29			3.22	3.26	3.33	
		velocity	4.78	7.87	7.80	8.10	7.66	7.94	7.87	7.73	7.73	7.52	7.79	7.24		7.92	7.82	7.66

**Heptathlon - Heat 1**

date 19-Aug-23 wind -1.1 m/s

Henson (2024) - 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	
<b>Vidts, Noor (BEL) (1996)</b>	time	2.69	3.75	4.82	5.85	6.85	7.89	8.93	10.02	11.05	12.12		13.33	4 / 1				
reaction time	0.176	interval	1.06	1.07	1.03	1.00	1.04	1.04	1.09	1.03	1.07	1.21			3.16	3.08	3.19	
		velocity	4.83	8.02	7.94	8.25	8.50	8.17	7.80	8.25	7.94	8.31	7.50		8.07	8.28	7.99	
<b>Krizsán, Xénia (HUN) (1993)</b>	time	2.64	3.72	4.75	5.82	6.85	7.89	8.95	10.04	11.14	12.25		13.48	8 / 2				
reaction time	0.159	interval	1.08	1.03	1.07	1.03	1.04	1.06	1.09	1.10	1.11	1.23			3.18	3.13	3.30	
		velocity	4.92	7.87	8.25	7.94	8.25	8.17	8.02	7.80	7.73	7.66	8.17	7.42		8.02	8.15	7.73
<b>O'Connor, Kate (IRL) (2000)</b>	time	2.76	3.86	4.92	5.95	7.02	8.08	9.14	10.22	11.28	12.38		13.57	7 / 3				
reaction time	0.167	interval	1.10	1.06	1.03	1.07	1.06	1.06	1.08	1.06	1.10	1.19	<b>PB</b>		3.19	3.19	3.24	
		velocity	4.71	7.73	8.02	8.25	7.94	8.02	8.02	7.87	8.02	7.73	8.45	7.37		7.99	7.99	7.87
<b>Grimm, Vanessa (GER) (1997)</b>	time	2.82	3.90	5.02	6.08	7.15	8.28	9.40	10.52	11.64	12.75		14.00	3 / 4				
reaction time	0.187	interval	1.08	1.12	1.06	1.07	1.13	1.12	1.12	1.12	1.11	1.25			3.26	3.32	3.35	
		velocity	4.61	7.87	7.59	8.02	7.94	7.52	7.59	7.59	7.66	8.04	7.14		7.82	7.68	7.61	
<b>Lagger, Sarah (AUT) (1999)</b>	time	2.85	3.96	5.10	6.20	7.28	8.40	9.52	10.67	11.83	12.96		14.21	6 / 5				
reaction time	0.243	interval	1.11	1.14	1.10	1.08	1.12	1.12	1.15	1.16	1.13	1.25			3.35	3.32	3.44	
		velocity	4.56	7.66	7.46	7.73	7.87	7.59	7.39	7.33	7.52	8.04	7.04		7.61	7.68	7.41	
<b>Ligarska, Paulina (POL) (1996)</b>	time	2.84	3.95	5.08	6.17	7.28	8.40	9.52	10.67	11.85	13.04		14.31	5 / 6				
reaction time	0.184	interval	7 steps	1.11	1.13	1.09	1.11	1.12	1.12	1.15	1.19	1.27			3.33	3.35	3.52	
		velocity	4.58	7.66	7.52	7.80	7.66	7.59	7.59	7.39	7.20	7.14	7.91	6.99		7.66	7.61	7.24
<b>Voronina, Yekaterina (UZB) (1)</b>	time	2.88	4.08	5.32	6.48	7.65	8.82	9.95	11.15	12.32			14.77	2 / 7				
reaction time	0.172	interval	1.20	1.24	1.16	1.17	1.17	1.13	1.20	1.17					3.60	3.47		
		velocity	4.51	7.08	6.85	7.33	7.26	7.26	7.52	7.08	7.26		6.77		7.08	7.35		

**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	
<b>Hayashi, Miki (JPN) (2005)</b>	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
<b>Katayama, Hanna (JPN)</b>	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	1.07	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
<b>Tenka, Yanaka (JPN)</b>	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
<b>Kinashi, Mitsuna (JPN)</b>	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
<b>Ayame, Hinano (JPN)</b>	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
<b>Nomura, Mitsuki (JPN)</b>	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	7.73	7.52	7.33	8.31	7.16		7.66	7.77	7.52
<b>Okubo, Heki (JPN)</b>	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
<b>Oikawa, Riko (JPN) (2005)</b>	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	
<b>Ali, Nia (USA) (1988)</b>	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	0.98	0.98	1.19	<b>PB</b>		2.95	2.85	2.91	
		velocity	5.42	8.33	8.76	8.85	8.95	8.95	8.95	8.95	8.67	8.67	8.45	8.13		8.64	8.95	8.76

<b>Harrison, Kendra (USA) 1992</b>	time	2.42	3.44	4.42	5.36	6.30	7.24	8.18	9.13	10.10	11.09		12.31	4 / 2			
	reaction time	0.165	interval	1.02	0.98	0.94	0.94	0.94	0.94	0.95	0.97	0.99	1.22		2.94	2.82	2.91
	velocity	5.37	8.33	8.67	9.04	9.04	9.04	9.04	8.95	8.76	8.59	8.24	8.12		8.67	9.04	8.76
<b>Johnson, Alaysha (USA) 199f</b>	time	2.46	3.50	4.51	5.47	6.43	7.38	8.33	9.28	10.24	11.22		12.39	2 / 3			
	reaction time	0.172	interval	1.04	1.01	0.96	0.96	0.95	0.95	0.95	0.96	0.98	1.17		3.01	2.86	2.89
	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
<b>Jones, Tia (USA) (2000)</b>	time	2.43	3.45	4.43	5.38	6.33	7.28	8.24	9.20	10.17	11.17		12.39	7 / 4			
	reaction time	0.156	interval	1.02	0.98	0.95	0.95	0.95	0.96	0.96	0.97	1.00	1.22		2.95	2.86	2.93
	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
<b>Skrzysowska, Pia (POL) (2001)</b>	time	2.43	3.46	4.45	5.42	6.38	7.34	8.30	9.29	10.33	11.41		12.68	3 / 5			
	reaction time	0.125	interval	1.03	0.99	0.97	0.96	0.96	0.96	0.99	1.04	1.08	1.27		2.99	2.88	3.11
	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
<b>Bapté, Laetitia (FRA) (1999)</b>	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		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
<b>Lavin, Sarah (IRL) (1994)</b>	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
<b>Carraro, Elena (ITA) (2001)</b>	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
<b>Amusan, Tobi (NGR) (1997)</b>	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	
<b>Harrison, Kendra (USA) 1992</b>	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	
<b>Ali, Nia (USA) (1988)</b>	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	
<b>Tapper, Megan (JAM) (1994)</b>	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	
<b>Williams, Danielle (JAM) (1992)</b>	time	2.41	3.44	4.42	5.38	6.33	7.29	8.25	9.25	10.27	11.30		12.55	9 / 5				
	reaction time	0.141	interval	1.03	0.98	0.96	0.95	0.96	0.96	1.00	1.02	1.03	1.25		2.97	2.87	3.05	
	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	
<b>Jones, Tia (USA) (2000)</b>	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	
<b>Johnson, Alaysha (USA) 199f</b>	time	2.44	3.49	4.49	5.48	6.47	7.44	8.41	9.39	10.37	11.36		12.58	3 / 7				
	reaction time	0.151	interval	1.05	1.00	0.99	0.99	0.97	0.97	0.98	0.98	0.99	1.22		3.04	2.93	2.95	
	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	
<b>Skrzysowska, Pia (POL) (2001)</b>	time	2.44	3.48	4.48	5.46	6.43	7.40	8.38	9.37	10.38	11.41		12.67	7 / 8				
	reaction time	0.130	interval	1.04	1.00	0.98	0.97	0.97	0.98	0.99	1.01	1.03	1.26		3.02	2.92	3.03	
	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	
<b>Fourie, Marione (RSA) (2002)</b>	time	2.44	3.49	4.51	5.50	6.47	7.45	8.43	9.43	10.44	11.47		12.73	1 / 9				
	reaction time	0.148	interval	1.05	1.02	0.99	0.97	0.98	0.98	1.00	1.01	1.03	1.26		3.06	2.93	3.04	
	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
<b>Ali, Nia (USA) (1988)</b>	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	
<b>Harrison, Kendra (USA) 1992</b>	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
<b>Russell, Masai (USA) (2000)</b>	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
<b>Johnson, Alaysha (USA) (1996)</b>	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
<b>Jones, Tia (USA) (2000)</b>	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
<b>Marshall, Tonea (USA) (1998)</b>	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
<b>Armstrong, Alia (USA) (2000)</b>	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
<b>Stark, Grace (USA) (2001)</b>	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	
<b>Amusan, Tobi (NGR) (1997)</b>	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	interval				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	
<b>Lavin, Sarah (IRL) (1994)</b>	time				2.47	3.54	4.54	5.52	6.50	7.47	8.45	9.44	10.44	11.45		12.73	1 / 2				
reaction time	0.139	interval				1.07	1.00	0.98	0.98	0.97	0.98	0.99	1.00	1.01	1.28	<b>PB</b>		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	
<b>Skrzyszowska, Pia (POL) (2001)</b>	time				2.42	3.44	4.43	5.41	6.38	7.37	8.35	9.33	10.37	11.47		12.78	5 / 3				
reaction time	0.132	interval				1.02	0.99	0.98	0.97	0.99	0.98	0.98	1.04	1.10	1.31			2.99	2.94	3.12	
		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	
<b>Charlton, Devynne (BAH) (1995)</b>	time				2.40	3.46	4.49	5.48	6.47	7.47	8.47	9.48	10.50	11.56		12.85	3 / 4				
reaction time	0.141	interval				1.06	1.03	0.99	0.99	1.00	1.00	1.01	1.02	1.06	1.29			3.08	2.99	3.09	
		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	
<b>Visser, Nadine (NED) (1995)</b>	time				2.47	3.52	4.54	5.54	6.54	7.53	8.54	9.56	10.59	11.65		12.97	6 / 5				
reaction time	0.149	interval				1.05	1.02	1.00	1.00	0.99	1.01	1.02	1.03	1.06	1.32			3.07	3.00	3.11	
		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	
<b>Hurske, Reetta (FIN) (1995)</b>	time				0.122	no information available											12.98	2 / 6			
<b>Jenneke, Michelle (AUS) (1993)</b>	time				2.45	3.51	4.53	5.54	6.55	7.56	8.59	9.61	10.65	11.70		13.01	7 / 7				
reaction time	0.145	interval				1.06	1.02	1.01	1.01	1.01	1.03	1.02	1.04	1.05	1.31			3.09	3.05	3.11	
		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	
<b>Bapté, Laetitia (FRA) (1999)</b>	time				2.49	3.56	4.58	5.59	6.59	7.60	8.61	9.63	10.68	11.75		13.09	8 / 8				
reaction time	0.171	interval			7 steps	1.07	1.02	1.01	1.00	1.01	1.01	1.02	1.05	1.07	1.34			3.10	3.02	3.14	
		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
<b>Lavin, Sarah (IRL) (1994)</b>	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
<b>Bieldt, Taylon (RSA) (1998)</b>	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
<b>Morrison, Ebony (LBR) (1994)</b>	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
<b>Lindeblad, Elin (SWE) (1995)</b>	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
<b>Carlsson, Johanna (SWE) (1996)</b>	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	1.12	1.06	1.04	1.05	1.06	1.07	1.10	1.16	1.19	1.50	<b>PB</b>		3.22	3.18	3.45
	interval																
	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
<b>Lindeén, Jonna (SWE) (1996)</b>	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	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
	interval																
	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
<b>von Gerber, Alva (SWE) (2000)</b>	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	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
	interval																
	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
<b>Södergren, Maria (SWE) (1998)</b>	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	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
	interval																
	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, SUI)****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
<b>Camacho-Quinn, Jasmine (PU)</b>	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	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
	interval																
	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
<b>Amusan, Tobi (NGR) (1997)</b>	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	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
	interval																
	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
<b>Jones, Tia (USA) (2000)</b>	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	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
	interval																
	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
<b>Skrzyszowska, Pia (POL) (2001)</b>	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	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
	interval																
	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
<b>Kambundji, Ditaji (SUI) (2002)</b>	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	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
	interval																
	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
<b>Ali, Nia (USA) (1988)</b>	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	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
	interval																
	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
<b>Visser, Nadine (NED) (1995)</b>	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	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
	interval																
	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
<b>Johnson, Alaysha (USA) (1996)</b>	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	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
	interval																
	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
<b>Harrison, Kendra (USA) (1992)</b>	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	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
	interval																
	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
<b>Johnson, Alaysha (USA) (1996)</b>	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	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
	interval																
	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
<b>Williams, Danielle (JAM) (1992)</b>	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	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
	interval																
	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
<b>Hughes, Amber (USA) (1994)</b>	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	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
	interval																
	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
<b>Tapper, Megan (JAM) (1994)</b>	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	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
	interval																
	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

<b>Cunningham, Gabbi (USA) (1<sup>st</sup> time)</b>	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
<b>Bonds, Talie (USA) (1998)</b>	2.58	3.64	4.64	5.64	6.64	7.64	8.62	9.64	10.66	11.69		12.84	8 / 7			
reaction time	0.164	interval	1.06	1.00	1.00	1.00	1.00	0.98	1.02	1.02	1.03	1.15		3.06	2.98	3.07
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
<b>Vazquez, Paola (PUR) (1998)</b>	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
<b>Sember, Cindy (GBR) (1994)</b>	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
<b>Nugent, Ackera (JAM) (2002)</b>	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	8.59	8.16		8.85	9.01	8.70
<b>Russell, Masai (USA) (2000)</b>	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	
<b>Armstrong, Alia (USA) (2000)</b>	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	
<b>Bonds, Talie (USA) (1998)</b>	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	
<b>Stark, Grace (USA) (2001)</b>	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	
<b>Glasco, Alexis (USA) (2002)</b>	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	
<b>Laurencin, Aasia (USA) (2002)</b>	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	
<b>Salmon, Paula (USA) (1999)</b>	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	
<b>Jones, Rayniah (USA) (2001)</b>	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
<b>Odama, Karin (JPN) (1999)</b>	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	
<b>Yamasaki, Yuki (JPN) (1995)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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	
<b>Visser, Nadine (NED) (1995)</b>	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	

<b>Kambundji, Ditaji (SUI) (2002)</b>	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
<b>Fourie, Marione (RSA) (2002)</b>	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	<b>=PB</b>	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
<b>Lavin, Sarah (IRL) (1994)</b>	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
<b>Charlton, Devynne (BAH) (1995)</b>	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
<b>Tjin-A-Lim, Maayke (NED) (1995)</b>	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
<b>Nelvis, Sharika (USA) (1990)</b>	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
<b>Graversgaard, Mette (DEN) (1988)</b>	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 Chinese National Grand Prix 4 (Chongqing, CHN)

## FINAL

	date	03-Jun-23	wind	0.3 m/s	Shandong Athletics Sport Science (2023)													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Chen Jiamin (CHN) (1996)</b>	time	2.70	3.73	4.76	5.78	6.84	7.86	8.88	9.93	10.96	12.03		13.19	4 / 1				
	reaction time	0.217	interval	1.03	1.03	1.02	1.06	1.02	1.05	1.03	1.07	1.16			3.08	3.10	3.15	
	velocity	4.81	8.25	8.25	8.33	8.02	8.33	8.33	8.10	8.25	7.94	8.66	7.58		8.28	8.23	8.10	
<b>Wu Yanni (CHN) (1997)</b>	time	2.70	3.73	4.76	5.76	6.77	7.78	8.82	9.88	10.94	11.99		13.21	6 / 2				
	reaction time	0.176	interval	1.03	1.03	1.00	1.01	1.01	1.04	1.06	1.06	1.05	1.22		3.06	3.06	3.17	
	velocity	4.81	8.25	8.25	8.50	8.42	8.42	8.17	8.02	8.02	8.10	8.24	7.57		8.33	8.33	8.04	
<b>Deng Xuelin (CHN) (1998)</b>	time	2.74	3.80	4.85	5.89	6.92	7.98	9.04	10.11	11.18	12.38		13.61	5 / 3				
	reaction time	0.208	interval	1.06	1.05	1.04	1.03	1.06	1.06	1.07	1.07	1.20	1.23		3.15	3.15	3.34	
	velocity	4.74	8.02	8.10	8.17	8.25	8.02	8.02	7.94	7.94	7.08	8.17	7.35		8.10	8.10	7.63	
<b>Wei Yuhui (CHN) (2002)</b>	time	2.72	3.80	4.88	5.91	6.96	8.01	9.06	10.14	11.26	12.38		13.63	3 / 4				
	reaction time	0.222	interval	1.08	1.08	1.03	1.05	1.05	1.05	1.08	1.12	1.12	1.25		3.19	3.15	3.32	
	velocity	4.78	7.87	7.87	8.25	8.10	8.10	8.10	7.87	7.59	7.59	8.04	7.34		7.99	8.10	7.68	
<b>Wu Binbin (CHN) (2006)</b>	time	2.69	3.79	4.87	5.96	7.04	8.14	9.26	10.35	11.47	12.59		13.75	2 / 5				
	reaction time	0.213	interval	1.10	1.08	1.09	1.08	1.10	1.12	1.09	1.12	1.12	1.16		3.27	3.30	3.33	
	velocity	4.83	7.73	7.87	7.80	7.87	7.73	7.59	7.80	7.59	7.59	8.66	7.27		7.80	7.73	7.66	
<b>Gong Qiudan (CHN) (2003)</b>	time	2.78	3.89	4.97	6.05	7.12	8.21	9.29	10.38	11.48	12.61		13.80	7 / 6				
	reaction time	0.249	interval	1.11	1.08	1.08	1.07	1.09	1.08	1.09	1.10	1.13	1.19		3.27	3.24	3.32	
	velocity	4.68	7.66	7.87	7.87	7.94	7.80	7.87	7.80	7.73	7.52	8.45	7.25		7.80	7.87	7.68	
<b>Chen Yanqi (CHN) (2006)</b>	time	2.69	3.77	4.86	5.91	6.98	8.03	9.16	10.28	11.41	12.58		13.84	8 / 7				
	reaction time	0.191	interval	1.08	1.09	1.05	1.07	1.05	1.13	1.12	1.13	1.17	1.26	<b>PB</b>	3.22	3.25	3.42	
	velocity	4.83	7.87	7.80	8.10	7.94	8.10	7.52	7.59	7.52	7.26	7.98	7.23		7.92	7.85	7.46	
<b>Chen Mengqiao (CHN) (2004)</b>	time	2.76	3.89	4.99	6.12	7.21	8.31	9.43	10.56	11.71	12.93		14.22	1 / 8				
	reaction time	0.211	interval	1.13	1.10	1.13	1.09	1.10	1.12	1.13	1.15	1.22	1.29	<b>PB</b>	3.36	3.31	3.50	
	velocity	4.71	7.52	7.73	7.52	7.80	7.73	7.59	7.52	7.39	6.97	7.79	7.03		7.59	7.70	7.29	

## 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
<b>Terada, Asuka (JPN) (1990)</b>	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	
<b>Aoki, Masumi (JPN) (1994)</b>	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	
<b>Tanaka, Yumi (JPN) (1998)</b>	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
<b>Fukube, Mako (JPN) (1995)</b>	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
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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	
		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
<b>Suzuki, Miho (JPN) (1996)</b>	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
<b>Nakajima, Hitomi (JPN) (1995)</b>	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	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
<b>Katayama, Kokona (JPN) (2001)</b>	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
<b>Naito, Kano (JPN) (2004)</b>	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
<b>Takahashi, Ami (JPN) (2005)</b>	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
<b>Kodera, Saki (JPN) (2005)</b>	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
<b>Kinsahi, Hina (JPN) (2006)</b>	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
<b>Oikawa, Riko (JPN) (2005)</b>	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
<b>Yamada, Hiromi (JPN) (2004)</b>	time	2.75	3.89	5.01	6.13	7.25	8.37	9.49	10.65	11.79	12.92		14.15	8 / 7			
reaction time	0.170	interval	1.14	1.12	1.12	1.12	1.12	1.12	1.16	1.14	1.13	1.23			3.38	3.36	3.43
		velocity	4.73	7.46	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	Shimizu (2023) - shimane high school championships 2023 - 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
<b>Bessho, Miyu (JPN) (2007)</b>	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
<b>Matsubara, Shihori (JPN) (200)</b>	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
<b>Yoshiho, Ichikawa (JPN)</b>	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
<b>Kaneko, Ei (JPN)</b>	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
<b>Nakahara, Sana (JPN)</b>	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

<b>Matsuura, Hikari (JPN)</b>	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
<b>Takahashi, Mihiro (JPN)</b>	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
<b>Oka, Yuka (JPN)</b>	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	
<b>Camacho-Quinn, Jasmine (PU)</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Jones, Tia (USA) (2000)</b>	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
<b>Johnson, Alaysha (USA) (1994)</b>	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
<b>Marshall, Tonea (USA) (1998)</b>	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	8.67	8.42	8.42	8.89	7.97		8.50	8.67	8.50
<b>Williams, Danielle (JAM) (1992)</b>	time	2.53	3.53	4.52	5.48	6.44	7.40	8.40	9.38	10.40	11.42		12.59	1 / 6				
	reaction time	0.437	interval	1.00	0.99	0.96	0.96	0.96	1.00	0.98	1.02	1.02	1.17			2.95	2.92	3.02
	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
<b>Ali, Nia (USA) (1988)</b>	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
<b>Amusan, Tobi (NGR) (1997)</b>	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	1.04	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 Chinese National Grand Prix 3 (Taizhou, CHN)****FINAL**

date 27-May-23 wind -1.2 m/s Shandong Athletics Sport Science (2023)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
<b>Xia Sining (CHN) (2003)</b>	time	2.67	3.73	4.80	5.82	6.86	7.86	8.88	9.92	10.95	11.99		13.15	5 / 1				
	reaction time	0.159	interval	1.06	1.07	1.02	1.04	1.00	1.02	1.04	1.03	1.04	1.16			3.15	3.06	3.11
	velocity	4.87	8.02	7.94	8.33	8.17	8.50	8.33	8.17	8.25	8.17	8.66	7.60			8.10	8.33	8.20
<b>Shi Jiali (CHN) (1997)</b>	time	2.65	3.74	4.84	5.91	6.97	8.05	9.14	10.23	11.34	12.48		13.76	6 / 2				
	reaction time	0.129	interval	1.09	1.10	1.07	1.06	1.08	1.09	1.09	1.11	1.14	1.28			3.26	3.23	3.34
	velocity	4.91	7.80	7.73	7.94	8.02	7.87	7.80	7.80	7.66	7.46	7.85	7.27			7.82	7.89	7.63
<b>Gao Yirong (CHN) (2004)</b>	time	2.70	3.80	4.90	5.96	7.04	8.10	9.18	10.29	11.39	12.57		13.83	2 / 3				
	reaction time	0.177	interval	1.10	1.10	1.06	1.08	1.06	1.08	1.11	1.10	1.18	1.26	<b>PB</b>		3.26	3.22	3.39
	velocity	4.81	7.73	7.73	8.02	7.87	8.02	7.87	7.66	7.73	7.20	7.98	7.23			7.82	7.92	7.52
<b>Gong Qiudan (CHN) (2003)</b>	time	2.75	3.86	4.96	6.05	7.13	8.21	9.30	10.43	11.55	12.66		13.86	7 / 4				
	reaction time	0.181	interval	1.11	1.10	1.09	1.08	1.08	1.09	1.13	1.12	1.11	1.20			3.30	3.25	3.36
	velocity	4.73	7.66	7.73	7.80	7.87	7.87	7.80	7.52	7.59	7.66	8.38	7.22			7.73	7.85	7.59
<b>Wei Yuhui (CHN) (2002)</b>	time	2.78	3.88	4.97	6.03	7.10	8.17	9.25	10.35	11.47	12.60		13.87	3 / 5				
	reaction time	0.162	interval	1.10	1.09	1.06	1.07	1.07	1.08	1.10	1.12	1.13	1.27			3.25	3.22	3.35
	velocity	4.68	7.73	7.80	8.02	7.94	7.94	7.87	7.73	7.59	7.52	7.91	7.21			7.85	7.92	7.61
<b>Chen Yuyang (CHN) (2002)</b>	time	2.72	3.82	4.88	5.94	7.01	8.08	9.18	10.31	11.46	12.63		13.94	8 / 6				
	reaction time	0.161	interval	1.10	1.06	1.06	1.07	1.07	1.10	1.13	1.15	1.17	1.31			3.22	3.24	3.45
	velocity	4.78	7.73	8.02	8.02	7.94	7.94	7.73	7.52	7.39	7.26	7.67	7.17			7.92	7.87	7.39
<b>Yin Xiaoxia (CHN) (2000)</b>	time	2.81	3.93	5.04	6.14	7.25	8.34	9.46	10.60	11.73	12.88		14.13	1 / 7				

reaction time	0.218	interval	1.12	1.11	1.10	1.11	1.09	1.12	1.14	1.13	1.15	1.25		3.33	3.32	3.42	
		velocity	4.63	7.59	7.66	7.73	7.66	7.80	7.59	7.46	7.52	7.39	8.04	7.08	7.66	7.68	7.46
<b>Wu Yanni (CHN) (1997)</b>		time	2.62										dnf	4 / --			
reaction time		interval															
		velocity	4.96														

### 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
<b>Camacho-Quinn, Jasmine (PU)</b>	time		2.50	3.52	4.46	5.40	6.32	7.25	8.19	9.13	10.10	11.06		12.17	5 / 1			
reaction time	0.153	interval		1.02	0.94	0.94	0.92	0.93	0.94	0.94	0.97	0.96	1.11			2.90	2.79	2.87
		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
<b>Williams, Danielle (JAM) (1992)</b>	time		2.53	3.54	4.50	5.46	6.39	7.34	8.29	9.27	10.25	11.26		12.38	4 / 2			
reaction time	0.521	interval		1.01	0.96	0.96	0.93	0.95	0.95	0.98	0.98	1.01	1.12			2.93	2.83	2.97
		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
<b>Marshall, Tonea (USA) (1998)</b>	time		2.50	3.52	4.49	5.46	6.42	7.37	8.32	9.29	10.26	11.26		12.39	3 / 3			
reaction time	0.176	interval		1.02	0.97	0.97	0.96	0.95	0.95	0.97	0.97	1.00	1.13			2.96	2.86	2.94
		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
<b>Tapper, Megan (JAM) (1994)</b>	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
<b>Terada, Asuka (JPN) (1990)</b>	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	<b>=PB</b>		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
<b>Tanaka, Yumi (JPN) (1998)</b>	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	<b>PB</b>		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
<b>Fukube, Mako (JPN) (1995)</b>	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
<b>Mucci, Celeste (AUS) (1999)</b>	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
<b>Aoki, Masumi (JPN) (1994)</b>	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
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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	<b>PB</b>		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
<b>Jones, Hannah (AUS) (1995)</b>	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
<b>Barber, Jade (USA) (1993)</b>	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
<b>Shibata, Manaka (JPN) (2001)</b>	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	<b>PB</b>		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
<b>Terada, Asuka (JPN) (1990)</b>	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	<b>PB</b>		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
<b>Tanaka, Yumi (JPN) (1998)</b>	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	<b>PB</b>		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



<b>Kiyoyama, Chisato (JPN) (1999)</b>	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
<b>Shibata, Manaka (JPN) (2001)</b>	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	<b>PB</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Nakajima, Hitomi (JPN) (1995)</b>	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
<b>Suzuki, Miho (JPN) (1996)</b>	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
<b>Omatsu, Yuki (JPN) (1996)</b>	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
<b>Yamasaki, Yuki (JPN) (1995)</b>	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	1.08	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
<b>Odama, Karin (JPN) (1999)</b>	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
<b>Camacho-Quinn, Jasmine (PU)</b>	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	0.96	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
<b>Johnson, Alaysha (USA) (1999)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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
<b>Tapper, Megan (JAM) (1994)</b>	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	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
<b>Marshall, Toneya (USA) (1998)</b>	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	1.19			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
<b>Hurske, Reetta (FIN) (1995)</b>	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	1.18			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
<b>Jenneke, Michelle (AUS) (1993)</b>	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
<b>Lavin, Sarah (IRL) (1994)</b>	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	1.14			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
<b>Camacho-Quinn, Jasmine (PU)</b>	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

<b>Jones, Rayniah (USA) (2001)</b>	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
<b>Lin Yuwei (CHN) (1999)</b>	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
<b>Glasco, Alexis (USA) (2002)</b>	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
<b>Tanaka, Yumi (JPN) (1998)</b>	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
<b>Aoki, Masumi (JPN) (1994)</b>	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	1.02	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	8.17	8.17	9.05	7.70		8.28	8.31	8.23
<b>Fukube, Mako (JPN) (1995)</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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
<b>Shibata, Manaka (JPN) (2001)</b>	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
<b>Nakajima, Hitomi (JPN) (1995)</b>	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

## 2023 Chinese Indoor National Championships (Tianjin, CHN)

## Final

date 16-Mar-23

Shandong Athletics Sport Science (2023)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Lin Yuwei (CHN) (1999)</b>	time	2.62	3.66	4.72	5.77	6.78		8.14	6 / 1			
reaction time	0.158 interval		1.04	1.06	1.05	1.01	1.36			3.15		
	velocity	4.96	8.17	8.02	8.10	8.42	9.56	7.37		8.10		
<b>Wu Yanni (CHN) (1997)</b>	time	2.67	3.74	4.76	5.79	6.81		8.19	5 / 2			
reaction time	0.183 interval		1.07	1.02	1.03	1.02	1.38			3.12		
	velocity	4.87	7.94	8.33	8.25	8.33	9.42	7.33		8.17		
<b>Xia Sining (CHN) (2003)</b>	time	2.72	3.78	4.82	5.82	6.89		8.22	3 / 3			
reaction time	0.183 interval		1.06	1.04	1.00	1.07	1.33	PB		3.10		
	velocity	4.78	8.02	8.17	8.50	7.94	9.77	7.30		8.23		
<b>Shi Jiali (CHN) (1997)</b>	time	2.67	3.74	4.78	5.82	6.85		8.28	4 / 4			
reaction time	0.179 interval		1.07	1.04	1.04	1.03	1.43			3.15		
	velocity	4.87	7.94	8.17	8.17	8.25	9.09	7.25		8.10		
<b>Chen Yinfeng (CHN) (1998)</b>	time	2.64	3.70	4.75	5.82	6.87		8.26	7 / 5			
reaction time	0.166 interval		1.06	1.05	1.07	1.05	1.39			3.18		
	velocity	4.92	8.02	8.10	7.94	8.10	9.35	7.26		8.02		
<b>Dong Jiaxin (CHN) (2004)</b>	time	2.74	3.82	4.89	5.96	7.00		8.48	2 / 6			
reaction time	0.183 interval		1.08	1.07	1.07	1.04	1.48	PB		3.22		
	velocity	4.74	7.87	7.94	7.94	8.17	8.78	7.08		7.92		
<b>Luo Xianyan (CHN) (1997)</b>	time	2.72	3.79	4.87	5.92	6.99		8.50	8 / 7			
reaction time	0.174 interval		1.07	1.08	1.05	1.07	1.51			3.20		
	velocity	4.78	7.94	7.87	8.10	7.94	8.61	7.06		7.97		
<b>Gao Yirong (CHN) (2004)</b>	time	2.78	3.87	4.97	6.07	7.14		8.64	1 / 8			
reaction time	0.179 interval		1.09	1.10	1.10	1.07	1.50	=PB		3.29		

velocity	4.68	7.80	7.73	7.73	7.94	8.67	6.94	7.75
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**Heat 2**

date 16-Mar-23

Shandong Athletics Sport Science (2023)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Lin Yuwei (CHN) (1999)</b>	time	2.58	3.64	4.66	5.71	6.74		8.13	3 / 1			
	reaction time 0.153	interval	1.06	1.02	1.05	1.03	1.39			3.13		
	velocity	5.04	8.02	8.33	8.10	8.25	9.35	7.38		8.15		
<b>Shi Jiali (CHN) (1997)</b>	time	2.67	3.75	4.84	5.87	6.91		8.38	5 / 2			
	reaction time 0.189	interval	1.08	1.09	1.03	1.04	1.47			3.20		
	velocity	4.87	7.87	7.80	8.25	8.17	8.84	7.16		7.97		
<b>Chen Yinfeng (CHN) (1998)</b>	time	2.71	3.80	4.88	5.94	6.99		8.44	7 / 3			
	reaction time 0.181	interval	1.09	1.08	1.06	1.05	1.45			3.23		
	velocity	4.80	7.80	7.87	8.02	8.10	8.97	7.11		7.89		
<b>Dong Jiaxin (CHN) (2004)</b>	time	2.72	3.82	4.90	6.00	7.07		8.53	2 / 4			
	reaction time 0.151	interval	1.10	1.08	1.10	1.07	1.46			3.28		
	velocity	4.78	7.73	7.87	7.73	7.94	8.90	7.03		7.77		
<b>Gao Yirong (CHN) (2004)</b>	time	2.73	3.84	4.94	6.06	7.15		8.64	1 / 5			
	reaction time 0.180	interval	1.11	1.10	1.12	1.09	1.49	<b>PB</b>		3.33		
	velocity	4.76	7.66	7.73	7.59	7.80	8.72	6.94		7.66		

**Heat 1**

date 16-Mar-23

Shandong Athletics Sport Science (2023)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Wu Yanni (CHN) (1997)</b>	time	2.67	3.72	4.74	5.77	6.77		8.19	7 / 1			
	reaction time 0.167	interval	1.05	1.02	1.03	1.00	1.42			3.10		
	velocity	4.87	8.10	8.33	8.25	8.50	9.15	7.33		8.23		
<b>Xia Sining (CHN) (2003)</b>	time	2.75	3.83	4.87	5.90	6.93		8.31	5 / 2			
	reaction time 0.206	interval	1.08	1.04	1.03	1.03	1.38			3.15		
	velocity	4.73	7.87	8.17	8.25	8.25	9.42	7.22		8.10		
<b>Luo Xianyan (CHN) (1997)</b>	time	2.75	3.86	4.97	6.05	7.14		8.64	3 / 3			
	reaction time 0.184	interval	1.11	1.11	1.08	1.09	1.50			3.30		
	velocity	4.73	7.66	7.66	7.87	7.80	8.67	6.94		7.73		

**2023 Chinese Indoor Grand Prix II (Chengdu, CHN)****A Final**

date 27-Feb-23

Shandong Athletics Sport Science (2023)

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Wu Yanni (CHN) (1997)</b>	time	2.65	3.71	4.75	5.78	6.82		8.23	4 / 1			
	reaction time 0.149	interval	1.06	1.04	1.03	1.04	1.41			3.13		
	velocity	4.91	8.02	8.17	8.25	8.17	9.22	12.15		8.15		

**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
<b>Amusan, Tobi (NGR) (1997)</b>	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
<b>Jones, Tia (USA) (2000)</b>	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
<b>Anderson, Britany (JAM) (200)</b>	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
<b>Camacho-Quinn, Jasmine (PU)</b>	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
<b>Charlton, Devynne (BAH) (199)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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
<b>Skrzysowska, Pia (POL) (2001)</b>	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



<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Kambundji, Ditaji (SUI) (2002)</b>	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	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
<b>Amusan, Tobi (NGR) (1997)</b>	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	
<b>Jones, Tia (USA) (2000)</b>	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	
<b>Tapper, Megan (JAM) (1994)</b>	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	
<b>Zbären, Noemi (SUI) (1994)</b>	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	1.04	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	
<b>Mayer, Isabel (GER) (1993)</b>	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	<b>PB</b>	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	
<b>Wojtunik, Klaudia (POL) (1999)</b>	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	
<b>Tóth, Anna (HUN) (2003)</b>	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	
<b>Hjørnevik, Martine (NOR) (200)</b>	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	
<b>Rooth, Andrea (NOR) (2002)</b>	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	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
<b>Camacho-Quinn, Jasmine (PU)</b>	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	
<b>Jones, Tia (USA) (2000)</b>	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	<b>PB</b>	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	
<b>Harrison, Kendra (USA) (1992)</b>	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	
<b>Anderson, Britany (JAM) (200)</b>	time	2.47	3.47	4.45	5.42	6.37	7.34	8.29	9.26	10.23	11.26		12.44	6 / 4				
	reaction time	0.145	interval	1.00	0.98	0.97	0.95	0.97	0.95	0.97	0.97	1.03	1.18		2.95	2.87	2.97	
	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	
<b>Tapper, Megan (JAM) (1994)</b>	time	2.47	3.47	4.44	5.42	6.40	7.37	8.34	9.31	10.31	11.31		12.51	2 / 5				
	reaction time	0.163	interval	1.00	0.97	0.98	0.98	0.97	0.97	0.97	1.00	1.00	1.20	<b>PB</b>	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	
<b>Charlton, Devynne (BAH) (199)</b>	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	
<b>Skrzyszowska, Pia (POL) (2001)</b>	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
<b>Visser, Nadine (NED) (1995)</b> 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
<b>Camacho-Quinn, Jasmine (PU)</b> 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
<b>Amusan, Tobi (NGR) (1997)</b> 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
<b>Jones, Tia (USA) (2000)</b> 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	<b>PB</b>		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
<b>Ali, Nia (USA) (1988)</b> 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
<b>Anderson, Britany (JAM) (200)</b> 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
<b>Harrison, Kendra (USA) (1992)</b> 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
<b>Visser, Nadine (NED) (1995)</b> 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
<b>Kambundji, Ditaji (SUI) (2002)</b> 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
<b>Skrzyszowska, Pia (POL) (2001)</b> 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
<b>Kozák, Luca (HUN) (1996)</b> 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	<b>=NR =PB</b>		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
<b>Kambundji, Ditaji (SUI) (2002)</b> 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
<b>Visser, Nadine (NED) (1995)</b> 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
<b>Lavin, Sarah (IRL) (1994)</b> 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
<b>Graversgaard, Mette (DEN) (19)</b> 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
<b>Samba-Mayela, Cyréna (FRA)</b> 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
<b>Sember, Cindy (GBR) (1994)</b> 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)	time				2.47	3.50	4.47	5.43	6.35	7.30	8.25	9.20	10.13	11.13		12.27	5 / 1			
	reaction time	0.114	interval			1.03	0.97	0.96	0.92	0.95	0.95	0.95	0.93	1.00	1.14			2.96	2.82	2.88
			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) (1991)	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)	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) (1991)	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) (1991)	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	1.00	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



<b>Jenneke, Michelle (AUS) (1993)</b>	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
<b>Harrison, Michelle (CAN) (199)</b>	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
<b>Hayashi, Miki (JPN) (2005)</b>	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
<b>Takahashi, Ami (JPN) (2005)</b>	time	2.64	3.76	4.87	5.96	7.06	8.15	9.26	10.36	11.47	12.61		13.85	6 / 2			
	reaction time	0.141	interval	1.12	1.11	1.09	1.10	1.09	1.11	1.10	1.11	1.14	1.24		3.32	3.30	3.35
	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
<b>Nagai, Mahiro (JPN) (2004)</b>	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
<b>Maeda, Mitsuki (JPN) (2004)</b>	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	1.13	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
<b>Fujiwara, Karen (JPN) (2004)</b>	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
<b>Moriwaki, Kanami (JPN) (2004)</b>	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	1.10	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
<b>Taninaka, Tennka (JPN) (2006)</b>	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
<b>Miyamatsu, Shiki (JPN) (2005)</b>	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 &amp; foreign first-class women's 100m hurdles in the 2022 season

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
<b>Amusan, Tobi (NGR) (1997)</b>	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			Aoki (2023)
	reaction time	0.130	interval	1.00	0.93	0.94	0.90	0.93	0.92	0.95	0.95	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
<b>Anderson, Britany (JAM) (200)</b>	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
<b>Camacho-Quinn, Jasmine (PU)</b>	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
<b>Armstrong, Alia (USA) (2000)</b>	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
<b>Sember, Cindy (GBR) (1994)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	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
<b>Charlton, Devynne (BAH) (199)</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	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 Ai

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
<b>Anderson, Britany (JAM) (200)</b> 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	<b>NR PB</b>		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
<b>Camacho-Quinn, Jasmine (PU)</b> 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
<b>Visser, Nadine (NED) (1995)</b> 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
<b>Harrison, Michelle (CAN) (199)</b> time	2.60	3.60	4.60	5.56	6.53	7.53	8.53	9.53	10.53	11.57		12.74	4 / 4			
reaction time 0.106 interval		1.00	1.00	0.96	0.97	1.00	1.00	1.00	1.00	1.04	1.17	<b>PB</b>		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
<b>Lavin, Sarah (IRL) (1994)</b> time	2.62	3.64	4.66	5.66	6.66	7.66	8.66	9.68	10.70	11.73		12.87	7 / 5			
reaction time 0.117 interval		1.02	1.02	1.00	1.00	1.00	1.00	1.02	1.02	1.03	1.14			3.04	3.00	3.07
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
<b>Bapté, Laetitia (FRA) (1999)</b> 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
<b>Zbären, Noemi (SUI) (1994)</b> 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
<b>Hurske, Reetta (FIN) (1995)</b> time	2.53	3.60	4.60	5.60	6.60	7.60	8.62	9.63	10.70	11.82		13.15	2 / 8			
reaction time 0.113 interval		1.07	1.00	1.00	1.00	1.00	1.02	1.01	1.07	1.12	1.33			3.07	3.02	3.20
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 &amp; 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
<b>Armstrong, Alia (USA) (2000)</b> 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	0.96	0.98	1.00	1.01	1.20	<b>PB</b>		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
<b>Charlton, Devynne (BAH) (19)</b> 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	<b>NR PB</b>		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
<b>Tapper, Megan (JAM) (1994)</b> 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	<b>PB</b>		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
<b>Skrzyszowska, Pia (POL) (2001)</b> 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	<b>PB</b>		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
<b>Fourie, Marione (RSA) (2002)</b> 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	<b>PB</b>		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
<b>Aoki, Masumi (JPN) (1994)</b> 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
<b>Graversgaard, Mette (DEN) (19)</b> 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
<b>Mucci, Celeste (AUS) (1999)</b> 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			<b>DQ</b>		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 &amp; 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
<b>Amusan, Tobi (NGR) (1997)</b> 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	<b>WR</b>		2.86	2.78	2.88
velocity	5.12	8.85	8.67	9.24	9.34	9.34	8.85	8.95	8.85	8.76	9.48	8.25		8.92	9.17	8.85

<b>Harrison, Kendra (USA) (1992)</b>	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		<i>Henson (2022)</i>	
	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
<b>Williams, Danielle (JAM) (1992)</b>	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		<i>Henson (2022)</i>	
	reaction time	0.105	interval	1.00	0.97	0.93	0.97	0.96	0.97	1.00	1.00	1.00	1.18		2.90	2.90	3.00
	velocity	5.35	8.50	8.76	9.14	8.76	8.85	8.76	8.50	8.50	8.50	8.52	8.06		8.79	8.79	8.50
<b>Sember, Cindy (GBR) (1994)</b>	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		<i>Henson (2022)</i>	
	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	<b>NR PB</b>	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
<b>Jenneke, Michelle (AUS) (1993)</b>	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		<i>Henson (2022)</i>	
	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	<b>PB</b>	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
<b>Kambundji, Ditaji (SUI) (2002)</b>	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		<i>Henson (2022)</i>	
	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	<b>PB</b>	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
<b>Vargas, Andrea Carolina (CRC)</b>	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		<i>Henson (2022)</i>	
	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
<b>Fukube, Mako (JPN) (1995)</b>	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		<i>Aoki (2023)</i>	
	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	<b>NR PB</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Sember, Cindy (GBR) (1994)</b>	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
<b>Jenneke, Michelle (AUS) (1993)</b>	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
<b>Hurske, Reetta (FIN) (1995)</b>	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	1.03	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
<b>Armstrong, Alia (USA) (2000)</b>	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	8.50	8.52	8.01		8.73	8.64	8.59
<b>Tapper, Megan (JAM) (1994)</b>	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
<b>Fourie, Marione (RSA) (2002)</b>	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	1.02	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
<b>Fukube, Mako (JPN) (1995)</b>	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	1.03	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
<b>Skrzyszowska, Pia (POL) (2001)</b>	time	2.46	3.50	4.50	5.50	6.50	7.46	8.44	9.46	10.46	11.50		12.70	7 / 1			
	reaction time	0.131	interval	1.04	1.00	1.00	1.00	0.96	0.98	1.02	1.00	1.04	1.20		3.04	2.94	3.06
	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
<b>Visser, Nadine (NED) (1995)</b>	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
<b>Vargas, Andrea Carolina (CRC)</b>	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	1.07	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
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**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
<b>Amusan, Tobi (NGR) (1997)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	time			2.53	3.56	4.56	5.54	6.53	7.53	8.53	9.53	10.53	11.63		12.87	8 / 2			
	reaction time	0.194	interval		1.03	1.00	0.98	0.99	1.00	1.00	1.00	1.00	1.10	1.24			3.01	2.99	3.10
			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
<b>Lavin, Sarah (IRL) (1994)</b>	time			2.53	3.56	4.63	5.63	6.63	7.66	8.66	9.70	10.73	11.76		12.99	4 / 3			
	reaction time	0.117	interval		1.03	1.07	1.00	1.00	1.03	1.00	1.04	1.03	1.03	1.23			3.10	3.03	3.10
			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
<b>Mucci, Celeste (AUS) (1999)</b>	time			2.55	3.60	4.63	5.63	6.65	7.66	8.66	9.70	10.73	11.76		13.01	5 / 4			
	reaction time	0.163	interval		1.05	1.03	1.00	1.02	1.01	1.00	1.04	1.03	1.03	1.25			3.08	3.03	3.10
			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
<b>Kambundji, Ditaji (SUI) (2002)</b>	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

**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
<b>Camacho-Quinn, Jasmine (PU)</b>	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
<b>Charlton, Devynne (BAH) (1995)</b>	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
<b>Zbären, Noemi (SUI) (1994)</b>	time			2.60	3.66	4.66	5.66	6.66	7.66	8.66	9.68	10.70	11.74		13.00	6 / 3			
	reaction time	0.162	interval		1.06	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.26			3.06	3.00	3.08
			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
<b>Samba-Mayela, Cyréna (FRA) (1995)</b>	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

**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
<b>Anderson, Britany (JAM) (200)</b>	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
<b>Harrison, Michelle (CAN) (1999)</b>	time			2.60	3.63	4.63	5.63	6.63	7.63	8.63	9.63	10.66	11.70		12.95	2 / 2			
	reaction time	0.137	interval		1.03	1.00	1.00	1.00	1.00	1.00	1.00	1.03	1.04	1.25			3.03	3.00	3.07
			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
<b>Graversgaard, Mette (DEN) (1995)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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	7.14			8.56	8.67	8.10

**Heptathlon - Heat 2**

		date	17-Jul-22	wind	0.7 m/s	Henson (2024) - 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
<b>Atherley, Michelle (USA) (1995)</b>	time			2.63	3.70	4.73	5.73	6.75	7.77	8.78	9.78	10.81	11.91		13.12	4 / 1			
	reaction time	0.111	interval		1.07	1.03	1.00	1.02	1.02	1.01	1.00	1.03	1.10	1.21			3.10	3.05	3.13
			velocity		4.94	7.94	8.25	8.50	8.33	8.33	8.42	8.50	8.25	7.73	8.31	7.62		8.23	8.36
<b>Kälin, Annik (SUI) (2000)</b>	time			2.56	3.62	4.64	5.66	6.70	7.73	8.75	9.80	10.83	11.94		13.17	1 / 2			
	reaction time	0.162	interval		1.06	1.02	1.02	1.04	1.03	1.02	1.05	1.03	1.11	1.23			3.10	3.09	3.19
			velocity		5.08	8.02	8.33	8.33	8.17	8.25	8.33	8.10	8.25	7.66	8.17	7.59		8.23	8.25
<b>Hall, Anna (USA) (2001)</b>	time			2.68	3.71	4.73	5.75	6.77	7.81	8.81	9.92	10.97	12.03		13.20	8 / 3			
	reaction time	0.150	interval		1.03	1.02	1.02	1.02	1.04	1.00	1.11	1.05	1.06	1.17			3.07	3.06	3.22
			velocity		4.85	8.25	8.33	8.33	8.33	8.17	8.50	7.66	8.10	8.02	8.59	7.58		8.31	8.33
<b>Vidts, Noor (BEL) (1996)</b>	time			2.68	3.73	4.75	5.78	6.80	7.81	8.84	9.91	10.97	12.03		13.20	5 / 4			
	reaction time	0.143	interval		1.05	1.02	1.03	1.02	1.01	1.03	1.07	1.06	1.06	1.17			3.10	3.06	3.19

	velocity	4.85	8.10	8.33	8.25	8.33	8.42	8.25	7.94	8.02	8.02	8.59	7.58		8.23	8.33	7.99
<b>Sufek, Adrianna (POL) (1999)</b>	time	2.68	3.75	4.80	5.82	6.87	7.91	8.95	10.00	11.04	12.13		13.28	2 / 5			
	reaction time	0.141	interval	1.07	1.05	1.02	1.05	1.04	1.04	1.05	1.04	1.09	1.15		3.14	3.13	3.18
	velocity	4.85	7.94	8.10	8.33	8.10	8.17	8.17	8.10	8.17	7.80	8.74	7.53		8.12	8.15	8.02
<b>Vetter, Anouk (NED) (1993)</b>	time	2.58	3.62	4.64	5.66	6.71	7.74	8.77	9.82	10.93	12.08		13.30	7 / 6			
	reaction time	0.117	interval	1.04	1.02	1.02	1.05	1.03	1.03	1.05	1.11	1.15	1.22		3.08	3.11	3.31
	velocity	5.04	8.17	8.33	8.33	8.10	8.25	8.25	8.10	7.66	7.39	8.24	7.52		8.28	8.20	7.70
<b>Krizsán, Xénia (HUN) (1993)</b>	time	2.63	3.73	4.80	5.82	6.87	7.93	8.98	10.06	11.13	12.23		13.46	3 / 7			
	reaction time	0.138	interval	1.10	1.07	1.02	1.05	1.06	1.05	1.08	1.07	1.10	1.23		3.19	3.16	3.25
	velocity	4.94	7.73	7.94	8.33	8.10	8.02	8.10	7.87	7.94	7.73	8.17	7.43		7.99	8.07	7.85
<b>Williams, Kendel (USA) (1995)</b>	time	2.71	3.78	4.80	5.83	6.88	7.93	8.98	10.03	11.15	12.28		13.54	6 / 8			
	reaction time	0.139	interval	1.07	1.02	1.03	1.05	1.05	1.05	1.12	1.13	1.26			3.12	3.15	3.30
	velocity	4.80	7.97	8.30	8.25	8.10	8.10	8.10	8.10	7.59	7.52	7.98	7.39		8.17	8.10	7.73

## Heptathlon - Heat 1

date 17-Jul-22 wind 1.4 m/s Henson (2024) - 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	
<b>Thiam, Nafissatou (BEL) (1994)</b>	time	2.60	3.65	4.70	5.74	6.77	7.78	8.82	9.86	10.92	12.01		13.21	4 / 1				
	reaction time	0.119	interval	7 steps	1.05	1.05	1.04	1.03	1.01	1.04	1.04	1.06	1.09	1.20		3.14	3.08	3.19
	velocity	5.00	8.10	8.10	8.17	8.25	8.42	8.17	8.17	8.02	7.80	8.37	7.57		8.12	8.28	7.99	
<b>Oosterwegel, Emma (NED) (1991)</b>	time	2.76	3.80	4.84	5.91	6.95	7.98	9.01	10.04	11.11	12.20		13.44	1 / 2				
	reaction time	0.172	interval	1.04	1.04	1.07	1.04	1.03	1.03	1.03	1.07	1.09	1.24		3.15	3.10	3.19	
	velocity	4.71	8.17	8.17	7.94	8.17	8.25	8.25	8.25	7.94	7.80	8.10	7.44		8.10	8.23	7.99	
<b>Zamzow-Mahler, Ashtin (USA) (1991)</b>	time	2.60	3.64	4.67	5.69	6.72	7.75	8.78	9.91	11.03	12.20		13.47	8 / 3				
	reaction time	0.141	interval	1.04	1.03	1.02	1.03	1.03	1.13	1.12	1.17	1.27			3.09	3.09	3.42	
	velocity	5.00	8.17	8.25	8.33	8.25	8.25	8.25	7.52	7.59	7.26	7.91	7.42		8.25	8.25	7.46	
<b>Weißenberg, Sophie (GER) (1991)</b>	time	2.76	3.83	4.90	5.93	7.00	8.05	9.11	10.18	11.23	12.33		13.51	6 / 4				
	reaction time	0.153	interval	7 steps	1.07	1.07	1.03	1.07	1.05	1.06	1.07	1.05	1.10	1.18		3.17	3.18	3.22
	velocity	4.71	7.94	7.94	8.25	7.94	8.10	8.02	7.94	8.10	7.73	8.52	7.40		8.04	8.02	7.92	
<b>Johnson-Thompson, Katarina (GBR) (1991)</b>	time	2.62	3.74	4.82	5.86	6.94	8.01	9.09	10.15	11.23	12.35		13.55	2 / 5				
	reaction time	0.101	interval	7 steps	1.12	1.08	1.04	1.08	1.07	1.08	1.06	1.08	1.12	1.20		3.24	3.23	3.26
	velocity	4.96	7.59	7.87	8.17	7.87	7.94	7.87	8.02	7.87	7.59	8.37	7.38		7.87	7.89	7.82	
<b>Conte, Claudia (ESP) (1999)</b>	time	2.76	3.83	4.92	5.98	7.03	8.07	9.15	10.21	11.27	12.40		13.65	5 / 6				
	reaction time	0.136	interval	1.07	1.09	1.06	1.05	1.04	1.08	1.06	1.06	1.13	1.25		3.22	3.17	3.25	
	velocity	4.71	7.94	7.80	8.02	8.10	8.17	7.87	8.02	8.02	7.52	8.04	7.33		7.92	8.04	7.85	
<b>Ligarska, Paulina (POL) (1996)</b>	time	2.78	3.90	5.00	6.10	7.20	8.30	9.42	10.58	11.76	12.94		14.19	7 / 7				
	reaction time	0.140	interval	7 steps	1.12	1.10	1.10	1.10	1.12	1.16	1.18	1.25			3.32	3.32	3.52	
	velocity	4.68	7.59	7.73	7.73	7.73	7.73	7.59	7.33	7.20	7.20	8.04	7.05		7.68	7.68	7.24	

## 2022 Chinese National Grand Prix (Huangshi, CHN)

## FINAL

date 13-Jul-22 wind -1.1 m/s Gong (2023) - research on the technical characteristics of outstanding women's 100m hurdlers in china

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Chen Jiamin (CHN) (1996)</b>	time	2.63			5.74			8.82			12.01		13.33	/ 1			
	reaction time				3.11			3.08			3.19	1.32			3.11	3.08	3.19
	velocity	4.94			8.20			8.28			7.99	7.61	7.50		8.20	8.28	7.99
<b>Chen Yinfeng (CHN) (1998)</b>	time	2.65			5.76			8.86			12.11		13.48	/ 2			
	reaction time				3.11			3.10			3.25	1.37			3.11	3.10	3.25
	velocity	4.91			8.20			8.23			7.85	7.34	7.42		8.20	8.23	7.85
<b>Jiang Liyunzhe (CHN) (2002)</b>	time	2.67			5.87			9.01			12.28		13.66	/ 3			
	reaction time				3.20			3.14			3.27	1.38			3.20	3.14	3.27
	velocity	4.87			7.97			8.12			7.80	7.28	7.32		7.97	8.12	7.80
<b>Chen Yuyang (CHN) (2002)</b>	time	2.68			5.84			9.05			12.42		13.89	/ 4			
	reaction time				3.16			3.21			3.37	1.47			3.16	3.21	3.37
	velocity	4.85			8.07			7.94			7.57	6.84	7.20		8.07	7.94	7.57
<b>Tang Yuqing (CHN) (2003)</b>	time	2.84			6.11			9.36			12.80		14.12	/ 5			
	reaction time				3.27			3.25			3.44	1.32			3.27	3.25	3.44
	velocity	4.58			7.80			7.85			7.41	7.61	7.08		7.80	7.85	7.41

## 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
<b>Camacho-Quinn, Jasmine (PUR) (1991)</b>	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
<b>Amusan, Tobi (NGR) (1997)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	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
<b>Charlton, Devynne (BAH) (1995)</b>	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
<b>Visser, Nadine (NED) (1995)</b>	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
<b>Skrzyszowska, Pia (POL) (2001)</b>	time	2.50	3.53	4.53	5.56	6.56	7.56	8.56	9.62	10.65	11.70		12.91	8 / 7			
	reaction time	0.132	interval	1.03	1.00	1.03	1.00	1.00	1.00	1.06	1.03	1.05	1.21		3.06	3.00	3.14
	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
<b>Jones, Tia (USA) (2000)</b>	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	1.04	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
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Johnson, Alaysha (USA) (1994)</b>	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	<b>PB</b>		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
<b>Armstrong, Alia (USA) (2000)</b>	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	<b>PB</b>		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
<b>Marshall, Tonea (USA) (1998)</b>	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
<b>Jones, Tia (USA) (2000)</b>	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
<b>Salmon, Paula (USA) (1999)</b>	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
<b>Cunningham, Gabriele (USA) (2000)</b>	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
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.52	3.53	4.52	5.49	6.45	7.42	8.39	9.36	10.36	11.36		12.54	4 / 1				
	reaction time		interval	1.01	0.99	0.97	0.96	0.97	0.97	0.97	1.00	1.00	1.18			2.97	2.90	2.97
	velocity	5.16	8.42	8.59	8.76	8.85	8.76	8.76	8.76	8.76	8.50	8.50	8.52			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
<b>Amusan, Tobi (NGR) (1997)</b>	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												
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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	
<b>Amusan, Tobi (NGR) (1997)</b>	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	<b>NR PB</b>		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	8.67	8.38	8.06		8.64	9.01	8.70
<b>Charlton, Devynne (BAH) (1995)</b>	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
<b>Sember, Cindy (GBR) (1994)</b>	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
<b>Samba-Mayela, Cyréna (FRA) (2002)</b>	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
<b>Clay, Liz (AUS) (1995)</b>	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
<b>Kambundji, Ditaji (SUI) (2002)</b>	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
<b>Bapté, Laetitia (FRA) (1999)</b>	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	
<b>Amusan, Tobi (NGR) (1997)</b>	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
<b>Anderson, Britany (JAM) (200)</b>	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	0.98	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
<b>Visser, Nadine (NED) (1995)</b>	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
<b>Clay, Liz (AUS) (1995)</b>	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
<b>Hurske, Reetta (FIN) (1995)</b>	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	1.02	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
<b>Bogliolo, Luminosa (ITA) (199)</b>	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	1.02	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
<b>Kozák, Luca (HUN) (1996)</b>	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	1.23				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
<b>Sedney, Zoë (NED) (2001)</b>	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	1.02	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

**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	
<b>Johnson, Alaysha (USA) (199)</b>	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	<b>PB</b>		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
<b>Jones, Tia (USA) (2000)</b>	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	<b>PB</b>		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
<b>Cunningham, Gabriele (USA)</b>	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
<b>Brissett, Chanel (USA) (1999)</b>	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
<b>Vargas, Andrea Carolina (CRC)</b>	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
<b>Clemons, Christina (USA) (1998)</b>	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
<b>Chadwick, Payton (USA) (1999)</b>	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
<b>Vazquez, Paolo (PUR) (1998)</b>	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
<b>Armstrong, Alia (USA) (2000)</b>	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	8.50	8.50	8.17	8.59	7.96			8.56	8.67	8.39
<b>Jones, Jasmine (USA) (2001)</b>	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	<b>PB</b>			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
<b>Russell, Masai (USA) (2000)</b>	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
<b>Salmon, Paula (USA) (1999)</b>	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
<b>Robinson, Kaylah (USA) (1998)</b>	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
<b>Huven, Destiny (USA) (2001)</b>	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
<b>Roswell, Demisha (JAM) (1998)</b>	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
<b>Jones, Rayniah (USA) (2001)</b>	time	2.48	3.52	4.57	5.59	6.62	7.64	8.67	9.69	10.74	11.81			13.04	9 / <del>8</del>			
reaction time	interval		1.04	1.05	1.02	1.03	1.02	1.03	1.02	1.05	1.07	1.23	<b>DQ</b>			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
<b>Rocker, Destinee (USA) (1999)</b>	time	2.55	3.60	4.62	5.64	6.62	7.62	8.64	9.67	10.71	11.79			13.07	1 / <del>8</del>			
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	0.8 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
<b>Fukube, Mako (JPN) (1995)</b>	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
<b>Aoki, Masumi (JPN) (1994)</b>	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
<b>Tanaka, Yumi (JPN) (1998)</b>	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

<b>Nakajima, Hitomi (JPN) (1995)</b>	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
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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
<b>Tanaka, Kiyono (JPN) (2002)</b>	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
<b>Suzuki, Miho (JPN) (1996)</b>	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	0.4 m/s	Takefu (2023) - performance analysis of heptathletes 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
<b>Hemphill, Meg (JPN) (1996)</b>	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
<b>Odama, Karin (JPN) (1999)</b>	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
<b>Yamasaki, Yuki (JPN) (1995)</b>	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
<b>Rito, Nonoka (JPN) (1995)</b>	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	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
<b>Camacho-Quinn, Jasmine (PU)</b>	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
<b>Anderson, Britany (JAM) (200)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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	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
<b>Skrzyszowska, Pia (POL) (2001)</b>	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	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
<b>Williams, Danielle (JAM) (1992)</b>	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
<b>Visser, Nadine (NED) (1995)</b>	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
<b>Tapper, Megan (JAM) (1994)</b>	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	1.04	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
<b>Bogliolo, Luminosa (ITA) (199)</b>	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	1.04	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
<b>di Lazzaro, Elisa Maria (ITA) (1)</b>	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	1.27			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	1.02	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
Kiepusa, 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
Nagięc, 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, Tonia (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) (1991)	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	

<b>Harrison, Kendra (USA) (1992)</b>	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		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
	interval																
	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
<b>Cockrell, Anna (USA) (1997)</b>	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		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
	interval																
	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
<b>Bessho, Miyu (JPN) (2007)</b>	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				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
	interval																		
	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
<b>Matsubara, Shihori (JPN) (200)</b>	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				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
	interval																		
	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
<b>Fukamoto, Tomoho (JPN)</b>	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				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
	interval																		
	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
<b>Otoha, Osaki (JPN)</b>	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				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
	interval																		
	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
<b>Matsuura, Hikari (JPN)</b>	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				1.20	1.23	1.25	1.24	1.25	1.28	1.32	1.40	1.49				3.68	3.77	4.00
	interval																		
	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
<b>Dai, Yuno (JPN)</b>	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				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
	interval																		
	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
<b>Harrison, Kendra (USA) (1992)</b>	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			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
	interval																		
	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
<b>Amusan, Tobi (NGR) (1997)</b>	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			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
	interval																		
	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
<b>Anderson, Britany (JAM) (200)</b>	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			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
	interval																		
	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
<b>Charlton, Devynne (BAH) (199)</b>	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			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
	interval																		
	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
<b>Samba-Mayela, Cyréna (FRA)</b>	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			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
	interval																		
	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
<b>Cunningham, Gabriele (USA)</b>	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			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
	interval																		
	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
<b>Chadwick, Payton (USA) (199)</b>	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			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
	interval																		
	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
<b>Tapper, Megan (JAM) (1994)</b>	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			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
	interval																		
	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
<b>Johnson, Alaysha (USA) (199)</b>	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			1.02	0.99	0.97	0.95	0.95	0.97	0.97	1.02	0.98	1.16	<b>PB</b>		2.98	2.87	2.97
	interval																		
	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

<b>Camacho-Quinn, Jasmine (PU)</b> 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
<b>Williams, Danielle (JAM) (1992)</b> 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
<b>Harrison, Kendra (USA) (1992)</b> 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
<b>Fukube, Mako (JPN) (1995)</b> 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
<b>Cunningham, Gabriel (USA) (1995)</b> 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
<b>Terada, Asuka (JPN) (1990)</b> 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
<b>Tapper, Megan (JAM) (1994)</b> 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
<b>Shimura, Hitomi (JPN) (1990)</b> 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
<b>Tanaka, Yumi (JPN) (1998)</b> 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
<b>Suzuki, Miho (JPN) (1996)</b> 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
<b>Aoki, Masumi (JPN) (1994)</b> 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
<b>Mucci, Celeste (AUS) (1999)</b> 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
<b>Shimura, Hitomi (JPN) (1990)</b> 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
<b>Suzuki, Miho (JPN) (1996)</b> 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
<b>Tanaka, Yumi (JPN) (1998)</b> 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
<b>Tamaoki, Nanako (JPN) (2000)</b> 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
<b>Nakajima, Hitomi (JPN) (1995)</b> 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
<b>Kamada, Saki (JPN) (1997)</b> 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
<b>Omura, Mika (JPN) (1995)</b>	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>													
		<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Yamasaki, Yuki (JPN) (1995)</b>	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>													
		<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Hemphill, Meg (JPN) (1996)</b>	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>													
		<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>McLaughlin, Sydney (USA) (1994)</b>	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	1.20			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	8.38	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 &amp; foreign first-class women's 100m hurdles in the 2022 season</i>													
		<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Mucci, Celeste (AUS) (1999)</b>	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
<b>Fukube, Mako (JPN) (1995)</b>	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	9.05	7.57		8.07	8.12	8.02
<b>Aoki, Masumi (JPN) (1994)</b>	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	8.10	8.10	8.02	8.10	8.89	7.55		7.94	8.15	8.07
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Tanaka, Yumi (JPN) (1998)</b>	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
<b>Tamaoki, Nanako (JPN) (2000)</b>	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
<b>Suzuki, Miho (JPN) (1996)</b>	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
<b>Nakajima, Hitomi (JPN) (1995)</b>	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 &amp; foreign first-class women's 100m hurdles in the 2022 season</i>													
		<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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
<b>Fujimori, Nana (JPN) (1997)</b>	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
<b>Tezuka, Mai (JPN) (2001)</b>	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
<b>Takeuchi, Maya (JPN) (1998)</b>	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
<b>Okubo, Yuri (JPN) (1997)</b>	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
<b>Omatso, Yuki (JPN) (1996)</b>	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
<b>Tanaka, Hikari (JPN) (1998)</b>	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
<b>Marshall, Toneya (USA) (1998)</b>	time	2.50	3.50	4.50	5.46	6.42	7.38	8.34	9.32	10.30	11.30			12.46	6 / 1			
reaction time	interval		1.00	1.00	0.96	0.96	0.96	0.96	0.98	0.98	1.00	1.16				2.96	2.88	2.96
	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
<b>Harrison, Kendra (USA) (1992)</b>	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	0.96	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
<b>Jones, Tia (USA) (2000)</b>	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	<b>PB</b>			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
<b>Amusan, Tobi (NGR) (1997)</b>	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
<b>Sember, Cindy (GBR) (1994)</b>	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
<b>Clemons, Christina (USA) (1991)</b>	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
<b>Castlin, Kristi (USA) (1988)</b>	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
<b>Brissett, Chanel (USA) (1999)</b>	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	1.00	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
<b>Cockrell, Anna (USA) (1997)</b>	time	2.63	3.63	4.63	5.63	6.63	7.63	8.65	9.67	10.70	11.76			12.92	1 / 9			
reaction time	interval		1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.03	1.06	1.16				3.00	3.02	3.11
	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
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Clemons, Christina (USA) (1991)</b>	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
<b>Marshall, Toneya (USA) (1998)</b>	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
<b>Armstrong, Alia (USA) (2000)</b>	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
<b>Robinson, Kaylah (USA) (1995)</b>	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
<b>Nugent, Ackera (JAM) (2002)</b>	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
<b>Samba-Mayela, Cyréna (FRA)</b>	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		
<b>Charlton, Devynne (BAH) (1997)</b>	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		
<b>Cunningham, Gabriele (USA)</b>	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		
<b>Anderson, Britany (JAM) (200)</b>	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		
<b>Mota, Yoveinny (VEN) (2000)</b>	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		
<b>Sedney, Zoë (NED) (2001)</b>	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		
<b>Lavin, Sarah (IRL) (1994)</b>	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		
<b>Kambundji, Ditaji (SUI) (2002)</b>	time	2.44	3.46											8 / --			
reaction time	0.108 interval		1.02										dnf				
	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
<b>Lin Yuwei (CHN) (1999)</b>	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
<b>Wu Yanni (CHN) (1997)</b>	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	1.04	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	8.17	8.50	7.94	8.10	8.10	7.75		8.33	8.50	8.20
<b>Wang Dou (CHN) (1993)</b>	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	1.20		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
<b>Dai Yiru (CHN) (2001)</b>	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	1.28				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
<b>Luo Xianyan (CHN) (1997)</b>	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	1.28		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
<b>Wang Li (CHN) (1999)</b>	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	1.26				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
<b>You Na (CHN) (1993)</b>	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	1.27				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
<b>Chen Yinfeng (CHN) (1998)</b>	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	1.27				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	1.01	0.98	0.99	1.00	1.02	1.02	1.07	1.25	<b>PB</b>		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	1.02	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	1.07	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	1.06	1.05	1.11	1.31	<b>PB</b>		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	1.08	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	<b>AR</b>		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	0.96	0.98	1.00	1.04	1.17	<b>NR PB</b>		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	0.96	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) (1994)	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	0.98	0.96	1.00	0.98	1.04	1.20	<b>PB</b>		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	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	1.00	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	1.00	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) (1994)	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	1.08	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	7.30		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	0.98	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	8.85	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	0.98	0.96	0.98	0.98									

<b>Tapper, Megan (JAM) (1994)</b>	time	2.52	3.54	4.52	5.48	6.46	7.44	8.44	9.46	10.48	11.54		12.77	6 / 3			
reaction time	0.154	interval	1.02	0.98	0.96	0.98	0.98	1.00	1.02	1.02	1.06	1.23			2.96	2.96	3.10
	velocity	5.16	8.33	8.67	8.85	8.67	8.67	8.50	8.33	8.33	8.02	8.17	7.83		8.61	8.61	8.23
<b>Sember, Cindy (GBR) (1994)</b>	time	2.56	3.62	4.62	5.60	6.60	7.58	8.56	9.54	10.58	11.62		12.79	2 / 4			
reaction time	0.174	interval	1.06	1.00	0.98	1.00	0.98	0.98	0.98	1.04	1.04	1.17			3.04	2.96	3.06
	velocity	5.08	8.02	8.50	8.67	8.50	8.67	8.67	8.67	8.17	8.17	8.59	7.82		8.39	8.61	8.33
<b>Cunningham, Gabriele (USA)</b>	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	8.17	7.76		8.44	8.39	8.17
<b>Zagré, Anne (BEL) (1990)</b>	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	7.72		8.44	8.56	8.23
<b>Vidts, Noor (BEL) (1996)</b>	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	8.02	7.73	7.73	7.91	7.38		7.87	8.17	7.82
<b>Williams, Danielle (JAM) (1992)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	time	2.44	3.44	4.44	5.42	6.40	7.36	8.32	9.30	10.30	11.32		12.50	2 / 1			
reaction time	0.137	interval	1.00	1.00	0.98	0.98	0.96	0.96	0.98	1.00	1.02	1.18			2.98	2.90	3.00
	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
<b>Visser, Nadine (NED) (1995)</b>	time	2.52	3.52	4.52	5.50	6.46	7.42	8.40	9.38	10.38	11.40		12.58	3 / 2			
reaction time	0.152	interval	1.00	1.00	0.98	0.96	0.96	0.98	0.98	1.00	1.02	1.18	NR PB		2.98	2.90	3.00
	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
<b>Tapper, Megan (JAM) (1994)</b>	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
<b>Amusan, Tobi (NGR) (1997)</b>	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	0.98	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	8.50	8.31	7.88		8.44	8.73	8.50
<b>Cunningham, Gabriele (USA)</b>	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
<b>Clemons, Christina (USA) (19)</b>	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	1.00	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)

#### Heptathlon - Heat 3

date 04-Aug-21 wind -0.8 m/s Henson (2024) - 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
<b>Williams, Kendel (USA) (1995)</b>	time	2.63	3.63	4.63	5.62	6.62	7.62	8.62	9.66	10.69	11.77		12.97	6 / 1			
reaction time	0.149	interval	1.00	1.00	0.99	1.00	1.00	1.00	1.04	1.03	1.08	1.20			2.99	3.00	3.15
	velocity	4.94	8.50	8.50	8.59	8.50	8.50	8.50	8.17	8.25	7.87	8.37	7.71		8.53	8.50	8.10
<b>Koala, Marthe (BUR) (1994)</b>	time	2.63	3.63	4.66	5.66	6.66	7.69	8.70	9.75	10.78	11.87		13.07	7 / 2			
reaction time	0.139	interval	1.00	1.03	1.00	1.00	1.03	1.01	1.05	1.03	1.09	1.20			3.03	3.04	3.17
	velocity	4.94	8.50	8.25	8.50	8.50	8.25	8.42	8.10	8.25	7.80	8.37	7.65		8.42	8.39	8.04
<b>Vetter, Anouk (NED) (1993)</b>	time	2.62	3.62	4.65	5.66	6.66	7.69	8.74	9.77	10.82	11.90		13.09	5 / 3			
reaction time	0.134	interval	1.00	1.03	1.01	1.00	1.03	1.05	1.03	1.05	1.08	1.19	PB		3.04	3.08	3.16
	velocity	4.96	8.50	8.25	8.42	8.50	8.25	8.10	8.25	8.10	7.87	8.45	7.64		8.39	8.28	8.07
<b>Bougard, Erica (USA) (1993)</b>	time	2.70	3.78	4.82	5.83	6.83	7.83	8.83	9.83	10.86	11.94		13.14	2 / 4			
reaction time	0.176	interval	1.08	1.04	1.01	1.00	1.00	1.00	1.00	1.03	1.08	1.20			3.13	3.00	3.11
	velocity	4.81	7.87	8.17	8.42	8.50	8.50	8.50	8.50	8.25	7.87	8.37	7.61		8.15	8.50	8.20
<b>Zheng Ninali (CHN) (1998)</b>	time	2.63	3.67	4.70	5.75	6.77	7.82	8.85	9.90	10.98	12.07		13.27	3 / 5			
reaction time	0.123	interval	1.04	1.03	1.05	1.02	1.05	1.03	1.05	1.08	1.09	1.20	PB		3.12	3.10	3.22
	velocity	4.94	8.17	8.25	8.10	8.33	8.10	8.25	8.10	7.87	7.80	8.38	7.54		8.17	8.23	7.92
<b>Ahouanwanou, Odile (BEN) (†)</b>	time	2.75	3.81	4.83	5.86	6.90	7.95	8.99	10.03	11.09	12.15		13.31	4 / 6			

	reaction time	0.177	interval	7 steps	1.06	1.02	1.03	1.04	1.05	1.04	1.04	1.06	1.06	1.16		3.11	3.13	3.16		
			velocity		4.73	8.02	8.33	8.25	8.17	8.10	8.17	8.17	8.02	8.02	8.66	7.51	8.20	8.15	8.07	
<b>Kunz, Annie (USA) (1993)</b>	time	2.58	3.60	4.62	5.66	6.88	7.97	9.06	10.15	11.22	12.30				13.49	9 / 7				
	reaction time	0.137	interval	7 steps	1.02	1.02	1.04	1.22	1.09	1.09	1.09	1.07	1.08	1.19		3.08	3.40	3.24		
			velocity		5.04	8.33	8.33	8.17	6.97	7.80	7.80	7.80	7.94	7.87	8.45	7.41	8.28	7.50	7.87	
<b>Krizsán, Xénia (HUN) (1993)</b>	time	2.66	3.75	4.83	5.86	6.95	7.98	9.02	10.14	11.22	12.34				13.58	8 / 8				
	reaction time	0.152	interval		1.09	1.08	1.03	1.09	1.03	1.04	1.12	1.08	1.12	1.24		3.20	3.16	3.32		
			velocity		4.89	7.80	7.87	8.25	7.80	8.25	8.17	7.59	7.87	7.59	8.10	7.36	7.97	8.07	7.68	
<b>Heptathlon - Heat 2</b>				date	04-Aug-21	wind	0.3 m/s	<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>												
					<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Vidts, Noor (BEL) (1996)</b>	time	2.66	3.71	4.75	5.76	6.80	7.82	8.84	9.86	10.91	12.02				13.17	8 / 1				
	reaction time	0.129	interval		1.05	1.04	1.01	1.04	1.02	1.02	1.02	1.05	1.11	1.15	<b>PB</b>		3.10	3.08	3.18	
			velocity		4.89	8.10	8.17	8.42	8.17	8.33	8.33	8.33	8.10	7.66	8.74	7.59	8.23	8.28	8.02	
<b>Huntington, Maria (FIN) (1997)</b>	time	2.71	3.74	4.79	5.79	6.80	7.82	8.85	9.86	10.91	12.01				13.20	6 / 2				
	reaction time	0.190	interval		1.03	1.05	1.00	1.01	1.02	1.03	1.01	1.05	1.10	1.19		3.08	3.06	3.16		
			velocity		4.80	8.25	8.10	8.50	8.42	8.33	8.25	8.42	8.10	7.73	8.45	7.58	8.28	8.33	8.07	
<b>Schäfer, Carolin (GER) (1991)</b>	time	2.66	3.75	4.80	5.83	6.85	7.86	8.88	9.95	11.02	12.06				13.29	9 / 3				
	reaction time	0.141	interval		1.09	1.05	1.03	1.02	1.01	1.02	1.07	1.07	1.04	1.23		3.17	3.05	3.18		
			velocity		4.89	7.80	8.10	8.25	8.33	8.42	8.33	7.94	7.94	8.17	8.17	7.52	8.04	8.36	8.02	
<b>Vicente, María (ESP) (2001)</b>	time	2.71	3.79	4.83	5.86	6.87	7.91	8.98	10.06	11.14	12.26				13.44	2 / 4				
	reaction time	0.154	interval		1.08	1.04	1.03	1.01	1.04	1.07	1.08	1.08	1.12	1.18		3.15	3.12	3.28		
			velocity		4.80	7.87	8.17	8.25	8.42	8.17	7.94	7.87	7.87	7.59	8.52	7.44	8.10	8.17	7.77	
<b>Ellenwood, Georgia (CAN) (1999)</b>	time	2.72	3.80	4.86	5.94	7.03	8.05	9.07	10.15	11.20	12.26				13.47	5 / 5				
	reaction time	0.158	interval		1.08	1.06	1.08	1.09	1.02	1.02	1.08	1.05	1.06	1.21		3.22	3.13	3.19		
			velocity		4.78	7.87	8.02	7.87	7.80	8.33	8.33	7.87	8.10	8.02	8.31	7.42	7.92	8.15	7.99	
<b>Sufek, Adrianna (POL) (1999)</b>	time	2.79	3.86	4.92	6.00	7.06	8.07	9.14	10.22	11.27	12.35				13.58	3 / 6				
	reaction time	0.182	interval		1.07	1.06	1.08	1.06	1.01	1.07	1.08	1.05	1.08	1.23		3.21	3.14	3.21		
			velocity		4.66	7.94	8.02	7.87	8.02	8.42	7.94	7.87	8.10	7.87	8.17	7.36	7.94	8.12	7.94	
<b>Dadic, Ivona (AUT) (1993)</b>	time	2.66	3.74	4.83	5.87	6.94	8.02	9.06	10.15	11.26	12.39				13.61	7 / 7				
	reaction time	0.140	interval	7 steps	1.08	1.09	1.04	1.07	1.08	1.04	1.09	1.11	1.13	1.22		3.21	3.19	3.33		
			velocity		4.89	7.87	7.80	8.17	7.94	7.87	8.17	7.80	7.66	7.52	8.24	7.35	7.94	7.99	7.66	
<b>Mayr, Verena (AUT) (1995)</b>	time	2.75	3.83	4.87	5.92	6.99	8.06	9.11	10.22	11.31	12.43				13.65	4 / 8				
	reaction time	0.149	interval		1.08	1.04	1.05	1.07	1.07	1.05	1.11	1.09	1.12	1.22		3.17	3.19	3.32		
			velocity		4.73	7.87	8.17	8.10	7.94	7.94	8.10	7.66	7.80	7.59	8.24	7.33	8.04	7.99	7.68	
<b>Heptathlon - Heat 1</b>				date	04-Aug-21	wind	0.2 m/s	<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>												
					<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Johnson-Thompson, Katarina (GBR) (1993)</b>	time	2.71	3.75	4.79	5.84	6.87	7.91	8.93	9.96	11.02	12.10				13.27	7 / 1				
	reaction time	0.166	interval	7 steps	1.04	1.04	1.05	1.03	1.04	1.02	1.03	1.06	1.08	1.17		3.13	3.09	3.17		
			velocity		4.80	8.17	8.17	8.10	8.25	8.17	8.33	8.25	8.02	7.87	8.59	7.54	8.15	8.25	8.04	
<b>Oosterwegel, Emma (NED) (1999)</b>	time	2.73	3.80	4.84	5.89	6.91	7.93	8.98	10.02	11.06	12.13				13.36	5 / 2				
	reaction time	0.176	interval		1.07	1.04	1.05	1.02	1.02	1.05	1.04	1.04	1.07	1.23	<b>PB</b>		3.16	3.09	3.15	
			velocity		4.76	7.94	8.17	8.10	8.33	8.33	8.10	8.17	8.17	7.94	8.17	7.49	8.07	8.25	8.10	
<b>Thiam, Nafissatou (BEL) (1994)</b>	time	2.68	3.74	4.82	5.86	6.91	7.94	9.03	10.11	11.20	12.31				13.54	8 / 3				
	reaction time	0.156	interval		1.06	1.08	1.04	1.05	1.03	1.09	1.08	1.09	1.11	1.23		3.18	3.17	3.28		
			velocity		4.85	8.02	7.87	8.17	8.10	8.25	7.80	7.87	7.80	7.66	8.17	7.39	8.02	8.04	7.77	
<b>Broersen, Nadine (NED) (1990)</b>	time	2.71	3.79	4.84	5.91	6.94	8.03	9.11	10.21	11.32	12.51				13.74	3 / 4				
	reaction time	0.146	interval		1.08	1.05	1.07	1.03	1.09	1.08	1.10	1.11	1.19	1.23		3.20	3.20	3.40		
			velocity		4.80	7.87	8.10	7.94	8.25	7.80	7.87	7.73	7.66	7.14	8.17	7.28	7.97	7.97	7.50	
<b>Grimm, Vanessa (GER) (1997)</b>	time	2.80	3.91	4.95	6.04	7.11	8.23	9.31	10.41	11.50	12.66				13.88	6 / 5				
	reaction time	0.176	interval		1.11	1.04	1.09	1.07	1.12	1.08	1.10	1.09	1.16	1.22		3.24	3.27	3.35		
			velocity		4.64	7.66	8.17	7.80	7.94	7.59	7.87	7.73	7.80	7.33	8.24	7.20	7.87	7.80	7.61	
<b>Aguilar, Evelyn (COL) (1993)</b>	time	2.71	3.79	4.91	5.99	7.11	8.20	9.31	10.46	11.54	12.71				13.89	4 / 6				
	reaction time	0.133	interval		1.08	1.12	1.08	1.12	1.09	1.11	1.15	1.08	1.17	1.18		3.28	3.32	3.40		
			velocity		4.80	7.87	7.59	7.87	7.59	7.80	7.66	7.39	7.87	7.26	8.52	7.20	7.77	7.68	7.50	
<b>Voronina, Yekaterina (UZB) (1991)</b>	time	2.86	3.99	5.11	6.22	7.31	8.44	9.55	10.71	11.82					14.19	9 / 7				
	reaction time	0.179	interval		1.13	1.12	1.11	1.09	1.13	1.11	1.16	1.11			<b>PB</b>		3.36	3.33		
			velocity		4.55	7.52	7.59	7.66	7.80	7.52	7.66	7.33	7.66		7.05	7.59	7.66			
<b>Rodríguez, Yorgelis (CUB) (1988)</b>	time	2.80	3.91												dnf	2 / --				
	reaction time	0.132	interval		1.11															



velocity 4.64 7.66

## 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
<b>Camacho-Quinn, Jasmine (PU)</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	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	1.02	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
<b>Tapper, Megan (JAM) (1994)</b>	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	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
<b>Amusan, Tobi (NGR) (1997)</b>	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	1.18	<b>PB</b>		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
<b>Visser, Nadine (NED) (1995)</b>	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	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
<b>Charlton, Devynne (BAH) (1995)</b>	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	1.02	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
<b>Cunningham, Gabriele (USA)</b>	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	1.02	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
<b>Anderson, Britany (JAM) (200)</b>	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	1.44			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 (2024) - 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
<b>Camacho-Quinn, Jasmine (PU)</b>	time	2.53	3.53	4.49	5.44	6.38	7.31	8.25	9.21	10.17	11.17		12.26	7 / 1			
	reaction time	0.175	interval	1.00	0.96	0.95	0.94	0.93	0.94	0.96	1.00	1.09	<b>OR AR PB</b>		2.91	2.81	2.92
	velocity	5.14	8.50	8.85	8.95	9.04	9.14	9.04	8.85	8.85	8.50	9.22	8.16		8.76	9.07	8.73
<b>Tapper, Megan (JAM) (1994)</b>	time	2.58	3.61	4.58	5.53	6.49	7.45	8.44	9.44	10.44	11.47		12.62	4 / 2			
	reaction time	0.155	interval	1.03	0.97	0.95	0.96	0.96	0.99	1.00	1.03	1.15			2.95	2.91	3.03
	velocity	5.04	8.25	8.76	8.95	8.85	8.85	8.59	8.50	8.50	8.25	8.74	7.92		8.64	8.76	8.42
<b>Visser, Nadine (NED) (1995)</b>	time	2.61	3.61	4.58	5.53	6.49	7.45	8.45	9.45	10.44	11.51		12.63	6 / 3			
	reaction time	0.156	interval	1.00	0.97	0.95	0.96	0.96	1.00	1.00	0.99	1.12			2.92	2.92	3.06
	velocity	4.98	8.50	8.76	8.95	8.85	8.85	8.50	8.50	8.59	7.94	8.97	7.92		8.73	8.73	8.33
<b>Cunningham, Gabriele (USA)</b>	time	2.53	3.53	4.49	5.44	6.43	7.42	8.41	9.41	10.44	11.47		12.67	8 / 4			
	reaction time	0.165	interval	1.00	0.96	0.95	0.99	0.99	1.00	1.03	1.03	1.20			2.91	2.97	3.06
	velocity	5.14	8.50	8.85	8.95	8.59	8.59	8.59	8.50	8.25	8.25	8.38	7.89		8.76	8.59	8.33
<b>Herman, Elvira (BLR) (1997)</b>	time	2.62	3.64	4.62	5.58	6.54	7.50	8.49	9.48	10.50	11.51		12.71	9 / 5			
	reaction time	0.129	interval	1.02	0.98	0.96	0.96	0.99	0.99	1.02	1.01	1.20			2.96	2.91	3.02
	velocity	4.96	8.33	8.67	8.85	8.85	8.85	8.59	8.59	8.33	8.42	8.37	7.87		8.61	8.76	8.44
<b>Morrison, Ebony (LBR) (1994)</b>	time	2.53	3.57	4.57	5.57	6.54	7.52	8.52	9.53	10.58	11.64		12.74	2 / 6			
	reaction time	0.144	interval	1.04	1.00	1.00	0.97	0.98	1.00	1.01	1.05	1.10	<b>NR PB</b>		3.04	2.95	3.12
	velocity	5.14	8.17	8.50	8.50	8.76	8.67	8.50	8.42	8.10	8.02	9.14	7.85		8.39	8.64	8.17
<b>Sember, Cindy (GBR) (1994)</b>	time	2.58	3.62	4.61	5.61	6.58	7.57	8.57	9.56	10.57	11.62		12.76	3 / 7			
	reaction time	0.163	interval	1.04	0.99	1.00	0.97	0.99	1.00	0.99	1.01	1.05	1.14		3.03	2.96	3.05
	velocity	5.04	8.17	8.59	8.50	8.76	8.59	8.50	8.59	8.42	8.10	8.82	7.84		8.42	8.61	8.36
<b>Zagré, Anne (BEL) (1990)</b>	time	2.64	3.64	4.64	5.64	6.61	7.59	8.58	9.57	10.58	11.62		12.78	5 / 8			
	reaction time	0.153	interval	1.00	1.00	1.00	0.97	0.98	0.99	0.99	1.01	1.04	1.16		3.00	2.94	3.04
	velocity	4.92	8.50	8.50	8.50	8.76	8.67	8.59	8.59	8.42	8.17	8.66	7.82		8.50	8.67	8.39

## Semi-Final 2

date 01-Aug-21 wind 0.0 m/s

Henson (2024) - 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
<b>Anderson, Britany (JAM) (200)</b>	time	2.50	3.50	4.52	5.50	6.45	7.38	8.30	9.25	10.25	11.25		12.40	4 / 1			
	reaction time	0.166	interval	1.00	1.02	0.98	0.95	0.93	0.92	0.95	1.00	1.15	<b>PB</b>		3.00	2.80	2.95
	velocity	5.20	8.50	8.33	8.67	8.95	9.14	9.24	8.95	8.50	8.50	8.74	8.06		8.50	9.11	8.64

<b>Harrison, Kendra (USA) (1992)</b>	time	2.49	3.49	4.50	5.45	6.38	7.34	8.29	9.25	10.28	11.30		12.51	7 / 2			
	reaction time	0.153	interval	1.00	1.01	0.95	0.93	0.96	0.95	0.96	1.03	1.02	1.21		2.96	2.84	3.01
	velocity	5.22	8.50	8.42	8.95	9.14	8.85	8.95	8.85	8.25	8.33	8.31	7.99		8.61	8.98	8.47
<b>Clay, Liz (AUS) (1995)</b>	time	2.52	3.52	4.55	5.53	6.52	7.51	8.49	9.49	10.49	11.52		12.71	6 / 3			
	reaction time	0.142	interval	1.00	1.03	0.98	0.99	0.99	0.98	1.00	1.00	1.03	1.19		3.01	2.96	3.03
	velocity	5.16	8.50	8.25	8.67	8.59	8.59	8.67	8.50	8.50	8.25	8.45	7.87		8.47	8.61	8.42
<b>Bogliolo, Luminosa (ITA) (199)</b>	time	2.53	3.53	4.56	5.53	6.52	7.52	8.49	9.49	10.50	11.54		12.75	8 / 4			
	reaction time	0.143	interval	1.00	1.03	0.97	0.99	1.00	0.97	1.00	1.01	1.04	1.21		3.00	2.96	3.05
	velocity	5.14	8.50	8.25	8.76	8.59	8.50	8.76	8.50	8.42	8.17	8.31	7.84		8.50	8.61	8.36
<b>Porter, Tiffany (GBR) (1987)</b>	time	2.49	3.53	4.55	5.52	6.52	7.52	8.49	9.50	10.52	11.56		12.86	9 / 5			
	reaction time	0.150	interval	1.04	1.02	0.97	1.00	1.00	0.97	1.01	1.02	1.04	1.30		3.03	2.97	3.07
	velocity	5.22	8.17	8.33	8.76	8.50	8.50	8.76	8.42	8.33	8.17	7.73	7.78		8.42	8.59	8.31
<b>Skrzyszowska, Pia (POL) (2001)</b>	time	2.53	3.61	4.65	5.66	6.64	7.62	8.62	9.62	10.64	11.69		12.89	5 / 6			
	reaction time	0.128	interval	1.08	1.04	1.01	0.98	0.98	1.00	1.00	1.02	1.05	1.20		3.13	2.96	3.07
	velocity	5.14	7.87	8.17	8.42	8.67	8.67	8.50	8.50	8.33	8.10	8.37	7.76		8.15	8.61	8.31
<b>Jean, Mulern (HAI) (1992)</b>	time	2.50	3.57	4.58	5.58	6.57	7.57	8.58	9.61	10.69	11.81		13.09	2 / 7			
	reaction time	0.156	interval	1.07	1.01	1.00	0.99	1.00	1.01	1.03	1.08	1.12	1.28		3.08	3.00	3.23
	velocity	5.20	7.94	8.42	8.50	8.59	8.50	8.42	8.25	7.87	7.59	7.85	7.64		8.28	8.50	7.89
<b>Seymour, Pedrya (BAH) (1995)</b>	time	2.57	3.63	4.68	5.70	6.69	7.70	8.69	9.69	10.72	11.81		13.09	3 / 8			
	reaction time	0.185	interval	1.06	1.05	1.02	0.99	1.01	0.99	1.00	1.03	1.09	1.28		3.13	2.99	3.12
	velocity	5.06	8.02	8.10	8.33	8.59	8.42	8.59	8.50	8.25	7.80	7.85	7.64		8.15	8.53	8.17

## Semi-Final 1

date 01-Aug-21

wind -0.8 m/s

Henson (2024) - 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	
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.46	3.51	4.51	5.48	6.46	7.43	8.39	9.37	10.37	11.43		12.62	5 / 1				
	reaction time	0.148	interval	1.05	1.00	0.97	0.98	0.97	0.96	0.98	1.00	1.06	1.19		3.02	2.91	3.04	
	velocity	5.28	8.10	8.50	8.76	8.67	8.76	8.85	8.67	8.50	8.02	8.45	7.92		8.44	8.76	8.39	
<b>Charlton, Devynne (BAH) (199)</b>	time	2.46	3.46	4.46	5.46	6.42	7.38	8.35	9.35	10.35	11.42		12.66	8 / 2				
	reaction time	0.134	interval	1.00	1.00	1.00	0.96	0.96	0.97	1.00	1.00	1.07	1.24		3.00	2.89	3.07	
	velocity	5.28	8.50	8.50	8.50	8.85	8.85	8.76	8.50	8.50	7.94	8.10	7.90		8.50	8.82	8.31	
<b>Vargas, Andrea Carolina (CRC) (199)</b>	time	2.51	3.51	4.51	5.48	6.46	7.46	8.46	9.45	10.46	11.49		12.69	4 / 3				
	reaction time	0.139	interval	1.00	1.00	0.97	0.98	1.00	1.00	0.99	1.01	1.03	1.20		2.97	2.98	3.03	
	velocity	5.18	8.50	8.50	8.76	8.67	8.50	8.50	8.59	8.42	8.25	8.38	7.88		8.59	8.56	8.42	
<b>Clemons, Christina (USA) (199)</b>	time	2.46	3.46	4.46	5.46	6.43	7.42	8.42	9.42	10.46	11.52		12.76	7 / 4				
	reaction time	0.118	interval	1.00	1.00	1.00	0.97	0.99	1.00	1.00	1.04	1.06	1.24		3.00	2.96	3.10	
	velocity	5.28	8.50	8.50	8.50	8.76	8.59	8.50	8.50	8.17	8.02	8.10	7.84		8.50	8.61	8.23	
<b>Siciarz, Klaudia (POL) (1998)</b>	time	2.46	3.51	4.54	5.53	6.51	7.51	8.51	9.54	10.57	11.62		12.84	2 / 5				
	reaction time	0.146	interval	7 steps	1.05	1.03	0.99	0.98	1.00	1.00	1.03	1.03	1.05	1.22		3.07	2.98	3.11
	velocity	5.28	8.10	8.25	8.59	8.67	8.50	8.50	8.25	8.25	8.10	8.24	7.79		8.31	8.56	8.20	
<b>Terada, Asuka (JPN) (1990)</b>	time	2.51	3.54	4.57	5.61	6.63	7.65	8.66	9.71	10.77	11.84		13.06	3 / 6				
	reaction time	0.163	interval	1.03	1.03	1.04	1.02	1.01	1.05	1.06	1.07	1.22			3.10	3.05	3.18	
	velocity	5.18	8.25	8.25	8.17	8.33	8.33	8.42	8.10	8.02	7.94	8.24	7.66		8.23	8.36	8.02	
<b>Kozák, Luca (HUN) (1996)</b>	time	2.55	3.58	4.58	5.57	6.56	7.57						dnf	9 / --				
	reaction time	0.164	interval	1.03	1.00	0.99	0.99	1.01							3.02			
	velocity	5.10	8.25	8.50	8.59	8.59	8.42								8.44			
<b>Thompson, Yanique (JAM) (199)</b>	time	2.51	3.51	4.51	5.48	6.46	7.46						dnf	6 / --				
	reaction time	0.145	interval	1.00	1.00	0.97	0.98	1.00							2.97			
	velocity	5.18	8.50	8.50	8.76	8.67	8.50								8.59			

## Heat 5

date 31-Jul-21

wind 0.3 m/s

Henson (2024) - 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
<b>Camacho-Quinn, Jasmine (PU) (199)</b>	time	2.52	3.52	4.52	5.49	6.44	7.39	8.37	9.32	10.29	11.29		12.41	2 / 1			
	reaction time	0.153	interval	1.00	1.00	0.97	0.95	0.95	0.98	0.95	0.97	1.00	1.12		2.97	2.88	2.92
	velocity	5.16	8.50	8.50	8.76	8.95	8.95	8.67	8.95	8.76	8.50	8.97	8.06		8.59	8.85	8.73
<b>Tapper, Megan (JAM) (1994)</b>	time	2.56	3.57	4.54	5.50	6.47	7.43	8.39	9.37	10.37	11.37		12.53	5 / 2			
	reaction time	0.163	interval	1.01	0.97	0.96	0.97	0.96	0.96	0.98	1.00	1.00	1.16		2.94	2.89	2.98
	velocity	5.08	8.42	8.76	8.85	8.76	8.85	8.85	8.67	8.50	8.50	8.66	7.98		8.67	8.82	8.56
<b>Zagré, Anne (BEL) (1990)</b>	time	2.59	3.60	4.64	5.67	6.67	7.66	8.64	9.63	10.64	11.67		12.83	8 / 3			
	reaction time	0.153	interval	1.01	1.04	1.03	1.00	0.99	0.98	0.99	1.01	1.03	1.16		3.08	2.97	3.03
	velocity	5.02	8.42	8.17	8.25	8.50	8.59	8.67	8.59	8.42	8.25	8.66	7.79		8.28	8.59	8.42
<b>Porter, Tiffany (GBR) (1987)</b>	time	2.53	3.55	4.57	5.56	6.56	7.56	8.56	9.56	10.59	11.68		12.85	6 / 4			

reaction time	0.139	interval	1.02	1.02	0.99	1.00	1.00	1.00	1.00	1.03	1.09	1.17		3.03	3.00	3.12	
		velocity	5.14	8.33	8.33	8.59	8.50	8.50	8.50	8.50	8.25	7.80	8.59	7.78	8.42	8.50	8.17
<b>Terada, Asuka (JPN) (1990)</b>	time	2.53	3.56	4.61	5.67	6.66	7.67	8.68	9.73	10.76	11.79		12.95	4 / 5			
reaction time	0.164	interval	1.03	1.05	1.06	0.99	1.01	1.01	1.05	1.03	1.03	1.16		3.14	3.01	3.11	
		velocity	5.14	8.25	8.10	8.02	8.59	8.42	8.42	8.10	8.25	8.25	8.66	7.72	8.12	8.47	8.20
<b>Siciarz, Klaudia (POL) (1998)</b>	time	2.59	3.66	4.70	5.72	6.72	7.70	8.72	9.74	10.76	11.79		12.98	3 / 6			
reaction time	0.165	interval	7 steps 1.07	1.04	1.02	1.00	0.98	1.02	1.02	1.02	1.03	1.19		3.13	3.00	3.07	
		velocity	5.02	7.94	8.17	8.33	8.50	8.67	8.33	8.33	8.33	8.25	8.45	7.70	8.15	8.50	8.31
<b>Sedney, Zoë (NED) (2001)</b>	time	2.53	3.56	4.61	5.63	6.64	7.67	8.72	9.76	10.80	11.87		13.03	9 / 7			
reaction time	0.162	interval	1.03	1.05	1.02	1.01	1.03	1.05	1.04	1.04	1.07	1.16		3.10	3.09	3.15	
		velocity	5.14	8.25	8.10	8.33	8.42	8.25	8.10	8.17	8.17	7.94	8.66	7.67	8.23	8.25	8.10
<b>Kambundji, Ditaji (SUI) (2002)</b>	time	2.52	3.56	4.62	5.67	6.72	7.76	8.79	9.88	10.95	12.04		13.17	7 / 8			
reaction time	0.138	interval	1.04	1.06	1.05	1.05	1.04	1.03	1.09	1.07	1.09	1.13		3.15	3.12	3.25	
		velocity	5.16	8.17	8.02	8.10	8.10	8.17	8.25	7.80	7.94	7.80	8.89	7.59	8.10	8.17	7.85
<b>Pirelli, Camila (PAR) (1989)</b>	time	2.73	3.85	4.96	6.08	7.15	8.21	9.31	10.40	11.56	12.73		13.98	1 / 9			
reaction time	0.166	interval	1.12	1.11	1.12	1.07	1.06	1.10	1.09	1.16	1.17	1.25		3.35	3.23	3.42	
		velocity	4.76	7.59	7.66	7.59	7.94	8.02	7.73	7.80	7.33	7.26	8.04	7.15	7.61	7.89	7.46

## Heat 4

date 31-Jul-21 wind -1.1 m/s Henson (2024) - 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
<b>Anderson, Britany (JAM) (200)</b>	time	2.57	3.58	4.61	5.61	6.61	7.58	8.56	9.54	10.54	11.55		12.67	9 / 1			
reaction time	interval		1.01	1.03	1.00	1.00	0.97	0.98	0.98	1.00	1.01	1.12			3.04	2.95	2.99
	velocity	5.06	8.42	8.25	8.50	8.50	8.76	8.67	8.67	8.50	8.42	8.97	7.89		8.39	8.64	8.53
<b>Clemons, Christina (USA) (19)</b>	time	2.54	3.57	4.59	5.57	6.55	7.56	8.56	9.59	10.61	11.69		12.91	3 / 2			
reaction time	interval		1.03	1.02	0.98	0.98	1.01	1.00	1.03	1.02	1.08	1.22			3.03	2.99	3.13
	velocity	5.12	8.25	8.33	8.67	8.67	8.42	8.50	8.25	8.33	7.87	8.24	7.75		8.42	8.53	8.15
<b>Kozák, Luca (HUN) (1996)</b>	time	2.61	3.66	4.64	5.61	6.61	7.64	8.66	9.69	10.74	11.78		12.97	4 / 3			
reaction time	interval		1.05	0.98	0.97	1.00	1.03	1.02	1.03	1.05	1.04	1.19			3.00	3.05	3.12
	velocity	4.98	8.10	8.67	8.76	8.50	8.25	8.33	8.25	8.10	8.17	8.45	7.71		8.50	8.36	8.17
<b>Seymour, Pedrya (BAH) (1995)</b>	time	2.61	3.66	4.69	5.69	6.67	7.67	8.72	9.77	10.79	11.86		13.04	7 / 4			
reaction time	interval		1.05	1.03	1.00	0.98	1.00	1.05	1.05	1.02	1.07	1.18			3.08	3.03	3.14
	velocity	4.98	8.10	8.25	8.50	8.67	8.50	8.10	8.10	8.33	7.94	8.52	7.67		8.28	8.42	8.12
<b>di Lazzaro, Elisa Maria (ITA) (1)</b>	time	2.61	3.69	4.74	5.75	6.75	7.77	8.80	9.81	10.82	11.86		13.08	5 / 5			
reaction time	interval		1.08	1.05	1.01	1.00	1.02	1.03	1.01	1.01	1.04	1.22			3.14	3.05	3.06
	velocity	4.98	7.87	8.10	8.42	8.50	8.33	8.25	8.42	8.42	8.17	8.24	7.65		8.12	8.36	8.33
<b>Errandonea, Teresa (ESP) (199)</b>	time	2.61	3.66	4.66	5.66	6.67	7.72	8.76	9.81	10.85	11.95		13.15	2 / 6			
reaction time	interval		1.05	1.00	1.00	1.01	1.05	1.04	1.05	1.04	1.10	1.20			3.05	3.10	3.19
	velocity	4.98	8.10	8.50	8.50	8.42	8.10	8.17	8.10	8.17	7.73	8.37	7.60		8.36	8.23	7.99
<b>Batista, Ketiley (BRA) (1999)</b>	time	2.61	3.66	4.69	5.74	6.77	7.81	8.87	9.94	11.01	12.12		13.40	8 / 7			
reaction time	interval		1.05	1.03	1.05	1.03	1.04	1.06	1.07	1.07	1.11	1.28			3.13	3.13	3.25
	velocity	4.98	8.10	8.25	8.10	8.25	8.17	8.02	7.94	7.94	7.66	7.85	7.46		8.15	8.15	7.85

## Heat 3

date 31-Jul-21 wind 0.4 m/s Henson (2024) - 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
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.57	3.61	4.59	5.57	6.54	7.49	8.49	9.49	10.49	11.57		12.72	4 / 1			
reaction time	0.134	interval	1.04	0.98	0.98	0.97	0.95	1.00	1.00	1.00	1.08	1.15			3.00	2.92	3.08
		velocity	5.06	8.17	8.67	8.67	8.76	8.95	8.50	8.50	8.50	7.87	8.74	7.86	8.50	8.73	8.28
<b>Thompson, Yanique (JAM) (1)</b>	time	2.61	3.61	4.60	5.58	6.54	7.49	8.49	9.50	10.54	11.57		12.74	8 / 2			
reaction time	0.147	interval	1.00	0.99	0.98	0.96	0.95	1.00	1.01	1.04	1.03	1.17			2.97	2.91	3.08
		velocity	4.98	8.50	8.59	8.67	8.85	8.95	8.50	8.42	8.17	8.25	8.59	7.85	8.59	8.76	8.28
<b>Skrzyszowska, Pia (POL) (2001)</b>	time	2.57	3.61	4.59	5.58	6.57	7.55	8.54	9.54	10.57	11.60		12.75	6 / 3			
reaction time	0.144	interval	1.04	0.98	0.99	0.99	0.98	0.99	1.00	1.03	1.03	1.15	<b>PB</b>		3.01	2.96	3.06
		velocity	5.06	8.17	8.67	8.59	8.59	8.67	8.59	8.50	8.25	8.25	8.74	7.84	8.47	8.61	8.33
<b>Charlton, Devynne (BAH) (19)</b>	time	2.61	3.63	4.63	5.62	6.62	7.59	8.57	9.58	10.61	11.66		12.84	9 / 4			
reaction time	0.135	interval	1.02	1.00	0.99	1.00	0.97	0.98	1.01	1.03	1.05	1.18			3.01	2.95	3.09
		velocity	4.98	8.33	8.50	8.59	8.50	8.76	8.67	8.42	8.25	8.10	8.52	7.79	8.47	8.64	8.25
<b>Korte, Annimari (FIN) (1988)</b>	time	2.66	3.69	4.69	5.69	6.69	7.69	8.72	9.74	10.81	11.89		13.06	7 / 5			
reaction time	0.146	interval	1.03	1.00	1.00	1.00	1.00	1.03	1.02	1.07	1.08	1.17			3.03	3.03	3.17
		velocity	4.89	8.25	8.50	8.50	8.50	8.25	8.33	7.94	7.87	8.59	7.66		8.42	8.42	8.04
<b>Koala, Marthe (BUR) (1994)</b>	time	2.69	3.69	4.69	5.69	6.69	7.72	8.77	9.81	10.89	11.94		13.11	3 / 6			
reaction time	0.148	interval	1.00	1.00	1.00	1.00	1.03	1.05	1.04	1.08	1.05	1.17			3.00	3.08	3.17



	velocity	4.83	8.50	8.50	8.50	8.50	8.25	8.10	8.17	7.87	8.10	8.59	7.63	8.50	8.28	8.04	
<b>Aoki, Masumi (JPN) (1994)</b>	time	2.69	3.74	4.78	5.81	6.86	7.90	8.94	9.97	11.14	12.26		13.59	2 / 7			
	reaction time	0.141	interval	1.05	1.04	1.03	1.05	1.04	1.04	1.03	1.17	1.12	1.33		3.12	3.13	3.32
	velocity	4.83	8.10	8.17	8.25	8.10	8.17	8.17	8.25	7.26	7.59	7.56	7.36		8.17	8.15	7.68
<b>Pesiridou, Elisavet (GRE) (1999)</b>	0.162	fell into hurdle 1											dnf	5 / --			

## Heat 2

	date	31-Jul-21	wind	0.4 m/s	Henson (2024) - 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
<b>Harrison, Kendra (USA) (1992)</b>	time		2.51	3.52	4.52	5.51	6.49	7.46	8.44	9.44	10.46	11.54		12.74	6 / 1			
	reaction time	0.152	interval	1.01	1.00	0.99	0.98	0.97	0.98	1.00	1.02	1.08	1.20			3.00	2.93	3.10
	velocity		5.18	8.42	8.50	8.59	8.67	8.76	8.67	8.50	8.33	7.87	8.37	7.85		8.50	8.70	8.23
<b>Clay, Liz (AUS) (1995)</b>	time		2.51	3.55	4.59	5.62	6.63	7.61	8.61	9.63	10.70	11.74		12.87	3 / 2			
	reaction time	0.127	interval	1.04	1.04	1.03	1.01	0.98	1.00	1.02	1.07	1.04	1.13			3.11	2.99	3.13
	velocity		5.18	8.17	8.17	8.25	8.42	8.67	8.50	8.33	7.94	8.17	8.89	7.77		8.20	8.53	8.15
<b>Bogliolo, Luminosa (ITA) (1999)</b>	time		2.57	3.62	4.66	5.66	6.64	7.63	8.63	9.66	10.72	11.75		12.93	2 / 3			
	reaction time	0.165	interval	1.05	1.04	1.00	0.98	0.99	1.00	1.03	1.06	1.03	1.18			3.09	2.97	3.12
	velocity		5.06	8.10	8.17	8.50	8.67	8.59	8.50	8.25	8.02	8.25	8.52	7.73		8.25	8.59	8.17
<b>Herman, Elvira (BLR) (1997)</b>	time		2.62	3.66	4.70	5.72	6.71	7.68	8.66	9.70	10.74	11.75		12.95	4 / 4			
	reaction time	0.144	interval	1.04	1.04	1.02	0.99	0.97	0.98	1.04	1.04	1.01	1.20			3.10	2.94	3.09
	velocity		4.96	8.17	8.17	8.33	8.59	8.76	8.67	8.17	8.17	8.42	8.38	7.72		8.23	8.67	8.25
<b>Jean, Mulern (HAI) (1992)</b>	time		2.51	3.54	4.59	5.63	6.63	7.62	8.62	9.66	10.71	11.78		12.99	7 / 5			
	reaction time	0.155	interval	1.03	1.05	1.04	1.00	0.99	1.00	1.04	1.05	1.07	1.21			3.12	2.99	3.16
	velocity		5.18	8.25	8.10	8.17	8.50	8.59	8.50	8.17	8.10	7.94	8.31	7.70		8.17	8.53	8.07
<b>Morrison, Ebony (LBR) (1994)</b>	time		2.51	3.54	4.59	5.63	6.62	7.62	8.66	9.71	10.74	11.83		13.00	9 / 6			
	reaction time	0.150	interval	1.03	1.05	1.04	0.99	1.00	1.04	1.05	1.03	1.09	1.17			3.12	3.03	3.17
	velocity		5.18	8.25	8.10	8.17	8.59	8.50	8.17	8.10	8.25	7.80	8.59	7.69		8.17	8.42	8.04
<b>Lavin, Sarah (IRL) (1994)</b>	time		2.55	3.63	4.70	5.74	6.74	7.76	8.78	9.86	10.91	11.97		13.16	8 / 7			
	reaction time	0.141	interval	1.08	1.07	1.04	1.00	1.02	1.02	1.08	1.05	1.06	1.19			3.19	3.04	3.19
	velocity		5.10	7.87	7.94	8.17	8.50	8.33	8.33	7.87	8.10	8.02	8.45	7.60		7.99	8.39	7.99
<b>Valette, Laura (FRA) (1997)</b>	time		2.66	3.74	4.86	5.95	7.09	8.17	9.31	10.46				14.52	5 / 8			
	reaction time	0.155	interval	1.08	1.12	1.09	1.14	1.08	1.14	1.15						3.29	3.36	
	velocity		4.89	7.87	7.59	7.80	7.46	7.87	7.46	7.39				6.89		7.75	7.59	

## Heat 1

	date	31-Jul-21	wind	1.0 m/s	Henson (2024) - 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
<b>Vargas, Andrea Carolina (CRC) (1994)</b>	time		2.57	3.57	4.57	5.57	6.58	7.59	8.57	9.56	10.57	11.62		12.71	6 / 1			
	reaction time	0.157	interval	1.00	1.00	1.00	1.01	1.01	0.98	0.99	1.01	1.05	1.09			3.00	3.00	3.05
	velocity		5.06	8.50	8.50	8.50	8.42	8.42	8.67	8.59	8.42	8.10	9.22	7.87		8.50	8.50	8.36
<b>Visser, Nadine (NED) (1995)</b>	time		2.57	3.57	4.57	5.57	6.59	7.61	8.59	9.58	10.59	11.63		12.72	9 / 2			
	reaction time	0.144	interval	1.00	1.00	1.00	1.02	1.02	0.98	0.99	1.01	1.04	1.09			3.00	3.02	3.04
	velocity		5.06	8.50	8.50	8.50	8.33	8.33	8.67	8.59	8.42	8.17	9.22	7.86		8.50	8.44	8.39
<b>Cunningham, Gabriele (USA) (1994)</b>	time		2.54	3.57	4.57	5.57	6.59	7.61	8.60	9.60	10.59	11.66		12.83	8 / 3			
	reaction time	0.172	interval	1.03	1.00	1.00	1.02	1.02	0.99	1.00	0.99	1.07	1.17			3.03	3.03	3.06
	velocity		5.12	8.25	8.50	8.50	8.33	8.33	8.59	8.50	8.59	7.94	8.59	7.79		8.42	8.42	8.33
<b>Sember, Cindy (GBR) (1994)</b>	time		2.57	3.62	4.66	5.66	6.68	7.71	8.71	9.75	10.79	11.82		13.00	5 / 4			
	reaction time	0.178	interval	1.05	1.04	1.00	1.02	1.03	1.00	1.04	1.04	1.03	1.18			3.09	3.05	3.11
	velocity		5.06	8.10	8.17	8.50	8.33	8.25	8.50	8.17	8.17	8.25	8.52	7.69		8.25	8.36	8.20
<b>Chen Jiamin (CHN) (1996)</b>	time		2.60	3.62	4.64	5.67	6.72	7.75	8.77	9.82	10.86	11.94		13.09	3 / 5			
	reaction time	0.144	interval	1.02	1.02	1.03	1.05	1.03	1.02	1.05	1.04	1.08	1.15			3.07	3.10	3.17
	velocity		5.00	8.33	8.33	8.25	8.10	8.25	8.33	8.10	8.17	7.87	8.74	7.64		8.31	8.23	8.04
<b>Hurske, Reetta (FIN) (1995)</b>	time		2.57	3.60	4.63	5.66	6.70	7.74	8.75	9.78	10.82	11.90		13.10	4 / 6			
	reaction time	0.125	interval	1.03	1.03	1.03	1.04	1.04	1.01	1.03	1.04	1.08	1.20			3.09	3.09	3.15
	velocity		5.06	8.25	8.25	8.25	8.17	8.17	8.42	8.25	8.17	7.87	8.38	7.63		8.25	8.25	8.10
<b>Kimura, Ayako (JPN) (1988)</b>	time		2.57	3.62	4.63	5.67	6.70	7.75	8.77	9.82	10.93	12.02		13.25	2 / 7			
	reaction time	0.146	interval	1.05	1.01	1.04	1.03	1.05	1.02	1.05	1.11	1.09	1.23			3.10	3.10	3.25
	velocity		5.06	8.10	8.42	8.17	8.25	8.10	8.33	8.10	7.66	7.80	8.17	7.55		8.23	8.23	7.85
<b>Lobe, Ricarda (GER) (1994)</b>	time		2.66	3.73	4.77	5.79	6.82	7.84	8.86	9.90	10.98	12.10		13.43	7 / 8			
	reaction time	0.139	interval	1.07	1.04	1.02	1.03	1.02	1.02	1.04	1.08	1.12	1.33			3.13	3.07	3.24
	velocity		4.89	7.94	8.17	8.33	8.25	8.33	8.33	8.17	7.87	7.59	7.56	7.45		8.15	8.31	7.87

## 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	1.05	1.07	1.09	1.10	1.23				
			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		3.19	3.14
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				
			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		3.18	3.20
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				
			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		3.18	3.27
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				
			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		3.24	3.21
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				
			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		3.25	3.20
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	1.08	1.10	1.07	1.11	1.09	1.12	1.21				
			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		3.28	3.25
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				
			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		3.27	3.22
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				
			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		3.26	3.29

## 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				
			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		3.14	3.03
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				
			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		3.14	3.10
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				
			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		3.15	3.13
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				
			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		3.17	3.17

## 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				
			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		3.01	2.90
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				
			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		3.02	2.96
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				
			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		2.99	2.93
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				
			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		3.05	2.93
Anderson, Britany (JAM) (200)	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				
			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		3.00	2.93

<b>Robinson, TeJyrica (USA) (1998)</b>	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	7.97
<b>Jones, Hannah (AUS) (1995)</b>	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	8.17
<b>Barrett, Alicia (GBR) (1998)</b>	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
<b>Lin Yuwei (CHN) (1999)</b>	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	7.99	

## 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	
<b>Camacho-Quinn, Jasmine (PU)</b>	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	8.79		
<b>Herman, Elvira (BLR) (1997)</b>	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	8.50		
<b>Cunningham, Gabriele (USA)</b>	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	8.23		
<b>Nelvis, Sharika (USA) (1990)</b>	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		
<b>Anderson, Britany (JAM) (200)</b>	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		
<b>Visser, Nadine (NED) (1995)</b>	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		
<b>Kozák, Luca (HUN) (1996)</b>	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
<b>Tereda, Asuka (JPN) (1990)</b>	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	
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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	
<b>Suzuki, Miho (JPN) (1996)</b>	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	
<b>Takeuchi, Maya (JPN) (1998)</b>	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	<b>PB</b>		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	
<b>Okubo, Yuri (JPN) (1997)</b>	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	
<b>Tanaka, Yumi (JPN) (1998)</b>	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
<b>Fujiwara, Miku (JPN) (1992)</b>	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	1.07	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
<b>Shibata, Manaka (JPN) (2001)</b>	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
<b>Iwasa, Mayuko (JPN) (2002)</b>	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	1.05	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
<b>Yoshida, Erika (JPN) (2004)</b>	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	1.14	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
<b>Fujiwara, Karen (JPN) (2004)</b>	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		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
<b>Otani, Sumire (JPN) (2005)</b>	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
<b>Nakatsu, Haruha (JPN) (2003)</b>	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
<b>Taguchi, Mayu (JPN) (2003)</b>	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		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
<b>Asagi, Tsukiha (JPN) (2003)</b>	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	1.31			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
<b>Wu Yanni (CHN) (1997)</b>	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		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
<b>Chen Jiamin (CHN) (1996)</b>	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		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
<b>Wang Dou (CHN) (1993)</b>	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	1.02	1.02	1.02	1.05	1.05	1.11			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
<b>Deng Xuelin (CHN) (1998)</b>	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		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
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Dai Yiru (CHN) (2001)</b>	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
<b>Chen Yifeng (CHN) (1998)</b>	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		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
<b>Lin Yuwei (CHN) (1999)</b>	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
<b>You Na (CHN) (1993)</b>	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
<b>Luo Xianyan (CHN) (1997)</b>	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
<b>Qin Hongyan (CHN) (2001)</b>	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
<b>Chen Yuyang (CHN) (2002)</b>	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
<b>Yin Xiaoxia (CHN) (2000)</b>	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
<b>Dai Yiru (CHN) (2001)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Wang Li (CHN) (1999)</b>	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
<b>Yu Jiaru (CHN) (1999)</b>	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
<b>Gong Qiudan (CHN) (2003)</b>	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
<b>Ge Ge (CHN) (2000)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Wang Dou (CHN) (1993)</b>	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
<b>Xia Sining (CHN) (2003)</b>	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
<b>Lin Yuqian (CHN) (2003)</b>	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
<b>Liu Xinyu (CHN) (2002)</b>	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
<b>Lun Xinyu (CHN) (1998)</b>	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

<b>Wu Yanni (CHN) (1997)</b>	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
<b>Chen Yifeng (CHN) (1998)</b>	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
<b>Deng Xuelin (CHN) (1998)</b>	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
<b>Xiao Juxiu (CHN) (1998)</b>	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
<b>Wei Yuhui (CHN) (2002)</b>	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	7.66	7.66	7.46	7.33	6.97	7.44	6.99		7.61	7.68	7.24	
<b>Yao Hui (CHN) (2000)</b>	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
<b>Zhuang Dongmei (CHN) (2000)</b>	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	
<b>Ren Shimei (CHN) (1996)</b>	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
<b>Wu Zheng (CHN) (2001)</b>	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
<b>Zhou Jingjing (CHN) (1998)</b>	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
<b>Jin Donghua (CHN) (1999)</b>	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
<b>Yang Hua (CHN)</b>	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	
<b>Wang Qingling (CHN) (1993)</b>	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
<b>Shen Muhan (CHN) (1997)</b>	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
<b>Yin Xinyi (CHN) (2000)</b>	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
<b>Kong Rui (CHN) (2001)</b>	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
<b>Du Yan (CHN) (2000)</b>	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
<b>Sun Lan (CHN) (2002)</b>	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	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) (1991)	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, Toneya (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	<b>PB</b>	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
<b>Robinson, TeJryca (USA) (19)</b>	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	<b>PB</b>	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
<b>Jones, Rayniah (USA) (2001)</b>	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
<b>Brissett, Chanel (USA) (1999)</b>	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
<b>Claye, Queen (USA) (1988)</b>	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
<b>Stark, Grace (USA) (2001)</b>	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
<b>Marshall, Tonea (USA) (1998)</b>	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
<b>Clemons, Christina (USA) (19)</b>	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	<b>PB</b>			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
<b>McNeal, Brianna (USA) (1991)</b>	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
<b>Cunningham, Gabriele (USA)</b>	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	<b>PB</b>			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
<b>Armstrong, Alia (USA) (2000)</b>	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	<b>PB</b>			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
<b>Brooks, Taliyah (USA) (1995)</b>	time	2.46	3.48	4.46	5.43	6.40	7.40	8.38	9.38	10.38	11.46			12.70	5 / 6			
reaction time	0.156	interval	7 steps	1.02	0.98	0.97	0.97	1.00	0.98	1.00	1.00	1.08	1.24			2.97	2.95	3.08
		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
<b>Nelvis, Sharika (USA) (1990)</b>	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
<b>Castlin, Kristi (USA) (1988)</b>	time	2.56	3.62	4.60	5.58	6.56	7.54	8.53	9.53	10.53	11.56			12.84	8 / 8			
reaction time	0.162	interval	1.06	0.98	0.98	0.98	0.98	0.99	1.00	1.00	1.03	1.28				3.02	2.95	3.03
		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
<b>Britton, Evonne (USA) (1991)</b>	time	2.48	3.52	4.52	5.52	6.52	7.52	8.52	9.55	10.58	11.63			12.95	9 / 9			
reaction time	0.144	interval	1.04	1.00	1.00	1.00	1.00	1.00	1.03	1.03	1.05	1.32				3.04	3.00	3.11
		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
<b>McNeal, Brianna (USA) (1991)</b>	time	2.43	3.46	4.42	5.38	6.34	7.30	8.26	9.26	10.26	11.26			12.50	1 / 1			
reaction time	0.162	interval	1.03	0.96	0.96	0.96	0.96	0.96	1.00	1.00	1.00	1.24				2.95	2.88	3.00
		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
<b>Cunningham, Gabriele (USA)</b>	time	2.43	3.46	4.44	5.42	6.40	7.36	8.36	9.36	10.40	11.42			12.67	7 / 2			
reaction time	0.162	interval	1.03	0.98	0.98	0.98	0.96	1.00	1.00	1.04	1.02	1.25	<b>PB</b>			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
<b>Cockrell, Anna (USA) (1997)</b>	time	2.50	3.53	4.53	5.53	6.50	7.46	8.43	9.43	10.43	11.46			12.63	4 / 1			
reaction time	0.163	interval	1.03	1.00	1.00	0.97	0.96	0.97	1.00	1.00	1.03	1.17				3.03	2.90	3.03
		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

<b>Jones, Rayniah (USA) (2001)</b>	time	2.43	3.45	4.46	5.46	6.43	7.43	8.40	9.40	10.40	11.43		12.64	2 / 2			
	reaction time	0.142	interval	1.02	1.01	1.00	0.97	1.00	0.97	1.00	1.00	1.03	1.21	<b>PB</b>	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
<b>Chadwick, Payton (USA) (1991)</b>	time	2.46	3.52	4.54	5.53	6.50	7.47	8.43	9.43	10.43	11.43		12.66	6 / 3			
	reaction time	0.182	interval	1.06	1.02	0.99	0.97	0.97	0.96	1.00	1.00	1.00	1.23	<b>PB</b>	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	<i>Henson (2021) - Athlete First: 2021 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
<b>Brooks, Taliyah (USA) (1995)</b>	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	<b>7 steps</b>	1.00	0.97	0.98	1.00	0.97	1.00	0.98	1.00	1.04	1.21	<b>PB</b>		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
<b>Clemons, Christina (USA) (1991)</b>	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	1.00	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	<i>Henson (2021) - Athlete First: 2021 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
<b>Harrison, Kendra (USA) (1992)</b>	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	0.96	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	<i>CAA Hurdle Development (2021)</i>													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Wu Yanni (CHN) (1997)</b>	time			2.66	3.70	4.70	5.70	6.72	7.72	8.72	9.74	10.78	11.84		12.98	6 / 1			
	reaction time	0.162	interval		1.04	1.00	1.00	1.02	1.00	1.00	1.02	1.04	1.06	1.14	<b>PB</b>		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
<b>Chen Jiamin (CHN) (1996)</b>	time			2.63	3.65	4.68	5.70	6.72	7.72	8.76	9.79	10.84	11.90		13.04	5 / 2			
	reaction time	0.153	interval		1.02	1.03	1.02	1.02	1.00	1.04	1.03	1.05	1.06	1.14	<b>PB</b>		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
<b>Shi Jiali (CHN) (1997)</b>	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	<b>PB</b>		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
<b>You Na (CHN) (1993)</b>	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	<b>=PB</b>		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
<b>Chen Yinfeng (CHN) (1998)</b>	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
<b>Yu Jiaru (CHN) (1999)</b>	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
<b>Dai Yiru (CHN) (2001)</b>	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	<i>CAA Hurdle Development (2021)</i>													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Lin Yuwei (CHN) (1999)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Yu Jiaru (CHN) (1999)</b>	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
<b>Xia Sining (CHN) (2003)</b>	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
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7.87	7.99	7.75
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**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
<b>Wu Yanni (CHN) (1997)</b>	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
<b>You Na (CHN) (1993)</b>	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
<b>Dai Yiru (CHN) (2001)</b>	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
<b>Chen Yinfeng (CHN) (1998)</b>	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
<b>Luo Xianyan (CHN) (1997)</b>	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
<b>Lin Yuqian (CHN) (2003)</b>	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
<b>Yamasaki, Yuki (JPN) (1995)</b>	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
<b>Odama, Karin (JPN) (1999)</b>	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
<b>Rito, Nonoka (JPN) (1995)</b>	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
<b>Cockrell, Anna (USA) (1997)</b>	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
<b>Jones, Rayniah (USA) (2001)</b>	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	1.01	0.99	1.03	1.04	1.04	1.21			3.04	3.01	3.06
	velocity	5.20	8.17	8.50	8.50	8.50	8.50	8.42	8.59	8.25	8.17	8.31	7.80		8.39	8.47	8.33
<b>Nugent, Ackera (JAM) (2002)</b>	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
<b>Stark, Grace (USA) (2001)</b>	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
<b>Akobundu, Madeleine (USA) (1999)</b>	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
<b>Russell, Masai (USA) (2000)</b>	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
<b>Rothwell, Cha'mia (USA) (1999)</b>	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
<b>Robinson, TeJyrica (USA) (1999)</b>	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
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**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	
<b>Marshall, Toneya (USA) (1998)</b> 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	
<b>Cockrell, Anna (USA) (1997)</b> 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
<b>Camacho-Quinn, Jasmine (PU)</b> 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	0.98	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
<b>Charlton, Devynne (BAH) (1995)</b> 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
<b>Herman, Elvira (BLR) (1997)</b> 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
<b>Tapper, Megan (JAM) (1994)</b> 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	1.02	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
<b>Bogliolo, Luminosa (ITA) (1995)</b> 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
<b>Skrzyszowska, Pia (POL) (2001)</b> 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
<b>Seymour, Pedrya (BAH) (1995)</b> 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
<b>di Lazzaro, Elisa Maria (ITA) (1995)</b> 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
<b>Camacho-Quinn, Jasmine (PU)</b> 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	
<b>Aoki, Masumi (JPN) (1994)</b> 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	
<b>Tereda, Asuka (JPN) (1990)</b> 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	
<b>Suzuki, Miho (JPN) (1996)</b> 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	
<b>Kimura, Ayako (JPN) (1988)</b> 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	
<b>Kiyoyama, Chisato (JPN) (1999)</b> 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	

<b>Okubo, Yuri (JPN) (1997)</b>	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	<b>PB</b>		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	
<b>Fujiwara, Miku (JPN) (1992)</b>	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	
<b>Shimura, Hitomi (JPN) (1990)</b>	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	
<b>Tereda, Asuka (JPN) (1990)</b>	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	
<b>Suzuki, Miho (JPN) (1996)</b>	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	<b>=PB</b>		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	
<b>Tanaka, Yumi (JPN) (1998)</b>	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	
<b>Kimura, Ayako (JPN) (1988)</b>	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	
<b>Fujiwara, Miku (JPN) (1992)</b>	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	
<b>Kiyoyama, Chisato (JPN) (1999)</b>	time	2.74	3.83	4.86	5.89	6.92	7.95	9.00	10.06	11.12	12.21		13.39	9 / 6				
	reaction time	0.190	interval	1.09	1.03	1.03	1.03	1.05	1.06	1.06	1.09	1.18			3.15	3.11	3.21	
	velocity	4.74	7.80	8.25	8.25	8.25	8.25	8.10	8.02	8.02	7.80	8.52	7.47		8.10	8.20	7.94	
<b>Nakajima, Hitomi (JPN) (1995)</b>	time	2.71	3.77	4.83	5.87	6.90	7.94	9.02	10.10	11.17	12.26		13.44	8 / 7				
	reaction time	0.155	interval	1.06	1.06	1.04	1.03	1.04	1.08	1.08	1.07	1.09	1.18		3.16	3.15	3.24	
	velocity	4.80	8.02	8.02	8.17	8.25	8.17	7.87	7.87	7.94	7.80	8.52	7.44		8.07	8.10	7.87	
<b>Tanaka, Kiyono (JPN) (2002)</b>	time	2.64	3.72	4.76	5.82	6.86	7.93	8.99	10.08	11.17	12.27		13.49	2 / 8				
	reaction time	0.171	interval	1.08	1.04	1.06	1.04	1.07	1.06	1.09	1.09	1.10	1.22	<b>PB</b>		3.18	3.17	3.28
	velocity	4.92	7.87	8.17	8.02	8.17	7.94	8.02	7.80	7.80	7.73	8.24	7.41		8.02	8.04	7.77	

**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	
<b>Tereda, Asuka (JPN) (1990)</b>	time	2.64	3.69	4.68	5.67	6.67	7.67	8.66	9.68	10.69	11.74		12.87	5 / 1				
	reaction time	0.187	interval	1.05	0.99	0.99	1.00	1.00	0.99	1.02	1.01	1.05	1.13	<b>NR PB</b>		3.03	2.99	3.08
	velocity	4.92	8.10	8.59	8.59	8.50	8.50	8.59	8.33	8.42	8.10	8.89	7.77		8.42	8.53	8.28	

**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
<b>Fukamoto, Tomoho (JPN)</b>	time	2.78	3.93	5.12	6.27	7.42	8.60	9.78	10.97	12.18	13.42		14.74	3 / 1			
	reaction time		interval	1.15	1.19	1.15	1.15	1.18	1.18	1.19	1.21	1.24	1.32		3.49	3.51	3.64
	velocity	4.68	7.39	7.14	7.39	7.39	7.20	7.20	7.14	7.02	6.85	7.61	6.78		7.31	7.26	7.01
<b>Matsubara, Shihori (JPN) (200)</b>	time	2.82	4.02	5.18	6.37	7.55	8.77	9.98	11.27	12.53	13.83		15.22	6 / 2			
	reaction time		interval	1.20	1.16	1.19	1.18	1.22	1.21	1.29	1.26	1.30	1.39		3.55	3.61	3.85
	velocity	4.61	7.08	7.33	7.14	7.20	6.97	7.02	6.59	6.75	6.54	7.23	6.57		7.18	7.06	6.62
<b>Ishibashi, Nozomi (JPN)</b>	time	2.90	4.13	5.38	6.60	7.85	9.08	10.35	11.65	12.98	14.32		15.70	4 / 3			
	reaction time		interval	1.23	1.25	1.22	1.25	1.23	1.27	1.30	1.33	1.34	1.38		3.70	3.75	3.97
	velocity	4.48	6.91	6.80	6.97	6.80	6.91	6.69	6.54	6.39	6.34	7.28	6.37		6.89	6.80	6.42
<b>Matsumoto, Haruka (JPN)</b>	time	2.93	4.17	5.40	6.62	7.85	9.10	10.33	11.63	12.93	14.27		15.71	8 / 4			
	reaction time		interval	1.24	1.23	1.22	1.23	1.25	1.23	1.30	1.30	1.34	1.44		3.69	3.71	3.94
	velocity	4.44	6.85	6.91	6.97	6.91	6.80	6.91	6.54	6.54	6.34	6.98	6.37		6.91	6.87	6.47
<b>Otoha, Osaki (JPN)</b>	time	2.95	4.20	5.45	6.72	7.95	9.22	10.47	11.77	13.08	14.40		15.80	7 / 5			
	reaction time		interval	1.25	1.25	1.27	1.23	1.27	1.25	1.30	1.31	1.32	1.40		3.77	3.75	3.93
	velocity	4.41	6.80	6.80	6.69	6.91	6.69	6.80	6.54	6.49	6.44	7.18	6.33		6.76	6.80	6.49



<b>Matsuura, Hikari (JPN)</b>	time	2.88	4.12	5.35	6.62	7.88	9.17	10.47	11.83	13.23	14.68		16.18	5 / 6				
	reaction time	interval	1.24	1.23	1.27	1.26	1.29	1.30	1.36	1.40	1.45	1.50				3.74	3.85	4.21
	velocity	4.51	6.85	6.91	6.69	6.75	6.59	6.54	6.25	6.07	5.86	6.70	6.18		6.82	6.62	6.06	
<b>Dai, Yuno (JPN)</b>	time	2.90	4.12	5.38	6.67	7.93	9.27	10.58	11.93	13.32	14.92		16.44	1 / 7				
	reaction time	interval	1.22	1.26	1.29	1.26	1.34	1.31	1.35	1.39	1.60	1.52				3.77	3.91	4.34
	velocity	4.48	6.97	6.75	6.59	6.75	6.34	6.49	6.30	6.12	5.31	6.61	6.08		6.76	6.52	5.88	
<b>Fujiwara, Miho (JPN)</b>	time	3.05	4.42	5.80	7.22	8.65	10.07	11.55	13.00	14.45	15.92		17.44	2 / 8				
	reaction time	interval	1.37	1.38	1.42	1.43	1.42	1.48	1.45	1.45	1.47	1.52				4.17	4.33	4.37
	velocity	4.26	6.20	6.16	5.99	5.94	5.99	5.74	5.86	5.86	5.78	6.61	5.73		6.12	5.89	5.84	

### 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
<b>Marshall, Toneya (USA) (1998)</b>	time	2.40	3.40	4.36	5.32	6.30	7.27	8.23	9.20	10.22	11.24		12.44	5 / 1			
	reaction time	interval	1.00	0.96	0.96	0.98	0.97	0.96	0.97	1.02	1.02	1.20	<b>PB</b>		2.92	2.91	3.01
	velocity	5.42	8.50	8.85	8.85	8.67	8.76	8.85	8.76	8.33	8.33	8.38	8.04		8.73	8.76	8.47
<b>Salmon, Paula (USA) (1999)</b>	time	2.57	3.57	4.55	5.53	6.50	7.53	8.55	9.57	10.63	11.68		12.89	4 / 2			
	reaction time	interval	1.00	0.98	0.98	0.97	1.03	1.02	1.02	1.06	1.05	1.21	<b>PB</b>		2.96	3.02	3.13
	velocity	5.06	8.50	8.67	8.67	8.76	8.25	8.33	8.33	8.02	8.10	8.31	7.76		8.61	8.44	8.15
<b>Rothwell, Cha'mia (USA) (1991)</b>	time	2.57	3.63	4.67	5.67	6.65	7.67	8.69	9.70	10.73	11.77		12.95	3 / 3			
	reaction time	interval	1.06	1.04	1.00	0.98	1.02	1.02	1.01	1.03	1.04	1.18	<b>PB</b>		3.10	3.02	3.08
	velocity	5.06	8.02	8.17	8.50	8.67	8.33	8.33	8.42	8.25	8.17	8.52	7.72		8.23	8.44	8.28

### 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
<b>Sember, Cindy (GBR) (1994)</b>	time	2.56	3.66	4.72	5.76	6.78	7.80	8.82	9.86	10.94	12.02		13.28	5 / 1			
	reaction time	0.159	interval	1.10	1.06	1.04	1.02	1.02	1.02	1.04	1.08	1.08	1.26		3.20	3.06	3.20
	velocity	5.08	7.73	8.02	8.17	8.33	8.33	8.33	8.17	7.87	7.87	7.98	7.53		7.97	8.33	7.97
<b>Kozák, Luca (HUN) (1996)</b>	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
<b>Bogliolo, Luminosa (ITA) (1995)</b>	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	1.06	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
<b>Porter, Tiffany (GBR) (1987)</b>	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
<b>Tapper, Megan (JAM) (1994)</b>	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	1.08	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	7.73	7.79	7.39		8.07	7.97	7.77
<b>Sedney, Zoë (NED) (2001)</b>	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
<b>Seymour, Pedrya (BAH) (1995)</b>	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
<b>Valette, Laura (FRA) (1997)</b>	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	
<b>Lin Yuwei (CHN) (1999)</b>	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	<b>PB</b>		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	7.94	8.74		8.31	8.42	8.12	
<b>Luo Xianyan (CHN) (1997)</b>	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	
<b>Zheng Ninali (CHN) (1998)</b>	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																	

	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	
<b>Yuxi Lin (CHN) (2003)</b>	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	<b>PB</b>		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	
<b>Yu Jiaru (CHN) (1999)</b>	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	
<b>Wang Li (CHN) (1999)</b>	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	
<b>Qin Hongyan (CHN) (2001)</b>	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	<b>PB</b>		3.28	3.26	3.38
	velocity	4.76	7.66	7.80	7.87	7.87	7.87	7.73	7.73	7.59	7.33	7.85	7.18		7.77	7.82	7.54	

**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		
<b>Xia Sining (CHN) (2003)</b>	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	<b>PB</b>			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		
<b>Shi Jiali (CHN) (1997)</b>	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		
<b>Lin Yuqian (CHN) (2003)</b>	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	<b>PB</b>			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		
<b>You Na (CHN) (1993)</b>	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		
<b>Yin Xiaoxia (CHN) (2000)</b>	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		
<b>Zhong Xiaoli (CHN) 2003</b>	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		
<b>Liu Sihui (CHN)</b>	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	1.30	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		
<b>Wang Dou (CHN) (1993)</b>	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		
<b>Wu Yanni (CHN) (1997)</b>	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	8.17	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		
<b>Harrison, Kendra (USA) (1992)</b>	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		
<b>Sember, Cindy (GBR) (1994)</b>	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	<b>PB</b>		2.97	2.89	2.98		
	velocity		5.14	8.42	8.59	8.76	8.76	8.85	8.85	8.59	8.59	8.50	8.66	7.98		8.59	8.82	8.56		
<b>Amusan, Tobi (NGR) (1997)</b>	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	8.59	8.50	8.59	7.93		8.47	8.73	8.56		
<b>Charlton, Devynne (BAH) (1991)</b>	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	<b>NR PB</b>	2.99	2.92	3.02	
		velocity	5.35	8.25	8.67	8.67	8.85	8.67	8.67	8.67	8.33	8.33	8.04	7.93	8.53	8.73	8.44
<b>McLaughlin, Sydney (USA) (1)</b>	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	<b>7 steps</b>	1.02	1.02	1.00	0.98	0.98	0.97	1.00	1.00	1.03	1.15	<b>PB</b>	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	8.25	8.74	7.91	8.39	8.70	8.42
<b>Porter, Tiffany (GBR) (1987)</b>	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
<b>Tereda, Asuka (JPN) (1990)</b>	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
<b>Aoki, Masumi (JPN) (1994)</b>	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
<b>Kimura, Ayako (JPN) (1988)</b>	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
<b>Suzuki, Miho (JPN) (1996)</b>	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
<b>Shimano, Mao (JPN) (2001)</b>	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
<b>Okubo, Yuri (JPN) (1997)</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Takeuchi, Maya (JPN) (1998)</b>	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
<b>Tanaka, Hikari (JPN) (1998)</b>	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	<b>7 steps</b>	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
<b>You Na (CHN) (1993)</b>	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
<b>Xiao Juxiu (CHN) (1998)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Yin Xiaoxia (CHN) (2000)</b>	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
<b>Liu Jingyi (CHN) (2000)</b>	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
<b>Deng Mengying (CHN) (2004)</b>	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



<b>Wang Yingjie (CHN) (2003)</b>	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
<b>Tereda, Asuka (JPN) (1990)</b>	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	<b>NR PB</b>		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
<b>Suzuki, Miho (JPN) (1996)</b>	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
<b>Okubo, Yuri (JPN) (1997)</b>	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	<b>PB</b>		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
<b>Aoki, Masumi (JPN) (1994)</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Shimano, Mao (JPN) (2001)</b>	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
<b>Takeuchi, Maya (JPN) (1998)</b>	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	<b>=PB</b>		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
<b>Tanaka, Hikari (JPN) (1998)</b>	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	<b>7 steps</b>	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
<b>Camacho-Quinn, Jasmine (PU)</b>	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
<b>Anderson, Britany (JAM) (200)</b>	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
<b>Brooks, Taliyah (USA) (1995)</b>	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	<b>7 steps</b>	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
<b>McLaughlin, Sydney (USA) (1)</b>	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	<b>7 steps</b>	1.06	1.02	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.15	<b>PB</b>		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
<b>Camacho-Quinn, Jasmine (PU)</b>	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	<b>NR PB</b>		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
<b>McLaughlin, Sydney (USA) (1)</b>	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	<b>7 steps</b>	1.04	1.03	1.00	1.01	1.00	1.02	1.04	1.04	1.05	1.16	<b>PB</b>		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	
<b>Lin Yuwei (CHN) (1999)</b>	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	<b>PB</b>		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	8.10	8.82	7.67		8.20	8.36	8.12
<b>Dai Yiru (CHN) (2001)</b>	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	<b>PB</b>		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	8.10	7.73	8.59	7.62		8.25	8.31	7.97
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Deng Xuelin (CHN) (1998)</b>	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
<b>You Na (CHN) (1993)</b>	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	1.20				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
<b>Yu Jiaru (CHN) (1999)</b>	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
<b>Luo Xianyan (CHN) (1997)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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	
<b>Shi Jiali (CHN) (1997)</b>	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	8.04	7.41		7.97	8.17	7.85
<b>You Na (CHN) (1993)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Luo Xianyan (CHN) (1997)</b>	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
<b>Jiang Liyunzhe (CHN) (2002)</b>	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
<b>Zhang Yan (CHN) (2001)</b>	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	
<b>Deng Xuelin (CHN) (1998)</b>	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
<b>Dai Yiru (CHN) (2001)</b>	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
<b>Yu Jiaru (CHN) (1999)</b>	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
<b>Lin Yuwei (CHN) (1999)</b>	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	1.06	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

<b>Liu Xinyu (CHN) (2002)</b>	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		<b>PB</b>	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	
<b>Lin Yuwei (CHN) (1999)</b>	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			<b>PB</b>	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
<b>Wang Dou (CHN) (1993)</b>	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	8.02	8.02	8.17	9.05		7.54		8.07	8.17	8.07
<b>Luo Xianyan (CHN) (1997)</b>	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
<b>Jiang Liyunzhe (CHN) (2002)</b>	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
<b>Yu Jiaru (CHN) (1999)</b>	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
<b>Wang Li (CHN) (1999)</b>	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	7.33	7.33	7.79		7.12		7.77	7.68	7.41
<b>Qin Hongyan (CHN) (2001)</b>	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	
<b>Chen Jiamin (CHN) (1996)</b>	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			<b>PB</b>	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
<b>Wu Yanni (CHN) (1997)</b>	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
<b>Dai Yiru (CHN) (2001)</b>	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
<b>You Na (CHN) (1993)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Xiao Juxiu (CHN) (1998)</b>	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
<b>Ren Shimei (CHN) (1996)</b>	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
<b>Chen Yuyang (CHN) (2002)</b>	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	7.33	7.61	7.01		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	
<b>You Na (CHN) (1993)</b>	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	7.87	7.87	8.38		7.41	8.02	8.02	7.92



<b>Dai Yiru (CHN) (2001)</b>	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
<b>Chen Yuyang (CHN) (2002)</b>	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	<b>PB</b>		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	
<b>Wei Yuhui (CHN) (2002)</b>	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	<b>PB</b>		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	
<b>Liu Xinyao (CHN) (2002)</b>	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	
<b>Zhong Xiaoli (CHN) (2003)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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	7.87	7.73	7.59	7.98	7.32		7.87	8.02	7.73
<b>Ren Shimei (CHN) (1996)</b>	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
<b>Gong Qiudan (CHN) (2003)</b>	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	1.16	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
<b>Leng Xiping (CHN) (2001)</b>	time			2.80	3.96	5.12	6.24	7.38	8.52	9.66	10.82	12.00	13.16		14.48	2 / 4			
reaction time	0.449	interval		1.16	1.16	1.12	1.14	1.14	1.14	1.16	1.18	1.16	1.32				3.44	3.42	3.50
		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
<b>Li Shiyu (CHN) (2005)</b>	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
<b>Wu Yanni (CHN) (1997)</b>	time			2.68	3.74	4.80	5.82	6.84	7.86	8.88	9.94	11.00	12.12		13.42	5 / 1			
reaction time	0.153	interval		1.06	1.06	1.02	1.02	1.02	1.02	1.06	1.06	1.12	1.30				3.14	3.06	3.24
		velocity		4.85	8.02	8.02	8.33	8.33	8.33	8.33	8.02	8.02	7.59	7.73	7.45		8.12	8.33	7.87
<b>Xiao Juxiu (CHN) (1998)</b>	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	1.08	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	7.87	8.02	7.59	7.59	8.04	7.25		7.73	7.87	7.73
<b>Chen Jiamin (CHN) (1996)</b>	time			2.68	3.76	4.82	5.86	6.96	8.04	9.14	10.26	11.40	12.54		13.82	4 / 3			
reaction time	0.193	interval		1.08	1.06	1.04	1.10	1.08	1.10	1.12	1.14	1.14	1.28				3.18	3.28	3.40
		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
<b>Kong Rui (CHN) (2001)</b>	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
<b>Chen Xianying (CHN) (2003)</b>	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
<b>Zhong Xiaoli (CHN) (2003)</b>	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
<b>Dai Yiru (CHN) (2001)</b>	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	<b>PB</b>		3.14		
		velocity		5.00	8.10	8.02	8.25	8.42						9.42	7.38		8.12		
<b>Chen Jiamin (CHN) (1996)</b>	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	<b>PB</b>		3.14
		velocity	5.02	8.02	8.17	8.17	8.17				9.49	7.37		8.12
<b>Luo Xianyan (CHN) (1997)</b>	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	<b>PB</b>		3.18
		velocity	4.89	7.87	8.10	8.10	8.25				8.84	7.19		8.02
<b>Wang Qingling (CHN) (1993)</b>	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
<b>Lun Xinyu (CHN) (1998)</b>	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	<b>PB</b>		3.34
		velocity	4.83	7.59	7.59	7.73	7.66				8.78	6.96		7.63
<b>Shen Muhan (CHN) (1997)</b>	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
<b>Lin Yuwei (CHN) (1999)</b>	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	<b>PB</b>				3.10
		velocity	4.92	8.17	8.17	8.33	8.25					9.63	7.39				8.23
<b>Jiang Liyunzhe (CHN) (2002)</b>	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	<b>PB</b>				3.33
		velocity	4.78	7.59	7.59	7.80	7.80					8.97	6.98				7.66
<b>Chen Yuyang (CHN) (2002)</b>	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	<b>PB</b>				3.31
		velocity	4.69	7.73	7.80	7.59	7.87					8.72	6.94				7.70
<b>Gong Qiudan (CHN) (2003)</b>	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	<b>PB</b>				3.44
		velocity	4.78	7.33	7.33	7.59	7.59					8.78	6.85				7.41
<b>Chen Xianying (CHN) (2003)</b>	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
<b>Wu Yanni (CHN) (1997)</b>	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	<b>PB</b>				3.13
		velocity	4.87	8.02	8.10	8.33	8.33					9.56	7.33				8.15
<b>Chen Yinfeng (CHN) (1998)</b>	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	<b>=PB</b>				3.20
		velocity	4.87	7.66	8.02	8.25	8.10					9.15	7.19				7.97
<b>Luo Xianyan (CHN) (1997)</b>	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
<b>Xiao Juxiu (CHN) (1998)</b>	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	<b>PB</b>				3.22
		velocity	4.85	7.73	7.94	8.10	8.02					9.15	7.16				7.92
<b>Wei Yuhui (CHN) (2002)</b>	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
<b>Wu Yanni (CHN) (1997)</b>	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	<b>PB</b>				3.15
		velocity	4.81	7.94	8.10	8.25	8.33					8.97	7.21				8.10
<b>Wei Yuhui (CHN) (2002)</b>	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	<b>PB</b>				3.25
		velocity	4.69	7.73	7.87	7.94	7.94					8.39	6.94				7.85
<b>Lin Yuwei (CHN) (1999)</b>	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		
<b>Wu Zheng (CHN) (2001)</b>	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	<b>PB</b>		3.36		
	velocity	4.76	7.46	7.59	7.73	7.52						8.55	6.86		7.59		
<b>Li Xiangrong (CHN) (2002)</b>	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	<b>PB</b>		3.52		
	velocity	4.59	7.08	7.26	7.39	7.26						8.23	6.59		7.24		
<b>Liu Miao (CHN) (2003)</b>	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	<b>PB</b>		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
<b>Lou Xianyan (CHN) (1997)</b>	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		
<b>Zhong Xiaoli (CHN) (2003)</b>	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	<b>PB</b>		3.28		
	velocity	4.74	7.66	7.80	7.87	7.80						8.78	6.98		7.77		
<b>Chen Xianying (CHN) (2003)</b>	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	<b>PB</b>		3.40		
	velocity	4.83	7.52	7.52	7.46	7.39						8.13	6.79		7.50		
<b>Yin Xiaoxia (CHN) (2000)</b>	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	<b>PB</b>		3.37		
	velocity	4.53	7.52	7.59	7.59	7.66						8.55	6.76		7.57		
<b>Deng Mengying (CHN) (2004)</b>	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	<b>PB</b>		3.74		
	velocity	4.41	6.80	6.85	6.80	6.91						8.13	6.30		6.82		
<b>Liu Xinyao (CHN) (2003)</b>	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	<b>PB</b>		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
<b>Xiao Juxiu (CHN) (1998)</b>	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		
<b>Chen Yinfeng (CHN) (1998)</b>	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		
<b>Jiang Liyunzhe (CHN) (2002)</b>	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	<b>PB</b>		3.33		
	velocity	4.69	7.52	7.59	7.87	7.66						9.03	6.94		7.66		
<b>Chen Yuyang (CHN) (2002)</b>	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	<b>PB</b>		3.30		
	velocity	4.66	7.66	7.73	7.80	7.73						8.84	6.93		7.73		
<b>Gong Qiudan (CHN) (2003)</b>	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		
<b>Kong Rui (CHN) (2001)</b>	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	<b>PB</b>		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
<b>Visser, Nadine (NED) (1995)</b>	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	<b>NR PB</b>		2.98		
	velocity	5.28	8.17	8.85	8.67	8.67						9.63	7.72		8.56		
<b>Sember, Cindy (GBR) (1994)</b>	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	<b>=PB</b>		3.00		
	velocity	5.24	8.02	8.67	8.85	8.85						8.97	7.60		8.50		



<b>Porter, Tiffany (GBR) (1987)</b>	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
<b>Neziri, Nooralotta (FIN) (1992)</b>	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
<b>Skrzyszowska, Pia (POL) (2001)</b>	time	2.48	3.54	4.58	5.58	6.56							7.95	4 / 5			
	reaction time	0.147	interval	1.06	1.04	1.00	0.98					1.39					3.10
	velocity	5.24	8.02	8.17	8.50	8.67						9.35	7.55				8.23
<b>Bogliolo, Luminosa (ITA) (1999)</b>	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	<b>=PB</b>				3.02
	velocity	5.12	8.33	8.33	8.67	8.67						8.97	7.51				8.44
<b>Sedney, Zoë (NED) (2001)</b>	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
<b>Kozák, Luca (HUN) (1996)</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Fujimori, Nana (JPN) (1997)</b>	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
<b>Aoki, Masumi (JPN) (1994)</b>	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
<b>Kanai, Marumi (JPN) (1997)</b>	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
<b>Fujiwara, Miku (JPN) (1992)</b>	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
<b>Suzuki, Miho (JPN) (1996)</b>	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
<b>Nakajima, Hitomi (JPN) (1995)</b>	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
<b>Soma, Eriko (JPN) (1991)</b>	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 *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
<b>Aoki, Masumi (JPN) (1994)</b>	time	2.58	3.63	4.65	5.66	6.69	7.71	8.74	9.78	10.82	11.89		13.02	6 / 1			
	reaction time	0.115	interval	1.05	1.02	1.01	1.03	1.02	1.03	1.04	1.04	1.07	<b>PB</b>		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	7.94	8.89	7.68		8.28	8.28	8.10
<b>Tereda, Asuka (JPN) (1990)</b>	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
<b>Fujimori, Nana (JPN) (1997)</b>	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	1.11			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
<b>Tanaka, Yumi (JPN) (1998)</b>	time	2.64	3.69	4.74	5.77	6.82	7.85	8.90	9.95	11.02	12.13		13.37	3 / 4			

reaction time	0.150	interval	1.05	1.05	1.03	1.05	1.03	1.05	1.05	1.07	1.11	1.24		3.13	3.13	3.23	
		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
<b>Suzuki, Miho (JPN) (1996)</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Takeuchi, Maya (JPN) (1998)</b>	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	<b>PB</b>	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
<b>Fujiwara, Miku (JPN) (1992)</b>	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
<b>Hemphill, Megu (JPN) (1996)</b>	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	
<b>Odama, Karin (JPN) (1999)</b>	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	
<b>Yamasaki, Yuki (JPN) (1995)</b>	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	<i>Henson (2020) - Athlete First: 2020 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
<b>Chadwick, Payton (USA) (1991)</b>	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	8.31
<b>Brooks, Taliyah (USA) (1995)</b>	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	<b>PB</b>	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	8.31
<b>Ofili, Cindy (GBR) (1994)</b>	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	8.25	8.17	8.02	7.98	7.68	8.31	8.50	8.15	
<b>Wojtunik, Klaudia (POL) (1999)</b>	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	8.07
<b>Sedney, Zoë (NED) (2001)</b>	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	<b>PB</b>	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	7.87
<b>Graversgaard, Mette (DEN) (1991)</b>	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	7.97
<b>Lukic, Anja (SRB) (1999)</b>	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	7.87
<b>Thompson, Yanique (JAM) (1991)</b>	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	7.80

## 2020 All Japan Corporate Championships (Kumagaya, JPN)

## FINAL

date	20-Sep-20	wind	0.0 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
<b>Aoki, Masumi (JPN) (1994)</b>	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	8.07

<b>Suzuki, Miho (JPN) (1996)</b>	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	7.97
<b>Shimura, Hitomi (JPN) (1990)</b>	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	7.94
<b>Fujimori, Nana (JPN) (1997)</b>	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	7.75
<b>Fujiwara, Miku (JPN) (1992)</b>	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	7.59
<b>Kanai, Marumi (JPN) (1997)</b>	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	7.63
<b>Nakajima, Hitomi (JPN) (1995)</b>	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	7.63
<b>Omura, Mika (JPN) (1995)</b>	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	7.59

**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	
<b>Visser, Nadine (NED) (1995)</b>	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	8.28	
<b>Bogliolo, Luminosa (ITA) (1999)</b>	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	
<b>Chadwick, Payton (USA) (1999)</b>	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	8.33	8.59	7.76		8.17	8.44	8.33
<b>Ofili, Cindy (GBR) (1994)</b>	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	
<b>Brooks, Taliyah (USA) (1995)</b>	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	
<b>di Lazzaro, Elisa Maria (ITA) (1999)</b>	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	<b>NUR PB</b>		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	
<b>Samba-Mayela, Cyréna (FRA) (1999)</b>	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	1.00	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	
<b>Graversgaard, Mette (DEN) (1999)</b>	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	
<b>Korte, Annimari (FIN) (1988)</b>	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
<b>Visser, Nadine (NED) (1995)</b>	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
<b>Bogliolo, Luminosa (ITA) (1999)</b>	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
<b>Harala, Lotta (FIN) (1992)</b>	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
<b>Carmassi, Giada (ITA) (1994)</b>	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
<b>Kambundji, Ditaji (SUI) (2002)</b>	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
<b>Miteva, Elena (BUL) (1992)</b>	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
<b>Mayer, Isabel (GER) (1993)</b>	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
<b>Piffaretti, Emma (SUI) (2002)</b>	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
<b>Wu Yanni (CHN) (1997)</b>	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	1.01	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
<b>Lin Yuwei (CHN) (1999)</b>	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	1.07	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
<b>Wang Dou (CHN) (1993)</b>	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	1.06	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
<b>You Na (CHN) (1993)</b>	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	1.06	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
<b>Jiang Liyunzhe (CHN) (2002)</b>	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
<b>Wang Li (CHN) (1999)</b>	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
<b>Xiao Juxiu (CHN) (1998)</b>	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
<b>Yao Hui (CHN) (2000)</b>	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
<b>Deng Xuelin (CHN) (1998)</b>	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	1.04	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
<b>Lin Yuwei (CHN) (1999)</b>	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
<b>Dai Yiru (CHN) (2001)</b>	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
<b>You Na (CHN) (1993)</b>	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
<b>Niao Juxiu (CHN) (1998)</b>		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
<b>Yao Hui (CHN) (2000)</b>		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
<b>Luo Xianyan (CHN) (1997)</b>		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
<b>Chen Yuyang (CHN) (2002)</b>		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
<b>Wu Yanni (CHN) (1997)</b>		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		7.48		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			8.10	8.23	7.92
<b>Wang Dou (CHN) (1993)</b>		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		7.40		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			7.94	8.02	7.85
<b>Wang Li (CHN) (1999)</b>		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		7.33		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			7.97	7.92	7.61
<b>Yu Jiaru (CHN) (1999)</b>		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		7.28		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			7.92	7.92	7.66
<b>Chen Jiamin (CHN) (1996)</b>		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		7.18		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			7.77	7.92	7.59
<b>Jiang Liyunzhe (CHN) (2002)</b>		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		7.13		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			7.66	7.70	7.50
<b>Lun Xinyu (CHN) (1998)</b>		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		6.81		3.50	3.49	3.58
		velocity	4.68	7.33	7.26	7.26	7.39	7.26	7.20	7.20	6.97	7.50				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
<b>Samba-Mayela, Cyrena (FRA)</b>		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		<b>PB</b>		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			8.47	8.44	8.53
<b>Compper, Solenn (FRA) (1995)</b>		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		7.58		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			8.23	8.47	7.87
<b>Quenot, Fanny (FRA) (1990)</b>		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		7.49		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			8.23	8.20	7.87
<b>Bapte, Laetitia (FRA) (1999)</b>		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	<b>9 steps</b>	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			7.87	8.36	7.97
<b>Jollivet, Lou-Anne (FRA) (200)</b>		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		<b>PB</b>		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			7.85	8.23	7.94
<b>Chausseray, Celia (FRA) (2000)</b>		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		<b>PB</b>		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			7.80	8.04	7.77

<b>Reppert, Axelle (FRA) (2001)</b>	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		1.12	1.04	1.12	1.08	1.08	1.11	1.15	1.11	1.16	1.37		<b>PB</b>	3.28	3.27	3.42
	interval																	
	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
<b>Sevila, Emeline (FRA) (1994)</b>	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		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
	interval																	
	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	<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
<b>Fujiwara, Miku (JPN) (1992)</b>	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			1.08	1.04	1.05	1.02	1.05	1.05	1.04	1.09	1.09	1.20		<b>PB</b>	3.17	3.12	3.22
	interval																	
	velocity	4.91	7.87	8.17	8.10	8.33	8.10	8.10	8.17	7.80	7.80	8.38	7.49			8.04	8.17	7.92
<b>Hemphill, Megu (JPN) (1996)</b>	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			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
	interval																	
	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
<b>Sasaki, Ten (JPN) (1997)</b>	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			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
	interval																	
	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
<b>Soma, Eriko (JPN) (1991)</b>	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			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
	interval																	
	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
<b>Omura, Mika (JPN) (1995)</b>	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			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
	interval																	
	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
<b>Kamada, Saki (JPN) (1997)</b>	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			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
	interval																	
	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	<i>Henson (2020) - Athlete First: 2020 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
<b>Zagré, Anne (BEL) (1990)</b>	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		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
	interval																	
	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
<b>Graversgaard, Mette (DEN) (1988)</b>	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		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
	interval																	
	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
<b>Missinne, Sarah (BEL) (1995)</b>	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		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
	interval																	
	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
<b>Johnson-Thompson, Katarina (GBR) (1992)</b>	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		7 steps	1.13	1.07	1.07	1.03	1.07	1.06	1.07	1.13	1.27			3.27	3.16	3.27
	interval																	
	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
<b>Tomicic Prezelj, Joni (SLO) (1990)</b>	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		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
	interval																	
	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
<b>Beaucarne, Chloë (BEL) (1997)</b>	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		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
	interval																	
	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
<b>Bakker, Sharona (NED) (1990)</b>	time	2.57	3.67	4.73										dnf	3 / --			
	reaction time	0.130		1.10	1.06													
	interval																	
	velocity	5.06	7.73	8.02														

## 2020 Athlete Night Games (Fukui, JPN)

## FINAL

	date	29-Aug-20	wind	2.1 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
<b>Aoki, Masumi (JPN) (1994)</b>	time	2.62	3.64	4.68	5.68	6.69	7.68	8.69	9.71	10.73	11.78		12.87	/ 1				
	reaction time			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
	interval																	
	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
<b>Terada, Asuka (JPN) (1990)</b>	time	2.61	3.63	4.64	5.65	6.65	7.66	8.67	9.69	10.73	11.78		12.93	/ 2				
	reaction time			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
	interval																	
	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



<b>Kiyoyama, Chisato (JPN) (199)</b>	time	2.66	3.73	4.75	5.76	6.78	7.79	8.83	9.85	10.89	11.98		13.10	/ 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
<b>Suzuki, Miho (JPN) (1996)</b>	time	2.69	3.73	4.74	5.76	6.76	7.77	8.79	9.84	10.89	11.99		13.12	/ 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
<b>Shimura, Hitomi (JPN) (1990)</b>	time	2.67	3.72	4.75	5.77	6.78	7.80	8.82	9.86	10.91	11.97		13.14	/ 5			
reaction time	interval		1.05	1.03	1.02	1.01	1.02	1.02	1.04	1.05	1.06	1.17			3.10	3.05	3.15
	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
<b>Fukube, Mako (JPN) (1995)</b>	time	2.67	3.75	4.82	5.86	6.87	7.92	8.96	10.03	11.10	12.19		13.36	/ 6			
reaction time	interval		1.08	1.07	1.04	1.01	1.05	1.04	1.07	1.07	1.09	1.17			3.19	3.10	3.23
	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
<b>Hemphill, Megu (JPN) (1996)</b>	time	2.68	3.78	4.84	5.89	6.93	7.98	9.04	10.11	11.19	12.32		13.58	/ 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
<b>Kobayashi, Ayumi (JPN) (2001)</b>	time	2.69	3.79	4.86	5.91	6.94	8.00	9.06	10.14	11.22	12.33		13.58	/ 8			
reaction time	interval		1.10	1.07	1.05	1.03	1.06	1.06	1.08	1.08	1.11	1.25			3.22	3.15	3.27
	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
<b>Bogliolo, Luminosa (ITA) (199)</b>	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	7.73	8.74	7.76		8.50	8.42	8.23
<b>Harala, Lotta (FIN) (1992)</b>	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	<b>=PB</b>		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
<b>Graversgaard, Mette (DEN) (19)</b>	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	<b>NR PB</b>		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
<b>Wennersten, Julia (SWE) (200)</b>	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
<b>Karlsson, Lovisa (SWE) (2000)</b>	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
<b>Johnson-Thompson, Katarina</b>	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		<b>7 steps</b>	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
<b>Klaup-McColl, Mari (EST) (199)</b>	time	2.73	3.83	4.93	6.00	7.13	8.23	9.33	10.43	11.53	12.67		13.98	8 / 7			
reaction time	0.185 interval		1.10	1.10	1.07	1.13	1.10	1.10	1.10	1.10	1.14	1.31			3.27	3.33	3.34
	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
<b>Skogström, Malin (SWE) (199)</b>	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
<b>Terada, Asuka (JPN) (1990)</b>	time	2.61	3.69	4.69	5.69	6.71	7.71	8.74	9.77	10.81	11.88		13.03	5 / 1			
reaction time	0.164 interval		1.08	1.00	1.00	1.02	1.00	1.03	1.03	1.04	1.07	1.15			3.08	3.05	3.14
	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
<b>Aoki, Masumi (JPN) (1994)</b>	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	<b>PB</b>		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
<b>Kiyoyama, Chisato (JPN) (199)</b>	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
<b>Tanaka, Yumi (JPN) (1998)</b>	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
<b>Suzuki, Miho (JPN) (1996)</b>	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
<b>Fukube, Mako (JPN) (1995)</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Ito, Ayaka (JPN) (2002)</b>	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	1.10	1.11	1.09	1.14	1.14	1.20	<b>PB</b>	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
<b>Fujimori, Nana (JPN) (1997)</b>	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
<b>Visser, Nadine (NED) (1995)</b>	time	2.49	3.50	4.50	5.47	6.44	7.41	8.41	9.41	10.42	11.44			12.68	5 / 1			
reaction time	0.145	interval	1.01	1.00	0.97	0.97	0.97	1.00	1.00	1.01	1.02	1.24				2.98	2.94	3.03
		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
<b>Kozák, Luca (HUN) (1996)</b>	time	2.47	3.50	4.50	5.47	6.44	7.44	8.44	9.44	10.44	11.44			12.71	6 / 2			
reaction time	0.168	interval	1.03	1.00	0.97	0.97	1.00	1.00	1.00	1.00	1.00	1.27	<b>NR PB</b>		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
<b>Herman, Elvira (BLR) (1997)</b>	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
<b>Samba-Mayela, Cyrena (FRA)</b>	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
<b>Korte, Annimari (FIN) (1988)</b>	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
<b>Nelvis, Sharika (USA) (1990)</b>	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	<b>7 steps</b>	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
<b>Kerekes, Gréta (HUN) (1992)</b>	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
<b>Brooks, Taliyah (USA) (1995)</b>	time	2.50	3.54											dnf	1 / --			
reaction time	0.120	interval	<b>7 steps</b>	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
<b>Korte, Annimari (FIN) (1988)</b>	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
<b>Neziri, Nooralotta (FIN) (1992)</b>	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	8.17	8.50	8.50	8.02	8.04	7.69		8.23	8.39	8.33	
<b>Hurske, Reetta (FIN) (1995)</b>	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
<b>Harala, Lotta (FIN) (1992)</b>	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

<b>Siirtola, Anni (FIN) (1998)</b>	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	7.73	7.67	7.29	7.87	7.97	7.73
<b>Vento, Lotta (FIN) (1997)</b>	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	7.73	7.85	7.23	7.80	7.80	7.82
<b>Avikainen, Viivi (FIN) (1987)</b>	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	7.21	7.73	7.97	7.66
<b>Keskitalo, Saara (FIN) (2000)</b>	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	7.21	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
<b>Visser, Nadine (NED) (1995)</b>	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	7.89	8.39	8.67	8.44
<b>Bogliolo, Luminosa (ITA) (1999)</b>	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	7.82	8.44	8.56	8.39
<b>Kozák, Luca (HUN) (1996)</b>	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	<b>PB</b>	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	7.79	8.39	8.61	8.39
<b>Korte, Annimari (FIN) (1988)</b>	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	7.76	8.44	8.56	8.33
<b>Neziri, Nooralotta (FIN) (1992)</b>	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	7.69	8.33	8.44	8.17
<b>Harala, Lotta (FIN) (1992)</b>	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	<b>PB</b>	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	7.63	8.28	8.39	8.12
<b>Hurske, Reetta (FIN) (1995)</b>	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	7.63	8.17	8.39	8.07
<b>Ndama, Solène (FRA) (1998)</b>	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	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
<b>Fukumoto, Tomoho (JPN)</b>	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	6.72	7.39	7.24	6.85
<b>Ueki, Kyoka (JPN)</b>	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	6.16	6.84	6.56	6.06
<b>Matsumoto, Haruka (JPN)</b>	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	6.16	6.99	6.54	5.92
<b>Nakamura, Nene (JPN)</b>	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	5.91	6.80	6.23	5.59
<b>Nishikiori, Reina (JPN)</b>	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	5.74	6.62	6.27	5.70
<b>Fujiwara, Miho (JPN)</b>	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
<b>Korte, Annimari (FIN) (1988)</b>	time				2.60	3.63	4.66	5.66	6.63	7.60	8.60	9.60	10.60	11.63		12.76	4 / 1			
	reaction time	interval				1.03	1.03	1.00	0.97	0.97	1.00	1.00	1.00	1.03	1.13			3.06	2.94	3.03
		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
<b>Hurske, Reetta (FIN) (1995)</b>	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	1.00	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	8.50	8.25	8.17	8.25	8.52	7.75		8.31	8.50
<b>Neziri, Nooralotta (FIN) (1992)</b>	time				2.60	3.63	4.66	5.66	6.63	7.63	8.63	9.63	10.66	11.73		12.95	5 / 3			
	reaction time	interval				1.03	1.03	1.00	0.97	1.00	1.00	1.00	1.03	1.07	1.22			3.06	2.97	3.10
		velocity				5.00	8.25	8.25	8.50	8.76	8.50	8.50	8.50	8.25	7.94	8.24	7.72		8.33	8.59
<b>Harala, Lotta (FIN) (1992)</b>	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
<b>Stång, Sonja (FIN) (2002)</b>	time				2.70	3.83	4.93	6.03	7.10	8.16	9.23	10.33	11.43	12.56		13.82	2 / 5			
	reaction time	interval				1.13	1.10	1.10	1.07	1.06	1.07	1.10	1.10	1.13	1.26	<b>PB</b>		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
<b>Avikainen, Viivi (FIN) (1987)</b>	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
<b>Kokkonen, Tanja (FIN) (2002)</b>	time				2.70	3.83	4.96	6.06	7.16	8.26	9.36	10.50	11.66	12.86		14.21	1 / 7			
	reaction time	interval				1.13	1.13	1.10	1.10	1.10	1.10	1.14	1.16	1.20	1.35			3.36	3.30	3.50
		velocity				4.81	7.52	7.52	7.73	7.73	7.73	7.73	7.46	7.33	7.08	7.44	7.04		7.59	7.73
<b>Siirtola, Anni (FIN) (1998)</b>	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		H1	H2	H3	H4	H5		CAA Hurdle Development (2020)					
											Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Cunningham, Gabriele (USA)</b>	time				2.57	3.58	4.60	5.58	6.57			7.92	6 / 1			
	reaction time	0.170	interval			1.01	1.02	0.98	0.99		1.35	<b>PB</b>		3.01		
		velocity				5.06	8.42	8.33	8.67	8.59		9.63	7.58		8.47	
<b>Chadwick, Payton (USA) (1999)</b>	time				2.60	3.63	4.63	5.64	6.64			7.94	3 / 2			
	reaction time	0.160	interval			1.03	1.00	1.01	1.00		1.30			3.04		
		velocity				5.00	8.25	8.50	8.42	8.50		10.00	7.56		8.39	
<b>McReynolds, Tiffani (USA) (1999)</b>	time				2.60	3.63	4.65	5.65	6.64			7.96	4 / 3			
	reaction time	0.181	interval			1.03	1.02	1.00	0.99		1.32			3.05		
		velocity				5.00	8.25	8.33	8.50	8.59		9.85	7.54		8.36	
<b>Jones, Cortney (USA) (1999)</b>	time				2.65	3.67	4.68	5.69	6.69			8.10	7 / 4			
	reaction time	0.171	interval			1.02	1.01	1.01	1.00		1.41			3.04		
		velocity				4.91	8.33	8.42	8.42	8.50		9.22	7.41		8.39	
<b>Castlin, Kristi (USA) (1988)</b>	time				2.65	3.70	4.73	5.74	6.74			8.12	1 / 5			
	reaction time	0.166	interval			1.05	1.03	1.01	1.00		1.38			3.09		
		velocity				4.91	8.10	8.25	8.42	8.50		9.42	7.39		8.25	
<b>Bougard, Erica (USA) (1993)</b>	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	1.00		1.38			3.08		
		velocity				4.87	8.02	8.33	8.50	8.50		9.42	7.38		8.28	
<b>Howell, Jackie (USA) (1996)</b>	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		H1	H2	H3	H4	H5		CAA Hurdle Development (2020)					
											Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>McReynolds, Tiffani (USA) (1999)</b>	time				2.59	3.64	4.64	5.64	6.62			7.98	6 / 1			
	reaction time	0.156	interval			1.05	1.00	1.00	0.98		1.36			3.05		
		velocity				5.02	8.10	8.50	8.50	8.67		9.56	7.52		8.36	
<b>Chadwick, Payton (USA) (1999)</b>	time				2.62	3.65	4.69	5.65	6.67			8.04	7 / 2			

reaction time	0.170	interval	1.03	1.04	0.96	1.02		1.37		3.03
velocity		4.96	8.25	8.17	8.85	8.33		9.49	7.46	8.42
<b>Jones, Courtney (USA) (1999)</b>	time	2.67	3.72	4.72	5.73	6.74			8.14	3 / 3
reaction time	0.175	interval	1.05	1.00	1.01	1.01		1.40		3.06
velocity		4.87	8.10	8.50	8.42	8.42		9.29	7.37	8.33
<b>Bougard, Erica (USA) (1993)</b>	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	1.00		1.39		3.09
velocity		4.85	7.94	8.33	8.50	8.50		9.35	7.35	8.25
<b>Penda, Helnsarah (USA)</b>	time	2.70	3.82	4.92	6.02	7.12			8.67	4 / 5
reaction time	0.168	interval	1.12	1.10	1.10	1.10		1.55		3.32
velocity		4.81	7.59	7.73	7.73	7.73		8.39	6.92	7.68

**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
<b>Jones, Tia (USA) (2000)</b>	time	2.60	3.63	4.65	5.64	6.62		7.96	3 / 1			
reaction time	0.162	interval	1.03	1.02	0.99	0.98	1.34	<b>PB</b>		3.04		
velocity		5.00	8.25	8.33	8.59	8.67	9.70	7.54		8.39		
<b>Cunningham, Gabriele (USA)</b>	time	2.54	3.58	4.60	5.60	6.59		7.97	6 / 2			
reaction time	0.164	interval	1.04	1.02	1.00	0.99	1.38	<b>PB</b>		3.06		
velocity		5.12	8.17	8.33	8.50	8.59	9.42	7.53		8.33		
<b>Howell, Jackie (USA) (1996)</b>	time	2.67	3.73	4.77	5.78	6.79		8.17	4 / 3			
reaction time	0.154	interval	1.06	1.04	1.01	1.01	1.38			3.11		
velocity		4.87	8.02	8.17	8.42	8.42	9.42	7.34		8.20		
<b>Castlin, Kristi (USA) (1988)</b>	time	2.62	3.70	4.75	5.79	6.80		8.19	5 / 4			
reaction time	0.136	interval	1.08	1.05	1.04	1.01	1.39			3.17		
velocity		4.96	7.87	8.10	8.17	8.42	9.35	7.33		8.04		
<b>Moore, Tawnie (USA) (1995)</b>	time	2.65	3.72	4.77	5.79	6.82		8.21	7 / 5			
reaction time	0.147	interval	1.07	1.05	1.02	1.03	1.39			3.14		
velocity		4.91	7.94	8.10	8.33	8.25	9.35	7.31		8.12		

**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
<b>Sloan, Emily (USA) (2000)</b>	time	2.67	3.70	4.76	5.77	6.82		8.18	4 / 1			
reaction time		interval	1.03	1.06	1.01	1.05	1.36	<b>PB</b>		3.10		
velocity		4.87	8.25	8.02	8.42	8.10	9.56	7.33		8.23		
<b>You Na (CHN) (1993)</b>	time	2.72	3.79	4.83	5.87	6.90		8.28	6 / 2			
reaction time		interval	1.07	1.04	1.04	1.03	1.38			3.15		
velocity		4.78	7.94	8.17	8.17	8.25	9.42	7.25		8.10		
<b>Harrison, Michelle (CAN) (199)</b>	time	2.70	3.79	4.83	5.87	6.92		8.31	5 / 3			
reaction time		interval	1.09	1.04	1.04	1.05	1.39			3.17		
velocity		4.81	7.80	8.17	8.17	8.10	9.35	7.22		8.04		
<b>Caicedo, Maribel (ECU) (1998)</b>	time	2.72	3.78	4.84	5.86	6.92		8.32	2 / 4			
reaction time		interval	1.06	1.06	1.02	1.06	1.40			3.14		
velocity		4.78	8.02	8.02	8.33	8.02	9.29	7.21		8.12		
<b>Hicks, Jada (USA) (2000)</b>	time	2.67	3.74	4.82	5.86	6.93		8.35	1 / 5			
reaction time		interval	1.07	1.08	1.04	1.07	1.42			3.19		
velocity		4.87	7.94	7.87	8.17	7.94	9.15	7.19		7.99		
<b>Rusnak, Hannah (USA)</b>	time	2.64	3.72	4.79	5.84	6.92		8.39	7 / 6			
reaction time		interval	1.08	1.07	1.05	1.08	1.47			3.20		
velocity		4.92	7.87	7.94	8.10	7.87	8.84	7.15		7.97		

**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
<b>Shi Jiali (CHN) (1997)</b>	time	2.67	3.77	4.81	5.86	6.92		8.49	8 / 4			
reaction time		interval	1.10	1.04	1.05	1.06	1.57			3.19		
velocity		4.87	7.73	8.17	8.10	8.02	8.28	7.07		7.99		

**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
<b>You Na (CHN) (1993)</b>	time	2.73	3.80	4.84	5.87	6.92		8.30	1 / 2			
reaction time		interval	1.07	1.04	1.03	1.05	1.38			3.14		
velocity		4.76	7.94	8.17	8.25	8.10	9.42	7.23		8.12		

<b>Shimura, Hitomi (JPN) (1990)</b>	time	2.68	3.75	4.81	5.86	6.95		8.43	5 / 4	
reaction time	interval		1.07	1.06	1.05	1.09	1.48			3.18
	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
<b>You Na (CHN) (1993)</b>	time	2.59	3.69	4.74	5.80	6.89		8.48	2 / 2			
reaction time	interval		1.10	1.05	1.06	1.09	1.59				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
<b>Shi Jiali (CHN) (1997)</b>	time	2.65	3.74	4.80	5.87	6.92		8.54	7 / 2			
reaction time	interval		1.09	1.06	1.07	1.05	1.62				3.22	
	velocity	4.91	7.80	8.02	7.94	8.10	8.02	7.03			7.92	

**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
<b>Harrison, Keni (USA) (1992)</b>	time	2.53	3.56	4.52	5.51	6.48		7.90	5 / 1			
reaction time	0.201 interval		1.03	0.96	0.99	0.97	1.42				2.98	
	velocity	5.14	8.25	8.85	8.59	8.76	9.15	7.59			8.56	
<b>Ali, Nia (USA) (1988)</b>	0.199 no information available							7.96	4 / 2			
<b>Chadwick, Payton (USA) (1991)</b>	time	2.57	3.62	4.61	5.61	6.59		8.00	8 / 3			
reaction time	0.161 interval		1.05	0.99	1.00	0.98	1.41				3.04	
	velocity	5.06	8.10	8.59	8.50	8.67	9.22	7.50			8.39	
<b>Anderson, Britany (JAM) (2001)</b>	time	2.60	3.63	4.60	5.60	6.57		8.02	7 / 4			
reaction time	0.168 interval		1.03	0.97	1.00	0.97	1.45	<b>NJR PB</b>			3.00	
	velocity	5.00	8.25	8.76	8.50	8.76	8.97	7.48			8.50	
<b>Cunningham, Gabbi (USA) (1991)</b>	time	2.56	3.60	4.62	5.64	6.64		8.08	3 / 5			
reaction time	0.176 interval		1.04	1.02	1.02	1.00	1.44				3.08	
	velocity	5.08	8.17	8.33	8.33	8.50	9.03	7.43			8.28	
<b>Brown, Janeek (JAM) (1998)</b>	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	
<b>Phillips, Leah (USA) (2002)</b>	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	
<b>Ellenwood, Georgia (CAN) (1991)</b>	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	<b>PB</b>			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
<b>Dyer, Danae (USA) (2000)</b>	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	<b>PB</b>			3.17	
	velocity	4.91	7.73	8.33	8.10	8.17	9.42	7.28			8.04	
<b>You Na (CHN) (1993)</b>	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	
<b>Beattie, Danielle (USA) (2001)</b>	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	
<b>Shi Jiali (CHN) (1997)</b>	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
<b>You Na (CHN) (1993)</b>	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	<b>PB</b>			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
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<b>Dyer, Danae (USA) (2000)</b>	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	<b>PB</b>		3.17
	velocity	4.87	7.94	8.02	8.17	8.33	9.22	7.26		8.04
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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	
<b>Clemons, Christina (USA) (1991)</b>	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	
<b>Brown, Janeek (JAM) (1998)</b>	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	
<b>Anderson, Britany (JAM) (2000)</b>	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	<b>NJR PB</b>			3.02	
	velocity	4.83	8.25	8.59	8.50	8.59	9.49	7.43			8.44	
<b>Pedersen, Isabelle (NOR) (1992)</b>	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	
<b>Chadwick, Payton (USA) (1991)</b>	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	
<b>Williams, Jeanine (JAM) (1997)</b>	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	
<b>Porter, Tiffany (GBR) (1987)</b>	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
<b>Brown, Janeek (JAM) (1998)</b>	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	
<b>Pedersen, Isabelle (NOR) (1992)</b>	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	
<b>Anderson, Britany (JAM) (2000)</b>	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	<b>PB</b>			3.02	
	velocity	4.78	8.25	8.59	8.50	8.67	9.29	7.39			8.44	
<b>Porter, Tiffany (GBR) (1987)</b>	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	
<b>Stowers, Jasmin (USA) (1991)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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	
<b>Clemons, Christina (USA) (1991)</b>	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	
<b>Chadwick, Payton (USA) (1991)</b>	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			
<b>Williams, Jeanine (JAM) (1997)</b>	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			
<b>Jones, Lolo (USA) (1982)</b>	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
<b>Taylor, Naomi (USA) (1998)</b>	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		
<b>Carter, Kori (USA) (1992)</b>	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		
<b>You Na (CHN) (1993)</b>	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	<b>PB</b>		3.19		
	velocity	5.06	7.87	8.10	8.02	8.10				8.55	7.20		7.99		
<b>Shi Jiali (CHN) (1997)</b>	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
<b>You Na (CHN) (1993)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	time	2.60	3.70	4.77	5.82	6.86					8.43	6 / 2			
reaction time	interval		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
<b>Shibata, Manaka (JPN) (2001)</b>	time	2.66	3.73	4.78	5.81	6.85	7.89	8.93	9.99	11.09	12.20		13.45	6 / 1			
reaction time	0.142 interval		1.07	1.05	1.03	1.04	1.04	1.04	1.06	1.10	1.11	1.25			3.15	3.12	3.27
	velocity	4.89	7.94	8.10	8.25	8.17	8.17	8.17	8.02	7.73	7.66	8.40	7.43		8.10	8.17	7.80
<b>Shimano, Mao (JPN) (2001)</b>	time	2.71	3.81	4.85	5.91	6.97	8.05	9.15	10.24	11.39	12.53		13.78	4 / 2			
reaction time	0.153 interval		1.10	1.04	1.06	1.06	1.08	1.10	1.09	1.15	1.14	1.25			3.20	3.24	3.38
	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
<b>Kobayashi, Ayumi (JPN) (2001)</b>	time	2.72	3.79	4.86	5.90	6.98	8.04	9.11	10.21	11.35	12.49		13.79	5 / 3			
reaction time	0.133 interval		1.07	1.07	1.04	1.08	1.06	1.07	1.10	1.14	1.14	1.30			3.18	3.21	3.38
	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 -0.8 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
<b>Ito, Ayaka (JPN) (2002)</b>	time	2.59	3.69	4.76	5.83	6.88	7.92	9.00	10.10	11.20	12.30		13.56	5 / 1			
reaction time	0.153 interval		1.10	1.07	1.07	1.05	1.04	1.08	1.10	1.10	1.10	1.26			3.24	3.17	3.30
	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
<b>Kikuchi, Aika (JPN) (2002)</b>	time	2.73	3.83	4.89	5.95	7.03	8.10	9.17	10.28	11.38	12.51		13.73	4 / 2			
reaction time	0.152 interval		1.10	1.06	1.06	1.08	1.07	1.07	1.11	1.10	1.13	1.22			3.22	3.22	3.34
	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
<b>Kurokawa, Sane (JPN) (2002)</b>	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 interval		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
<b>Ali, Nia (USA) (1988)</b>	time	2.43	3.44	4.41	5.37	6.32	7.28	8.23	9.19	10.19	11.16		12.34	4 / 1			

reaction time	0.155	interval	1.01	0.97	0.96	0.95	0.96	0.95	0.96	1.00	0.97	1.18	<b>PB</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	time	2.41	3.46	4.44	5.39	6.38	7.32	8.29	9.26	10.25	11.25		12.46	6 / 2			
reaction time	0.140	interval	1.05	0.98	0.95	0.99	0.94	0.97	0.97	0.99	1.00	1.21		2.98	2.90	2.96	
		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
<b>Williams, Danielle (JAM) (1992)</b>	time	2.45	3.46	4.42	5.39	6.37	7.33	8.30	9.28	10.28	11.28		12.47	5 / 3			
reaction time	0.127	interval	1.01	0.96	0.97	0.98	0.96	0.97	0.98	1.00	1.00	1.19		2.94	2.91	2.98	
		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
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.53	3.56	4.53	5.50	6.45	7.39	8.35	9.32	10.30	11.30		12.49	7 / 4			
reaction time	0.218	interval	1.03	0.97	0.97	0.95	0.94	0.96	0.97	0.98	1.00	1.19		2.97	2.85	2.95	
		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
<b>Vargas, Andrea Carolina (CRC)</b>	time	2.48	3.52	4.50	5.49	6.47	7.44	8.43	9.41	10.43	11.44		12.64	3 / 5			
reaction time	0.157	interval	1.04	0.98	0.99	0.98	0.97	0.99	0.98	1.02	1.01	1.20	<b>NR</b>	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
<b>Visser, Nadine (NED) (1995)</b>	time	2.48	3.51	4.49	5.46	6.43	7.38	8.37	9.36	10.36	11.43		12.66	2 / 6			
reaction time	0.147	interval	1.03	0.98	0.97	0.97	0.95	0.99	0.99	1.00	1.07	1.23		2.98	2.91	3.06	
		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
<b>Brown, Janeek (JAM) (1998)</b>	time	2.57	3.63	4.63	5.60	6.60	7.59	8.58	9.58	10.59	11.64		12.88	8 / 7			
reaction time	0.147	interval	1.06	1.00	0.97	1.00	0.99	0.99	1.00	1.01	1.05	1.24		3.03	2.98	3.06	
		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
<b>Tapper, Megan (JAM) (1994)</b>	time	2.67	4.08											dnf	9 / -		
reaction time	0.209	interval	<b>10 step</b>	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
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.49	3.52	4.49	5.45	6.41	7.38	8.33	9.32	10.30	11.33		12.48	5 / 1			
reaction time	0.124	interval	1.03	0.97	0.96	0.96	0.97	0.95	0.99	0.98	1.03	1.15	<b>=PB</b>		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
<b>Brown, Janeek (JAM) (1998)</b>	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
<b>Vargas, Andrea Carolina (CRC)</b>	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	<b>NR</b>	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
<b>Herman, Elvira (BLR) (1997)</b>	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
<b>Zagré, Anne (BEL) (1990)</b>	time	2.61	3.64	4.63	5.61	6.59	7.56	8.54	9.56	10.58	11.62		13.23	9 / <del>5</del>			
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	<b>DQ</b>	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
<b>Hurske, Reetta (FIN) (1995)</b>	time	2.57	3.62	4.64	5.64	6.65	7.65	8.68	9.71	10.78	11.85		13.24	8 / <del>5</del>			
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
<b>Schrott, Beate (AUT) (1988)</b>	time	2.71	3.77	4.78	5.81	6.81	7.83	8.85	9.89	10.94	12.02		13.25	3 / <del>7</del> 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
<b>Beahan, Brianna (AUS) (1991)</b>	time	2.68	3.71	4.74	5.76	6.78	7.80	8.86	9.92	10.98	12.06		13.38	2 / <del>8</del> 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
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Tapper, Megan (JAM) (1994)</b>	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	<b>PB</b>	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
<b>Thompson, Yanique (JAM) (1991)</b>	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	
<b>Koleczek, Karolina (POL) (199)</b>	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	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	
<b>Neziri, Nooralotta (FIN) (1992)</b>	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	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	
<b>Ofili, Cindy (GBR) (1994)</b>	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	1.04	1.00	1.00	1.00	0.98	1.00	1.02	1.04	1.04	1.37			3.04	2.98	3.10	
	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	
<b>Steenkamp, Rikenette (RSA) (</b>	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	1.04	1.02	1.00	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	
<b>Bogliolo, Luminosa (ITA) (199)</b>	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	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	
<b>Semi-Final 1</b>	date	06-Oct-19	wind	1.0 m/s	<i>Henson (2020) - Athlete First: 2019 year end hurdle report (TV Analysis)</i>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Williams, Danielle (JAM) (1992)</b>	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	1.00	0.98	0.96	0.96	0.96	0.96	0.98	0.98	0.98	1.21			2.94	2.88	2.94	
	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	
<b>Ali, Nia (USA) (1988)</b>	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	1.00	0.98	0.96	0.96	0.98	0.96	0.98	0.98	1.00	1.22	<b>PB</b>		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	
<b>Visser, Nadine (NED) (1995)</b>	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	1.02	0.98	0.96	0.96	0.98	0.96	0.98	1.02	1.04	1.24	<b>NR</b>		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	
<b>Roleder, Cindy (GER) (1989)</b>	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	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	
<b>Kozák, Luca (HUN) (1996)</b>	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	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	
<b>Korte, Annimari (FIN) (1988)</b>	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	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	
<b>Jenneke, Michelle (AUS) (1993)</b>	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	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	8.33	8.02	8.02	7.44	7.64		8.33	8.39	8.12	
<b>Romero, Genesis (VEN) (1995)</b>	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	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	
<b>Heat 5 (TV Analysis)</b>	date	05-Oct-19	wind	0.2 m/s	<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Amusan, Tobi (NGR) (1997)</b>	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	1.02	0.98	0.96	0.94	0.96	0.94	0.98	1.00	1.00	1.22	<b>PB</b>		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	
<b>Heat 4 (TV Analysis)</b>	date	05-Oct-19	wind	0.3 m/s	<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Harrison, Kendra (USA) (1992)</b>	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	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	
<b>Heat 3 (TV Analysis)</b>	date	05-Oct-19	wind	0.4 m/s	<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Williams, Danielle (JAM) (1992)</b>	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	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	8.85	8.67	8.50	8.33	7.91	7.99		8.67	8.85	8.50	
<b>Heat 1</b>	date	05-Oct-19	wind	0.3 m/s	<i>Henson (2021) - Athlete First: 2019 year end hurdle report (TV Analysis)</i> <i>(2019) - http://tfd-data-store.com/2019/09/02/post-1606/</i>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>

<b>Ali, Nia (USA) (1988)</b>	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				<i>Henson (2021)</i>						
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			
<b>Terada, Asuka (JPN) (1990)</b>	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							<i>(2019) - tldata-store</i>			
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				
<b>Williams, Kendall (USA) (1995)</b>	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					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)****U18 FINAL**

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				
<b>Onda, Misaki (JPN) (2004)</b>	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	1.09	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
<b>Asagi, Tsukiha (JPN) (2003)</b>	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
<b>Fujiwara, Karen (JPN) (2004)</b>	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	1.10	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
<b>Suzuki, Risa (JPN) (2003)</b>	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	1.22						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	8.61	7.19					7.68	7.82	7.73
<b>Ouchi, Kokoro (JPN) (2003)</b>	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	1.22						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
<b>Shimamura, Aozora (JPN) (2004)</b>	time	2.68	3.78	4.87	5.96	7.05	8.13	9.23	10.36	11.48	12.63		13.95	3 / 6							
reaction time	0.138	interval		1.10	1.09	1.09	1.08	1.10	1.13	1.12	1.15	1.32						3.28	3.27	3.40	
		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
<b>Matsuda, Kako (JPN) (2003)</b>	time	2.68	3.78	4.87	5.94	7.02	8.13	9.23	10.34	11.49	12.68		13.97	8 / 7							
reaction time	0.159	interval		1.10	1.09	1.07	1.08	1.11	1.10	1.11	1.15	1.19	1.29					3.26	3.29	3.45	
		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
<b>Yasui, Mari (JPN) (2003)</b>	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	interval		1.13	1.10	1.11	1.10	1.09	1.13	1.16	1.15	1.25						3.34	3.32	3.46	
		velocity		4.73	7.52	7.73	7.66	7.73	7.80	7.52	7.33	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				
<b>Nelvis, Sharika (USA) (1990)</b>	time	2.53	3.50	4.50	5.46	6.43	7.43	8.43	9.46	10.46	11.53		12.80	7 / 1							
reaction time	0.172	interval		0.97	1.00	0.96	0.97	1.00	1.00	1.03	1.00	1.07	1.27					2.93	2.97	3.10	
		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
<b>Koleczek, Karolina (POL) (1999)</b>	time	2.56	3.60	4.60	5.60	6.60	7.60	8.60	9.60	10.63	11.63		12.86	2 / 2							
reaction time	0.166	interval		1.04	1.00	1.00	1.00	1.00	1.00	1.03	1.00	1.23						3.04	3.00	3.03	
		velocity		5.08	8.17	8.50	8.50	8.50	8.50	8.50	8.25	8.50	8.54	7.78					8.39	8.50	8.42
<b>Herman, Elvira (BLR) (1997)</b>	time	2.56	3.63	4.63	5.63	6.60	7.60	8.60	9.63	10.63	11.65		12.92	4 / 3							
reaction time	0.145	interval		1.07	1.00	1.00	0.97	1.00	1.00	1.03	1.00	1.02	1.27					3.07	2.97	3.05	
		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
<b>Claye, Queen (USA) (1988)</b>	time	2.53	3.56	4.60	5.60	6.60	7.60	8.60	9.60	10.63	11.73		12.95	5 / 4							
reaction time	0.155	interval		1.03	1.04	1.00	1.00	1.00	1.00	1.03	1.10	1.22						3.07	3.00	3.13	
		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
<b>Korte, Annimari (FIN) (1988)</b>	time	2.56	3.63	4.66	5.66	6.66	7.66	8.66	9.68	10.70	11.75		12.98	6 / 5							
reaction time	0.140	interval		1.07	1.03	1.00	1.00	1.00	1.02	1.02	1.05	1.23						3.10	3.00	3.09	
		velocity		5.08	7.94	8.25	8.50	8.50	8.50	8.33	8.33	8.10	8.54	7.70					8.23	8.50	8.25
<b>Bogliolo, Luminosa (ITA) (1999)</b>	time	2.56	3.60	4.60	5.60	6.63	7.63	8.63	9.66	10.70	11.80		13.05	8 / 6							
reaction time	0.187	interval		1.04	1.00	1.00	1.03	1.00	1.03	1.04	1.10	1.25						3.04	3.03	3.17	
		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

<b>McReynolds, Tiffani (USA) (1993)</b>	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		1.03	1.04	1.03	1.00	1.03	1.07	1.04	1.06	1.04	1.26		3.10	3.10	3.14
	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
<b>Barber, Kalia (USA) (1993)</b>	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		1.08	1.14	1.06	1.07	1.07	1.06	1.09	1.05	1.10	1.34		3.28	3.20	3.24
	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
<b>Williams, Danielle (JAM) (1992)</b>	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		0.99	0.97	0.98	0.96	0.97	0.97	0.98	1.00	1.00	1.20		2.94	2.90	2.98	
	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	
<b>Harrison, Kendra (USA) (1992)</b>	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		1.02	1.01	0.97	0.99	0.98	0.98	1.00	1.02	1.05	1.21		3.00	2.95	3.07	
	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	
<b>Ali, Nia (USA) (1988)</b>	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		1.02	1.02	0.99	0.99	0.97	1.00	1.01	1.01	1.01	1.22		3.03	2.96	3.03	
	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	
<b>Nelvis, Sharika (USA) (1990)</b>	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		1.00	1.00	1.00	0.98	1.00	1.00	1.02	1.02	1.00	1.31		3.00	2.98	3.04	
	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	
<b>Clemons, Christina (USA) (1991)</b>	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		1.00	1.02	0.98	1.00	1.00	1.00	1.04	1.07	1.23		3.00	3.00	3.11		
	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	
<b>Roleder, Cindy (GER) (1989)</b>	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		1.04	1.03	1.00	1.00	1.04	1.03	1.04	1.06	1.25		3.07	3.04	3.13		
	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	
<b>Herman, Elvira (BLR) (1997)</b>	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		1.07	1.02	1.00	1.02	1.00	1.03	1.02	1.03	1.05	1.25		3.09	3.05	3.10	
	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	
<b>Zagne, Anne (BEL) (1990)</b>	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			
	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
<b>Terada, Asuka (JPN) (1990)</b>	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
	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	
<b>Fukube, Mako (JPN) (1995)</b>	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	
	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	
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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	
	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	
<b>Suzuki, Miho (JPN) (1996)</b>	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	
	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	
<b>Shimura, Hitomi (JPN) (1990)</b>	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	1.19		3.12	3.14	3.23		
	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	
<b>Fujimori, Nana (JPN) (1997)</b>	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	
	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	
<b>Sasaki, Aogi (JPN) (1997)</b>	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	
	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
<b>Chen Jiamin (CHN) (1996)</b>	time	2.67	3.71	4.81	5.85	6.91	7.96	9.01	10.09	11.16	12.26		13.46	5 / 1			
	reaction time	0.215	interval	1.04	1.10	1.04	1.06	1.05	1.05	1.08	1.07	1.10	1.20		3.18	3.16	3.25
	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
<b>Dai Yiru (CHN) (2001)</b>	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	interval	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
	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
<b>Deng Xuelin (CHN) (1998)</b>	time	2.72	3.77	4.82	5.84	6.89	7.95	9.01	10.11	11.21	12.28		13.49	4 / 3			
	reaction time	0.230	interval	1.05	1.05	1.02	1.05	1.06	1.06	1.10	1.10	1.07	1.21		3.12	3.17	3.27
	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
<b>Lin Yuwei (CHN) (1999)</b>	time	2.68	3.77	4.84	5.92	6.97	8.04	9.10	10.16	11.27	12.37		13.55	9 / 4			
	reaction time	0.161	interval	1.09	1.07	1.08	1.05	1.07	1.06	1.06	1.11	1.10	1.18		3.24	3.18	3.27
	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
<b>You Na (CHN) (1993)</b>	time	2.70	3.77	4.81	5.83	6.87	7.93	9.11	10.21	11.30	12.43		13.64	6 / 5			
	reaction time	0.176	interval	1.07	1.04	1.02	1.04	1.06	1.18	1.10	1.09	1.13	1.21		3.13	3.28	3.32
	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
<b>Wu Yanni (CHN) (1997)</b>	time	2.79	3.87	4.94	5.99	7.06	8.13	9.21	10.29	11.40	12.53		13.75	7 / 6			
	reaction time	0.196	interval	1.08	1.07	1.05	1.07	1.07	1.08	1.11	1.13	1.22		3.20	3.22	3.32	
	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
<b>Yu Jiaru (CHN) (1999)</b>	time	2.77	3.87	4.99	6.06	7.12	8.19	9.24	10.36	11.46	12.58		13.80	2 / 7			
	reaction time	0.225	interval	1.10	1.12	1.07	1.06	1.07	1.05	1.12	1.10	1.12	1.22		3.29	3.18	3.34
	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
<b>Shi Jiali (CHN) (1997)</b>	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	interval	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
	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
<b>Wu Yanni (CHN) (1997)</b>	time	2.79	3.85	4.91	5.96	7.02	8.08	9.14	10.23	11.33	12.45		13.68	5 / 1			
	reaction time	0.193	interval	1.06	1.06	1.05	1.06	1.06	1.06	1.09	1.10	1.12	1.23		3.17	3.18	3.31
	velocity	4.66	8.02	8.02	8.10	8.02	8.02	8.02	7.80	7.73	7.59	8.54	7.31		8.04	8.02	7.70
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Deng Xuelin (CHN) (1998)</b>	time	2.75	3.85	4.94	5.97	7.04	8.09	9.14	10.19	11.31	12.50		13.73	7 / 3			
	reaction time	0.250	interval	1.10	1.09	1.03	1.07	1.05	1.05	1.05	1.12	1.19	1.23		3.22	3.17	3.36
	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
<b>Yu Jiaru (CHN) (1999)</b>	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
<b>Guo Jinglei (CHN) (2000)</b>	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	1.13	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
<b>Wang Li (CHN) (1999)</b>	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
<b>You Na (CHN) (1993)</b>	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
<b>Lin Yuwei (CHN) (1999)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Dai Yiru (CHN) (2001)</b>	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

<b>Wang Dou (CHN) (1993)</b>	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	1.10	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	7.73	7.59	7.39	7.46	7.66	8.27	7.08		7.68	7.68	7.50
<b>He Jiamin (CHN) (2001)</b>	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
<b>Yao Hui (CHN) (2000)</b>	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	
<b>Shen Muhan (CHN) (1997)</b>	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
<b>Pang Yuting (CHN) (1995)</b>	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
<b>Zhou Jingjing (CHN) (1998)</b>	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
<b>Sun Lan (CHN) (2002)</b>	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
<b>Li Jinghua (CHN) (1996)</b>	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	6.91	6.97	6.80	6.69	7.72	6.60		7.18	7.10	6.82	
<b>Jin Donghua (CHN) (1999)</b>	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
<b>Pu Jing (CHN) (1997)</b>	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	
<b>Wang Qingling (CHN) (1993)</b>	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	7.33	8.54	7.24		7.92	7.87	7.54
<b>Wu Zheng (CHN) (2001)</b>	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
<b>Wang Meiqing (CHN) (1996)</b>	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
<b>Gao Miao (CHN) (2001)</b>	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
<b>Wang Huiqiong (CHN) (1990)</b>	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
<b>Liu Jingyi (CHN) (2000)</b>	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
<b>Yin Xinyi (CHN) (2000)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	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	8.76	8.50	8.50	8.25	8.61	7.90	8.50	8.76	8.42
<b>Amusan, Tobi (NGR) (1997)</b>	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	8.76	8.42	8.50	8.33	8.47	7.87	8.47	8.79	8.42
<b>Ali, Nia (USA) (1988)</b>	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
<b>Brown, Janeek (JAM) (1998)</b>	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
<b>McNeal, Brianna (USA) (1991)</b>	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
<b>Chadwick, Payton (USA) (1999)</b>	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
<b>McReynolds, Tiffani (USA) (1989)</b>	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) - <a href="http://tfdata-store.com/2019/09/02/post-1606/">http://tfdata-store.com/2019/09/02/post-1606/</a>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Terada, Asuka (JPN) (1990)</b>	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
<b>Dai Yiru (CHN) (2001)</b>	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
<b>Guo Jinglei (CHN) (2000)</b>	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		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
<b>Zhang Jiayi (CHN) (2001)</b>	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
<b>Ge Ge (CHN) (2000)</b>	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		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
<b>Yao Hui (CHN) (2000)</b>	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		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
<b>He Jiamin (CHN) (2001)</b>	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
<b>Shing Cho Yan (HKG) (2001)</b>	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
<b>Zhang Yi (CHN) (2000)</b>	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
<b>Xia Sining (CHN) (2003)</b>	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	1.02	1.04	1.06	1.07	1.20	<b>NYR</b>	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
<b>Han Zhirou (CHN) (2002)</b>		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
<b>Li Yuansu (CHN) (2003)</b>		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
<b>Wei Huaning (CHN) (2002)</b>		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
<b>Lu Xinyue (CHN) (2002)</b>		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
<b>Mei Xiaoqian (CHN) (2002)</b>		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
<b>Wu Wenyu (CHN) (2003)</b>		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
<b>Sun Jingyuan (CHN) (2002)</b>		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
<b>Dai Yiru (CHN) (2001)</b>		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
<b>Yao Hui (CHN) (2000)</b>		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	<b>=PB</b>			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
<b>He Jiamin (CHN) (2001)</b>		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	<b>PB</b>			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
<b>Ma Shiqi (CHN) (2001)</b>		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	<b>PB</b>			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
<b>He Xinyi (CHN) (2000)</b>		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	<b>=PB</b>			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
<b>Zhang Jiayi (CHN) (2001)</b>		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	<b>PB</b>			3.24	3.31	3.34
		velocity	4.78	7.87	7.94	7.80	7.73	7.73	7.66	7.73	7.66	7.52	8.54	7.23		7.87	7.70	7.63
<b>Guo Jinglei (CHN) (2000)</b>		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	1.10	1.13	1.15	1.15	1.28	<b>PB</b>		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
<b>Ge Ge (CHN) (2000)</b>		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	<b>PB</b>			3.33	3.36	3.43
		velocity	4.71	7.46	7.59	7.94	7.73	7.59	7.46	7.52	7.52	7.26	8.33	7.07		7.66	7.59	7.43
<b>Yin Xiaoxia (CHN) (2000)</b>		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
<b>Wang Yan (CHN) (2000)</b>		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
<b>Jiang Minhong (CHN) (2000)</b>		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
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**U20 Heat 1**

date	14-Aug-19	wind	0.5 m/s	CAA Hurdle Development (2019)											
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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
<b>Zhang Yi (CHN) (2000)</b>	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
<b>Shing Cho Yan (HKG) (2001)</b>	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
<b>Chen Zhifei (CHN) (2001)</b>	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
<b>Qin Hongyan (CHN) (2001)</b>	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
<b>Tong Menghui (CHN) (2000)</b>	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	7.52	7.39	7.33	7.33	6.97	7.95	6.93		7.52	7.48	7.20
<b>Zhang Yan (CHN) (2001)</b>	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											
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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
<b>Vargas, Andrea Carolina (CRC)</b>	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
<b>Brissett, Chanel (USA) (1999)</b>	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
<b>Tapper, Megan (JAM) (1994)</b>	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
<b>Thompson, Yanique (JAM) (1994)</b>	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
<b>Seymour, Pedrya (BAH) (1995)</b>	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											
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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
<b>Shimano, Maki (JPN) (2001)</b>	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
<b>Nagamine, Sayuri (JPN) (2001)</b>	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
<b>Tezuka, Mai (JPN) (2001)</b>	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
<b>Masuda, Ayana (JPN) (2002)</b>	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
<b>Ando, Manami (JPN) (2001)</b>	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
<b>Saka, Nozomi (JPN) (2001)</b>	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
<b>Yamanishi, Momoko (JPN) (2012)</b>	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
<b>Yoshii, Ririko (JPN) (2001)</b>	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
<b>Dai Yiru (CHN) (2001)</b>	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 interval	0.178			1.03	1.07	1.00	1.02	1.03	1.04	1.07	1.06	1.12	1.18	<b>PB</b>		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
<b>Deng Xuelin (CHN) (1998)</b>	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 interval	0.219			1.05	1.05	1.01	1.04	1.03	1.02	1.04	1.04	1.06	1.21	<b>PB</b>		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
<b>Wu Yanni (CHN) (1997)</b>	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 interval	0.169			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
<b>Wang Dou (CHN) (1993)</b>	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 interval	0.170			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
<b>Yu Jiaru (CHN) (1999)</b>	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 interval	0.197			1.04	1.07	1.05	1.04	1.05	1.06	1.05	1.10	1.09	1.21			3.16	3.15	3.24
	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
<b>Lin Yuwei (CHN) (1999)</b>	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 interval	0.127			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
<b>Chen Jiamin (CHN) (1996)</b>	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 interval	0.185			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
<b>Deng Xuelin (CHN) (1998)</b>	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 interval	0.216			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
<b>Chen Jiamin (CHN) (1996)</b>	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 interval	0.146			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
<b>Wang Dou (CHN) (1993)</b>	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 interval	0.180			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
<b>Lin Yuwei (CHN) (1999)</b>	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 interval	0.152			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
<b>Luo Xianyan (CHN) (1997)</b>	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 interval	0.168			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
<b>Li Jinyu (CHN) (1999)</b>	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 interval	0.189			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
<b>Guo Jinglei (CHN) (2000)</b>	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 interval	0.172			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
<b>Dai Yiru (CHN) (2001)</b>	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 interval	0.183			1.06	1.07	1.06	1.04	1.05	1.05	1.07	1.09	1.12	1.21	<b>PB</b>		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



<b>Wu Yanni (CHN) (1997)</b>	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
<b>Yu Jiaru (CHN) (1999)</b>	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	8.10	8.02	7.73	7.87	7.20	9.05	7.33	7.85	8.07	7.59
<b>You Na (CHN) (1993)</b>	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
<b>Xiao Juxiu (CHN) (1998)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Yao Hui (CHN) (2000)</b>	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
<b>Ge Ge (CHN) (2000)</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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	8.50	8.50	8.42	8.75	7.97		8.59	8.79	8.47
<b>McNeal, Brianna (USA) (1991)</b>	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
<b>Nelvis, Sharika (USA) (1990)</b>	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
<b>Claye, Queen (USA) (1988)</b>	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
<b>Marshall, Tonea (USA) (1998)</b>	time		2.50	3.50	4.47	5.50	6.47	7.47	8.47	9.47	10.47	11.54		12.81	8 / 6			
reaction time		interval		1.00	0.97	1.03	0.97	1.00	1.00	1.00	1.00	1.07	1.27			3.00	2.97	3.07
		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
<b>Castlin, Kristi (USA) (1988)</b>	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
<b>Clemons, Christina (USA) (1991)</b>	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) - <a href="http://tfd-data-store.com/2019/09/02/post-1606/">http://tfd-data-store.com/2019/09/02/post-1606/</a>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Terada, Asuka (JPN) (1990)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	time		2.44	3.42	4.38	5.32	6.28	7.22	8.18	9.14	10.14	11.14		12.32	7 / 1			
reaction time	0.119	interval		0.98	0.96	0.94	0.96	0.94	0.96	0.96	1.00	1.00	1.18	AR PB		2.88	2.86	2.96

	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
<b>Ali, Nia (USA) (1988)</b>	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	0.98	0.96	0.98	0.96	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
<b>Claye, Queen (USA) (1988)</b>	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	0.98	1.00	1.02	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
<b>Tapper, Megan (JAM) (1994)</b>	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	1.00	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
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.48	3.52	4.52	5.52	6.48	7.44	8.44	9.44	10.48	11.52		12.73	9 / 5			
	reaction time	0.153	interval	1.04	1.00	1.00	0.96	0.96	1.00	1.00	1.04	1.04	1.21		3.04	2.92	3.08
	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
<b>Seymour, Pedrya (BAH) (1995)</b>	time	2.54	3.58	4.62	5.60	6.60	7.62	8.64	9.64	10.68	11.74		12.96	3 / 6			
	reaction time	0.172	interval	1.04	1.04	0.98	1.00	1.02	1.02	1.00	1.04	1.06	1.22		3.06	3.04	3.10
	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
<b>Herman, Elvira (BLR) (1997)</b>	time	2.60	3.66	4.68	5.68	6.66	7.66	8.68	9.72	10.76	11.80		13.02	1 / 7			
	reaction time	0.129	interval	1.06	1.02	1.00	0.98	1.00	1.02	1.04	1.04	1.04	1.22		3.08	3.00	3.12
	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
<b>Britton, Evonne (USA) (1991)</b>	time	2.48	3.52	4.56	5.58	6.56	7.56	8.58	9.62	10.72	11.82		13.15	8 / 8			
	reaction time	0.133	interval	1.04	1.04	1.02	0.98	1.00	1.02	1.04	1.10	1.10	1.33		3.10	3.00	3.24
	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
<b>McReynolds, Tiffani (USA) (1988)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	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	0.98	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
<b>Claye, Queen (USA) (1988)</b>	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	1.02	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
<b>Britton, Evonne (USA) (1991)</b>	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	1.06	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
<b>Harrison, Kendra (USA) (1992)</b>	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	0.94	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
<b>Williams, Danielle (JAM) (1992)</b>	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	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
<b>Clemons, Christina (USA) (1991)</b>	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	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
<b>Brown, Janeek (JAM) (1998)</b>	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	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
<b>Ali, Nia (USA) (1988)</b>	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	1.04	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
<b>Koteczek, Karolina (POL) (1999)</b>	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	1.15			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
<b>Nelvis, Sharika (USA) (1990)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Deng Xuelin (CHN) (1998)</b>	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	<b>PB</b>		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
<b>You Na (CHN) (1993)</b>	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	<b>PB</b>		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
<b>Wang Li (CHN) (1999)</b>	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	<b>PB</b>		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
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Yu Jiaru (CHN) (1999)</b>	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
<b>Dai Yiru (CHN) (2001)</b>	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	<b>PB</b>		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
<b>Lin Yuwei (CHN) (1999)</b>	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	7.59	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
<b>You Na (CHN) (1993)</b>	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	<b>PB</b>		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
<b>Deng Xuelin (CHN) (1998)</b>	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
<b>Dai Yiru (CHN) (2001)</b>	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	<b>PB</b>		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
<b>Wang Dou (CHN) (1993)</b>	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
<b>Jie Zhimao (CHN) (1998)</b>	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
<b>Yao Hui (CHN) (2000)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Lin Yuwei (CHN) (1999)</b>	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
<b>Luo Xianyan (CHN) (1997)</b>	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
<b>Guo Jinglei (CHN) (2000)</b>	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
<b>Ge Ge (CHN) (2000)</b>	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
<b>Wang Li (CHN) (1999)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Yu Jiaru (CHN) (1999)</b>	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
<b>Xiao Juxiu (CHN) (1998)</b>	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
<b>Huo Xuanyi (CHN) (1998)</b>	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
<b>Chen Zhifei (CHN) (2001)</b>	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
<b>Wang Qingling (CHN) (1993)</b>	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
<b>Gao Miao (CHN) (2001)</b>	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
<b>Pang Yuting (CHN) (1995)</b>	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
<b>Wang Huiqiong (CHN) (1990)</b>	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
<b>Sun Lan (CHN) (2002)</b>	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	<b>PB</b>		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
<b>Wen Xiaoyun (CHN) (1999)</b>	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
<b>Zhang Yali (CHN) (1996)</b>	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	<b>PB</b>		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
<b>Pu Jing (CHN) (1997)</b>	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
<b>Wang Meiqing (CHN) (1996)</b>	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	<b>PB</b>		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

<b>Shen Muhan (CHN) (1997)</b>	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	
<b>Jin Donghua (CHN) (1999)</b>	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	<b>PB</b>		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	
<b>Ren Shimei (CHN) (1996)</b>	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	<b>PB</b>		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	
<b>Li Jinghua (CHN) (1996)</b>	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	
<b>Zhou Jingjing (CHN) (1998)</b>	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	
<b>Liu Jingyi (CHN) (2000)</b>	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	
<b>Yin Xinyi (CHN) (2000)</b>	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	<b>PB</b>		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
<b>Kimura, Ayako (JPN) (1988)</b>	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	
<b>Aoki, Masumi (JPN) (1994)</b>	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	1.04	1.05	1.06	1.07	1.16	<b>PB</b>			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	
<b>Terada, Asuka (JPN) (1990)</b>	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	
<b>Shimura, Hitomi (JPN) (1990)</b>	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	
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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	<b>PB</b>			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	
<b>Fukube, Mako (JPN) (1995)</b>	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	
<b>Suzuki, Miho (JPN) (1996)</b>	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	<b>PB</b>			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	
<b>Fujimori, Nana (JPN) (1997)</b>	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
<b>Clemons, Christina (USA) (1999)</b>	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	
<b>Nelvis, Sharika (USA) (1990)</b>	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	
<b>Herman, Elvira (BLR) (1997)</b>	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																		

	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
<b>Roleder, Cindy (GER) (1989)</b>	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
<b>Visser, Nadine (NED) (1995)</b>	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
<b>Pedersen, Isabelle (NOR) (1992)</b>	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
<b>Neziri, Nooralotta (FIN) (1992)</b>	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	1.06	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
<b>Brown, Janeek (JAM) (1998)</b>	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
<b>Brissett, Chanel (USA) (1999)</b>	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
<b>Marshall, Tonea (USA) (1998)</b>	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
<b>Williams, Jeanie (JAM) (1997)</b>	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
<b>Cockrell, Anna (USA) (1997)</b>	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
<b>Jones, Cortney (USA) (1999)</b>	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
<b>McMinn, Tiara (USA) (1999)</b>	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
<b>Chadwick, Payton (USA) (1999)</b>	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
<b>Utsunomiya, Eri (JPN) (1993)</b>	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
<b>Yamasaki, Yuki (JPN) (1995)</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Lui Lai Yiu (HKG) (1994)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Shynyzbekova, Aygerim (KAZ)</b>	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
<b>Tran Thi Yen Hao (VIE) (1990)</b>	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
<b>Meesri, Suchada (THA) (1994)</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Lui Lai Yiu (HKG) (1994)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Tran Thi Yen Hao (VIE) (1990)</b>	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
<b>Shynyzbekova, Aygerim (KAZ)</b>	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
<b>Meesri, Suchada (THA) (1994)</b>	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				6.93	3.29	3.59		
		velocity	4.85	7.73	7.80	7.73	6.97	7.20	7.14	7.20				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
<b>Kimura, Ayako (JPN) (1988)</b>	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
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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
<b>Aoki, Masumi (JPN) (1994)</b>	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
<b>Fukube, Mako (JPN) (1995)</b>	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
<b>Kobayashi, Ayumi (JPN) (2001)</b>	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
<b>Suzuki, Miho (JPN) (1996)</b>	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

<b>Nakajima, Hitomi (JPN) (1995)</b>	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
<b>Nakamura, Yuki (JPN) (1995)</b>	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													<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	
<b>Harrison, Kendra (USA) (1992)</b>	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	
<b>Nelvis, Sharika (USA) (1990)</b>	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	
<b>Amusan, Tobi (NGR) (1997)</b>	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	
<b>Roleder, Cindy (GER) (1989)</b>	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	
<b>Herman, Elvira (BLR) (1997)</b>	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	
<b>Seymour, Pedrya (BAH) (1995)</b>	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	
<b>Boons, Eefje (NED) (1994)</b>	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	
<b>Visser, Nadine (NED) (1995)</b>	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													<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	
<b>Deng Xuelin (CHN) (1998)</b>	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	1.07	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	
<b>Wang Li (CHN) (1999)</b>	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	<b>PB</b>		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	
<b>Chen Jiamin (CHN) (1996)</b>	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	
<b>Xiao Juxiu (CHN) (1998)</b>	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	
<b>Dai Yiru (CHN) (2001)</b>	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	<b>=PB</b>		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	
<b>You Na (CHN) (1993)</b>	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	
<b>Jie Zhimao (CHN) (1998)</b>	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	
<b>Huo Xuanyi (CHN) (1998)</b>	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
<b>Nagamine, Sayuri (JPN) (2001)</b>	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
<b>村上 芽生</b>	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
<b>Takada, Natsuki (JPN)</b>	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
<b>Ito, Ayano (JPN)</b>	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
<b>Nakamura, Yoshika (JPN)</b>	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
<b>Maihara, Kaede (JPN)</b>	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
<b>Luo Xianyan (CHN) (1997)</b>	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
<b>Deng Xuelin (CHN) (1998)</b>	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	8.17	8.02	7.87	7.73	8.82	7.46		8.12	8.17	7.87
<b>Yu Jiaru (CHN) (1999)</b>	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
<b>Wang Dou (CHN) (1993)</b>	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	8.02	7.73	7.87	8.82	7.39		8.07	8.02	7.87
<b>Xiao Juxiu (CHN) (1998)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Wang Li (CHN) (1999)</b>	time	2.70	3.80	4.86	5.92	6.98	8.04	9.14	10.22	11.32	12.46		13.75	3 / 7			
reaction time	0.179 interval		1.10	1.06	1.06	1.06	1.06	1.10	1.08	1.10	1.14	1.29			3.22	3.22	3.32
	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
<b>Chen Yinfeng (CHN) (1998)</b>	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
<b>McNeal, Brianna (USA) (1991)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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



<b>Clemons, Christina (USA) (1995)</b>	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
<b>Harrison, Queen (USA) (1988)</b>	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
<b>Seymour, Pedrya (BAH) (1995)</b>	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
<b>Roleder, Cindy (GER) (1989)</b>	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
<b>Castlin, Kristi (USA) (1988)</b>	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
<b>Wu Yanni (CHN) (1997)</b>	time	2.73	3.78	4.83	5.88	6.93	7.97	9.02	10.07	11.12		13.44	10 / 8				
	reaction time	0.173	interval	1.05	1.05	1.05	1.05	1.04	1.05	1.05	1.05				3.15	3.14	
	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	
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Charlton, Devynne (BAH) (1995)</b>	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
<b>Nelvis, Sharika (USA) (1990)</b>	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	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
<b>Pearson, Sally (AUS) (1986)</b>	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	0.99	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
<b>Seymour, Pedrya (BAH) (1995)</b>	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
<b>Harrison, Queen (USA) (1988)</b>	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	1.01	1.00	1.01	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
<b>Castlin, Kristi (USA) (1988)</b>	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
<b>Kimura, Ayako (JPN) (1988)</b>	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
<b>Tanaka, Yumi (JPN) (1998)</b>	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		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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Aoki, Masumi (JPN) (1994)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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		3.19	3.22	3.37
													(14.93)				

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	<b>57.54</b>	7.99	7.92	7.57
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## 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
<b>Wu Yanni (CHN) (1997)</b>	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	<b>57.54</b>	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
<b>Britton, Evonne (USA) (1991)</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Aoki, Masumi (JPN) (1994)</b>	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
<b>Fukube, Mako (JPN) (1995)</b>	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	8.17	8.02	7.94	7.87	8.75	7.51		8.12	8.17	7.94
<b>Tanaka, Yumi (JPN) (1998)</b>	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
<b>Fujimori, Nana (JPN) (1997)</b>	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
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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
<b>Kanai, Marumi (JPN) (1997)</b>	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	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
<b>Williams, Danielle (JAM) (1992)</b>	time			2.46	3.50	4.50	5.48	6.44	7.44	8.40	9.40	10.42	11.46		12.66	4 / 1			
	reaction time	0.141 interval			1.04	1.00	0.98	0.96	1.00	0.96	1.00	1.02	1.04	1.20			3.02	2.92	3.06
	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
<b>Amusan, Tobi (NGR) (1997)</b>	time			2.48	3.50	4.50	5.48	6.46	7.44	8.42	9.42	10.46	11.50		12.73	2 / 2			
	reaction time	0.147 interval			1.02	1.00	0.98	0.98	0.98	0.98	1.00	1.04	1.04	1.23			3.00	2.94	3.08
	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
<b>Nelvis, Sharika (USA) (1990)</b>	time			2.48	3.48	4.48	5.46	6.46	7.46	8.44	9.46	10.48	11.54		12.78	6 / 3			
	reaction time	0.139 interval			1.00	1.00	0.98	1.00	1.00	0.98	1.02	1.02	1.06	1.24			2.98	2.98	3.10
	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
<b>Clemons, Christina (USA) (1994)</b>	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	0.142 interval			1.04	0.98	0.98	0.98	0.98	1.00	1.00	1.02	1.06	1.27			3.00	2.96	3.08
	velocity			5.16	8.17	8.67	8.67	8.67	8.67	8.50	8.50	8.33	8.02	8.27	7.79		8.50	8.61	8.28
<b>Camacho-Quinn, Jasmine (PUR) (1994)</b>	time			2.56	3.58	4.60	5.60	6.58	7.56	8.56	9.56	10.58	11.62		12.85	8 / 5			
	reaction time	0.182 interval			1.02	1.02	1.00	0.98	0.98	1.00	1.00	1.02	1.04	1.23			3.04	2.96	3.06
	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
<b>Herman, Elvira (BLR) (1997)</b>	time			2.58	3.62	4.64	5.64	6.58	7.58	8.58	9.60	10.62	11.66		12.88	3 / 6			
	reaction time	0.136 interval			1.04	1.02	1.00	0.94	1.00	1.00	1.02	1.02	1.04	1.22			3.06	2.94	3.08
	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
<b>McNeal, Brianna (USA) (1991)</b>	time			2.52	3.52	4.52	5.50	6.48	7.46	8.48	9.50	10.56	11.68		12.94	5 / 7			
	reaction time	0.163 interval			1.00	1.00	0.98	0.98	0.98	1.02	1.02	1.06	1.12	1.26			2.98	2.98	3.20
	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
<b>Hughes, Amber (USA) (1994)</b>	time			2.56	3.60	4.64	5.68	6.68	7.68	8.70	9.70	10.74	11.78		12.97	9 / 8			
	reaction time	0.141 interval			1.04	1.04	1.04	1.00	1.00	1.02	1.00	1.04	1.04	1.19			3.12	3.02	3.08

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	
<b>Pedersen, Isabelle (NOR) (1999)</b> time	2.60	3.64	4.64	5.64	6.64	7.66	8.70	9.76	10.86	11.96		13.26	1 / 9			
reaction time	0.187	interval	1.04	1.00	1.00	1.00	1.02	1.04	1.06	1.10	1.10	1.30		3.04	3.06	3.26
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

Kobayashi (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
<b>Pearson, Sally (AUS) (1986)</b> 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
<b>Tanaka, Yumi (JPN) (1998)</b> 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	<b>PB</b>		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
<b>Shimura, Hitomi (JPN) (1990)</b> 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
<b>Fukube, Mako (JPN) (1995)</b> 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
<b>Fujimori, Nana (JPN) (1997)</b> 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	<b>PB</b>		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
<b>Kiyoyama, Chisato (JPN) (1999)</b> 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
<b>Suzuki, Miho (JPN) (1996)</b> 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
<b>Tanaka, Hikari (JPN) (1998)</b> 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	1.12	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

Kobayashi (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
<b>Kobayashi, Ayumi (JPN) (2001)</b> 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
<b>Okubo, Yuri (JPN) (1997)</b> 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
<b>Nakamura, Yuki (JPN) (1995)</b> 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
<b>Fujiwara, Miku (JPN) (1992)</b> 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
<b>Kabayashi, Sayaka (JPN) (1996)</b> 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
<b>Sasaki, Aogi (JPN) (1997)</b> 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
<b>Shibata, Manaka (JPN) (2001)</b> 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

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
<b>Kimura, Ayako (JPN) (1988)</b> 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	
<b>Chen Jiamin (CHN) (1996)</b>	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	<b>PB</b>		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	
<b>Aoki, Masumi (JPN) (1994)</b>	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	
<b>Lui Lai Yiu (HKG) (1994)</b>	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	<b>PB</b>		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	
<b>Wu Yanni (CHN) (1997)</b>	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	
<b>Hsieh His-En (TPE) (1994)</b>	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	<b>PB</b>		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	
<b>Jung Hye-Lim (KOR) (1987)</b>	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	
<b>Shynyzbekova, Aygerim (KAZ)</b>	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												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
<b>Kimura, Ayako (JPN) (1988)</b>	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	
<b>Lui Lai Yiu (HKG) (1994)</b>	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	<b>PB</b>			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
<b>Wu Yanni (CHN) (1997)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Aoki, Masumi (JPN) (1994)</b>	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
<b>Hsieh His-En (TPE) (1994)</b>	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	<b>PB</b>					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
<b>Chen Jiamin (CHN) (1996)</b>	time		2.68	3.74	4.79	5.83	6.87	7.91	8.94	10.00	11.06	12.14			13.35	9 / 1			
	reaction time	0.181	interval	1.06	1.05	1.04	1.04	1.04	1.03	1.06	1.06	1.08	1.21				3.15	3.11	3.20
	velocity		4.85	8.02	8.10	8.17	8.17	8.17	8.25	8.02	8.02	7.87	8.68	7.49			8.10	8.20	7.97
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Yu Jiaru (CHN) (1999)</b>	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
<b>Wang Dou (CHN) (1993)</b>	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
<b>You Na (CHN) (1993)</b>	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	<b>PB</b>		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
<b>Luo Xianyan (CHN) (1997)</b>	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	<b>PB</b>		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
<b>Dai Yiru (CHN) (2001)</b>	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	<b>PB</b>		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
<b>Wang Li (CHN) (1999)</b>	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	
<b>Jiang Liyunzhe (CHN) (2002)</b>	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	<b>PB</b>		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	
<b>Guo Jinglei (CHN) (2000)</b>	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	
<b>Yao Hui (CHN) (2000)</b>	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	
<b>Luo Xianyan (CHN) (1997)</b>	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	<b>PB</b>		3.20	3.15	3.28	
	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	
<b>Wang Li (CHN) (1999)</b>	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	
<b>Lin Yuwei (CHN) (1999)</b>	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	
<b>Shi Jiali (CHN) (1997)</b>	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	
<b>Dai Yiru (CHN) (2001)</b>	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	<b>PB</b>		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	7.26	7.84	7.22		7.92	7.97	7.46	
<b>Wang Dou (CHN) (1993)</b>	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	
<b>Yu Jiaru (CHN) (1999)</b>	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	
<b>You Na (CHN) (1993)</b>	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	
<b>Chen Jiamin (CHN) (1996)</b>	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	
<b>Shi Jiali (CHN) (1997)</b>	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	<b>PB</b>		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	8.02	7.80	8.54	7.49		8.07	8.23	7.99
<b>Wang Dou (CHN) (1993)</b>	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
<b>Wu Yanni (CHN) (1997)</b>	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
<b>Yu Jiaru (CHN) (1999)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Luo Xianyan (CHN) (1997)</b>	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
<b>Wang Li (CHN) (1999)</b>	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
<b>Deng Xuelin (CHN) (1998)</b>	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				<b>DQ</b>		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	
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Luo Xianyan (CHN) (1997)</b>	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	1.10	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	
<b>Shi Jiali (CHN) (1997)</b>	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	<b>PB</b>		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
<b>Yu Jiaru (CHN) (1999)</b>	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	
<b>Deng Xuelin (CHN) (1998)</b>	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	1.13	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
<b>Wang Li (CHN) (1999)</b>	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	
<b>Wu Yanni (CHN) (1997)</b>	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	1.07	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
<b>Wang Dou (CHN) (1993)</b>	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
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<b>You Na (CHN) (1993)</b>	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	<b>PB</b>		3.20
	velocity	4.83	7.87	7.94	8.10	7.39	9.85	7.18		7.97
<b>Shi Jiali (CHN) (1997)</b>	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
<b>Dai Yiru (CHN) (2001)</b>	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	<b>PB</b>		3.19
	velocity	4.81	7.94	7.73	8.33	7.94	9.03	7.14		7.99
<b>Yu Jiaru (CHN) (1999)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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	<b>PB</b>			3.17	
	velocity	4.87	8.10	7.94	8.10	8.10	9.09	7.21			8.04	
<b>Wang Dou (CHN) (1993)</b>	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	
<b>Luo Xianyan (CHN) (1997)</b>	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	
<b>Wang Li (CHN) (1999)</b>	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
<b>Brissett, Chanel (USA) (1999)</b>	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	<b>=PB</b>			2.98	
	velocity	5.14	8.50	8.50	8.67	8.67	9.22	7.59			8.56	
<b>White, Kayla (USA) (1996)</b>	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	<b>PB</b>			3.02	
	velocity	5.20	8.33	8.67	8.33	8.42	9.35	7.58			8.44	
<b>Chadwick, Payton (USA) (1994)</b>	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	
<b>Taylor, Naomi (USA) (1998)</b>	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	
<b>Brown, Janeek (JAM) (1998)</b>	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	
<b>Hall, Dior (USA) (1996)</b>	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
<b>You Na (CHN) (1993)</b>	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	<b>PB</b>			3.18	
	velocity	4.78	7.87	7.94	8.25	8.02	8.97	7.13			8.02	
<b>Dai Yiru (CHN) (2001)</b>	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	<b>=PB</b>			3.17	
	velocity	4.87	7.87	7.94	8.33	8.25	8.44	7.13			8.04	
<b>Zhang Yi (CHN) (2000)</b>	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	

<b>Guo Jinglei (CHN) (2000)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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	<b>PB</b>		3.20		
	velocity	4.89	7.87	8.02	8.02	7.87	9.09	7.17		7.97		
<b>Li Danyang (CHN) (1997)</b>	time	2.78	3.90	5.02	6.14	7.31		8.83	2 / 2			
reaction time	interval		1.12	1.12	1.12	1.17	1.52			3.36		
	velocity	4.68	7.59	7.59	7.59	7.26	8.55	6.80		7.59		
<b>Li Mengyu (CHN) (2002)</b>	time	2.77	3.93	5.09	6.24	7.36		8.89	5 / 3			
reaction time	interval		1.16	1.16	1.15	1.12	1.53			3.47		
	velocity	4.69	7.33	7.33	7.39	7.59	8.50	6.75		7.35		
<b>Huo Xuanyi (CHN) (1998)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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		
<b>You Na (CHN) (1993)</b>	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	<b>PB</b>		3.24		
	velocity	4.83	7.73	7.87	8.02	7.80	9.03	7.09		7.87		
<b>Dai Yiru (CHN) (2001)</b>	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		
<b>Zhang Yi (CHN) (2000)</b>	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
<b>Jie Zhimao (CHN) (1998)</b>	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	<b>PB</b>		3.33		
	velocity	4.85	7.46	7.73	7.80	7.87	9.42	7.08		7.66		
<b>Li Danyang (CHN) (1997)</b>	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	<b>PB</b>		3.37		
	velocity	4.69	7.52	7.59	7.59	7.59	9.35	6.94		7.57		
<b>Li Mengyu (CHN) (2002)</b>	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		
<b>Guo Jinglei (CHN) (2000)</b>								<b>DQ</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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	<b>PB</b>		3.19		
	velocity	4.91	7.80	8.02	8.17	7.94	9.03	7.19		7.99		
<b>Yu Jiaru (CHN) (1999)</b>	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		
<b>Wang Li (CHN) (1999)</b>	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		
<b>Luo Xianyan (CHN) (1997)</b>	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
<b>Wang Dou (CHN) (1993)</b>	time	2.73	3.84	4.92	5.99	7.06		8.47	4 / 1			
	reaction time						1.41			3.26		
	interval		1.11	1.08	1.07	1.07					7.82	
	velocity	4.76	7.66	7.87	7.94	7.94	9.22	7.08				
<b>Ge Ge (CHN) (2000)</b>	time	2.72	3.83	4.94	6.04	7.16		8.65	2 / 2			
	reaction time						1.49	<b>PB</b>		3.32		
	interval		1.11	1.11	1.10	1.12					7.68	
	velocity	4.78	7.66	7.66	7.73	7.59	8.72	6.94				
<b>Li Jinyu (CHN) (1999)</b>	time	2.80	3.93	5.05	6.19	7.34		8.80	5 / 3			
	reaction time						1.46			3.39		
	interval		1.13	1.12	1.14	1.15					7.52	
	velocity	4.64	7.52	7.59	7.46	7.39	8.90	6.82				
<b>Yao Hui (CHN) (2000)</b>	time	2.77	3.93	5.07	6.19	7.32		8.82	3 / 4			
	reaction time						1.50			3.42		
	interval		1.16	1.14	1.12	1.13					7.46	
	velocity	4.69	7.33	7.46	7.59	7.52	8.67	6.80				

**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
<b>Shi Jiali (CHN) (1997)</b>	time	2.68	3.74	4.81	5.88	6.96		8.40	3 / 1			
	reaction time						1.44	<b>PB</b>		3.20		
	interval		1.06	1.07	1.07	1.08					7.97	
	velocity	4.85	8.02	7.94	7.94	7.87	9.03	7.14				
<b>Wang Dou (CHN) (1993)</b>	time	2.73	3.82	4.89	5.96	7.00		8.43	4 / 2			
	reaction time						1.43			3.23		
	interval		1.09	1.07	1.07	1.04					7.89	
	velocity	4.76	7.80	7.94	7.94	8.17	9.09	7.12				
<b>Deng Xuelin (CHN) (1998)</b>	time	2.73	3.82	4.89	5.96	7.00		8.46	2 / 3			
	reaction time						1.46			3.23		
	interval		1.09	1.07	1.07	1.04					7.89	
	velocity	4.76	7.80	7.94	7.94	8.17	8.90	7.09				
<b>Wang Li (CHN) (1999)</b>	time	2.73	3.85	4.94	6.00	7.07		8.50	5 / 4			
	reaction time						1.43	<b>PB</b>		3.27		
	interval		1.12	1.09	1.06	1.07					7.80	
	velocity	4.76	7.59	7.80	8.02	7.94	9.09	7.06				

**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
<b>Yu Jiaru (CHN) (1999)</b>	time	2.73	3.82	4.92	6.02	7.09		8.53	3 / 1			
	reaction time						1.44			3.29		
	interval		1.09	1.10	1.10	1.07					7.75	
	velocity	4.76	7.80	7.73	7.73	7.94	9.03	7.03				
<b>Xiao Juxiu (CHN) (1998)</b>	time	2.77	3.87	4.99	6.10	7.19		8.60	2 / 2			
	reaction time						1.41			3.33		
	interval		1.10	1.12	1.11	1.09					7.66	
	velocity	4.69	7.73	7.59	7.66	7.80	9.22	6.98				
<b>Luo Xianyan (CHN) (1997)</b>	time	2.70	3.82	4.92	6.02	7.11		8.62	4 / 3			
	reaction time						1.51			3.32		
	interval		1.12	1.10	1.10	1.09					7.68	
	velocity	4.81	7.59	7.73	7.73	7.80	8.61	6.96				
<b>Jiang Liyunzhe (CHN) (2002)</b>	time	2.77	3.90	5.04	6.17	7.30		8.77	5 / 4			
	reaction time						1.47	<b>PB</b>		3.40		
	interval		1.13	1.14	1.13	1.13					7.50	
	velocity	4.69	7.52	7.46	7.52	7.52	8.84	6.84				

**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
<b>Dutkiewicz, Pamela (GER) (1995)</b>	time	2.54	3.56	4.56	5.54	6.52		7.89	4 / 1			
	reaction time	0.121					1.37			3.00		
	interval		1.02	1.00	0.98	0.98					8.50	
	velocity	5.12	8.33	8.50	8.67	8.67	9.49	7.60				
<b>Roleder, Cindy (GER) (1989)</b>	time	2.58	3.58	4.58	5.56	6.54		7.91	3 / 2			
	reaction time	0.126					1.37			2.98		
	interval		1.00	1.00	0.98	0.98					8.56	
	velocity	5.04	8.50	8.50	8.67	8.67	9.49	7.59				
<b>Herman, Elvira (BLR) (1997)</b>	time	2.60	3.62	4.62	5.60	6.58		7.97	5 / 3			
	reaction time	0.142					1.39	<b>=PB</b>		3.00		
	interval		1.02	1.00	0.98	0.98					8.50	
	velocity	5.00	8.33	8.50	8.67	8.67	9.35	7.53				
<b>Kozák, Luca (HUN) (1996)</b>	time	2.60	3.62	4.66	5.68	6.68		8.07	2 / 4			
	reaction time	0.153					1.39	<b>=PB</b>		3.08		
	interval		1.02	1.04	1.02	1.00					8.28	
	velocity	5.00	8.33	8.17	8.33	8.50	9.35	7.43				
<b>Grauvogel, Louisa (GER) (1991)</b>	time	2.62	3.66	4.70	5.72	6.74		8.12	1 / 5			
	reaction time	0.138					1.38	<b>PB</b>		3.10		
	interval		1.04	1.04	1.02	1.02						



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	
<b>Kobayashi, Ayumi (JPN) (2001)</b>	time	2.70	3.75	4.80	5.83	6.83	7.86	8.88	9.89	10.93	11.96		13.13	5 / 1				
	reaction time	0.140	interval	1.05	1.05	1.03	1.00	1.03	1.02	1.01	1.04	1.03	1.17		3.13	3.05	3.08	
	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	
<b>Shibata, Aika (JPN) (2001)</b>	time	2.66	3.71	4.75	5.79	6.81	7.82	8.85	9.90	10.99	12.10		13.31	4 / 2				
	reaction time	0.149	interval	1.05	1.04	1.04	1.02	1.01	1.03	1.05	1.09	1.11	1.21		3.13	3.06	3.25	
	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	
<b>Nagasaki, Sayuri (JPN) (2001)</b>	time	2.68	3.77	4.83	5.89	6.94	8.00	9.05	10.12	11.23	12.34		13.56	3 / 3				
	reaction time	0.139	interval	1.09	1.06	1.06	1.05	1.06	1.05	1.07	1.11	1.11	1.22		3.21	3.16	3.29	
	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	
<b>Nakao, Ayumi (JPN) (2000)</b>	time	2.70	3.82	4.90	5.98	7.05	8.12	9.19	10.25	11.33	12.44		13.63	7 / 4				
	reaction time	0.134	interval	1.12	1.08	1.08	1.07	1.07	1.06	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	
<b>Adachi, Karen (JPN) (2001)</b>	time	2.75	3.82	4.89	5.96	7.02	8.07	9.14	10.24	11.33	12.45		13.64	6 / 5				
	reaction time	0.145	interval	1.07	1.07	1.07	1.06	1.05	1.07	1.10	1.09	1.12	1.19		=PB	3.21	3.18	3.31
	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	
<b>Shishido, Riko (JPN) (2000)</b>	time	2.66	3.74	4.83	5.92	6.97	8.02	9.10	10.19	11.26	12.38		13.65	8 / 6				
	reaction time	0.173	interval	1.08	1.09	1.09	1.05	1.05	1.08	1.09	1.07	1.12	1.27		3.26	3.18	3.28	
	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	
<b>Tamai, Nana (JPN) (2000)</b>	time	2.69	3.79	4.88	5.95	7.03	8.09	9.22	10.38	11.51	12.66		13.94	2 / 7				
	reaction time	0.132	interval	1.10	1.09	1.07	1.08	1.06	1.13	1.16	1.13	1.15	1.28		3.26	3.27	3.44	
	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	
<b>Uenosono, Yuiko (JPN) (2000)</b>	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	interval	1.09	1.09	1.07	1.07	1.14	1.13	1.14	1.15	1.14	1.25		3.25	3.34	3.43	
	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
<b>Iwasa, Mayuko (JPN) (2002)</b>	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	1.06	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
<b>Ayuhashi, Yumeka (JPN)</b>	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
<b>Toki, Asaki (JPN)</b>	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
<b>Matsumoto, Kaotaya (JPN)</b>	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	1.08	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
<b>Tsuchiya, Honoka (JPN) (2004)</b>	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
<b>Chiba, Momoko (JPN) (1999)</b>	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	1.11	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
<b>Ito, Ayaka (JPN)</b>	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
<b>Matata, Koki (JPN)</b>	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	1.12	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
<b>Wu Yanni (CHN) (1997)</b>	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
<b>Deng Xuelin (CHN) (1998)</b>	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	<b>PB</b>		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
<b>Wang Dou (CHN) (1993)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Lin Yuwei (CHN) (1999)</b>	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
<b>Shi Jiali (CHN) (1997)</b>	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	<b>PB</b>		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
<b>Wang Li (CHN) (1999)</b>	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	<b>PB</b>		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
<b>Chen Yinfeng (CHN) (1998)</b>	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
<b>Wu Yanni (CHN) (1997)</b>	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	<b>PB</b>		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	
<b>Deng Xuelin (CHN) (1998)</b>	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	<b>PB</b>		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	
<b>Wang Dou (CHN) (1993)</b>	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	
<b>Shi Jiali (CHN) (1997)</b>	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	<b>PB</b>		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	
<b>Chen Yinfeng (CHN) (1998)</b>	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	
<b>Dai Yiru (CHN) (2001)</b>	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	
<b>Jie Zhimao (CHN) (1998)</b>	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	
<b>Zhuang Dongmei (CHN) (2000)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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	
<b>Lin Yuwei (CHN) (1999)</b>	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	
<b>Wang Li (CHN) (1999)</b>	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	<b>PB</b>		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	

<b>Lou Xianyan (CHN) (1997)</b>	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
<b>Yu Jiaru (CHN) (1999)</b>	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
	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																	
<b>Xiao Juxiu (CHN) (1998)</b>	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
	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				
<b>Hao Ling (CHN) (1996)</b>	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
<b>Zhang Xueqing (CHN) (1997)</b>	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
<b>Zhang Xueqing (CHN) (1997)</b>	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
	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																	
<b>Zhang Xueqing (CHN) (1997)</b>	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												<i>Henson (2021) - Athlete First: 2018 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			
<b>Williams, Danielle (JAM) (1992)</b>	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		
<b>Harrison, Kendra (USA) (1992)</b>	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		
	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																		
<b>Dutkiewicz, Pamela (GER) (1992)</b>	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		
	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						
<b>Herman, Elvira (BLR) (1997)</b>	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	8.67	8.33	8.02	8.33	7.80			8.50	8.56	8.33		
<b>Herman, Elvira (BLR) (1997)</b>	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		
<b>Amusan, Tobi (NGR) (1997)</b>	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		
	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																		
<b>Kimura, Ayako (JPN) (1988)</b>	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		
	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						
<b>Koala, Martha Yasmine (BUR)</b>	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		
<b>Jenneke, Michelle (AUS) (1993)</b>	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		
<b>Jenneke, Michelle (AUS) (1993)</b>	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												<i>Henson (2020) - Athlete First: 2018 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			
<b>McNeal, Brianna (USA) (1991)</b>	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		
<b>Harrison, Kendra (USA) (1992)</b>	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		
	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																		
<b>Williams, Danielle (JAM) (1992)</b>	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		
	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						
<b>Amusan, Tobi (NGR) (1997)</b>	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		
<b>Amusan, Tobi (NGR) (1997)</b>	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		
<b>Nelvis, Sharika (USA) (1990)</b>	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		
	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
<b>Visser, Nadine (NED) (1995)</b>	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
<b>Berings, Eline (BEL) (1986)</b>	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
<b>Harper-Nelson, Dawn (USA) (1991)</b>	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
<b>Manning, Christina (USA) (1991)</b>	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
<b>Kobayashi, Ayumi (JPN) (2001)</b>	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
<b>Adachi, Karen (JPN) (2001)</b>	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
<b>Shibata, Aika (JPN) (2001)</b>	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
<b>Ibaraki, Rin (JPN) (2001)</b>	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
<b>Nagaskai, Sayuri (JPN) (2001)</b>	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
<b>Nakao, Ayumi (JPN) (2000)</b>	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
<b>Ban, Nozumi (JPN) (2001)</b>	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
<b>Uenosono, Yuiko (JPN) (2000)</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>McNeal, Brianna (USA) (1991)</b>	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
<b>Nelvis, Sharika (USA) (1990)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	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
<b>Manning, Christina (USA) (1991)</b>	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

<b>Harrison, Queen (USA) (1988)</b>	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
<b>Amusan, Tobi (NGR) (1997)</b>	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
<b>Pedersen, Isabelle (NOR) (1999)</b>	time	2.52	3.52	4.50	5.48	6.46	7.44	8.44	9.44	10.46	11.52		12.73	2 / 8			
	reaction time	0.172	interval	1.00	0.98	0.98	0.98	0.98	1.00	1.00	1.02	1.06	1.21		2.96	2.96	3.08
	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
<b>Herman, Elvira (BLR) (1997)</b>	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	1.18			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
<b>Jones, Tia (USA) (2000)</b>	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
<b>Anderson, Britany (JAM) (200)</b>	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		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
<b>Jones, Cortney (USA) (1999)</b>	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
<b>Yoshita, Airi (JPN) (1999)</b>	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
<b>McNeal, Brianna (USA) (1991)</b>	time	2.44	3.46	4.44	5.42	6.38	7.34	8.32	9.32	10.30	11.30		12.51	5 / 1			
	reaction time	0.131	interval	1.02	0.98	0.98	0.96	0.96	0.98	1.00	0.98	1.00	1.21		2.98	2.90	2.98
	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
<b>Nelvis, Sharika (USA) (1990)</b>	time	2.44	3.44	4.42	5.40	6.38	7.34	8.32	9.32	10.32	11.32		12.58	6 / 2			
	reaction time	0.139	interval	1.00	0.98	0.98	0.96	0.98	1.00	1.00	1.00	1.26			2.96	2.92	3.00
	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
<b>Manning, Christina (USA) (19)</b>	time	2.44	3.46	4.46	5.44	6.40	7.38	8.36	9.38	10.40	11.44		12.72	3 / 3			
	reaction time	0.151	interval	1.02	1.00	0.98	0.96	0.98	1.02	1.02	1.04	1.28			3.00	2.92	3.08
	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
<b>Harper-Nelson, Dawn (USA) (1)</b>	time	2.52	3.52	4.52	5.52	6.52	7.52	8.52	9.54	10.56	11.60		12.86	2 / 4			
	reaction time	0.170	interval	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.26			3.00	3.00	3.08
	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
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.52	3.54	4.56	5.56	6.56	7.56	8.56	9.56	10.58	11.62		12.87	8 / 5			
	reaction time	0.190	interval	1.02	1.02	1.00	1.00	1.00	1.00	1.02	1.04	1.25			3.04	3.00	3.06
	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
<b>Roleder, Cindy (GER) (1989)</b>	time	2.56	3.60	4.58	5.58	6.58	7.58	8.58	9.60	10.60	11.66		12.87	7 / 6			
	reaction time	0.128	interval	1.04	0.98	1.00	1.00	1.00	1.02	1.00	1.06	1.21			3.02	3.00	3.08
	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
<b>Dutkiewicz, Pamela (GER) (19)</b>	time	2.56	3.56	4.58	5.58	6.58	7.56	8.54	9.54	10.56	11.60		12.89	4 / 6			
	reaction time	0.168	interval	1.00	1.02	1.00	1.00	0.98	0.98	1.00	1.02	1.04	1.29		3.02	2.96	3.06
	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
<b>Thompson, Yanique (JAM) (1)</b>	time	2.56	3.58	4.62	5.62	6.62	7.62	8.60	9.62	10.62	11.64		12.93	1 / 8			
	reaction time	0.155	interval	1.02	1.04	1.00	1.00	0.98	1.02	1.00	1.02	1.29			3.06	2.98	3.04
	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
<b>Boons, Eefje (NED) (1994)</b>	time	2.60	3.68	4.72	5.74	6.76	7.78	8.80	9.86	10.92	12.00		13.32	9 / 9			
	reaction time	0.150	interval	1.08	1.04	1.02	1.02	1.02	1.06	1.06	1.08	1.32			3.14	3.06	3.20
	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														1.16			2.94	2.90	2.96
	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) (1995)	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														1.17			2.96	2.94	3.04
	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														1.21			3.00	2.96	3.06
	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														1.17			3.04	2.92	3.06
	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														1.20			3.00	2.96	3.08
	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														1.17			3.00	2.98	3.06
	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) (1988)	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														1.26			3.00	3.00	3.16
	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																			
	velocity				4.85															

## 2018 Japanese National Championships (Yamaguchi, JPN)

## FINAL

		date	24-Jun-18	wind	1.1 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
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													1.21	<b>PB</b>		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													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													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													1.18	<b>PB</b>		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													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													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													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													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	-1.4 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				2.40	3.40	4.38	5.37	6.34	7.31	8.24	9.21	10.16	11.16		12.46	5 / 1			
	reaction time														1.30			2.97	2.87	2.92
	velocity																			



	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	
<b>Manning, Christina (USA) (1991)</b>	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		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	
<b>Nelvis, Sharika (USA) (1990)</b>	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		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	
<b>Harrison, Queen (USA) (1988)</b>	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		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	
<b>Harper-Nelson, Dawn (USA) (1991)</b>	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		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	
<b>Carter, Kori (USA) (1992)</b>	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		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	
<b>Johnson, Alaysha (USA) (1991)</b>	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		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 1.6 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	
<b>Hemphill, Megu (JPN) (1996)</b>	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		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	
<b>Kiryama, Chie (JPN) (1991)</b>	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		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	
<b>Utsunomiya, Eri (JPN) (1993)</b>	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		1.09	1.11	1.08	1.07	1.10	1.12	1.08	1.10	1.13	1.18	<b>PB</b>		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	
<b>Yamasaki, Yuki (JPN) (1995)</b>	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		1.10	1.10	1.07	1.08	1.09	1.10	1.12	1.13	1.14	1.23	<b>PB</b>		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	
<b>McNeal, Brianna (USA) (1991)</b>	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	1.00	0.96	0.96	0.96	0.96	0.96	0.96	1.00	1.00	1.14			2.92	2.88	2.96	
	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	
<b>Williams, Danielle (JAM) (1992)</b>	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	1.00	0.98	0.98	0.96	0.96	0.96	0.96	0.98	1.02	1.16	<b>PB</b>		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	
<b>Talay, Alina (BLR) (1989)</b>	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	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	
<b>Visser, Nadine (NED) (1995)</b>	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	1.02	0.98	0.98	0.96	0.98	1.00	0.96	1.04	1.04	1.21	<b>NR PB</b>		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	
<b>Manning, Christina (USA) (1991)</b>	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	1.00	1.00	0.98	0.98	1.00	0.98	1.00	1.00	1.06	1.27			2.98	2.96	3.06	
	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	
<b>Harper-Nelson, Dawn (USA) (1991)</b>	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	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	
<b>Pedersen, Isabelle (NOR) (1991)</b>	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	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	

<b>Westerlund, Elin (SWE) (1990)</b>	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	1.02	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
<b>Camacho-Quinn, Jasmine (PU)</b>	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
<b>Charlton, Devynne (BAH) (1995)</b>	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
<b>Jones, Cortney (USA) (1999)</b>	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
<b>Seymour, Pedrya (BAH) (1995)</b>	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
<b>Brown, Janeek (JAM) (1998)</b>	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
<b>Marshall, Tonea (USA) (1998)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	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
<b>Talay, Alina (BLR) (1989)</b>	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
<b>Harrison, Queen (USA) (1988)</b>	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
<b>Pedersen, Isabelle (NOR) (1992)</b>	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
<b>Roleder, Cindy (GER) (1989)</b>	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
<b>Berings, Eline (BEL) (1986)</b>	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	8.50	8.33	8.17	8.33	8.33	8.54	7.76		8.39	8.44	8.28
<b>Owens, Bridgette (USA) (1992)</b>	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
<b>Stowers, Jasmin (USA) (1991)</b>	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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Jung Hye-Lim (KOR) (1987)</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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	<b>PB</b>		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				
		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	2.48	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	1.02	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	1.25		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) (1991)	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	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	1.00	1.15	<b>NR PB</b>		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	<b>NR PB</b>		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			



<b>Nagamine, Sayuri (JPN) (2001)</b>	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
<b>Takada, Momoka (JPN)</b>	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
<b>Oshita, Airi (JPN)</b>	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
<b>村上 芽生</b>	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
<b>Obayashi, Risako (JPN)</b>	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
<b>Takada, Natsuki (JPN)</b>	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
<b>Harrison, Queen (USA) (1988)</b>	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
<b>Jung Hye-Lim (KOR) (1987)</b>	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
<b>Morgan, Monique (JAM) (1988)</b>	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
<b>Kimura, Ayako (JPN) (1988)</b>	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	8.25	8.10	8.10	7.94	7.87	8.68	7.53			8.17	8.20	7.97
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Aoki, Masumi (JPN) (1994)</b>	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
<b>Wallace, Sasha (USA) (1995)</b>	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
<b>Soma, Eriko (JPN) (1991)</b>	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
<b>Camacho-Quinn, Jasmine (PU)</b>	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	8.76	8.67	8.61	8.06			8.64	8.89	8.76
<b>Duncan, Alexis (USA) (1998)</b>	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
<b>Brown, Janeek (JAM) (1998)</b>	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
<b>Brooks, Taliyah (USA) (1995)</b>	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	
<b>Humphrey, Brittley (USA) (1991)</b> 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	<b>PB</b>		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
<b>McNeal, Brianna (USA) (1991)</b> 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		
<b>Nelvis, Sharika (USA) (1990)</b> 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		
<b>Harrison, Kendra (USA) (1992)</b> 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	0.98	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		
<b>Stowers, Jasmin (USA) (1991)</b> 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		
<b>Pedersen, Isabelle (NOR) (1997)</b> 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	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	8.67	8.50	8.50	8.33	8.02	8.33	7.84	8.56	8.61	8.28		
<b>Visser, Nadine (NED) (1995)</b> 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	1.02	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	8.50	8.33	8.02	8.54	7.81	8.56	8.50	8.28		
<b>Roleder, Cindy (GER) (1989)</b> 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		
<b>Harper-Nelson, Dawn (USA) (1991)</b> time	2.52	3.56	4.60	5.60	6.60	7.60	8.62	9.62	10.66	11.70		12.94	8 / 8				
reaction time	0.140	interval	1.04	1.04	1.00	1.00	1.02	1.00	1.04	1.04	1.24				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		
<b>Wu Shujiao (CHN) (1991)</b> time	2.54	3.60	4.66	5.68	6.70	7.72	8.74	9.76	10.78	11.82		13.08	9 / 9				
reaction time	0.156	interval	1.06	1.06	1.02	1.02	1.02	1.02	1.02	1.04	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	8.33	8.17	8.33	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
<b>Jung Hye-Lim (KOR) (1987)</b> time	2.67	3.71	4.75	5.77	6.81	7.84	8.88	9.93	11.00	12.09		13.23	4 / 1				
reaction time	interval	1.04	1.04	1.02	1.04	1.03	1.04	1.05	1.07	1.09	1.14				3.10	3.11	3.21
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		
<b>Shimura, Hitomi (JPN) (1990)</b> time	2.72	3.80	4.85	5.88	6.93	7.96	9.01	10.08	11.16	12.25		13.34	7 / 2				
reaction time	interval	1.08	1.05	1.03	1.05	1.03	1.05	1.07	1.08	1.09	1.09				3.16	3.13	3.24
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		
<b>Kiyoyama, Chisato (JPN) (1997)</b> time	2.74	3.81	4.86	5.88	6.92	7.96	9.00	10.06	11.12	12.22		13.35	6 / 3				
reaction time	interval	1.07	1.05	1.02	1.04	1.04	1.04	1.06	1.06	1.10	1.13	<b>=PB</b>			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		
<b>Tanaka, Yumi (JPN) (1998)</b> time	2.70	3.77	4.82	5.87	6.93	7.98	9.03	10.11	11.18	12.28		13.47	5 / 4				
reaction time	interval	1.07	1.05	1.05	1.06	1.05	1.05	1.08	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		
<b>Nakamura, Yuki (JPN) (1995)</b> time	2.75	3.83	4.91	5.98	7.05	8.12	9.21	10.30	11.41	12.53		13.66	2 / 5				
reaction time	interval	1.08	1.08	1.07	1.07	1.07	1.09	1.09	1.11	1.12	1.13				3.23	3.23	3.32
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		
<b>Sasaki, Takashi (JPN)</b> time	2.74	3.82	4.91	5.97	7.05	8.13	9.21	10.31	11.42	12.54		13.75	3 / 6				
reaction time	interval	1.08	1.09	1.06	1.08	1.08	1.08	1.10	1.11	1.12	1.21				3.23	3.24	3.33
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		
<b>Aoki, Masumi (JPN) (1994)</b> time	2.73	3.82	4.90	5.95	7.01	8.07	9.16	10.26	11.37	12.51		13.76	9 / 7				
reaction time	interval	1.09	1.08	1.05	1.06	1.06	1.09	1.10	1.11	1.14	1.25				3.22	3.21	3.35
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		

<b>Kataoka, Saki (JPN) (1996)</b>	time	2.79	3.94	5.06	6.14	7.22	8.30	9.41	10.54	11.68	12.83		14.05	8 / 8			
reaction time	interval		1.15	1.12	1.08	1.08	1.08	1.11	1.13	1.14	1.15	1.22			3.35	3.27	3.42
	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
<b>Harrison, Kendra (USA) (1992)</b>	time	2.48	3.50	4.50	5.48	6.44	7.40	8.36	9.34	10.32	11.32		12.53	5 / 1			
reaction time	0.154 interval		1.02	1.00	0.98	0.96	0.96	0.96	0.98	0.98	1.00	1.21			3.00	2.88	2.96
	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
<b>McNeal, Brianna (USA) (1991)</b>	time	2.44	3.44	4.42	5.40	6.36	7.32	8.30	9.28	10.32	11.36		12.58	4 / 2			
reaction time	0.155 interval		1.00	0.98	0.98	0.96	0.96	0.98	0.98	1.04	1.04	1.22			2.96	2.90	3.06
	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
<b>Nelvis, Sharika (USA) (1990)</b>	time	2.44	3.44	4.44	5.40	6.38	7.42	8.44	9.44	10.48	11.50		12.75	3 / 3			
reaction time	0.153 interval		1.00	1.00	0.96	0.98	1.04	1.02	1.00	1.04	1.02	1.25			2.96	3.04	3.06
	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
<b>Stowers, Jasmin (USA) (1991)</b>	time	2.52	3.54	4.54	5.52	6.50	7.50	8.50	9.50	10.52	11.54		12.77	2 / 4			
reaction time	0.137 interval		1.02	1.00	0.98	0.98	1.00	1.00	1.00	1.02	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
<b>Williams, Danielle (JAM) (1992)</b>	time	2.48	3.50	4.54	5.50	6.50	7.50	8.50	9.48	10.48	11.54		12.82	7 / 5			
reaction time	0.124 interval		1.02	1.04	0.96	1.00	1.00	1.00	0.98	1.00	1.06	1.28			3.02	3.00	3.04
	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
<b>Pedersen, Isabelle (NOR) (1992)</b>	time	2.48	3.48	4.48	5.46	6.44	7.42	8.44	9.46	10.50	11.56		12.82	1 / 6			
reaction time	0.181 interval		1.00	1.00	0.98	0.98	1.02	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
<b>Visser, Nadine (NED) (1995)</b>	time	2.56	3.60	4.60	5.60	6.60	7.58	8.60	9.60	10.64	11.68		12.94	8 / 7			
reaction time	0.160 interval		1.04	1.00	1.00	1.00	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
<b>Harper-Nelson, Dawn (USA) (1992)</b>	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
<b>Barber, Jade (USA) (1993)</b>	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
<b>Kiyoyama, Chisato (JPN) (1992)</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Fukube, Mako (JPN) (1995)</b>	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
<b>Barber, Kaila (USA) (1993)</b>	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
<b>Jung Hye-Lim (KOR) (1987)</b>	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
<b>Aoki, Masumi (JPN) (1994)</b>	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
<b>Kiryama, Chie (JPN) (1991)</b>	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



<b>Yamasaki, Yuki (JPN) (1995)</b>	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
<b>Hemphill, Megu (JPN) (1996)</b>	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	
<b>Utsunomiya, Eri (JPN) (1993)</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	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	
<b>Manning, Christina (USA) (1991)</b>	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	
<b>Visser, Nadine (NED) (1995)</b>	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	
<b>Nelvis, Sharika (USA) (1990)</b>	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	
<b>Roleder, Cindy (GER) (1989)</b>	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	
<b>Pedersen, Isabelle (NOR) (1992)</b>	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	
<b>Amusan, Tobi (NGR) (1997)</b>	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	
<b>Charlton, Devynne (BAH) (1996)</b>	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](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	
<b>Aoki, Masumi (JPN) (1994)</b>	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	1.07	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	
<b>Wu Shuijiao (CHN) (1991)</b>	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
<b>Wang Dou (CHN) (1993)</b>	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
<b>Wu Yanni (CHN) (1997)</b>	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
<b>Kang Ya (CHN) (1990)</b>	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

<b>Deng Ru (CHN) (1989)</b>	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
<b>Chen Jiamin (CHN) (1996)</b>	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
<b>Lui Lai Yiu (HKG) (1994)</b>	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
<b>Sun Minjing (CHN) (1988)</b>	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
<b>Wu Shuijiao (CHN) (1991)</b>	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
<b>Pearson, Sally (AUS) (1986)</b>	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
<b>Nelvis, Sharika (USA) (1990)</b>	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
<b>Manning, Christina (USA) (1991)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	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
<b>Talay, Alina (BLR) (1989)</b>	time	2.56	3.58	4.56	5.54	6.52	7.50	8.50	9.54	10.54	11.58		12.80	2 / 5			
reaction time 0.134	interval		1.02	0.98	0.98	0.98	0.98	1.00	1.04	1.00	1.04	1.22			2.98	2.96	3.08
	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
<b>Harper Nelson, Dawn (USA) (1988)</b>	time	2.52	3.54	4.56	5.56	6.56	7.56	8.56	9.56	10.60	11.66		12.93	4 / 6			
reaction time 0.135	interval		1.02	1.02	1.00	1.00	1.00	1.00	1.00	1.04	1.06	1.27			3.04	3.00	3.10
	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
<b>Stowers, Jasmin (USA) (1991)</b>	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
<b>Castlin, Kristi (USA) (1988)</b>	time	2.58	3.64	4.68	5.68	6.68	7.68	8.68	9.70	10.74	11.78		13.03	9 / 8			
reaction time 0.138	interval		1.06	1.04	1.00	1.00	1.00	1.00	1.02	1.04	1.04	1.25			3.10	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
<b>Pearson, Sally (AUS) (1986)</b>	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
<b>Harper Nelson, Dawn (USA) (1988)</b>	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
<b>Dutkiewicz, Pamela (GER) (1991)</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	time	2.40	3.44	4.46	5.48	6.49	7.50	8.48	9.47	10.46	11.49		12.74	3 / 4			
reaction time 0.146	interval		1.04	1.02	1.02	1.01	1.01	0.98	0.99	0.99	1.03	1.25			3.08	3.00	3.01
	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

<b>Manning, Christina (USA) (19)</b>	time	2.40	3.46	4.47	5.46	6.44	7.40	8.40	9.40	10.43	11.49		12.74	7 / 5			
	reaction time	0.183	interval	1.06	1.01	0.99	0.98	0.96	1.00	1.00	1.03	1.06	1.25		3.06	2.94	3.09
	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
<b>Talay, Alina (BLR) (1989)</b>	time	2.46	3.49	4.49	5.47	6.46	7.47	8.48	9.49	10.50	11.54		12.81	8 / 6			
	reaction time	0.139	interval	1.03	1.00	0.98	0.99	1.01	1.01	1.01	1.01	1.04	1.27		3.01	3.01	3.06
	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
<b>Visser, Nadine (NED) (1995)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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
<b>Harper Nelson, Dawn (USA) (1)</b>	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	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
<b>Dutkiewicz, Pamela (GER) (19)</b>	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	0.98	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
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Pedersen, Isabelle (NOR) (199)</b>	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
<b>Burton, Rushelle (JAM) (1997)</b>	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
<b>Charlton, Devynne (BAH) (19)</b>	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
<b>Plotitsyna, Hanna (UKR) (198)</b>	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
<b>Bakker, Sharona (NED) (1990)</b>	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
<b>Manning, Christina (USA) (19)</b>	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
<b>Talay, Alina (BLR) (1989)</b>	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
<b>Thompson, Yanique (JAM) (1)</b>	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
<b>Amusan, Tobi (NGR) (1997)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	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
<b>Herman, Eivira (BLR) (1997)</b>	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
<b>Jenneke, Michelle (AUS) (1993)</b>	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
<b>Kimura, Ayako (JPN) (1988)</b>	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
<b>Pearson, Sally (AUS) (1986)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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
<b>Visser, Nadine (NED) (1995)</b>	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
<b>Simmonds, Megan (JAM) (1999)</b>	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
<b>George, Phylcia (CAN) (1987)</b>	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
<b>Lobe, Ricarda (GER) (1994)</b>	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
<b>Lindley, Lindsay (NGR) (1989)</b>	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
<b>Zagré, Anne (BEL) (1990)</b>	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
<b>Yoshida, Yuri (JPN) (1999)</b>	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
<b>Sato, Nodoka (JPN) (1999)</b>	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	7.66	7.59	7.46	7.52	7.39	8.33	7.14	7.14	7.75	7.66	7.46
<b>Ibaraki, Rin (JPN) (2001)</b>	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
<b>Oikawa, Yuka (JPN) (2000)</b>	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
<b>Nishimura, Kaho (JPN) (1999)</b>	time	2.73	3.89	5.03	6.15	7.28	8.42	9.55	10.68	11.80	12.91		14.18	4 / 5			
reaction time	0.146	interval	1.16	1.09	1.05	1.03	0.98	1.15	1.14	1.14	1.17	1.21			4.17	2.62	3.45
		velocity	4.76	7.33	7.52	8.10	8.25	7.39	7.46	7.46	7.26	8.68	7.05	7.05	6.12	9.73	7.39
<b>Kobayashi, Ayumi (JPN) (2001)</b>	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
<b>Ban, Nozumi (JPN) (2001)</b>	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
<b>Kuroiwa, Kyoka (JPN) (1999)</b>	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
<b>Mossberg, Sofia (SWE) (1995)</b>	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	7.39	7.29	7.05		7.73	7.75	7.48
<b>Fleischer, Caroline (NOR) (199)</b>	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

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
<b>Mossberg, Sofia (SWE) (1995)</b>	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
<b>Fleischer, Caroline (NOR) (199)</b>	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

## 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
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Nelvis, Sharika (USA) (1990)</b>	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
<b>Williams, Danielle (JAM) (1992)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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
<b>Pearson, Sally (AUS) (1986)</b>	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
<b>Stowers, Jasmin (USA) (1991)</b>	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
<b>Dutkiewicz, Pamela (GER) (199)</b>	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
<b>Pedersen, Isabelle (NOR) (199)</b>	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

## 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
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Pearson, Sally (USA) (1986)</b>	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	8.85	8.50	8.17	8.90	8.01		8.67	8.85
<b>Nelvis, Sharika (USA) (1990)</b>	time			2.50	3.52	4.50	5.48	6.44	7.42	8.38	9.40	10.40	11.42		12.62	8 / 3			
	reaction time	0.144 interval			7 steps	1.02	0.98	0.98	0.96	0.98	0.96	1.02	1.00	1.02	1.20		2.98	2.90	3.04
		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
<b>Manning, Christina (USA) (19)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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
<b>Visser, Nadine (NED) (1995)</b>	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	8.67	8.33	8.50	8.17	8.17	8.47	7.78	8.44	8.56	8.28
<b>Pedersen, Isabelle (NOR) (1992)</b>	time	2.54	3.54	4.54	5.54	6.54	7.56	8.58	9.62	10.66	11.74			13.01	1 / 7		
reaction time	0.157	interval	7 steps	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.04	1.08	1.27	3.00	3.04	3.16	
		velocity	5.12	8.50	8.50	8.50	8.50	8.33	8.33	8.17	8.17	7.87	8.27	7.69	8.50	8.39	8.07
<b>Stowers, Jasmin (USA) (1991)</b>	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		
<b>Castlin, Kristi (USA) (1988)</b>	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
<b>Nelvis, Sharika (USA) (1990)</b>	time	2.46	3.46	4.44	5.41	6.37	7.33	8.30	9.30	10.30	11.30			12.53	6 / 1			
reaction time	0.129	interval	7 Steps	1.00	0.98	0.97	0.96	0.96	0.97	1.00	1.00	1.00	1.23	2.95	2.89	3.00		
		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	
<b>Stowers, Jasmin (USA) (1991)</b>	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	
<b>Manning, Christina (USA) (1991)</b>	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	
<b>Ali, Nia (USA) (1988)</b>	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	8.67	8.76	8.50	8.50	8.50	8.90	7.93	8.44	8.70	8.50	
<b>Castlin, Kristi (USA) (1988)</b>	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	
<b>Harper Nelson, Dawn (USA) (1991)</b>	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	8.50	8.67	8.50	8.33	8.50	8.40	7.84	8.39	8.56	8.44	
<b>Boons Eefje (NED) (1994)</b>	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	8.50	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
<b>Harrison, Kendra (USA) (1992)</b>	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	
<b>Stowers, Jasmin (USA) (1991)</b>	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	
<b>Nelvis, Sharika (USA) (1990)</b>	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	
<b>Castlin, Kristi (USA) (1988)</b>	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	
<b>Harper Nelson, Dawn (USA) (1991)</b>	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	
<b>Pearson, Sally (AUS) (1986)</b>	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	



<b>Ali, Nia (USA) (1988)</b>	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/](https://www.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	
<b>Kimura, Ayako (JPN) (1988)</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Soma, Eriko (JPN) (1991)</b>	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
<b>Fukube, Mako (JPN) (1995)</b>	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
<b>Nomura, Yuka (JPN) (1987)</b>	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
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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
<b>Tanaka, Yumi (JPN) (1998)</b>	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
<b>Kobayashi, Sayaka (JPN) (1996)</b>	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](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	
<b>Shimura, Hitomi (JPN) (1990)</b>	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](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	
<b>Kimura, Ayako (JPN) (1988)</b>	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	1.05	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	
<b>Dutkiewicz, Pamela (GER) (1996)</b>	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
<b>Castlin, Kristi (USA) (1988)</b>	time	2.56	3.62	4.62	5.60	6.58	7.56	8.54	9.52	10.54	11.58		12.75	6 / 2				
reaction time	0.140	interval	1.06	1.00	0.98	0.98	0.98	0.98	0.98	1.02	1.04	1.17			3.04	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
<b>Pedersen, Isabelle (NOR) (1999)</b>	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	<b>PB</b>		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
<b>Talay, Alina (BLR) (1989)</b>	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
<b>Porter, Tiffany (GBR) (1987)</b>	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
<b>Zagré, Anne (BEL) (1990)</b>	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
<b>Hildebrand, Nadine (GER) (1991)</b>	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
<b>Clay, Raven (USA) (1990)</b>	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) - <a href="http://tfdata-store.com/2017/06/04/post-848/">tfdata-store.com/2017/06/04/post-848/</a>		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Kimura, Ayako (JPN) (1988)</b>	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	1.02	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	8.33	8.02	8.17	8.75	7.70		8.36	8.42	8.17
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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
<b>Soma, Eriko (JPN) (1991)</b>	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
<b>Fujimori, Nana (JPN) (1997)</b>	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
<b>Fujiwara, Miku (JPN) (1992)</b>	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
<b>Nomura, Yuka (JPN) (1987)</b>	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
<b>Okazaki, Nagisa (JPN) (2001)</b>	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) - <a href="http://tfdata-store.com/2017/06/04/post-848/">tfdata-store.com/2017/06/04/post-848/</a>		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Kimura, Ayako (JPN) (1988)</b>	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
<b>Soma, Eriko (JPN) (1991)</b>	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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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
<b>Fujimori, Nana (JPN) (1997)</b>	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
<b>Nomura, Yuka (JPN) (1987)</b>	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) - <a href="http://shimane-high-school-championships-2018-biomechanics-data-analysis">shimane high school championships 2018 - biomechanics data analysis</a>		
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Oga, Yuri (JPN) (1999)</b>	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
<b>Takada, Momoka (JPN)</b>	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
<b>Oshita, Airi (JPN)</b>	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
<b>Obayashi, Risako (JPN)</b>	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/](http://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
<b>Fukube, Mako (JPN) (1995)</b>	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	<b>PB</b>		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
<b>Hemphill, Megu (JPN) (1996)</b>	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
<b>Horiike, Kaho (JPN) (1996)</b>	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
<b>Sasaki, Aogi (JPN) (1997)</b>	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	<b>=PB</b>		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](http://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
<b>Stowers, Jasmin (USA) (1991)</b>	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	8.82	7.94		8.61	8.67	8.50
<b>Harrison, Queen (USA) (1988)</b>	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
<b>Harper Nelson, Dawn (USA) (*time)</b>	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	8.50	8.50	8.61	7.90		8.44	8.67	8.56
<b>Manning, Christina (USA) (1991)</b>	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
<b>Nelvis, Sharika (USA) (1990)</b>	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	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
<b>Castlin, Kristi (USA) (1988)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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
<b>Talay, Alina (BLR) (1989)</b>	time	2.54	3.58	4.58	5.58	6.58	7.56	8.56	9.58	10.64	11.68		12.97	1 / 8			
reaction time	0.159 interval		1.04	1.00	1.00	1.00	0.98	1.00	1.02	1.06	1.04	1.29			3.04	2.98	3.12
	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) - [tfd-data-store.com/2017/05/22/post-599/](http://tfd-data-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
<b>Harrison, Queen (USA) (1988)</b>	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	9.29	7.91		8.53	8.76	8.53



<b>Kimura, Ayako (JPN) (1988)</b>	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	interval	0.167	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) - [tfddata-store.com/2017/05/13/post-441/](http://tfddata-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
<b>Tanaka, Yumi (JPN) (1998)</b>	time	2.66	3.76	4.84	5.92	6.98	8.04	9.12	10.20	11.31	12.43		13.70	6 / 1			
reaction time	interval		1.10	1.08	1.08	1.06	1.06	1.08	1.08	1.11	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
<b>Nakamura, Yuki (JPN) (1995)</b>	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
<b>Nakajima, Hitomi (JPN) (1995)</b>	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
<b>Yasui, Ayana (JPN) (1997)</b>	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	
<b>Kataoka, Saki (JPN) (1996)</b>	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
<b>Mouri, Hikari (JPN)</b>	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
<b>Sakaguchi, Risako (JPN) (1996)</b>	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
<b>Matsuo, Mika (JPN) (1995)</b>	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/](http://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
<b>Kimura, Ayako (JPN) (1988)</b>	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
<b>Aoki, Masumi (JPN) (1994)</b>	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
<b>Jung Hye-Lim (KOR) (1988)</b>	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
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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
<b>Fujimori, Nana (JPN) (1997)</b>	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
<b>Fujiwara, Miku (JPN) (1992)</b>	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
<b>Tanaka, Hikari (JPN) (1998)</b>	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/](http://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
<b>Jung Hye-Lim (KOR) (1988)</b>	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

<b>Kimura, Ayako (JPN) (1988)</b>	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
<b>Kiyoyama, Chisato (JPN) (199)</b>	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	<b>PB</b>			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
<b>Aoki, Masumi (JPN) (1994)</b>	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
<b>Nakamura, Yuki (JPN) (1995)</b>	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
<b>Fujimori, Nana (JPN) (1997)</b>	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
<b>Kobayashi, Sayaka (JPN) (199)</b>	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
<b>Tanaka, Hikari (JPN) (1998)</b>	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
<b>Fujiwara, Miku (JPN) (1992)</b>	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	
<b>Harrison, Kendra (USA) (1992)</b>	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	8.67	8.50	8.50	8.82	7.94		8.50	8.73	8.56	
<b>Roleder, Cindy (GER) (1989)</b>	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	8.33	8.17	9.05	7.75		8.33	8.44	8.28	
<b>Nelvis, Sharika (USA) (1990)</b>	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	<b>7 steps</b>	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	8.50	8.33	8.17	8.68	7.75		8.23	8.44	8.33	
<b>Manning, Christina (USA) (19)</b>	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	8.17	7.87	7.73	8.54	7.66		8.33	8.39	7.92	
<b>Simmonds, Megan (JAM) (199)</b>	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	
<b>George, Phylcia (CAN) (1987)</b>	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	7.87	8.47	7.61		8.23	8.39	8.07	
<b>Ofili, Cindy (GBR) (1994)</b>	time	2.64	3.70	4.78	5.84	6.88	7.92	8.96	10.00	11.04	12.14		13.42	7 / 7					
	reaction time	0.158	interval	1.06	1.08	1.06	1.04	1.04	1.04	1.04	1.04	1.10	1.28			3.20	3.12	3.18	
	velocity	4.92	8.02	7.87	8.02	8.17	8.17	8.17	8.17	8.17	8.17	7.73	8.20	7.45		7.97	8.17	8.02	
<b>Ali, Nia (USA) (1988)</b>	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) - tldata-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
<b>Soma, Eriko (JPN) (1991)</b>	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
<b>Sasaki, Ten (JPN) (1997)</b>	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																	

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
<b>Nakatuka, Natsuki (JPN) (1998)</b> 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) - [tfddata-store.com/2017/05/06/post-423/](http://tfddata-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
<b>Soma, Eriko (JPN) (1991)</b> 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
<b>Sasaki, Ten (JPN) (1997)</b> 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
<b>Nakatuka, Natsuki (JPN) (1998)</b> 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*

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Harrison, Kendra (USA) (1992)</b> 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
<b>Stowers, Jasmin (USA) (1991)</b> 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
<b>Harper Nelson, Dawn (USA) (1991)</b> 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
<b>Harrison, Queen (USA) (1988)</b> 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
<b>Ofili, Cindy (GBR) (1994)</b> 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
<b>Castlin, Kristi (USA) (1988)</b> 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
<b>Porter, Tiffany (GBR) (1987)</b> 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) - [tfddata-store.com/2017/05/01/458/](http://tfddata-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
<b>Barber, Jade (USA) (1993)</b> 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
<b>Kimura, Ayako (JPN) (1988)</b> 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
<b>Jung Hye-Lim (KOR) (1988)</b> 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
<b>Hemphill, Megumi (JPN) (1996)</b> 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
<b>Soma, Eriko (JPN) (1991)</b> 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
<b>Horiike, Kaho (JPN) (1996)</b> 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
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**B FINAL**

date	29-Apr-17	wind	4.1 m/s	(2017) - tfdata-store.com/2017/05/01/458/											
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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
<b>Kiyoyama, Chisato (JPN) (199)</b>	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
<b>Sasaki, Aogi (JPN) (1997)</b>	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
<b>Fukube, Mako (JPN) (1995)</b>	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
<b>Okubo, Yuri (JPN) (1997)</b>	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
<b>Kobayashi, Sayaka (JPN) (199)</b>	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
<b>Takebe, Mao (JPN) (1995)</b>	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
<b>Kiriya, Chie (JPN) (1991)</b>	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
<b>Tanaka, Hikari (JPN) (1998)</b>	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/											
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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
<b>Matsuo, Mika (JPN) (1995)</b>	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
<b>Kataoka, Saki (JPN) (1996)</b>	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
<b>Yasui, Ayana (JPN) (1997)</b>	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
<b>Nakamura, Reina (JPN) (1998)</b>	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
<b>Yamanaka, Aya (JPN) (1995)</b>	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
<b>Asba, Haruka (JPN)</b>	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											
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		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Roleder, Cindy (GER) (1989)</b>	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											
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		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Harrison, Kendra (USA) (1992)</b>	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](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
<b>Tanaka, Hikari (JPN) (1998)</b> time	2.70	3.82	4.93	6.02	7.09		8.55	3 / 1			
reaction time		1.12	1.10	1.10	1.08	1.45	<b>PB</b>		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](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
<b>Harrison, Kendra (USA) (1992)</b> time	2.58	3.57	4.52	5.48	6.42		7.75	5 / 1			
reaction time		0.99	0.95	0.96	0.94	1.33	<b>PB</b>		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](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
<b>Nakayama, Riko (JPN) (2002)</b> 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		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](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
<b>Nakayama, Riko (JPN) (2002)</b> 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		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](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
<b>Nagasaki, Sayuri (JPN) (2001)</b> 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		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](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
<b>Nagasaki, Sayuri (JPN) (2001)</b> 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](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
<b>Tanaka, Yumi (JPN) (1998)</b> 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
<b>Tanaka, Yuzo (JPN)</b> 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](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
<b>Fujimori, Nana (JPN) (1997)</b> 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
<b>Furuhashi, Kana (JPN) (1999)</b> 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](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
<b>Ono, Yui (JPN) (1999)</b> 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
<b>Sasaki, Ten (JPN) (1997)</b> 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](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
<b>Yasui, Ayana (JPN) (1997)</b> 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	interval	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		
<b>Kamada, Saki (JPN) (1997)</b>	time	2.73	3.86	4.98	6.07	7.17	8.25	9.36	10.48	11.61	12.76		14.04	3 / 4				
reaction time	interval		1.13	1.12	1.09	1.10	1.08	1.11	1.12	1.13	1.15	1.28		3.34	3.29	3.40		
	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		
<b>Oshiro, Yurika (JPN) (1998)</b>	time	2.75	3.87	4.99	6.09	7.21	8.33	9.44	10.57	11.72	12.86		14.09	4 / 3				
reaction time	interval		1.12	1.12	1.10	1.12	1.12	1.11	1.13	1.15	1.14	1.23		3.34	3.35	3.42		
	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		
<b>Heat 5</b>	date	21-Oct-16	wind	0.9 m/s	(2016.11.02) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Shunji, Natsuki (JPN)</b>	time	2.79	3.90	5.01	6.12	7.22	8.36	9.48	10.64	11.80	12.96		14.24	3 / 1				
reaction time	interval		1.11	1.11	1.11	1.10	1.14	1.12	1.16	1.16	1.16	1.28		3.33	3.36	3.48		
	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		
<b>Fujiwara, Rui (JPN)</b>	time	2.78	3.89	4.99	6.10	7.21	8.33	9.46	10.62	11.78	12.97		14.28	2 / 2				
reaction time	interval		1.11	1.10	1.11	1.11	1.12	1.13	1.16	1.16	1.19	1.31		3.32	3.36	3.51		
	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		
<b>Yasuda, Shiori (JPN) (1998)</b>	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	interval		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		
<b>Heat 4</b>	date	21-Oct-16	wind	1.5 m/s	(2016.11.02) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Tanaka, Yumi (JPN) (1998)</b>	time	2.66	3.75	4.82	5.89	6.95	8.03	9.12	10.21	11.31	12.44		13.73	8 / 1				
reaction time	interval		1.09	1.07	1.07	1.06	1.08	1.09	1.09	1.10	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		
<b>Sasaki, Aogi (JPN) (1997)</b>	time	2.68	3.78	4.86	5.94	7.03	8.11	9.21	10.32	11.50	12.67		13.97	3 / 2				
reaction time	interval		1.10	1.08	1.08	1.09	1.08	1.10	1.11	1.18	1.17	1.30		3.26	3.27	3.46		
	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		
<b>Higa, Kazuki (JPN) (1998)</b>	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		
<b>Heat 3</b>	date	21-Oct-16	wind	1.5 m/s	(2016.11.01) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Ono, Yui (JPN) (1999)</b>	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		
<b>Tanaka, Yoko (JPN)</b>	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		
<b>Ozaki, Saki (JPN) (1999)</b>	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		
<b>Heat 2</b>	date	21-Oct-16	wind	1.3 m/s	(2016.11.01) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Furuhashi, Kana (JPN)</b>	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		
<b>Takahashi, Makato (JPN)</b>	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		
<b>Chiba, Momoka (JPN) (1999)</b>	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		
<b>Heat 1</b>	date	21-Oct-16	wind	1.7 m/s	(2016.11.01) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Fujimori, Nana (JPN) (1997)</b>	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		
<b>Okamoto, Rika (JPN) (1997)</b>	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		



<b>Fujimori, Shiori (JPN)</b>	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](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
<b>Yuidori, Yuida (JPN)</b>	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	<b>NYR</b>		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](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
<b>Yuidori, Yuida (JPN)</b>	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			(2016.10.22)
reaction time	interval		1.11	1.06	1.04	1.05	1.04	1.05	1.04	1.09	1.10	1.21	<b>NYR</b>		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

<b>Oikawa, Yuka (JPN) (2000)</b>	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			(2016.11.06)
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

<b>Nihonmatsu, Yui (JPN) (1999)</b>	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			(2016.11.06)
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](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
<b>Shichibu, Miki (JPN)</b>	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

<b>Egashira, Ami (JPN) (1999)</b>	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](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
<b>Oikawa, Yuka (JPN) (2000)</b>	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

<b>Saito, Ukiyoshi (JPN)</b>	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

<b>Muraoka, Kakehiro (JPN)</b>	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](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
<b>Miyoshi, Minami (JPN)</b>	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

<b>Kasahara, Riko (JPN) (1999)</b>	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

<b>Oyamada, Tamaki (JPN)</b>	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](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
<b>Yoshida, Yui (JPN) (1999)</b>	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

<b>Nihonmatsu, Yui (JPN) (1999)</b>	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

<b>Kita, Ayane (JPN) (2000)</b>	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
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**2016 Kansai Student Athletics Championships (Osaka, JPN)****FINAL**

date		19-Oct-16		wind		0.5 m/s		(2016.10.20) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>									
		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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>									
		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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>									
		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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>									
		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	0.141	interval	1.04	1.03	1.02	1.02	1.03	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	0.141	interval	1.07	1.05	1.03	1.03	1.04	1.05	1.04	1.07	1.10	1.17		3.15	3.12	3.21
	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	0.118	interval	1.08	1.06	1.05	1.04	1.05	1.06	1.08	1.09	1.10	1.20		3.19	3.15	3.27
	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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>									
		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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>									
		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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>									
		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

<b>Yuri, Ohiko (JPN)</b>	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
<b>Sasaki, Ten (JPN) (1997)</b>	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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en</a>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Koto, Koenoson (JPN)</b>	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
<b>Stowers, Jasmin (USA) (1991)</b>	time		2.56	3.58	4.56	5.56	6.54	7.52	8.50	9.50	10.52	11.54		12.78	6 / 1			
reaction time	0.186 interval			1.02	0.98	1.00	0.98	0.98	0.98	1.00	1.02	1.02	1.24			3.00	2.94	3.04
	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
<b>Zagré, Anne (BEL) (1990)</b>	time		2.56	3.60	4.58	5.56	6.56	7.54	8.54	9.54	10.54	11.58		12.82	5 / 2			
reaction time	0.152 interval			1.04	0.98	0.98	1.00	0.98	1.00	1.00	1.00	1.04	1.24			3.00	2.98	3.04
	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
<b>Hildebrand, Nadine (GER) (1991)</b>	time		2.52	3.56	4.56	5.56	6.56	7.54	8.54	9.56	10.58	11.62		12.83	7 / 3			
reaction time	0.141 interval			1.04	1.00	1.00	1.00	0.98	1.00	1.02	1.02	1.04	1.21			3.04	2.98	3.08
	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
<b>Roleder, Cindy (GER) (1989)</b>	time		2.60	3.64	4.64	5.62	6.62	7.62	8.64	9.66	10.66	11.72		12.91	4 / 4			
reaction time	0.125 interval			1.04	1.00	0.98	1.00	1.00	1.02	1.02	1.00	1.06	1.19			3.02	3.02	3.08
	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
<b>Neziri, Nooralotta (FIN) (1992)</b>	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
<b>George, Phylcia (CAN) (1987)</b>	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
<b>Kallur, Susanna (SWE) (1981)</b>	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
<b>Ivančević, Andrea (CRO) (1984)</b>	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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en</a>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Kobayashi, Sayaka (JPN) (1994)</b>	time		2.68	3.75	4.82	5.88	6.92	7.98	9.06	10.13	11.21	12.31		13.50	6 / 1			
reaction time	0.185 interval			1.07	1.07	1.06	1.04	1.06	1.08	1.07	1.08	1.10	1.19			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
<b>Nakamura, Yuki (JPN) (1995)</b>	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	1.06	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
<b>Fukube, Mako (JPN) (1995)</b>	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
<b>Umahara, Satsuki (JPN) (1994)</b>	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	1.07	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
<b>Horiike, Kaho (JPN) (1996)</b>	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												
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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
<b>Harrison, Kendra (USA) (1992)</b> 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	1.00	1.00	1.00	0.98	0.98	0.98	0.98	0.98	1.00	1.25			3.00	2.94	2.96
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
<b>Ofili, Cindy (GBR) (1994)</b> 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	1.02	1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.00	1.26			3.02	2.96	3.00
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
<b>Harper-Nelson, Dawn (USA) (1991)</b> 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	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
<b>Stowers, Jasmin (USA) (1991)</b> 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	1.04	0.98	1.00	1.00	1.00	0.98	1.02	1.02	1.04	1.22			3.02	2.98	3.08
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
<b>Roleder, Cindy (GER) (1989)</b> 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	1.02	0.98	1.00	1.00	0.98	1.00	1.00	1.02	1.02	1.20			3.00	2.98	3.04
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
<b>Simmonds, Megan (JAM) (1991)</b> 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	1.00	1.02	1.00	0.98	1.00	1.00	1.02	1.04	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
<b>George, Phylcia (CAN) (1987)</b> 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	1.02	1.00	1.00	1.00	1.00	1.00	1.04	1.04	1.06	1.21			3.02	3.00	3.14
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
<b>Zagré, Anne (BEL) (1990)</b> 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	1.04	1.00	1.00	1.00	1.00	1.02	1.04	1.02	1.02	1.24			3.04	3.02	3.08
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
<b>Hildebrand, Nadine (GER) (1991)</b> 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	1.06	1.00	1.02	1.02	1.00	1.00	1.02	1.06	1.04	1.21			3.08	3.02	3.12
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

**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
<b>Harrison, Kendra (USA) (1992)</b> 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	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
<b>Harper-Nelson, Dawn (USA) (1991)</b> 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	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
<b>Ofili, Cindy (GBR) (1994)</b> 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	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
<b>Stowers, Jasmin (USA) (1991)</b> 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	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
<b>Roleder, Cindy (GER) (1989)</b> 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	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
<b>Billaud, Cindy (FRA) (1986)</b> 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	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
<b>Hildebrand, Nadine (GER) (1991)</b> 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	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
<b>Gomis, Sandra (FRA) (1983)</b> 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	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
<b>Harrison, Kendra (USA) (1992)</b> 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	0.96	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
<b>Harper-Nelson, Dawn (USA) (</b>	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
<b>Stowers, Jasmin (USA) (1991)</b>	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
<b>Ofili, Cindy (GBR) (1994)</b>	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
<b>Nelvis, Sharika (USA) (1990)</b>	time	2.48	3.50	4.52	5.52	6.52	7.54	8.56	9.56	10.62	11.66			12.88	4 / 5		
reaction time	0.137	interval	7 steps	1.02	1.02	1.00	1.00	1.02	1.02	1.00	1.06	1.04	1.22	3.04	3.04	3.10	
		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
<b>Rard-Reuse, Clélia (SUI) (1988)</b>	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
<b>Simmonds, Megan (JAM) (199</b>	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
<b>Tanaka, Yumi (JPN) (1998)</b>	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
<b>Tanaka, Hikari (JPN) (1998)</b>	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
<b>Fujiwara, Rui (JPN) (1998)</b>	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
<b>Yoshita, Airi (JPN) (1999)</b>	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
<b>Furuhashi, Kana (JPN) (1999)</b>	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
<b>Nakatuka, Natsuki (JPN) (1998)</b>	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
<b>Takahashi, Natsuki (JPN) (199</b>	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	7.66	7.66	8.82	7.17	7.61	7.73	7.68	
<b>Fujimori, Kanna (JPN) (1999)</b>	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
<b>Rollins, Brianna (USA) (1991)</b>	time	2.30	3.32	4.30	5.27	6.24	7.20	8.17	9.15	10.14	11.14		12.48	6 / 1			
reaction time	0.158	interval	1.02	0.98	0.97	0.97	0.96	0.97	0.98	0.99	1.00	1.34		2.97	2.90	2.97	
		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
<b>Ali, Nia (USA) (1988)</b>	time	2.37	3.37	4.36	5.36	6.33	7.30	8.27	9.24	10.24	11.27		12.59	4 / 2			
reaction time	0.154	interval	1.00	0.99	1.00	0.97	0.97	0.97	0.97	1.00	1.03	1.32		2.99	2.91	3.00	
		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
<b>Castlin, Kristi (USA) (1988)</b>	time	2.37	3.40	4.43	5.40	6.37	7.37	8.34	9.31	10.31	11.31		12.61	7 / 3			
reaction time	0.152	interval	1.03	1.03	0.97	0.97	1.00	0.97	0.97	1.00	1.00	1.30		3.03	2.94	2.97	
		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

<b>Ofili, Cindy (GBR) (1994)</b>	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											1.29		3.00	2.94	3.03
	interval		1.03	1.00	0.97	0.97	0.97	1.00	1.00	1.00	1.03						
	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
<b>Roleder, Cindy (GER) (1989)</b>	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											1.30		2.97	3.00	3.04
	interval		1.01	1.00	0.96	1.02	1.00	0.98	1.00	1.01	1.03						
	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
<b>Seymour, Pedrya (BAH) (1995)</b>	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											1.42		3.05	2.94	2.97
	interval		1.05	1.02	0.98	0.98	0.99	0.97	1.00	0.97	1.00						
	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
<b>Porter, Tiffany (GBR) (1987)</b>	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											1.35		2.97	2.97	3.07
	interval		1.00	1.00	0.97	0.97	1.00	1.00	1.00	1.03	1.04						
	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
<b>George, Phylicia (CAN) (1987)</b>	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											1.38		3.00	3.01	3.10
	interval		1.03	1.00	0.97	1.00	1.00	1.01	1.02	1.03	1.05						
	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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Herman, Elvira (BLR) (1997)</b>	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											1.17	AJR		3.01	2.97	3.04
	interval		1.03	1.00	0.98	0.98	0.98	1.01	0.99	1.03	1.02							
	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	
<b>Burton, Rushelle (JAM) (1997)</b>	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											1.13	NJR		3.10	3.02	3.04
	interval		1.06	1.02	1.02	1.00	1.02	1.00	1.01	1.02	1.01							
	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	
<b>Jones, Tia (USA) (2000)</b>	0.180	no information available											12.89	7 / 3				
<b>Duncan, Alexis (USA) (1998)</b>	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											1.15	PB		3.04	3.04	3.13
	interval		1.03	1.02	0.99	1.00	1.01	1.03	1.05	1.02	1.06							
	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	
<b>Amusan, Oluwatobiloba (NGR)</b>	0.197	no information available											12.95	5 / 5				
<b>Barrett, Alicia (GBR) (1998)</b>	0.175	no information available											PB	13.15	2 / 6			
<b>Bieldt, Taylon (RSA) (1998)</b>	0.150	no information available											13.37	3 / 7				
<b>Valette, Laura (FRA) (1997)</b>	0.183	no information available											13.42	9 / 8				

## Semi-Final 1

	date	23-Jul-16	wind	0.6 m/s	(2016.07.23) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Tanaka, Yumi (JPN) (1998)</b>	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											1.21	PB		3.17	3.15	3.30
	interval		1.06	1.06	1.05	1.02	1.08	1.05	1.08	1.11	1.11							
	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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Hemphill, Megu (JPN) (1996)</b>	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											1.21	PB		3.17	3.10	3.21
	interval		1.08	1.04	1.05	1.02	1.03	1.05	1.05	1.07	1.09							
	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	
<b>Shimura, Hitomi (JPN) (1990)</b>	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											1.16			3.20	3.12	3.24
	interval		1.07	1.08	1.05	1.03	1.04	1.05	1.06	1.09	1.09							
	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
<b>Harrison, Kendra (Keni) (USA)</b>	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				
	reaction time	0.149											1.10	WR		2.91	2.81	2.89
	interval		1.00	0.96	0.95	0.93	0.94	0.94	0.94	0.96	0.99							
	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	
<b>Rollins, Brianna (USA) (1991)</b>	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											1.17			2.96	2.92	3.06
	interval		1.00	0.98	0.98	0.96	0.98	0.98	1.00	1.04	1.02							
	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	
<b>Castlin, Kristi (USA) (1988)</b>	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											1.13			3.04	2.92	2.96
	interval		1.04	1.02	0.98	0.98	0.98	0.96	0.96	1.00	1.00							
	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	
<b>Ali, Nia (USA) (1988)</b>	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
<b>Talay, Alina (BLR) (1989)</b>	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
<b>Porter, Tiffany (GBR) (1987)</b>	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
<b>Zagré, Anne (BEL) (1990)</b>	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
<b>Ennis-Hill, Jessica (GBR) (1988)</b>	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
<b>Stowers, Jasmin (USA) (1991)</b>	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		

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

Brice (2017) - critical determinants of sprint hurdle performance

## Heat 2

date	22-Jul-16	wind	0.2 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
<b>Harrison, Kendra (Keni) (USA)</b>	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
<b>Stowers, Jasmin (USA) (1991)</b>	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
<b>Castlin, Kristi (USA) (1988)</b>	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

## 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
<b>Ali, Nia (USA) (1988)</b>	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
<b>Rollins, Brianna (USA) (1991)</b>	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
<b>Ennis-Hill, Jessica (GBR) (1988)</b>	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
<b>Rollins, Brianna (USA) (1991)</b>	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	8.50	8.54	8.10	8.67	9.11	8.59
<b>Castlin, Kristi (USA) (1988)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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
<b>Harrison, Queen (USA) (1988)</b>	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	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
<b>Nelvis, Sharika (USA) (1990)</b>	time	2.50	3.52	4.50	5.50	6.47	7.41	8.37	9.34	10.37	11.37		12.60	8 / 5			
reaction time	0.159	interval	7 Steps	1.02	0.98	1.00	0.97	0.94	0.96	0.97	1.03	1.00	1.23		3.00	2.87	3.00
		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
<b>Harrison, Kendra (USA) (1992)</b>	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	8.76	8.85	8.50	8.50	8.50	8.40	7.92		8.50	8.79	8.50
<b>Coward, Jackie (USA) (1989)</b>	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
<b>Stowers, Jasmin (USA) (1991)</b>	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	<i>Henson (2020) - Athlete First: 2016 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
<b>Roleder, Cindy (GER) (1989)</b>	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	
<b>Talay, Alina (BLR) (1989)</b>	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	
<b>Porter, Tiffany (GBR) (1987)</b>	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	
<b>Rard-Reuse, Clélia (SUI) (1988)</b>	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	
<b>Zagré, Anne (BEL) (1990)</b>	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	
<b>Pesiridou, Elisávet (GRE) (1991)</b>	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	
<b>Billaud, Cindy (FRA) (1986)</b>	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	
<b>Dutkiewicz, Pamela (GER) (1991)</b>	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	<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 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
<b>Kimura, Ayako (JPN) (1988)</b>	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	
<b>Abe, Haruka (JPN) (1994)</b>	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	
<b>Aoki, Masumi (JPN) (1994)</b>	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	
<b>Shimura, Hitomi (JPN) (1990)</b>	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	
<b>Soma, Eriko (JPN) (1990)</b>	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	
<b>Tanaka, Yumi (JPN) (1998)</b>	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	
<b>Kobayashi, Sayaka (JPN) (1991)</b>	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	

<b>Kiyoyama, Chisato (JPN) (1999)</b>	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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Tanaka, Yumi (JPN) (1998)</b>	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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Furuhashi, Kana (JPN) (1999)</b>	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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Ono, Yui (JPN) (1999)</b>	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
<b>Takahashi, Makato (JPN)</b>	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													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Harrison, Kendra (USA) (1992)</b>	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
<b>Ali, Nia (USA) (1988)</b>	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
<b>Harrison, Queen (USA) (1988)</b>	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
<b>Talay, Alina (BLR) (1989)</b>	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
<b>Kallur, Susanna (SWE) (1981)</b>	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
<b>Pedersen, Isabelle (NOR) (1992)</b>	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
<b>Zagré, Anne (BEL) (1990)</b>	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
<b>Westerlund, Elin (SWE) (1990)</b>	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	8.10	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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Aoki, Masumi (JPN) (1994)</b>	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													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Rollins, Brianna (USA) (1991)</b>	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
<b>Harper-Nelson, Dawn (USA) (</b>	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
<b>Stowers, Jasmin (USA) (1991)</b>	time	2.60	3.64	4.62	5.60	6.58	7.54	8.56	9.56	10.58	11.60		12.79	6 / 3			
reaction time	0.188	interval	1.04	0.98	0.98	0.98	0.96	1.02	1.00	1.02	1.02	1.19		3.00	2.96	3.04	
		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
<b>Porter, Tiffany (GBR) (1987)</b>	time	2.52	3.54	4.56	5.56	6.54	7.54	8.54	9.56	10.60	11.68		12.94	7 / 4			
reaction time	0.143	interval	1.02	1.02	1.00	0.98	1.00	1.00	1.02	1.04	1.08	1.26		3.04	2.98	3.14	
		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
<b>Roleder, Cindy (GER) (1989)</b>	time	2.64	3.68	4.68	5.68	6.68	7.68	8.68	9.70	10.72	11.78		12.94	8 / 5			
reaction time	0.145	interval	1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.06	1.16		3.04	3.00	3.10	
		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
<b>Pedersen, Isabelle (NOR) (1999)</b>	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
<b>Pearson, Sally (AUS) (1986)</b>	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
<b>Harrison, Kendra (USA) (1992)</b>	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	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	
<b>Rollins, Brianna (USA) (1991)</b>	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	
<b>Castlin, Kristi (USA) (1988)</b>	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	
<b>Harper-Nelson, Dawn (USA) (</b>	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	
<b>Porter, Tiffany (GBR) (1987)</b>	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	8.50	7.94	8.33	7.78	8.33	8.59	8.31	
<b>Ali, Nia (USA) (1988)</b>	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	8.33	8.67	7.87	8.02	7.72	8.36	8.56	8.28		
<b>Pearson, Sally (AUS) (1986)</b>	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	
<b>Hatton, Lucy (GBR) (1994)</b>	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
<b>Talay, Alina (1989) (BLR)</b>	time	2.58	3.58	4.58	5.55	6.51	7.48	8.47	9.47	10.49	11.51		12.63	/ 1				
reaction time		interval	1.00	1.00	0.97	0.96	0.97	0.99	1.00	1.02	1.02	1.12	NR		2.97	2.92	3.04	
		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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Kimura, Ayako (JPN) (1988)</b>	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](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	1.02	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 Perfecture 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](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 Perfecture 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](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](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	1.05	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 Perfecture 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](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) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>													
				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			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			1.02	1.02	1.00	1.02	1.02	1.02	1.02	1.04	1.02	1.06	1.16	<b>PB</b>		3.04	3.06	3.12
	velocity		4.85	8.33	8.33	8.50	8.33	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			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			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			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			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			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) (1994)	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			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) (1994)	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			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			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)

## 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		0.99	1.01	0.97	0.96	0.98	0.98	0.98	0.99	1.01	1.00	1.14	<b>PB</b>		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		1.00	0.97	0.97	0.98	0.98	0.96	0.99	1.01	1.01	1.13	<b>PB</b>			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		1.00	0.97	0.97	0.97	0.97	0.98	0.99	1.01	1.03	1.17	<b>NR</b>			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
Rollins, 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		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		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		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	8.50	8.17	7.87	8.82	7.72		8.44	8.50	8.17



<b>Williams, Shermaine (JAM) (1st)</b>	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		<i>Henson (2021)</i>	
reaction time	0.177 interval	<b>7 steps</b>	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
<b>Nelvis, Sharika (USA) (1990)</b>	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		<i>Henson (2021)</i>	
reaction time	0.168 interval	<b>7 steps</b>	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
<b>Wu Shuijiao (CHN) (1991)</b>	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
<b>Tanaka, Yumi (JPN) (1998)</b>	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
<b>Sasaki, Aogi (JPN) (1997)</b>	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	<b>PB</b>		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
<b>Kamada, Saki (JPN) (1997)</b>	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
<b>Nakamura, Reina (JPN) (1998)</b>	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	<b>PB</b>		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
<b>Kanai, Marumi (JPN) (1997)</b>	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	<b>PB</b>		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
<b>Okamoto, Rika (JPN) (1997)</b>	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	<b>PB</b>		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
<b>Nakatuka, Natsuki (JPN) (1998)</b>	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
<b>Negi, Mariko (JPN) (1997)</b>	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
<b>Kato, Saaya (JPN) (1997)</b>	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
<b>Pennella, Giulia (ITA) (1989)</b>	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	<b>PB</b>		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
<b>Shimura, Hitomi (JPN) (1990)</b>	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
<b>Tanaka, Anri (JPN) (1994)</b>	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	<b>PB</b>		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
<b>Aoki, Masumi (JPN) (1994)</b>	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

<b>Fujiwara, Miru (JPN) (1992)</b>	time	2.65	3.73	4.80	5.86	6.92	7.98	9.03	10.10	11.18	12.29		13.46	8 / 4				
reaction time	0.133	interval	1.08	1.07	1.06	1.06	1.06	1.05	1.07	1.08	1.11	1.17			3.21	3.17	3.26	
		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
<b>Hemphill, Megu (JPN) (1996)</b>	time	2.69	3.77	4.81	5.85	6.89	7.93	8.98	10.05	11.14	12.26		13.52	3 / 5				
reaction time	0.145	interval	1.08	1.04	1.04	1.04	1.04	1.05	1.07	1.09	1.12	1.26			3.16	3.13	3.28	
		velocity	4.83	7.87	8.17	8.17	8.17	8.10	7.94	7.80	7.59	8.33	7.40		8.07	8.15	7.77	
<b>Kiyoyama, Chisato (JPN) (1999)</b>	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
<b>Ito, Airi (JPN) (1989)</b>	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	
<b>Wu Shuijiao (CHN) (1991)</b>	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	
<b>Pearson, Sally (AUS) (1986)</b>	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
<b>Harrison, Queen (USA) (1988)</b>	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
<b>Jones, Tenaya (USA) (1989)</b>	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
<b>Castlin, Kristi (USA) (1988)</b>	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
<b>Idlette, Lavonne (DOM) (1985)</b>	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	8.02	9.13	7.66		8.17	8.47	8.17	
<b>Kimura, Ayako (JPN) (1988)</b>	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
<b>Aoki, Masumi (JPN) (1994)</b>	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
<b>Ito, Airi (JPN) (1989)</b>	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	
<b>Kimura, Ayoko (JPN) (1988)</b>	time	2.65	3.71	4.75	5.78	6.82	7.84	8.89	9.93	10.98	12.07		13.27	1 / 1				
reaction time		interval	1.06	1.04	1.03	1.04	1.02	1.05	1.04	1.05	1.09	1.20			3.13	3.11	3.18	
		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
<b>Shimura, Hitomi (JPN) (1990)</b>	time	2.65	3.73	4.78	5.82	6.84	7.89	8.94	10.01	11.08	12.15		13.32	1 / 2				
reaction time		interval	1.08	1.05	1.04	1.02	1.05	1.05	1.07	1.07	1.07	1.17			3.17	3.12	3.21	
		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
<b>Ito, Airi (JPN) (1989)</b>	time	2.70	3.79	4.86	5.92	6.96	8.01	9.08	10.18	11.25	12.33		13.58	1 / 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
<b>Aoki, Masumi (JPN) (1994)</b>	time	2.65	3.76	4.85	5.90	6.95	8.00	9.08	10.18	11.30	12.42		13.65	1 / 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 &amp; U20 Czech Republic indoor national championships

		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Dvoráková, Katerina (CZE) (19)</b>	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		
<b>Skálová, Annemarie (CZE) (19)</b>	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		
<b>Prochová, Hana (CZE) (1996)</b>	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		
<b>Nečinová, Anna (CZE) (1996)</b>	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		
<b>Čaladi, Tereza (CZE) (1996)</b>	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		
<b>Odvárková, Lucie (CZE) (1996)</b>	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		
<b>Dostálová, Veronika (CZE) (19)</b>	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 &amp; U20 Czech Republic indoor national championships

		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Vokálová, Tereza (CZE) (1998)</b>	time	2.72	3.79	4.87	5.94	7.04			8.45	5 / 1			
	reaction time	0.179	interval	1.07	1.08	1.07	1.10	1.41			3.22		
	velocity	4.78	7.94	7.87	7.94	7.73		9.22	7.10		7.92		
<b>Semecká, Tereza (CZE) (1998)</b>	time	2.85	3.93	5.01	6.08	7.16			8.59	4 / 2			
	reaction time	0.160	interval	1.08	1.08	1.07	1.08	1.43			3.23		
	velocity	4.56	7.87	7.87	7.94	7.87		9.09	6.98		7.89		
<b>Žitná, Venuše (CZE) (1998)</b>	time	2.73	3.90	5.04	6.15	7.31			8.78	7 / 3			
	reaction time	0.243	interval	1.17	1.14	1.11	1.16	1.47			3.42		
	velocity	4.76	7.26	7.46	7.66	7.33		8.84	6.83		7.46		
<b>Jirmanová, Karolína (CZE) (19)</b>	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	1.12	1.48			3.42		
	velocity	4.64	7.46	7.59	7.33	7.59		8.78	6.80		7.46		
<b>Vávrová, Denisa (CZE) (1998)</b>	time	2.78	3.94	5.05	6.23	7.38			8.94	2 / 5			
	reaction time	0.149	interval	1.16	1.11	1.18	1.15	1.56			3.45		
	velocity	4.68	7.33	7.66	7.20	7.39		8.33	6.71		7.39		
<b>Barborová, Michaela (CZE) (19)</b>	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	1.18	1.54			3.47		
	velocity	4.61	7.39	7.33	7.33	7.20		8.44	6.66		7.35		
<b>Duchonová, Andrea (CZE) (19)</b>	time	2.81	4.00	5.19	6.35	7.50			9.09	1 / 7			
	reaction time	0.157	interval	1.19	1.19	1.16	1.15	1.59			3.54		
	velocity	4.63	7.14	7.14	7.33	7.39		8.18	6.60		7.20		
<b>Minárová, Pavlína (CZE) (1999)</b>	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	
<b>Deng Ru (CHN) (1989)</b>	time	2.27	3.33	4.41	5.53	6.57	7.69	8.80	9.88	10.96	12.08		13.86	/ 6				
	reaction time		interval	1.06	1.08	1.12	1.04	1.12	1.11	1.08	1.08	1.12	1.78			3.26	3.27	3.28
	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
<b>Hemphill, Megu (JPN) (1996)</b>	time	2.75	3.87	4.95	6.00	7.07	8.12	9.19	10.27	11.35	12.46		13.72	6 / 1			
	reaction time	interval	1.12	1.08	1.05	1.07	1.05	1.07	1.08	1.08	1.11	1.26			3.25	3.19	3.27
	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
<b>Kobayashi, Sayaka (JPN) (1996)</b>	time	2.77	3.88	4.98	6.07	7.14	8.22	9.30	10.39	11.47	12.59		13.83	3 / 2			
	reaction time	interval	1.11	1.10	1.09	1.07	1.08	1.08	1.09	1.08	1.12	1.24	<b>PB</b>		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
<b>Fujimori, Nana (JPN) (1997)</b>	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
<b>Škrobáková, Lucie (CZE) (1998)</b>	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
<b>Koudelová, Lucie (CZE) (1994)</b>	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	1.01	1.05	1.03	1.06	1.19	<b>PB</b>		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
<b>Tomková, Helena (CZE) (1992)</b>	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
<b>Hamáčková, Barbora (CZE) (1991)</b>	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
<b>Hlavatá, Karolina (CZE) (1994)</b>	time	2.74	3.80	4.87	5.97	7.05	8.12	9.23	10.32	11.44	12.61		13.82	8 / 5			
	reaction time	0.186 interval	1.06	1.07	1.10	1.08	1.07	1.11	1.09	1.12	1.17	1.21			3.23	3.26	3.38
	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
<b>Cachová, Katerina (CZE) (1991)</b>	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
<b>Sotáková, Jana (CZE) (1992)</b>	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
<b>Galertová, Alena (CZE) (1992)</b>	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

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
<b>Koudelová, Lucie (CZE) (1994)</b>	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
<b>Tomková, Helena (CZE) (1992)</b>	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
<b>Hlavatá, Karolina (CZE) (1994)</b>	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
<b>Klučinová, Eliška (CZE) (1988)</b>	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
<b>Šimečková, Michaela (CZE) (1991)</b>	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
<b>Komrsková, Aneta (CZE) (1991)</b>	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
<b>Vytlačilová, Tereza (CZE) (1991)</b>	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
<b>Landová, Barbora (CZE) (1989)</b> 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

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
<b>Škrobáková, Lucie (CZE) (1982)</b> 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
<b>Cachová, Katerina (CZE) (1991)</b> 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
<b>Hamáčková, Barbora (CZE) (1987)</b> 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	<b>=PB</b>			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
<b>Sotáková, Jana (CZE) (1992)</b> 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
<b>Galertová, Alena (CZE) (1992)</b> 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
<b>Šebestíková, Nikol (CZE) (1994)</b> 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
<b>Škaloudová, Eliška (CZE) (1991)</b> 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
<b>Plíhalová, Katerina (CZE) (1991)</b> 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 &amp; 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
<b>Zekuciová, Anna (CZE) (1995)</b> 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
<b>Svobodová, Lenka (CZE) (1991)</b> 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
<b>Vachová, Anna (CZE) (1995)</b> 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
<b>Hofmanová, Martina (CZE) (1987)</b> 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
<b>Dobrovolná, Kristyna (CZE) (1987)</b> 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
<b>Skálová, Annemarie (CZE) (1987)</b> 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
<b>Králová, Adéla (CZE) (1996)</b> 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 &amp; 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
<b>Svobodová, Lenka (CZE) (1991)</b> time	2.77	3.93	5.08	6.24	7.40	8.56	9.74	10.91	12.11	13.34		14.76	7 / 1			
reaction time 0.389 interval	1.16	1.15	1.16	1.16	1.16	1.18	1.17	1.20	1.23	1.42				3.47	3.50	3.60
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

<b>Vachová, Anna (CZE) (1995)</b>	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
<b>Hofmanová, Martina (CZE) (1995)</b>	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
<b>Čaladi, Tereza (CZE) (1996)</b>	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
<b>Votinská, Barbora (CZE) (1996)</b>	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
<b>Remešová, Dominika (CZE) (1996)</b>	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 &amp; 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
<b>Zekuciová, Anna (CZE) (1995)</b>	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
<b>Dobrovolná, Kristyna (CZE) (1995)</b>	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	1.41			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
<b>Skálová, Annemarie (CZE) (1995)</b>	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
<b>Vytačilová, Tereza (CZE) (1995)</b>	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
<b>Králová, Adéla (CZE) (1996)</b>	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
<b>Reháková, Karolína (CZE) (1995)</b>	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
<b>Hlavonová, Michaela (CZE) (1995)</b>	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 &amp; 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
<b>Semecká, Tereza (CZE) (1998)</b>	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
<b>Vokálová, Tereza (CZE) (1998)</b>	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
<b>Šimečková, Michaela (CZE) (1995)</b>	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
<b>Dvoráková, Katerina (CZE) (1995)</b>	time	2.84	3.97	5.08	6.18	7.30	8.40	9.52	10.66	11.80	12.98		14.24	4 / 4			
	reaction time	0.168	interval	1.13	1.11	1.10	1.12	1.10	1.12	1.14	1.14	1.18	1.26		3.34	3.34	3.46
	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
<b>Janičková, Veronika (CZE) (1995)</b>	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
<b>Dostálová, Veronika (CZE) (1995)</b>	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
<b>Vávrová, Denisa (CZE) (1998)</b>	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
<b>Jedličková, Petra (CZE) (1998)</b>	time	2.96	4.16	5.38	6.62	7.82	9.06	10.30	11.55	12.80	14.09		15.52	8 / 8			
	reaction time	0.209	interval	1.20	1.22	1.24	1.20	1.24	1.24	1.25	1.25	1.29	1.43		3.66	3.68	3.79
	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
<b>Semecká, Tereza (CZE) (1998)</b>	time	2.93	4.01	5.10	6.20	7.29	8.39	9.47	10.57	11.67	12.83		14.06	3 / 1			
	reaction time	0.242	interval	1.08	1.09	1.10	1.09	1.10	1.08	1.10	1.10	1.16	1.23		3.27	3.27	3.36
	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
<b>Janičková, Veronika (CZE) (1998)</b>	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
<b>Jedličková, Petra (CZE) (1998)</b>	time	3.00	4.18	5.37	6.56	7.75	8.94	10.14	11.35	12.56	13.81		15.18	6 / 3			
	reaction time	0.225	interval	1.18	1.19	1.19	1.19	1.19	1.20	1.21	1.21	1.25	1.37		3.56	3.58	3.67
	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
<b>Bendová, Daniela (CZE) (1997)</b>	time	2.91	4.13	5.32	6.53	7.74	8.95	10.20	11.43	12.64	13.90		15.26	4 / 4			
	reaction time	0.202	interval	1.22	1.19	1.21	1.21	1.21	1.25	1.23	1.21	1.26	1.36		3.62	3.67	3.70
	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
<b>Majerová, Denisa (CZE) (1997)</b>	time	3.03	4.23	5.41	6.63	7.85	9.07	10.30	11.53	12.78	14.10		15.55	5 / 5			
	reaction time	0.261	interval	1.20	1.18	1.22	1.22	1.22	1.23	1.23	1.25	1.32	1.45		3.60	3.67	3.80
	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
<b>Kopečná, Kristyna (CZE) (1998)</b>	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
<b>Burdová, Magdalena (CZE) (1998)</b>	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	1.42			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
<b>Švehláková, Eva (CZE) (1998)</b>	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	1.30	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
<b>Vokálová, Tereza (CZE) (1998)</b>	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
<b>Šimečková, Michaela (CZE) (1998)</b>	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
<b>Žitná, Venuše (CZE) (1998)</b>	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
<b>Rákosníková, Iveta (CZE) (1999)</b>	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	1.56			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
<b>Májová, Veronika (CZE) (1998)</b>	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
<b>Valášková, Tereza (CZE) (1998)</b>	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
<b>Malá, Patricie (CZE) (1998)</b>	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

<b>Dvoráková, Katerina (CZE) (19</b>	time	2.82	3.95	5.03	6.14	7.23	8.31	9.43	10.53	11.65	12.78		14.04	1 / 1			
reaction time	0.174 interval		1.13	1.08	1.11	1.09	1.08	1.12	1.10	1.12	1.13	1.26			3.32	3.29	3.35
	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
<b>Dostálová, Veronika (CZE) (19</b>	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
<b>Vávrová, Denisa (CZE) (1998)</b>	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
<b>Nemčková, Nikola (CZE) (199</b>	time	2.88	4.05	5.23	6.43	7.65	8.85	10.07	11.32	12.60	13.90		15.33	3 / 4			
reaction time	0.179 interval		1.17	1.18	1.20	1.22	1.20	1.22	1.25	1.28	1.30	1.43			3.55	3.64	3.83
	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
<b>Hysková, Dominika (CZE) (199</b>	time	3.07	4.27	5.50	6.73	7.95	9.17	10.42	11.65	12.89	14.20		15.64	7 / 5			
reaction time	0.243 interval		1.20	1.23	1.23	1.22	1.22	1.25	1.23	1.24	1.31	1.44			3.66	3.69	3.78
	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
<b>Viková, Natálie (CZE) (1998)</b>	time	2.96	4.22	5.49	6.74	8.01	9.26	10.53	11.78	13.06	14.37		15.69	5 / 6			
reaction time	0.149 interval		1.26	1.27	1.25	1.27	1.25	1.27	1.25	1.28	1.31	1.32			3.78	3.79	3.84
	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
<b>Jarešová, Lucie (CZE) (1998)</b>	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
<b>Rašková, Adéla (CZE) (1998)</b>	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
<b>Hofmann, Franziska (GER) (19</b>	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	<b>PB</b>		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
<b>Pederson, Isabelle (NOR) (199</b>	7 steps	no information available											13.07	5 / 8			
<b>Lindenmayer, Sabrina (GER) (</b>	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
<b>Ferguen, Amina (ALG) (1989)</b>	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
<b>Pletsch, Jenna (GER) (1991)</b>	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
<b>Hofmann, Franziska (GER) (19</b>	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
<b>Lindenmayer, Sabrina (GER) (</b>	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
<b>Ferguen, Amina (ALG) (1989)</b>	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
<b>Pletsch, Jenna (GER) (1991)</b>	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

<b>Deng Ru (CHN) (1989)</b>	time	2.35	3.43	4.51	5.59	6.63	7.66	8.74	9.81	10.90	12.01		13.57	/ 4			
reaction time	interval		1.08	1.08	1.08	1.04	1.03	1.08	1.07	1.09	1.11	1.56			3.24	3.15	3.27
	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](http://www.youtube.com/watch?v=7_FeLg_p08Y)

		H1	H2	H3	H4	H5						Run-In	Official Time	Lane / Place	H1-H4		
<b>Pennella, Giulia (ITA) (1989)</b>	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		
<b>Caravelli, Marzia (ITA) (1991)</b>	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
<b>Rollins, Brianna (USA) (1991)</b>	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
<b>Pearson, Sally (AUS) (1986)</b>	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
<b>Porter, Tiffany (GBR) (1987)</b>	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
<b>Harper Nelson, Dawn (1984)</b>	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
<b>Harrison, Queen (USA) (1988)</b>	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
<b>Whyte, Angela (CAN) (1980)</b>	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
<b>Billard, Cindy (FRA) (1986)</b>	time	2.56	3.60	4.60	5.58	6.56	7.54	8.54	9.54	10.56	11.60		12.84	3 / 7			
reaction time	0.165 interval		1.04	1.00	0.98	0.98	0.98	1.00	1.00	1.02	1.04	1.24			3.02	2.96	3.06
	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
<b>Kondakova, Yuliya (RUS) (198)</b>	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/](http://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
<b>Neziri, Nooralotta (FIN) (1992)</b>	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
<b>Thomas, Vashti (USA) (1990)</b>	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
<b>Ørving, Tale (NOR) (1989)</b>	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
<b>Tuvsesson, Emma (SWE) (1991)</b>	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
<b>Secher Myrnel, Lene (NOR) (1991)</b>	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
<b>Inoussa, Farydah (SWE) (1994)</b>	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

## 2013 USATF National Championships (Des Moines, IA)

## FINAL

		date	22-Jun-13	wind	1.2 m/s												(2015.9.20) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>		
				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

## 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
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
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
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
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
Komrsková, Aneta (CZE) (1991)	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
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
Nejedlová, Michaela (CZE) (1991)	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

## Heat 3

		date	15-Jun-13	wind	-1.8 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
Cachová, Katerína (CZE) (1991)	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
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
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
Matysková, Ludmila (CZE) (1991)	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
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												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
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	
<b>Klučinová, Eliška (CZE) (1988)</b>	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	
<b>Nejedlová, Michaela (CZE) (1991)</b>	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	
<b>Komrsková, Aneta (CZE) (1999)</b>	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	1.10	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	
<b>Šutová, Eva (CZE) (1990)</b>	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	
<b>Plíhalová, Katerina (CZE) (1999)</b>	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	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
<b>Škrobáková, Lucie (CZE) (1988)</b>	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
<b>Koudelová, Lucie (CZE) (1994)</b>	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
<b>Muchová, Zuzana (CZE) (1988)</b>	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
<b>Škaloudová, Eliška (CZE) (1991)</b>	time	2.79	3.95	5.11	6.27	7.43	8.60	9.65	10.96	12.16	13.56		14.96		6 / 4			
	reaction time	0.159	interval	1.16	1.16	1.16	1.16	1.17	1.05	1.31	1.20	1.40	1.40			3.48	3.38	3.91
	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
<b>Rajmová, Katerina (CZE) (1988)</b>	time	2.81	3.99	5.13	6.28	7.45	8.61	9.75	10.95	12.24					2 / --			
	reaction time	0.144	interval	1.18	1.14	1.15	1.17	1.16	1.14	1.20	1.29		<b>DQ</b>			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.elitandslag.se/SprintHäck/KortHäck.aspx														
			H1	H2	H3	H4	H5							Run-In	Official Time	Lane / Place	H1-H4
<b>Yanit, Nevin (TUR) (1986)</b>	time	2.52	3.58	4.58	5.58	6.56								7.89	3 / <del>1</del>		
	reaction time	0.158	interval	1.06	1.00	1.00	0.98							1.33	<b>NR-DV</b>		3.06
	velocity	5.16	8.02	8.50	8.50	8.67							9.77	7.60		8.33	
<b>Talay, Alina (BLR) (1989)</b>	time	2.62	3.65	4.64	5.64	6.62								7.94	5 / <del>2</del> 1		
	reaction time	0.154	interval	1.03	0.99	1.00	0.98							1.32	<b>=PB</b>		3.02
	velocity	4.96	8.25	8.59	8.50	8.67							9.85	7.56		8.44	
<b>Borsi, Veronica (ITA) (1987)</b>	time	2.60	3.64	4.64	5.64	6.62								7.94	4 / <del>3</del> 2		
	reaction time	0.176	interval	1.04	1.00	1.00	0.98							1.32	<b>NR</b>		3.04
	velocity	5.00	8.17	8.50	8.50	8.67							9.85	7.56		8.39	
<b>O'Rourke, Deval (IRL) (1981)</b>	time	2.58	3.60	4.61	5.61	6.63								7.95	2 / <del>4</del> 3		
	reaction time	0.141	interval	1.02	1.01	1.00	1.02							1.32			3.03
	velocity	5.04	8.33	8.42	8.50	8.33							9.85	7.55		8.42	
<b>Kondakova, Yuliya (RUS) (198)</b>	time	2.58	3.64	4.65	5.64	6.65								7.99	6 / <del>5</del> 4		
	reaction time	0.159	interval	1.06	1.01	0.99	1.01							1.34			3.06
	velocity	5.04	8.02	8.42	8.59	8.42							9.70	7.51		8.33	
<b>Berings, Eline (BEL) (1986)</b>	time	2.59	3.63	4.68	5.70	6.71								8.08	8 / <del>6</del> 5		
	reaction time	0.127	interval	1.04	1.05	1.02	1.01							1.37			3.11
	velocity	5.02	8.17	8.10	8.33	8.42							9.49	7.43		8.20	
<b>Cattaneo, Micol (ITA) (1982)</b>	time	2.64	3.71	4.73	5.74	6.78								8.11	7 / <del>7</del> 6		
	reaction time	0.180	interval	1.07	1.02	1.01	1.04							1.33			3.10
	velocity	4.92	7.94	8.33	8.42	8.17							9.77	7.40		8.23	
<b>Neziri, Nooralotta (FIN) (1992)</b>	time	2.65	3.74	4.78	5.79	6.80								8.19	1 / <del>8</del> 7		

reaction time	0.143	interval	1.09	1.04	1.01	1.01					1.39		3.14
		velocity	4.91	7.80	8.17	8.42	8.42				9.35	7.33	8.12

**Pentathlon - Heat 2** date 01-Mar-13Blomkvist (2013) - [www.elitfandslag.se/SprintHäck/KortHäck.aspx](http://www.elitfandslag.se/SprintHäck/KortHäck.aspx)

		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4
<b>Linde, Sofia (SWE) (1995)</b>	time	2.73	3.80	4.86	5.90	6.94			8.36	5 / 5	
	reaction time	0.165	interval	1.07	1.06	1.04	1.04		1.42		3.17
		velocity	4.76	7.94	8.02	8.17	8.17		9.15	7.18	8.04

**Pentathlon - Heat 1** date 01-Mar-13Blomkvist (2013) - [www.elitfandslag.se/SprintHäck/KortHäck.aspx](http://www.elitfandslag.se/SprintHäck/KortHäck.aspx)

		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4
<b>Hallin, Ellinor (SWE) (1987)</b>	time	2.74	3.82	4.88	5.96	7.00			8.43	6 / 2	
	reaction time	0.172	interval	1.08	1.06	1.08	1.04		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](http://www.youtube.com/watch?v=V4AEm5H14hl)

		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4
<b>Borsi, Veronica (ITA) (1987)</b>	time	2.69	3.69	4.70	5.68	6.67			8.00	4 / 1	
	reaction time		interval	1.00	1.01	0.98	0.99		1.33	<b>PB</b>	2.99
		velocity	4.83	8.50	8.42	8.67	8.59		9.77	7.50	8.53

**2012 Chinese National Championships (Kunshan, CHN)****FINAL**

date 24-Sep-12

wind 1.0 m/s

Liu (2013) - study of winter training of chinese hurdler Deng Ru for the 12th national games

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Deng Ru (CHN) (1989)</b>	time	2.36	3.44	4.52	5.60	6.64	7.68	8.76	9.84	10.92	12.04		13.60	1 / 7			
	reaction time		interval	1.08	1.08	1.04	1.04	1.08	1.08	1.12	1.12	1.56			3.24	3.16	3.28
		velocity	5.51	7.87	7.87	7.87	8.17	8.17	7.87	7.87	7.87	6.73	7.35		7.87	8.07	7.77

**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
<b>Pearson, Sally (AUS) (1986)</b>	time	2.44	3.42	4.38	5.34	6.30	7.24	8.20	9.18	10.18	11.18		12.35	7 / 1			
	reaction time	0.137	interval	0.98	0.96	0.96	0.96	0.94	0.96	0.98	1.00	1.17	<b>OR</b>		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	8.97	8.10		8.79	8.92	8.56
<b>Harper, Dawn (USA) (1984)</b>	time	2.48	3.48	4.44	5.40	6.36	7.32	8.28	9.24	10.22	11.22		12.37	4 / 2			
	reaction time	0.156	interval	1.00	0.96	0.96	0.96	0.96	0.96	0.98	1.00	1.15	<b>PB</b>		2.92	2.88	2.94
		velocity	5.24	8.50	8.85	8.85	8.85	8.85	8.85	8.67	8.50	9.13	8.08		8.73	8.85	8.67
<b>Wells, Kellie (USA) (1982)</b>	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	interval	1.00	0.96	0.96	0.98	0.98	0.98	0.98	1.02	1.18	<b>PB</b>		2.92	2.94	2.98
		velocity	5.28	8.50	8.85	8.85	8.67	8.67	8.67	8.67	8.33	8.90	8.01		8.73	8.67	8.56
<b>Jones, Lolo (USA) (1982)</b>	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	0.96	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	8.67	8.50	8.50	8.17	8.90	7.95		8.85	8.73	8.39
<b>Yanit, Nevin (TUR) (1986)</b>	time	2.50	3.50	4.50	5.46	6.42	7.42	8.40	9.40	10.42	11.42		12.58	6 / <del>5</del>			
	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	<b>DV</b>	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
<b>George, Phylcia (CAN) (1987)</b>	time	2.52	3.54	4.52	5.48	6.44	7.42	8.40	9.40	10.42	11.46		12.65	3 / <del>5</del>			
	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	<b>=PB</b>	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
<b>Zelinka, Jessica (CAN) (1981)</b>	time	2.50	3.50	4.50	5.46	6.42	7.40	8.38	9.40	10.42	11.46		12.69	8 / <del>7</del> 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
<b>Schrott, Beate (AUT) (1988)</b>	time	2.58	3.60	4.62	5.62	6.62	7.62	8.62	9.66	10.70	11.78		13.07	9 / <del>8</del> 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](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
<b>Kimura, Ayako (JPN) (1988)</b>	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
<b>Ennis, Jessica (GBR) (1986)</b>	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	0.96	0.98	1.00	1.02	1.00	<b>NR</b>		2.96	2.92	3.00
		velocity	4.89	8.33	8.85	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												<i>Vazel (2012) - hurdle observations</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			2.51	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												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 Chinese National Grand Prix Final (Fuzhou, CHN)****FINAL**

		date	24-Jun-12	wind	-1.3 m/s												<i>Liu (2013) - study of winter training of chinese hurdler Deng Ru for the 12th 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
Deng Ru (CHN) (1989)	time			2.28	3.36	4.44	5.56	6.60	7.72	8.84	9.96	11.04	12.16		13.95	/ 8			
	reaction time													1.79			3.28	3.28	3.32
	velocity			5.70	7.87	7.87	7.59	8.17	7.59	7.59	7.59	7.87	7.59	5.87	7.17		7.77	7.77	7.68

**2012 British National Championships (Birmingham, GBR)****FINAL**

		date	23-Jun-12	wind	0.3 m/s												<i>Hollman (2012) - uka 2012 olympic games report: combined events</i>		
				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												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												<i>Blomkvist (2012) - www.sub13.se</i>		
				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													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	8.10	7.94	8.47	7.47		8.17	8.28
Gubina, Yekaterina (RUS) (1981)	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													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	8.10	7.87	7.87	8.97	7.42		8.10	8.15
Lundahl, Caroline (SWE) (1991)	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													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													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													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) (1981)	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													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												<i>kitkat1 (2012) - www.charliefrancis.com/community/showthread.php?22163-Sally-Pearson-s-12-49</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			2.55	3.55	4.53	5.51	6.47	7.44	8.41	9.39	10.38	11.41		12.49	/ 1			
	reaction time													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												<i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>					
				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													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													1.45	<b>PB</b>		3.31		
	velocity			4.73	7.73	7.59	7.80	7.80							8.97	6.98		7.70		
Nejedlová, Michaela (CZE) (1981)	time			2.75	3.87	4.99	6.12	7.25								8.71	5 / 3			
	reaction time	0.127													1.46			3.37		
	velocity			4.73	7.59	7.59	7.52	7.52							8.90	6.89		7.57		
Štáhlová, Zuzana (CZE) (1992)	time			2.73	3.83	4.99	6.06	7.20								8.75	2 / 4			
	reaction time	0.138													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  
 reaction time 0.136 interval 1.15 1.14 1.15 1.13  
 velocity 4.68 7.39 7.46 7.39 7.52

8.86 7 / 5  
 1.51 3.44  
 8.61 6.77 7.41

**Michalská, Klára (CZE) (1993)** time 2.78 4.02 5.16 6.31 7.45  
 reaction time 0.195 interval 1.24 1.14 1.15 1.14  
 velocity 4.68 6.85 7.46 7.39 7.46

8.98 6 / 6  
 1.53 3.53  
 8.50 6.68 7.22

**Hamáčková, Barbora (CZE) (1993)** time 2.82 4.02 5.13 6.25 7.41  
 reaction time 0.190 interval 1.20 1.11 1.12 1.16  
 velocity 4.61 7.08 7.66 7.59 7.33

8.98 1 / 7  
 1.57 3.43  
 8.28 6.68 7.43

**Komrsková, Aneta (CZE) (1993)** time 2.79 3.99 5.14 6.26 7.41  
 reaction time 0.153 interval 1.20 1.15 1.12 1.15  
 velocity 4.66 7.08 7.39 7.59 7.39

9.01 8 / 8  
 1.60 3.47  
 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
<b>Korešová, Jana (CZE) (1981)</b> 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		
<b>Tomková, Helena (CZE) (1992)</b> 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		
<b>Sotáková, Jana (CZE) (1993)</b> 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		
<b>Štáhllová, Zuzana (CZE) (1992)</b> 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		
<b>Hamáčková, Barbora (CZE) (1993)</b> 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		
<b>Galertová, Alena (CZE) (1992)</b> 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		
<b>Nováčeková, Olga (CZE) (1992)</b> 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
<b>Nejedlová, Michaela (CZE) (1993)</b> 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		
<b>Michalská, Klára (CZE) (1993)</b> 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		
<b>Komrsková, Aneta (CZE) (1993)</b> 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		
<b>Chmelarová, Klára (CZE) (1993)</b> 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		
<b>Suchelová, Nikola (CZE) (1991)</b> 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		
<b>Svojanovská, Michaela (CZE) (1993)</b> 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 &amp; Ricerche (2012) - www.youtube.com/watch?v=\_GzCpvyL8

	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4
<b>Caravelli, Marzia (ITA) (1981)</b> 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	
<b>Borsi, Veronica (ITA) (1987)</b>	time		2.70	3.73	4.77	5.77	6.79							8.18	3 / 2-1
	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
<b>Pearson, Sally (AUS) (1986)</b>	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
<b>Carruthers, Danielle (USA) (1987)</b>	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
<b>Harper, Dawn (USA) (1984)</b>	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	0.96	0.98	0.98	0.98	1.00	1.10	8.02	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
<b>Porter, Tiffany (GBR) (1987)</b>	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	1.04	1.23	7.92		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
<b>Dektyareva, Tatyana (RUS) (1987)</b>	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
<b>Holder, Nikkita (CAN) (1987)</b>	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
<b>George, Phylcia (CAN) (1987)</b>	time	0.126	no information available										17.97	4 / 7			
<b>Wells, Kellie (USA) (1982)</b>	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
<b>Carruthers, Danielle (USA) (1987)</b>	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
<b>Pearson, Sally (AUS) (1986)</b>	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
<b>Jung Hye-lim (KOR) (1987)</b>	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
<b>Wells, Kellie (USA) (1982)</b>	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	0.182	interval	1.04	0.98	0.97	1.00	0.98	0.98	0.99	1.02	1.02	1.15		2.99	2.96	3.03
	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
<b>Harrison, Queen (USA) (1988)</b>	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	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
<b>Barber, Aleesha (TTO) (1987)</b>	time	2.47	3.53	4.57	5.60	6.62	7.66	8.70	9.75	10.80	11.89		13.29	1 / 2			
	reaction time	interval	1.06	1.04	1.03	1.02	1.04	1.04	1.05	1.05	1.09	1.40			3.13	3.10	3.19
	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
<b>Tuvsesson, Emma (SWE) (1991)</b>	time	2.73	3.80	4.85	5.92	6.97	8.02	9.06	10.11	11.17	12.25		13.43	1 / 3			
	reaction time	interval	1.07	1.05	1.07	1.05	1.05	1.04	1.05	1.06	1.08	1.18			3.19	3.14	3.19
	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
<b>Makakala, Fatima (SWE) (1989)</b>	time	2.70	3.76	4.82	5.90	6.97	8.05	9.13	10.26	11.40	12.54		13.78	1 / 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	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	
<b>Samuelsson, Jessica (SWE) (1</b>	time	2.77	3.88	4.96	6.06	7.15	8.25	9.34	10.46	11.61	12.76		13.95	/ 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	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	
<b>Hallin, Ellinore (SWE) (1987)</b>	time	2.81	3.95	5.03	6.14								14.06	/ 6			
reaction time	interval		1.14	1.08	1.11										3.33		
velocity	4.63	7.46	7.87	7.66									7.11		7.66		
<b>Rogemyr, Maja (SWE) (1991)</b>	time	2.84	3.97	5.09	6.21	7.33	8.46	9.61	10.76	11.94	13.14		14.45	/ 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	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
<b>Dektyareva, Tatyana (RUS) (19</b>	time	2.56	3.60	4.64	5.68	6.68	7.72	8.76	9.80	10.84	11.92		13.16	/ 1			
reaction time	0.201 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	5.08	8.17	8.17	8.17	8.50	8.17	8.17	8.17	8.17	8.17	7.87	8.47	7.60		8.17	8.28	8.07
<b>Caravelli, Marzia (ITA) (1981)</b>	time	2.58	3.64	4.68	5.70	6.72	7.76	8.80	9.86	10.92	12.00		13.21	/ 2			
reaction time	0.166 interval		1.06	1.04	1.02	1.02	1.04	1.04	1.06	1.06	1.08	1.21			3.12	3.10	3.20
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	
<b>Tymińska, Karolina (POL) (198</b>	time	2.62	3.68	4.76	5.80	6.86	7.88	8.92	9.96	11.06	12.20		13.51	/ 3			
reaction time	0.180 interval		1.06	1.08	1.04	1.06	1.02	1.04	1.04	1.10	1.14	1.31			3.18	3.12	3.28
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	
<b>Yanovska, Olena (UKR) (1990)</b>	time	2.58	3.68	4.74	5.80	6.88	7.92	9.00	10.06	11.16	12.28		13.56	/ 4			
reaction time	0.165 interval		1.10	1.06	1.06	1.08	1.04	1.08	1.06	1.10	1.12	1.28			3.22	3.20	3.28
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	
<b>Tuvsesson, Emma (SWE) (1991)</b>	time	2.68	3.76	4.84	5.90	6.96	8.03	9.10	10.18	11.24	12.32		13.62	/ 5			
reaction time	0.195 interval		1.08	1.08	1.06	1.06	1.07	1.07	1.08	1.06	1.08	1.30			3.22	3.20	3.22
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	
<b>Mamona, Patricia (POR) (1988)</b>	time	2.74	3.80	4.88	6.00	7.08	8.20	9.30	10.42	11.56	12.80		14.30	/ 6			
reaction time	0.196 interval		1.06	1.08	1.12	1.08	1.12	1.10	1.12	1.14	1.24	1.50			3.26	3.30	3.50
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
<b>Vukicevic, Christina (NOR) (19</b>	time	2.44	3.48	4.48	5.44	6.44						7.92	/ 1	
reaction time	interval		1.04	1.00	0.96	1.00					1.48	NR		3.00
velocity	5.33	8.17	8.50	8.85	8.50						8.78	7.58		8.50
<b>Kluft, Carolina (SWE) (1983)</b>	time	2.48	3.62	4.64	5.68	6.72						8.26	/ 2	
reaction time	interval		1.14	1.02	1.04	1.04					1.54			3.20
velocity	5.24	7.46	8.33	8.17	8.17						8.44	7.26		7.97
<b>Neziri, Nooralotta (FIN) (1992)</b>	time	2.54	3.64	4.68	5.74	6.80						8.32	/ 3	
reaction time	interval		1.10	1.04	1.06	1.06					1.52			3.20
velocity	5.12	7.73	8.17	8.02	8.02						8.55	7.21		7.97
<b>Pedersen, Isabelle (NOR) (199</b>	time	2.56	3.64	4.68	5.74	6.80						8.38	/ 4	
reaction time	interval		1.08	1.04	1.06	1.06					1.58			3.18
velocity	5.08	7.87	8.17	8.02	8.02						8.23	7.16		8.02
<b>Tuvsesson, Emma (SWE) (1991)</b>	time	2.58	3.68	4.76	5.82	6.88						8.40	/ 5	
reaction time	interval		1.10	1.08	1.06	1.06					1.52			3.24
velocity	5.04	7.73	7.87	8.02	8.02						8.55	7.14		7.87
<b>Aidanpää, Ida (FIN) (1988)</b>	time	2.56	3.66	4.72	5.76	6.80						8.43	/ 6	
reaction time	interval		1.10	1.06	1.04	1.04					1.63			3.20
velocity	5.08	7.73	8.02	8.17	8.17						7.98	7.12		7.97

**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&amp;lang=en&amp;lang=en&amp;lang=en

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Terada, Asuka (JPN) (1990)</b>	time	2.63	3.67	4.70	5.71	6.73	7.76	8.78	9.82	10.88	11.95		13.12	4 / 1			
reaction time	interval		1.04	1.03	1.01	1.02	1.03	1.02	1.04	1.06	1.07	1.17			3.08	3.07	3.17
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		interval	1.07	1.05	1.03	1.08	1.05	1.07	1.09	1.11	1.10	1.20		3.15	3.20	3.30
	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
Tuveesson, 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		interval	1.12	1.08	1.07	1.07	1.04	1.08	1.09	1.09	1.09	1.21		3.27	3.19	3.27
	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) (1999)	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		interval	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		interval	1.12	1.10	1.10	1.08	1.09	1.12	1.11	1.14	1.21	1.32		3.32	3.29	3.46
	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		interval	1.13	1.11	1.10	1.09	1.09	1.14	1.15	1.18	1.18	1.33	<b>PB</b>	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		interval	1.11	1.15	1.10	1.11	1.15	1.16	1.16	1.18	1.21	1.24		3.36	3.42	3.55
	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		interval	1.10	1.10	1.11	1.10	1.15	1.15	1.18	1.20	1.23	1.35		3.31	3.40	3.61
	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		interval	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		interval	1.04	1.03	1.06	1.02	1.02	1.03	1.06	1.05	1.10	1.22		3.13	3.07	3.21
	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		interval	1.06	1.07	1.03	1.02	1.04	1.05	1.07	1.08	1.07	1.15		3.16	3.11	3.22
	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		interval	1.08	1.06	1.05	1.04	1.05	1.09	1.10	1.14	1.21	1.52		3.19	3.18	3.45
	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) (1985)	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	<b>NR</b>	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	<b>NR</b>	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) (19	0.157	no information available	12.78	/ 4
Snihur, Yevheniya (UKR) (198	0.151	no information available	12.92	/ 5
Dektyareva, Tatyana (RUS) (19	0.819	no information available	12.98	/ 6
Urech, Lisa (SUI) (1989)	0.170	no information available	13.02	/ 7
Hildebrand, Nadine (GER) (19	0.191	no information available	13.08	/ 8

## 2010 IAAF World Indoor Championships (Doha, QAT)

## FINAL

date 13-Mar-10

Kuitunen (2010) - biomechanical analysis of the 14th IAAF world indoor championships

		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	1.30	<b>CR / AR</b>		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	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)	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	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	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)	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	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	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)	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	1.38			3.05
	velocity	5.00	8.25	8.33	8.50	8.59	9.42	7.48		8.36
Dektyareva, Tatyana (RUS) (19	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	1.36			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	1.63	<b>PB</b>		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

		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	interval	1.09	1.11	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		interval	1.05	1.01	0.99	0.98	0.98	0.97	1.01	1.03	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		interval	1.07	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 (JAI	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	interval	1.03	0.96	0.97	0.96	0.94	1.02	0.99	0.98	0.97	1.56		2.96	2.92	2.94	
		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
<b>Cherry, Damu (USA) (1977)</b>	0.165	no information available											12.78	3 / 6			
<b>Golding-Clarke, Lacena (JAM)</b>	0.149	no information available											12.78	1 / 7			
<b>Carruthers, Danielle (USA) (19</b>	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													
<b>Felicien, Perdita (CAN) (1980)</b> time	2.46	3.50	4.47	5.44	6.37	7.38	8.36	9.32	10.27	11.29		12.61	4 / 3																
reaction time	0.159	interval													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													
<b>Foster-Hylton, Brigitte (JAM)</b> time	2.60	3.60	4.59	5.56	6.51	7.46	8.43	9.41	10.39	11.40		12.51	4 / 1																
reaction time	0.157	interval													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
<b>Lopes-Schliep, Priscilla (CAN)</b> time	2.56	3.58	4.58	5.57	6.54	7.50	8.47	9.46	10.44	11.46		12.54	6 / 2																
reaction time	0.128	interval													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
<b>Ennis-London, Delloreen (JAM)</b> time	2.60	3.60	4.58	5.54	6.50	7.47	8.44	9.43	10.44	11.46		12.55	8 / 3																
reaction time	0.142	interval													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
<b>O'Rourke, Derval (IRL) (1981)</b> 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	interval													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
<b>McLellan, Sally (AUS) (1986)</b> time	2.55	3.56	4.55	5.52	6.51	7.48	8.46	9.46	10.48	11.51		12.70	7 / 5																
reaction time	0.139	interval													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
<b>Crawford, Virginia (Ginnie) (USA)</b> time	2.60	3.62	4.60	5.56	6.52	7.50	8.50	9.51	10.55	11.63		12.78	2 / 6																
reaction time	0.146	interval													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
<b>Harper, Dawn (USA) (1984)</b> time	2.58	3.58	4.60	5.61	6.60	7.59	8.58	9.60	10.63	11.68		12.81	5 / 7																
reaction time	0.164	interval													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
<b>Felicien, Perdita (CAN)</b>	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													
<b>Harper, Dawn (USA) (1984)</b> 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													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
<b>McLellan, Sally (AUS) (1986)</b> 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													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
<b>O'Rourke, Derval (IRL) (1981)</b> 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													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
<b>Golding-Clark, Lacena (JAM)</b> 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													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
<b>Nytra, Carolin (GER) (1985)</b> 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													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
<b>Berings, Eline (BEL) (1986)</b> 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													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
<b>Foster-Hylton, Brigitte (JAM)</b> 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	8.85	8.50	8.50	8.33	9.72	7.97	8.56	8.85	8.44
<b>Felicien, Perdita (CAN) (1980)</b>	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	8.76	8.85	8.50	8.25	9.72	7.95	8.56	8.76	8.53
<b>Cherry, Danu (USA) (1977)</b>	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
<b>Tejeda, Anay (CUB) (1983)</b>	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
<b>Lopes-Schliep, Priscilla (CAN)</b>	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	8.76	8.59	8.67	8.17	9.72	7.94	8.47	8.73	8.47
<b>Ennis-London, Delloreen (JAM)</b>	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
<b>Crawford, Virginia (Ginnie) (U)</b>	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
<b>Škrobáková, Lucie (CZE) (1982)</b>	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	8.42	8.25	8.17	8.90	7.74	8.42	8.56	8.28
<b>Yanit, Nevin (TUR) (1986)</b>	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
<b>Foster-Hylton, Brigitte (JAM)</b>	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
<b>Felicien, Perdita (CAN) (1980)</b>	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
<b>Tejeda, Anay (CUB) (1983)</b>	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	8.59	8.67	8.42	8.25	8.25	9.37	7.80	8.39	8.61	8.31
<b>Claxton, Sarah (GBR) (1979)</b>	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
<b>Lopes-Schliep, Priscilla (CAN)</b>	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	8.67	8.76	8.10	9.91	7.96		8.50	8.73	8.50
<b>Crawford, Virginia (Ginnie) (U)</b>	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
<b>Yanit, Nevin (TUR) (1986)</b>	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
<b>Vukicevic, Christina (NOR) (1981)</b>	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
<b>McLellan, Sally (AUS) (1986)</b>	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	
<b>O'Rourke, Derval (IRL) (1981)</b>	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	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	
<b>Kondakova, Yuliya (RUS) (198)</b>	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	
<b>Heat 2</b>	date	18-Aug-09	wind	-0.3 m/s	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Cherry, Damu (USA) (1977)</b>	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	
<b>Golding-Clarke, Lacena (JAM)</b>	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	
<b>Nytra, Carolin (GER) (1985)</b>	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	1.07	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	
<b>Heat 1</b>	date	18-Aug-09	wind	0.1 m/s	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Harper, Dawn (USA) (1984)</b>	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	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	
<b>Ennis-London, Delloreen (JAI)</b>	time	2.62	3.64	4.66	5.65	6.63	7.62	8.60	9.60	10.59	11.62		12.73	3 / 2				
	reaction time	0.159	interval	1.02	1.02	0.99	0.98	0.99	0.98	1.00	0.99	1.03	1.11		3.03	2.95	3.02	
	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	
<b>Augustus, Olutoyin (NGR) (1)</b>	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	<b>DV</b>		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	
<b>Heptathlon - Heat 4</b>	date	15-Aug-09	wind	-0.2 m/s	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Nana Djimou, Ida Antoinette (</b>	0.168	no information available											<b>PB</b>	13.44	2 / 1			
<b>Chernova, Tatyana (RUS) (198)</b>	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	
<b>Yosypenko, Lyudmyla (UKR) (</b>	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	<b>PB</b>		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	
<b>Theisen, Brianne (CAN) (1988)</b>	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	<b>PB</b>		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	
<b>De Aniceto, Marisa (FRA) (198)</b>	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	
<b>Tarasova, Yuliya (UZB) (1986)</b>	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	
<b>Heptathlon - Heat 3</b>	date	15-Aug-09	wind	-0.1 m/s	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>													
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Hazel, Louise (GBR) (1985)</b>	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	
<b>Tymińska, Karolina (POL) (197)</b>	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	
<b>Samuelsson, Jessica (SWE) (1)</b>	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	



<b>Mächtigt, Julia (GER) (1986)</b>	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*

<b>Wade, Bettie (USA) (1988)</b>	0.198																	

<b>Schwarzkopf, Lilli (GER) (1983)</b>	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

<b>Dobrynska, Nataliya (UKR) (1981)</b>	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	7.80	7.59	7.52	7.39	8.68	7.22		7.94	7.85	7.50

<b>Day, Sharon (USA) (1985)</b>	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*

<b>Ennis, Jessica (GBR) (1986)</b>	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

<b>Aerts, Sara (BEL) (1988)</b>	0.144																	

<b>Chudzik, Kamila (POL) (1986)</b>	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	8.97	7.41		7.87	8.10	7.97

<b>Pickler, Diana (USA) (1983)</b>	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

<b>Melnychenko, Hanna (UKR) (1981)</b>	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	7.66	8.75	7.35		7.99	7.89	7.70

<b>Oeser, Jennifer (GER) (1983)</b>	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

<b>Wisse, Yvonne (NED) (1982)</b>	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

<b>Grabuste, Aiga (LAT) (1988)</b>	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 *Rees (2009) - wettkampfauswertung 100m hürden - frauen/w.jgd.A+B*

<b>Urech, Lisa (SUI) (1989)</b>	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	1.15	<b>NUR</b>			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 *Winckler (2009) - UK Athletics- National Coaching Conference*

<b>Felicien, Perdita (CAN) (1980)</b>	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 *Winckler (2009) - UK Athletics- National Coaching Conference*

<b>Felicien, Perdita (CAN) (1980)</b>	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 *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
<b>Felicien, Perdita (CAN) (1980)</b> 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

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
<b>Felicien, Perdita (CAN) (1980)</b> 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

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
<b>Felicien, Perdita (CAN) (1980)</b> 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

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
<b>Felicien, Perdita (CAN) (1980)</b> 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

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
<b>Felicien, Perdita (CAN) (1980)</b> 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

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
<b>Felicien, Perdita (CAN) (1980)</b> 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

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
<b>Terada, Asuka (JPN) (1990)</b> 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	<b>NJR / PB</b>		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
<b>Ishino, Mami (JPN) (1983)</b> 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	<b>PB</b>		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
<b>Joshita, Rena (JPN) (1986)</b> 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	<b>PB</b>		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

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
<b>Kumagai, Fumiko (JPN) (1984)</b> 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	<b>PB</b>		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

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
<b>Shimura, Hitomi (JPN) (1990)</b> 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
<b>Kimura, Ayako (JPN) (1988)</b> 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	<b>PB</b>		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

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
<b>Shiba, Risa (JPN) (1981)</b> 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
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**2009 ISTAF (Berlin, GER)****FINAL**

date	14-Jun-09	wind	-0.1 m/s													<i>Graubner (2009) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a></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
<b>Cherry, Damu (USA) (1977)</b>	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
<b>Ennis-London, Delloreen (JAI)</b>	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
<b>Golding-Clarke, Lacena (JAM)</b>	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
<b>Nytra, Carolin (GER) (1985)</b>	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	1.02	1.04	1.04	1.06	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
<b>Vukicevic, Christina (NOR) (19)</b>	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
<b>Lewis, Yvette (USA) (1985)</b>	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
<b>Carruthers, Danielle (USA) (19)</b>	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
<b>Berings, Eline (BEL) (1986)</b>	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
<b>O'Rourke, Derval (IRL) (1981)</b>	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>		
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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
<b>Felicien, Perdita (CAN) (1980)</b>	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
<b>Felicien, Perdita (CAN) (1980)</b>	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													<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
<b>Felicien, Perdita (CAN) (1980)</b>	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													<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
<b>Felicien, Perdita (CAN) (1980)</b>	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													<i>Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season</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
<b>Akai, Suzuka (JPN) (1990)</b>	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													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													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													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													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													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													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) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>		
				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 / <del>4</del>			
	reaction time	0.154												1.08	<b>DV</b>		2.99	2.91	3.01
	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 / <del>2</del> 1			
	reaction time	0.128												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 (JAM)	time			2.59	3.60	4.60	5.59	6.55	7.52	8.50	9.46	10.45	11.45		12.56	7 / <del>3</del> 2			
	reaction time	0.148												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 / <del>4</del> 3			
	reaction time	0.182												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 / <del>5</del> 4			
	reaction time	0.137												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 / <del>6</del> 5			
	reaction time	0.139												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 / <del>7</del> 6			
	reaction time	0.137												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 / <del>8</del> 7			
	reaction time	0.156												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												1.10	<b>PB</b>		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	8.59	8.42	9.55	7.97		8.61	8.67

<b>McLellan, Sally (AUS) (1986)</b>	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
<b>Lopes-Schliep, Priscilla (CAN)</b>	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
<b>Cherry, Damu (USA) (1977)</b>	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
<b>Ennis-London, Delloreen (JAM)</b>	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
<b>Foster-Hylton, Brigitte (JAM)</b>	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
<b>Jones, Lolo (USA) (1982)</b>	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
<b>Claxton, Sarah (GBR) (1979)</b>	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
<b>Cherry, Damu (USA) (1977)</b>	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
<b>Harper, Dawn (USA) (1984)</b>	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
<b>Foster-Hylton, Brigitte (JAM)</b>	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
<b>Claxton, Sarah (GBR) (1979)</b>	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
<b>Dixon, Vonette (JAM) (1975)</b>	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
<b>Okori, Reina-Flor (FRA) (1980)</b>	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
<b>Kallur, Susanna (SWE) (1981)</b>	0.198	no information available											dnf	6 / --			
<b>Tejeda, Anay (CUB) (1983)</b>	0.156	no information available											dnf	9 / --			

## Semi-Final 1

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
<b>Jones, Lolo (USA) (1982)</b>	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
<b>Ennis-London, Delloreen (JAM)</b>	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
<b>Lopes-Schliep, Priscilla (CAN)</b>	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
<b>McLellan, Sally (AUS) (1986)</b>	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
<b>Onyia, Josephine (ESP) (1986)</b>	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	<b>DV</b>	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
<b>Trywiańska-Kollasch, Aurelia</b> (time	2.56	3.69	4.70	5.72	6.73	7.75	8.75	9.76	10.79	11.84			12.96	3 / <del>6</del> 5			
reaction time	0.118	interval	1.13	1.01	1.02	1.01	1.02	1.00	1.01	1.03	1.05	1.12			3.16	3.03	3.09
		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
<b>Nytra, Carolin (GER) (1985)</b> (time	2.60	3.63	4.66	5.67	6.68	7.70	8.73	9.75	10.79	11.87			12.99	2 / <del>7</del> 6			
reaction time	0.144	interval	1.03	1.03	1.01	1.01	1.02	1.03	1.02	1.04	1.08	1.12			3.07	3.06	3.14
		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
<b>Yanit, Nevin (TUR) (1986)</b> (time	2.62	3.68	4.70	5.72	6.73	7.76	8.81	9.87	11.10	12.19			13.28	8 / <del>9</del> 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
<b>Jones, Lolo (USA) (1982)</b> (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
<b>Cherry, Damu (USA) (1977)</b> (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
<b>Harper, Dawn (USA) (1984)</b> (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
<b>Denby, Nichole (USA) (1982)</b> (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	8.33	9.29	7.92	8.70	8.67	8.44	
<b>Davis, Candice (USA) (1985)</b> (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
<b>Crawford, Virginia (Ginnie) (U</b> (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
<b>Hayes, Joanna (USA) (1976)</b> (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
<b>Ishino, Mami (JPN) (1983)</b> (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
<b>Kumagai, Fumiko (JPN) (1984)</b> (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
<b>Terada, Asuka (JPN) (1990)</b> (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
<b>Joshita, Rena (JPN) (1986)</b> (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
<b>Ishino, Mami (JPN) (1983)</b> (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
<b>Kumagai, Fumiko (JPN) (1984)</b> (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) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>				
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
<b>Onyia, Josephine (ESP) (1986)</b>	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	NR		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
<b>Kallur, Susanna (SWE) (1981)</b>	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	0.97	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	
<b>Imura, Kumiko (JPN) (1983)</b>	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
<b>Terada, Asuka (JPN) (1990)</b>	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	
<b>Kawafune, Manami (JPN) (198)</b>	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		wind					Blomkvist (2010) - <a href="http://www.sub13.se">www.sub13.se</a>					
			H1	H2	H3	H4	H5					Run-In	Official Time	Lane / Place	H1-H4
<b>Kallur, Susanna (SWE) (1981)</b>	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	
<b>McLellan, Sally (AUS) (1986)</b>	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
<b>Imura, Kumiko (JPN) (1981)</b>	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) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>				
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
<b>Perry, Michelle (USA) (1979)</b>	time		2.59	3.62	4.62	5.62	6.60	7.58	8.58	9.57	10.56	11.58		12.68	6 / 1				
	reaction time	0.132	interval	1.03	1.00	1.00	0.98	0.98	1.00	0.99	0.99	1.02	1.10			3.03	2.96	3.00	
			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
<b>Onyia, Josephine (ESP) (1986)</b>	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
<b>Ennis-London, Delloreen (JAI)</b>	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
<b>Felicien, Perdita (CAN) (1980)</b>	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
<b>Dixon, Vonette (JAM) (1975)</b>	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
<b>Kallur, Susanna (SWE) (1981)</b>			no information available											DQ	4 /				
<b>Jones, Lolo (USA) (1982)</b>			no information available											DQ	8 /				
<b>McLellan, Sally (AUS) (1986)</b>			no information available											DQ	1 /				

**2007 ISTAF (Berlin, GER) (TV Analysis)****FINAL**

		date	16-Sep-07		wind 0.9 m/s										Graubner (2008) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>				
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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
<b>Kallur, Susanna (SWE) (1981)</b> 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	0.95	0.96	0.99	1.01	1.02	1.14	<b>PB</b>	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

Graubner (2008) - <http://www.fgs.uni-halle.de> (TV Analysis)

## 2007 IAAF World Championships (Osaka, JPN)

### FINAL

date 29-Aug-07 wind -0.1 m/s

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
<b>Perry, Michelle (USA) (1979)</b> 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			Ae (2008)
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
<b>Felicien, Perdita (CAN) (1980)</b> 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			Ae (2008)
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
<b>Ennis-London, Delloreen (JAI)</b> 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			Ae (2008)
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	<b>PB</b>	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
<b>Kallur, Susanna (SWE) (1981)</b> 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			Graubner (2008)
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	<b>PB</b>	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
<b>Crawford, Virginia (Ginnie) (U)</b> 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			Shibayama (2008)
reaction time	0.120	interval	1.02	0.98	0.97	0.95	0.97	0.97	0.98	0.98	1.02	1.16		2.97	2.89	2.98
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
<b>Jones, Lolo (USA) (1982)</b>	0.140	no information available										12.62	2 / 6			
<b>Dixon, Vonette (JAM) (1975)</b>	0.161	no information available										<b>PB</b> 12.64	8 / 7			
<b>Whyte, Angela (CAN) (1980)</b>	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
<b>Perry, Michelle (USA) (1979)</b> 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
<b>Felicien, Perdita (CAN) (1980)</b> 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
<b>Crawford, Virginia (Ginnie) (U)</b> 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
<b>Berings, Eline (BEL) (1986)</b> 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	<b>NR</b>	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
<b>Ishino, Mami (JPN) (1983)</b> 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	1.02	1.05	1.05	1.07	1.08	1.20			3.08	3.10	3.20
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

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
<b>Felicien, Perdita (CAN) (1980)</b> 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	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
<b>Crawford, Virginia (Ginnie) (U)</b> 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

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
<b>Perry, Michelle (USA) (1979)</b> 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

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
<b>Ennis, Delloreen (JAN)</b>	0.152	no information available										<b>CR</b> 12.65	1 / 1			

<b>Felicien, Perdita (CAN) (1980)</b>	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	<b>CR</b>	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
<b>Whyte, Angela (CAN) (1980)</b>	0.167	no information available											12.72	/ 3			
<b>Dixon, Vonette (JAM) (1975)</b>	0.201	no information available											12.86	/ 4			
<b>Tejada, Anay (CUB) (1983)</b>	0.218	no information available											12.95	/ 5			
<b>Adams, Jenny (USA) (1978)</b>	0.225	no information available											13.15	/ 6			
<b>Faustin-Park, Nadine (HAI) (1985)</b>	0.227	no information available											13.26	/ 7			
<b>Lewis, Yvette (USA) (1985)</b>	0.257	no information available											13.69	/ 8			

**Heat 3**

date	24-Jul-07	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
<b>Felicien, Perdita (CAN) (1980)</b>	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	8.76	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	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
<b>Felicien, Perdita (CAN) (1980)</b>	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	Graubner (2007) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Snihur, Yevheniya (UKR) (1985)</b>	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
<b>Lamalle, Adrianna (FRA) (1985)</b>	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
<b>Antonova, Aleksandra (RUS) (1985)</b>	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
<b>Funck, Annette (GER) (1977)</b>	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		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
<b>Redoúmi, Flóra (GRE) (1976)</b>	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
<b>Valadzko, Yauhenia (BLR) (1991)</b>	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	1.03	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
<b>Kocielnik, Joanna (POL) (1983)</b>	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
<b>Troppa, Claudia (ESP) (1985)</b>	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
<b>Crawford, Virginia (Ginnie) (USA) (1979)</b>	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
<b>Perry, Michelle (USA) (1979)</b>	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
<b>Jones, Lolo (USA) (1982)</b>	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
<b>Denby, Nichole (USA) (1982)</b>	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	1.01	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
<b>Cherry, Damu (USA) (1977)</b>	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
<b>Adams, Jenny (USA) (1978)</b>	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
<b>Carruthers, Danielle (USA) (1977)</b>	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
<b>Harper, Dawn (USA) (1984)</b>	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
<b>Carruthers, Danielle (USA) (1977)</b>	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
<b>Trywianska, Aurelia (POL) (1976)</b>	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
<b>Imura, Kumiko (JPN) (1981)</b>	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
<b>Trywianska, Aurelia (POL) (1976)</b>	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
<b>Imura, Kumiko (JPN) (1981)</b>	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		<b>PB</b>		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) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Perry, Michelle (USA) (1979)</b>	time	2.58	3.58	4.57	5.54	6.50	7.48	8.45	9.42	10.42	11.44		12.52	6 / 1			
reaction time 0.135	interval	1.00	0.99	0.97	0.96	0.98	0.97	0.97	1.00	1.02	1.08				2.96	2.91	2.99
	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
<b>Cherry, Damu (USA) (1977)</b>	0.159	no information available											12.56	3 / 2			
<b>Felicien, Perdita (CAN) (1980)</b>	0.136	no information available											12.58	8 / 3			
<b>Kallur, Susanna (SWE) (1981)</b>	0.134	no information available											12.59	4 / 4			
<b>Foster-Hylton, Brigitte (JAM)</b>	0.118	no information available											12.66	5 / 5			
<b>Jones, Lolo (USA) (1982)</b>	0.140	no information available											12.76	1 / 6			
<b>Carruthers, Danielle (USA) (1977)</b>	0.133	no information available											12.89	2 / 7			
<b>Bolm, Kirsten (GER) (1975)</b>	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) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Kallur, Susanna (SWE) (1981)</b>	time	2.57	3.58	4.57	5.54	6.49	7.45	8.43	9.41	10.41	11.44		12.59	/ 1			
reaction time 0.171	interval	1.01	0.99	0.97	0.95	0.96	0.98	0.98	1.00	1.03	1.15				2.97	2.89	3.01
	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
<b>O'Rourke, Derval (IRL) (1981)</b>		no information available											<b>NR</b>	12.72	/ 2		
<b>Bolm, Kirsten (GER) (1975)</b>		no information available												12.72	/ 3		
<b>Alozie, Glory (ESP) (1977)</b>		no information available												12.86	/ 4		
<b>Trywianska, Aurelia (POL) (1976)</b>		no information available												12.90	/ 5		
<b>Antonova, Aleksandra (RUS) (1980)</b>		no information available												12.93	/ 6		
<b>Kallur, Jenny (SWE) (1981)</b>		no information available												12.94	/ 7		
<b>Lamalle, Adrianna (FRA) (1982)</b>		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	
<b>Felicien, Perdita (CAN) (1980)</b>	time	2.60	3.65	4.62	5.62	6.55	7.60	8.54	9.51	10.52	11.54		12.64	/ 1				
	reaction time	interval	1.05	0.97	1.00	0.93	1.05	0.94	0.97	1.01	1.02	1.10			3.02	2.92	3.00	
		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	
<b>Perry, Michelle (USA) (1979)</b>	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	interval	1.02	1.00	0.98	0.98	0.99	0.98	0.97	1.02	1.06			3.00	2.95	2.97	
		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
<b>Jones, Lolo (USA) (1982)</b>	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	interval	0.98	0.97	0.98	0.97	0.98	0.99	1.02	1.04	1.08			2.93	2.92	3.05	
		velocity	4.98	8.67	8.76	8.67	8.76	8.67	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
<b>Ishino, Mami (JPN) (1983)</b>	time	2.52	3.59	4.63	5.67	6.70	7.72	8.77	9.84	10.91	11.99		13.30	/ 1			
	reaction time	interval	1.07	1.04	1.04	1.03	1.02	1.05	1.07	1.07	1.08	1.31			3.15	3.10	3.22
		velocity	5.16	7.94	8.17	8.17	8.25	8.33	8.10	7.94	7.94	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	
<b>Crawford, Virginia (Ginnie) (U)</b>	time	2.54	3.54	4.52	5.47	6.44	7.37	8.38	9.37	10.38	11.46		12.63	4 / 1				
	reaction time	interval	1.00	0.98	0.95	0.97	0.93	1.01	0.99	1.01	1.08	1.17			2.93	2.91	3.08	
		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
<b>Cherry, Damu (USA) (1977)</b>	time	2.60	3.64	4.62	5.61	6.57	7.52	8.56	9.54	10.58	11.56		12.64	3 / 2				
	reaction time	interval	1.04	0.98	0.99	0.96	0.95	1.04	0.98	1.04	0.98	1.08			3.01	2.95	3.00	
		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
<b>Perry, Michelle (USA) (1979)</b>	time	2.60	3.65	4.64	5.57	6.57	7.56	8.53	9.53	10.54	11.57		12.67	6 / 3				
	reaction time	interval	1.05	0.99	0.93	1.00	0.99	0.97	1.00	1.01	1.03	1.10			2.97	2.96	3.04	
		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
<b>Adams, Jenny (USA) (1978)</b>	time	2.60	3.64	4.62	5.61	6.57	7.56	8.54	9.54	10.56	11.61		12.75	5 / 4				
	reaction time	interval	1.04	0.98	0.99	0.96	0.99	0.98	1.00	1.02	1.05	1.14			3.01	2.93	3.07	
		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
<b>Jones, Lolo (USA) (1982)</b>	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	interval	0.95	1.02	0.97	0.98	1.02	0.98	0.95	1.05	1.02	1.15			2.94	2.98	3.02	
		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
<b>Kirkland, Anjanette (USA) (19)</b>	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
<b>Harper, Dawn (USA) (1984)</b>	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
<b>Foster, Ebony (USA) (1983)</b>	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	
<b>Imura, Kumiko (JPN) (1981)</b>	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	<b>PB</b>		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	
<b>Bliss, Andrea (JAM) (1980)</b>	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 (JAM)	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) (1981)	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		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		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		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) (1988)	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		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		1.12	1.08	1.15	1.11	1.12	1.11	1.14	1.12	1.15	1.32	<b>PB</b>		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		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		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) (1988)	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		1.15	1.14	1.12	1.10	1.05	1.23	1.17	1.14	1.16	1.35	<b>PB</b>		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		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	0.7 m/s	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) (1988)	time	2.74	3.83	4.90	5.94	7.01	8.05	9.10	10.17	11.24	12.32		13.47	1 / 1			
	reaction time		1.09	1.07	1.04	1.07	1.04	1.05	1.07	1.07	1.08	1.15	<b>NR</b>		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	0.3 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
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	1.01	0.97	0.95	0.97	0.94	0.96	0.97	0.98	1.01	1.09	<b>OR / PB</b>		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	1.00	1.00	0.96	0.97	0.97	0.96	0.98	0.98	0.99	1.09	<b>PB</b>		2.96	2.90	2.95
	velocity	5.10	8.50	8.50	8.85	8.76	8.76	8.85	8.67	8.67	8.59	9.63	8.03		8.61	8.79	8.64
Morrison-Howard, Melissa (USA) (1988)	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	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) (1981)	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	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) (1988)	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
<b>Whyte, Angela (CAN) (1980)</b>	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
<b>Shevchenko, Irina (RUS) (1975)</b>	0.155	no information available												dnf	6 / --			
<b>Felicien, Perdita (CAN) (1980)</b>	0.167	no information available												dnf	5 / --			

**Semi-Final 2**

date	23-Aug-04	wind	0.0 m/s	<i>Liagonne (2007) - Historique: Le 110m haies en chiffres</i>														
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
<b>Okori, Reina-Flor (FRA) (1980)</b>	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	<b>PB</b>		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	0.5 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	
<b>Felicien, Perdita (CAN) (1980)</b>	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	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	
<b>Felicien, Perdita (CAN) (1980)</b>	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	2.1 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	
<b>Felicien, Perdita (CAN) (1980)</b>	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	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	
<b>Felicien, Perdita (CAN) (1980)</b>	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	0.7 m/s	<i>Graubner (2008) - 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	
<b>Felicien, Perdita (CAN) (1980)</b>	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	<b>NR</b>		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	
<b>Felicien, Perdita (CAN) (1980)</b>	time	2.55	3.55	4.53	5.50	6.47	7.44	8.40	9.41	10.41	11.44			12.60	/ 1			
reaction time		interval	1.00	0.98	0.97	0.97	0.97	0.96	1.01	1.00	1.03	1.16			2.95	2.90	3.04	
		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	
<b>Felicien, Perdita (CAN) (1980)</b>	time	2.59	3.60	4.59	5.54	6.51	7.46	8.46	9.44	10.44	11.44			12.53	4 / 1			
reaction time	0.147	interval	1.01	0.99	0.95	0.97	0.95	1.00	0.98	1.00	1.00	1.09	<b>NR</b>		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

<b>Foster-Hylton, Brigitte (JAM)</b>	0.158	no information available												12.57	5 / 2			
<b>McKelvy-Jones, Miesha (USA)</b>	0.146	no information available												12.67	3 / 3			
<b>Alozie, Glory (ESP) (1977)</b>	0.160	no information available												12.75	1 / 4			
<b>Trywanska-Kollasch, Aurelia (USA) (1978)</b>	0.150	no information available												12.75	7 / 5			
<b>Adams, Jenny (USA) (1978)</b>	0.161	no information available												12.77	6 / 6			
<b>Girard, Patricia (FRA) (1968)</b>	0.152	no information available												12.83	8 / 7			
<b>Golding-Clarke, Lacena (JAM)</b>	0.151	no information available												12.87	2 / 8			
<b>Dixon, Vonette (JAM) (1975)</b>	0.172	no information available												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>													
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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
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		interval	1.09	1.03	1.04	1.03	1.02	1.05	1.05	1.07	1.05	1.25		3.16	3.10	3.17
	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) (1988)	time	2.56	3.65	4.70	5.76	6.81	7.84	8.89	9.96	11.01	12.10		13.36	7 / 2			
	reaction time		interval	1.09	1.05	1.06	1.05	1.03	1.05	1.07	1.05	1.09	1.26		3.20	3.13	3.21
	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		interval	1.09	1.07	1.06	1.07	1.06	1.10	1.06	1.09	1.10	1.31		3.22	3.23	3.25
	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		interval	1.12	1.04	1.07	1.08	1.07	1.08	1.09	1.07	1.11	1.34		3.23	3.23	3.27
	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		interval	1.14	1.11	1.08	1.08	1.12	1.10	1.12	1.10	1.12	1.34		3.33	3.30	3.34
	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		interval	1.13	1.14	1.08	1.10	1.08	1.11	1.10	1.12	1.10	1.33		3.35	3.29	3.32
	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		interval	1.11	1.10	1.08	1.10	1.12	1.15	1.12	1.12	1.11	1.40		3.29	3.37	3.35
	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) (1988)	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		interval	1.14	1.15	1.12	1.06	1.10	1.15	1.12	1.16	1.20	1.38		3.41	3.31	3.48
	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		interval	1.12	1.06	1.10	1.10	1.08	1.10	1.12	1.22	1.51	2.42		3.28	3.28	3.85
	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

USATF Women's Sprint Development (2003)

		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		interval	1.00	1.00	0.97	0.98	0.97	1.00	0.98	1.01	1.00	1.20		2.97	2.95	2.99
	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		interval	1.05	1.00	0.97	1.00	0.95	0.99	0.98	1.00	1.02	1.16		3.02	2.94	3.00
	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		interval	1.02	0.97	0.98	0.98	0.95	0.99	0.99	1.01	1.05	1.19		2.97	2.92	3.05
	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 / <del>5</del>			
	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) (1979)	time	2.50	3.57	4.57	5.59	6.57	7.57	8.56	9.56	10.59	11.63		12.84	2 / <del>6-5</del>			
	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 / <del>7-6</del>			
	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 / <del>8-7</del>			
	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
<b>Foster-Hylton, Brigitte (JAM)</b>	time	2.49	3.49	4.50	5.49	6.49	7.49	8.49	9.50	10.54	11.60		12.82	9 / 2			
reaction time	0.144	interval	1.00	1.01	0.99	1.00	1.00	1.00	1.01	1.04	1.06	1.22		3.00	3.00	3.11	
		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
<b>Alozie, Glory (ESP) (1977)</b>	time	2.51	3.52	4.54	5.55	6.56	7.57	8.58	9.60	10.63	11.67		12.95	7 / 3			
reaction time	0.188	interval	1.01	1.02	1.01	1.01	1.01	1.01	1.02	1.03	1.04	1.28		3.04	3.03	3.09	
		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
<b>Krasovska, Olena (UKR) (1976)</b>	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
<b>Rakotozafy, Rosa (MAD) (197)</b>	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
<b>Laukhova, Svetlana (RUS) (19)</b>	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
<b>Bolm, Kirsten (GER) (1975)</b>	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
<b>Munro, Jacquie (AUS) (1981)</b>	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
<b>Kanazawa, Yvonne (JPN) (197)</b>	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
<b>Alozie, Glory (ESP) (1977)</b>	time	2.62	3.68	4.68	5.67	6.66	7.64	8.64	9.65	10.66	11.65		12.73	/ 1			
reaction time	0.143	interval	1.06	1.00	0.99	0.99	0.98	1.00	1.01	1.01	0.99	1.08			3.05	2.97	3.01
		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
<b>Krasovska, Olena (UKR) (1976)</b>	time	2.62	3.66	4.68	5.68	6.68	7.66	8.68	9.70	10.72	11.77		12.88	/ 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
<b>Kasova, Yana (BUL) (1981)</b>	time	2.69	3.72	4.74	5.74	6.72	7.72	8.72	9.74	10.76	11.80		12.91	/ 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
<b>Girard, Patricia (FRA) (1968)</b>	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	8.17	8.02	8.02	9.29	7.67	8.28	8.39	8.07	
<b>Aron, Haydy (FRA) (1973)</b>	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	1.00	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	8.17	8.17	7.87	9.29	7.66	8.39	8.50	8.07	
<b>Allahgreen, Diane (GBR) (197)</b>	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
<b>Kallur, Susanna (SWE) (1981)</b>	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
<b>Dimitrova, Svetla (BUL) (1970)</b>	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
<b>Alozie, Glory (ESP) (1977)</b>	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



<b>Aron, Haydy (FRA) (1973)</b>	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	1.17	<b>PB</b>		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
<b>Girard, Patricia (FRA) (1968)</b>	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	1.00	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

<b>Krasovska, Olena (UKR) (1976)</b>	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
<b>Dimitrova, Svetla (BUL) (1970)</b>	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

<b>Ferga, Linda (FRA) (1976)</b>	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
<b>Aron, Haydy (FRA) (1973)</b>	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

<b>Krasovska, Olena (UKR) (1976)</b>	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

<b>Lenskiy, Irina (ISR) (1971)</b>	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
<b>Laukhova, Svetlana (RUS) (19)</b>	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

<b>Kasova, Yana (BUL) (1981)</b>	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
<b>Kallur, Susanna (SWE) (1981)</b>	time	2.68	3.72	4.74	5.77	6.77	7.79	8.81	9.83	10.85	11.91		13.01	/ 1			
reaction time	0.160 interval		1.04	1.02	1.03	1.00	1.02	1.02	1.02	1.02	1.06	1.10			3.09	3.04	3.10
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

<b>Alozie, Glory (ESP) (1977)</b>	time	2.69	3.75	4.77	5.77	6.79	7.81	8.81	9.83	10.87	11.92		13.03	/ 2			
reaction time	0.164 interval		1.06	1.02	1.00	1.02	1.02	1.00	1.02	1.04	1.05	1.11			3.08	3.04	3.11
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
<b>Girard, Patricia (FRA) (1968)</b>	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 interval		1.03	1.02	1.02	1.02	1.01	1.03	1.02	1.04	1.04	1.13			3.07	3.06	3.10
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
<b>Bolm, Kirsten (GER) (1975)</b>	time	2.64	3.66	4.68	5.69	6.68		7.97	/ 1	
reaction time	0.129 interval		1.02	1.02	1.01	0.99	1.29	<b>PB</b>		3.05
velocity		4.92	8.33	8.33	8.42	8.59	10.08	7.53		8.36

<b>Hentschke, Nadine (GER) (198)</b>	time	2.62	3.68	4.70	5.73	6.75		8.09	/ 2	
reaction time	0.161 interval		1.06	1.02	1.03	1.02	1.34			3.11
velocity		4.96	8.02	8.33	8.25	8.33	9.70	7.42		8.20

<b>Rehwagen, Corinna (GER) (19)</b>	time	2.66	3.73	4.78	5.82	6.88		8.22	/ 3	
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reaction time	0.149	interval	1.07	1.05	1.04	1.06						1.34		3.16			
		velocity	4.89	7.94	8.10	8.17	8.02					9.70	7.30	8.07			
<b>Braun, Sabine (GER) (1965)</b>	time	2.68	3.74	4.80	5.84	6.88							8.29	/ 4			
reaction time	0.167	interval	1.06	1.06	1.04	1.04						1.41		3.16			
		velocity	4.85	8.02	8.02	8.17	8.17					9.22	7.24	8.07			
<b>Komoll, Jennifer (GER) (1980)</b>	time	2.64	3.76	4.78	5.82	6.89							8.33	/ 5			
reaction time	0.119	interval	1.12	1.02	1.04	1.07						1.44		3.18			
		velocity	4.92	7.59	8.33	8.17	7.94					9.03	7.20	8.02			
<b>Thimm, Annette (GER) (1977)</b>	time	2.78	3.88	4.94	5.98	7.04							8.41	/ 6			
reaction time	0.199	interval	1.10	1.06	1.04	1.06						1.37		3.20			
		velocity	4.68	7.73	8.02	8.17	8.02					9.49	7.13	7.97			

**2001 Chinese National Games (Beijing, CHN)***Huang (2003) - research on the technique of women's 100m hurdles in th 9th national games***FINAL**

date 18-Nov-01 wind 2.2 m/s

*Xu (2007) - comparative study on technical parameters of china & world female 100m hurdlers*

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Su Yiping (CHN) (1979)</b>	time	2.62	3.66	4.65	5.63	6.59	7.57	8.55	9.54	10.56	11.59		12.70	/ 1			<i>Xu (2007)</i>
reaction time	interval	1.04	0.99	0.98	0.96	0.96	0.98	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
<b>Zeng Xiaoling (CHN) (1980)</b>	time	2.60	3.64	4.66	5.68	6.68	7.69	8.71	9.73	10.75	11.79		12.91	/ 3			<i>Huang (2003)</i>
reaction time	interval	1.04	1.02	1.02	1.00	1.01	1.02	1.02	1.02	1.04	1.12				3.08	3.03	3.08
	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
<b>Kirkland, Anjanette (USA) (19'</b>	time	2.60	3.60	4.60	5.56	6.52	7.48	8.41	9.37	10.33	11.33		12.42	1 / 1			
reaction time	0.123	interval	1.00	1.00	0.96	0.96	0.96	0.93	0.96	0.96	1.00	1.09	<b>PB</b>		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
<b>Devers, Gail (USA) (1966)</b>	0.136	no information available											12.54	6 / 2			
<b>Shishigina, Olga (KAZ) (1968)</b>	0.137	no information available											12.58	8 / 3			
<b>Dimitrova, Svetla (BUL) (1970)</b>	0.153	no information available											12.58	3 / 4			
<b>Adams, Jenny (USA) (1978)</b>	time	2.63	3.63	4.59	5.55	6.51	7.47	8.43	9.39	10.45	11.48		12.63	4 / 5			
reaction time	0.148	interval	1.00	0.96	0.96	0.96	0.96	0.96	0.96	1.06	1.03	1.15	<b>PB</b>		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
<b>Rose-Henley, Dionne (JAM) ('</b>	0.131	no information available											12.79	2 / 6			
<b>Ferga, Linda (FRA) (1976)</b>	0.196	no information available											12.80	5 / 7			
<b>Dixon, Vonette (JAM) (1975)</b>	0.140	no information available											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
<b>Devers, Gail (USA) (1966)</b>	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	interval	1.00	0.96	0.96	1.00	1.00	1.00	1.00	1.00	1.03	1.01			2.92	3.00	3.03
	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
<b>Korotyia, Irina (RUS) (1975)</b>	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	interval	1.05	1.03	1.04	0.98	1.04	1.02	0.99	1.08	1.03	1.12			3.12	3.04	3.10
	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
<b>Ferga, Linda (FRA) (1976)</b>	time	2.69	3.75	4.75	5.80	6.76	7.78	8.80	9.83	10.91	11.94		13.10	/ 2			
reaction time	0.249	interval	1.06	1.00	1.05	0.96	1.02	1.02	1.03	1.08	1.03	1.16			3.11	3.00	3.14
	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
<b>Bolm, Kirsten (GER) (1975)</b>	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	interval	1.06	1.04	1.02	1.02	1.01	1.02	1.04	1.03	1.08	1.12			3.12	3.05	3.15
	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
<b>Allahgreen, Diane (GBR) (197'</b>	time	2.62	3.67	4.74	5.79	6.82	7.84	8.90	9.94	11.04	12.07		13.23	/ 4			
reaction time	0.130	interval	1.05	1.07	1.05	1.03	1.02	1.06	1.04	1.10	1.03	1.16			3.17	3.11	3.17
	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
<b>Macchiut, Margaret (ITA) (197'</b>	time	2.69	3.76	4.84	5.87	6.91	7.92	8.96	9.98	11.03	12.10		13.23	/ 5			
reaction time	0.128	interval	1.07	1.08	1.03	1.04	1.01	1.04	1.02	1.05	1.07	1.13			3.18	3.09	3.14
	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
<b>Miklós, Éva (ROU) (1978)</b>	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	interval	1.09	1.05	1.05	1.06	1.06	1.05	1.05	1.10	1.09	1.20			3.19	3.17	3.24

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
<b>Škrobáková, Lucie (CZE) (1982)</b> time	2.64	3.84	4.91	5.98	7.03	8.10	9.18	10.26	11.37	12.49		13.70	/ 7		
reaction time 0.222 interval		1.20	1.07	1.07	1.05	1.07	1.08	1.08	1.11	1.12	1.21		3.34	3.20	3.31
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
<b>Likhuta, Yauhenia (BLR) (1981)</b> time	2.72	3.79	4.90	5.98	7.03	8.16	9.28								
reaction time 0.151 interval		1.07	1.11	1.08	1.05	1.13	1.12					<b>DQ</b>	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	★ ★ ★ ★ ★ ★ ★ ★ ★ ★										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Shishigina, Olga (KAZ) (1968)</b> time	0.237	no information available											12.65	7 / 1					
<b>Alozie, Glory (NGR) (1977)</b> time	0.217	no information available											12.68	3 / 2					
<b>Morrison, Melissa (USA) (1971)</b> time	0.180	no information available											12.76	6 / 3					
<b>Ennis-London, Delloreen (JAI) (1969)</b> time	0.156	no information available											12.80	8 / 4					
<b>López, Aliuska (CUB) (1969)</b> time	0.179	no information available											12.83	1 / 5					
<b>Ramalalanirina, Nicole (FRA) (1976)</b> time	0.194	no information available											12.91	4 / 6					
<b>Ferga, Linda (FRA) (1976)</b> time	0.294	no information available											13.11	2 / 7					
<b>Foster, Brigitte (JAM) (1974)</b> time	0.217	no information available											13.49	3 / 8					

## 2000 ISTAF (Berlin, GER)

## FINAL

date	01-Sep-00	wind	-0.2 m/s	★ ★ ★ ★ ★ ★ ★ ★ ★ ★										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Alozie, Glory (NGR) (1977)</b> time		2.58	3.62	4.62	5.61	6.61	7.60	8.60	9.60	10.58	11.56		12.66	/ 1					
reaction time 0.235 interval			1.04	1.00	0.99	1.00	0.99	1.00	1.00	0.98	0.98	1.10			3.03	2.99	2.96		
velocity		5.04	8.17	8.50	8.59	8.50	8.59	8.50	8.50	8.67	8.67	9.55	7.90		8.42	8.53	8.61		
<b>Morrison, Melissa (USA) (1971)</b> time		2.58	3.61	4.61	5.60	6.58	7.55	8.54	9.56	10.56	11.57		12.67	/ 2					
reaction time 0.183 interval			1.03	1.00	0.99	0.98	0.97	0.99	1.02	1.00	1.01	1.10			3.02	2.94	3.03		
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		
<b>Shishigina, Olga (KZK) (1968)</b> 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 interval			1.02	1.00	0.99	0.99	1.00	0.99	1.01	1.00	1.03	1.09			3.01	2.98	3.04		
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		
<b>Ennis-London, Delloreen (JAI) (1969)</b> 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 interval			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		
<b>Kirkland, Anjanette (USA) (1974)</b> time			no information available											12.97	/ 5				
<b>Ovcharova-Krasovska, Olena (UKR) (1976)</b> time			no information available											13.04	/ 6				
<b>Manning, Valerie (USA) (1968)</b> time			no information available											13.23	/ 7				
<b>Sprenger, Juliane (GER) (1977)</b> time		2.66	3.72	4.76	5.80	6.83	7.88	8.93					13.39	/ 8					
reaction time 0.166 interval			1.06	1.04	1.04	1.03	1.05	1.05							3.14	3.13			
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	★ ★ ★ ★ ★ ★ ★ ★ ★ ★										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Devers, Gail (USA) (1966)</b> 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	<b>AR</b>		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		
<b>Alozie, Glory (NGR) (1977)</b> 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	<b>AR / =PB</b>		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		
<b>Engquist, Ludmila (SWE) (1966)</b> 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	<b>NR</b>		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		
<b>Shishigina, Olga (KZK) (1968)</b> 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		
<b>Dimitrova, Svetla (BUL) (1970)</b> 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		
<b>Rose, Dionne (JAM) (1969)</b> 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		



<b>Ennis-London, Delloreen (JAI)</b>	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
<b>Girard, Patricia (FRA) (1968)</b>	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
<b>Devers, Gail (USA) (1966)</b>	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	0.99	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
<b>Shishigina, Olga (KZK) (1968)</b>	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	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
<b>Rose, Dionne (JAM) (1969)</b>	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	1.16			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
<b>Dimitrova, Svetla (BUL) (1970)</b>	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	1.18			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
<b>López, Aliuska (CUB) (1969)</b>	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	1.21			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
<b>Koroty, Irina (RUS) (1975)</b>	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	1.21			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
<b>Ramalalanirina, Nicole (FRA) (1968)</b>	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	1.20			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
<b>Kulawansa-Fonseka, Sriyani (SRI) (1975)</b>	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	1.21			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
<b>Engquist, Ludmila (SWE) (1966)</b>	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	1.20			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
<b>Alozie, Glory (NGR) (1977)</b>	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	1.22			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
<b>Girard, Patricia (FRA) (1968)</b>	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	1.26			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
<b>Ennis-London, Delloreen (JAI) (1968)</b>	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	1.23			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
<b>Roberts, Trecia (THA) (1971)</b>	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	1.25	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
<b>Laukhova, Svetlana (RUS) (1975)</b>	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	1.25			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
<b>Graudyn, Yuliya (RUS) (1970)</b>	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	1.28			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
<b>Feng Yun (CHN) (1976)</b>	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	1.30			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

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
<b>Engquist, Ludmila (SWE) (1966)</b> 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	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

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
<b>Devers, Gail (USA) (1966)</b> 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	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

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
<b>Alozie, Glory (NGR) (1977)</b> 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	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

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
<b>Engquist, Ludmila (SWE) (1966)</b> 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	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

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
<b>Alozie, Glory (NGR) (1977)</b> 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	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

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
<b>Devers, Gail (USA) (1966)</b> 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	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

Mann (1998) - usatf elite sprint &amp; hurdle summit

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Morrison, Melissa (USA) (71)</b> 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		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

Sanchez (1998) - Budapest '98: 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
<b>Dimitrova, Svetla (BUL) (1970)</b> 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		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
<b>Bukovec, Brigita (SLO) (1970)</b> 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		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
<b>Korotya, Irina (RUS) (1975)</b> 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		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
<b>Ramalalalirina, Nicole (FRA) (*)</b> 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		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
<b>Girard, Patricia (FRA) (1968)</b> 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		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
<b>Blaßneck, Heike (GER) (1971)</b> 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		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
<b>Baumann, Julie (SUI) (1964)</b> 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		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
<b>Ferga, Linda (FRA) (1976)</b> 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
<b>Mardomingo, Maria Jose (ESP)</b>	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
<b>Azcárate, Nerea (ESP) (1974)</b>	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
<b>Ingelmo, Sandra (ESP) (1978)</b>	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
<b>Rodríguez, Jessica (ESP) (197)</b>	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
<b>Fraguas, Raquel (ESP) (1976)</b>	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
<b>Clopes, Imma (ESP) (1968)</b>	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
<b>Siles, Isabel (ESP) (1973)</b>	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
<b>Engquist, Ludmila (SWE) (196)</b>	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
<b>Dimitrova, Svetla (BUL) (1970)</b>	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
<b>Freeman, Michelle (JAM) (1966)</b>	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
<b>Bukovec, Brigita (SLO) (1970)</b>	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
<b>Rose, Dionne (JAM) (1969)</b>	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
<b>Anderson, Katie (CAN) (1968)</b>	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
<b>Laukhova, Svetlana (RUS) (19)</b>	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
<b>Girard, Patricia (FRA) (1968)</b>													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
<b>Laukhova, Svetlana (RUS) (19)</b>	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
<b>Girard, Patricia (FRA) (1968)</b>	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
<b>Thorp, Angela (GBR) (1972)</b>	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
<b>Tuzzi, Carla (ITA) (1967)</b>	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
<b>Kuchma, Oksana (UKR) (1973)</b>	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
<b>Nastase, Liliana (ROU) (1962)</b>	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
<b>Voronkova, Nelli (BLR) (1972)</b>	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
<b>Blaßneck, Heike (GER) (1971)</b>	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
<b>Walker, Astia (JAM) (1975)</b>	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	<b>PB</b>		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
<b>Engquist, Ludmila (SWE) (1966)</b>	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	1.19			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
<b>Bukovec, Brigita (SLO) (1970)</b>	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	<b>NR</b>	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
<b>Girard-Leno, Patricia (FRA) (1966)</b>	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	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	8.59	8.50	8.67	8.10	8.17	8.68	7.91		8.42	8.56	8.31
<b>Devers, Gail (USA) (1966)</b>	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	1.18			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
<b>Rose, Dionne (JAM) (1969)</b>	time	2.47	3.50	4.52	5.50	6.50	7.48	8.48	9.47	10.50	11.52		12.74	2 / 5			
	reaction time	0.179	interval	1.03	1.02	0.98	1.00	0.98	1.00	0.99	1.03	1.02	1.22		3.03	2.98	3.04
	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
<b>Freeman, Michelle (JAM) (1966)</b>	time	2.44	3.46	4.44	5.44	6.40	7.39	8.38	9.42	10.45	11.49		12.76	4 / 6			
	reaction time	0.181	interval	1.02	0.98	1.00	0.96	0.99	0.99	1.04	1.03	1.04	1.27		3.00	2.94	3.11
	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
<b>Shekhodanova, Nataliya (RUS) (1966)</b>	time	2.45	3.50	4.48	5.45	6.43	7.44	8.46	9.47	10.51	11.51		12.80	1 / <del>7</del>			
	reaction time	0.160	interval	1.05	0.98	0.97	0.98	1.01	1.02	1.01	1.04	1.29	<b>DV</b>		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
<b>Tolbert-Goode, Lynda (USA) (1977)</b>	time	2.43	3.50	4.52	5.52	6.55	7.58	8.62	9.65	10.72	11.80		13.11	7 / <del>8-7</del>			
	reaction time	0.175	interval	1.07	1.02	1.00	1.03	1.03	1.04	1.03	1.07	1.08	1.31		3.09	3.10	3.18
	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
<b>Calloway, Dominqué (USA) (1977)</b>	time	2.50	3.63	4.69	5.72	6.73	7.75	8.79	9.82	10.87	11.93		13.28	5 / 1			
	reaction time	interval	1.13	1.06	1.03	1.01	1.02	1.04	1.03	1.05	1.06	1.35			3.22	3.07	3.14
	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
<b>Bates, Joyce (USA) (1977)</b>	time	2.46	3.60	4.63	5.63	6.70	7.73	8.79	9.88	10.95	12.01		13.42	4 / 2			

reaction time	interval	1.14	1.03	1.00	1.07	1.03	1.06	1.09	1.07	1.06	1.41			3.17	3.16	3.22	
	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	
<b>Merriman, Donica (USA) (1979)</b>	time	2.51	3.67	4.73	5.78	6.85	7.95	9.05	10.16	11.27	12.42		13.87	6 / 3			
reaction time	interval		1.16	1.06	1.05	1.07	1.10	1.10	1.11	1.11	1.15	1.45	<b>PB</b>		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
<b>Adams, Jenny (USA) (1978)</b>	time	2.58	3.68	4.75	5.83	6.93	8.05	9.15	10.29	11.43	12.57		14.06	3 / 4			
reaction time	interval		1.10	1.07	1.08	1.10	1.12	1.10	1.14	1.14	1.14	1.49			3.25	3.32	3.42
	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
<b>Williams, Camee (USA) (1980)</b>	time	2.57	3.73	4.83	5.91	7.02	8.14	9.29	10.46	11.63	12.80		14.31	8 / 5			
reaction time	interval		1.16	1.10	1.08	1.11	1.12	1.15	1.17	1.17	1.17	1.51			3.34	3.38	3.51
	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
<b>Bethel, Ashley (USA) (1980)</b>	time	2.60	3.78	4.85	5.97	7.11	8.22	9.41	10.58	11.75	12.91		14.48	7 / 6			
reaction time	interval		1.18	1.07	1.12	1.14	1.11	1.19	1.17	1.17	1.16	1.57			3.37	3.44	3.50
	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
<b>Williams, Michelle (USA) (1978)</b>	time	2.63	3.81	4.98	6.11	7.20	8.41	9.58	10.73	11.89	13.07		14.56	2 / 7			
reaction time	interval		1.18	1.17	1.13	1.09	1.21	1.17	1.15	1.16	1.18	1.49			3.48	3.47	3.49
	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
<b>Kamani, Nzingah (USA) (1978)</b>	time	2.67	3.80	4.98									dnf	1 / --			
reaction time	interval		1.13	1.18													
	velocity	4.87	7.52	7.20													

## 1996 ??? (Lisboa, POR)

## FINAL

date	29-Jun-96	wind	3.0 m/s	<i>Coh (1998) - a biomechanical model of the 100m hurdles of birgita bukovec</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Bukovec, Brigita (SLO) (1970)</b>	time	2.59	3.63	4.65	5.65	6.64	7.62	8.60	9.60	10.62	11.66		12.76	1 / 1			
reaction time	interval		1.04	1.02	1.00	0.99	0.98	0.98	1.00	1.02	1.04	1.10			3.06	2.95	3.06
	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	<i>USATF Women's Sprint Development (1996)</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Devers, Gail (USA) (1966)</b>	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 interval		1.02	1.00	0.98	0.98	0.97	0.99	1.00	1.02	1.10	1.30			3.00	2.94	3.12
	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
<b>Tolbert-Goode, Lynda (USA)</b>	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 interval		1.07	1.03	1.01	0.98	0.98	1.00	0.97	1.02	1.01	1.38			3.11	2.96	3.00
	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
<b>Dickey, Cheryl (USA) (1966)</b>	time	2.36	3.43	4.40	5.40	6.36	7.33	8.32	9.32	10.33	11.36		12.76	6 / 3			
reaction time	interval		1.07	0.97	1.00	0.96	0.97	0.99	1.00	1.01	1.03	1.40			3.04	2.92	3.04
	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
<b>Bowles, Dawn (USA) (1968)</b>	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
<b>Lawson, Tonya (USA) (1969)</b>	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	<b>PB</b>		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
<b>Stanley-Boutte, Tananjaly (U)</b>	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
<b>Carson, Kim (USA) (1974)</b>	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
<b>Morrison, Melissa (USA) (1971)</b>	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
<b>Jung, Caren (GER) (1968)</b>	time	2.60	3.62	4.64	5.64	6.66	7.68	8.70	9.74	10.82	11.88		13.05	1 / 1			
reaction time	interval		1.02	1.02	1.00	1.02	1.02	1.02	1.04	1.08	1.06	1.17	<b>=PB ???</b>		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	1.04	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	8.02	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	8.02	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	8.02	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	<i>Graubner (2008) - 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			
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			2.90	2.92	3.04			
			velocity	4.96	8.50	8.95	8.95	8.95	8.67	8.59	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) (1966)	0.118	no information available												PB	12.67	5 / 3					
Lopez, Aliuska (CUB) (1969)	0.187	no information available												NR	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	<i>Hücklekemkes (1997) - geschwindigkeitstabellen vereinfachen die auswertung von hürdensprints</i>																
			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	<i>Hücklekemkes (1997) - geschwindigkeitstabellen vereinfachen die auswertung von hürdensprints</i>																
			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														
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Patoulidou, Voula (GRE) (1965)</b>			no information available										<b>NR</b>	12.64	5 / 1			
<b>Martin, LaVonna (USA) (1966)</b>			no information available											12.69	4 / 2			
<b>Donkova, Yordanka (BUL) (1961)</b>			no information available											12.70	6 / 3			
<b>Tolbert-Goode, Lynda (USA) (1967)</b>			no information available											12.75	3 / 4			
<b>Devers-Roberts, Gail (USA) (1966)</b>			no information available											12.75	2 / 5			
<b>Lopez, Aliuska (CUB) (1969)</b>			no information available											12.87	7 / 6			
<b>Kolovanova, Natalya (EUN) (1964)</b>			no information available											13.01	8 / 7			
<b>Adams, Odalys (CUB) (1966)</b>			no information available											13.57	1 / 8			

**Quarter-Final 3**

	date	05-Aug-92	wind	-0.7 m/s															<i>Lyle - miscellaneous coaching notes</i>
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Devers-Roberts, Gail (USA) (1 time)</b>	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															<i>Lyle - miscellaneous coaching notes</i>
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Tolbert-Goode, Lynda (USA) (1 time)</b>	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															<i>Lyle - miscellaneous coaching notes</i>
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Martin, LaVonna (USA) (1966) time</b>	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															<i>Lyle - miscellaneous coaching notes</i>
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Tolbert-Goode, Lynda (USA) (1 time)</b>	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															<i>Lyle - miscellaneous coaching notes</i>
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Martin, LaVonna (USA) (1966) time</b>	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															<i>Lyle - miscellaneous coaching notes</i>
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Donkova, Yordanka (BUL) (19 time)</b>	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															<i>Lyle - miscellaneous coaching notes</i>
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Devers-Roberts, Gail (USA) (1 time)</b>	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															<i>Lyle - miscellaneous coaching notes</i>
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Engquist-Narozhilenko, Ludm</b>	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															<i>Numazawa (1991) - analysis of time in the 3rd world athletics championships, women's 100m hurdles</i>
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Engquist-Narozhilenko, Ludm</b>	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	
<b>Devers, Gail (USA) (1966) time</b>	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	
<b>Grigoryeva, Natalya (URS) (19 time)</b>	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

<b>Éwanjé-Épée, Monique (FRA)</b>	0.150	no information available												12.84	3 / 4
<b>Baumann, Julie (SUI) (1964)</b>	0.152	no information available												12.88	2 / 5
<b>Colle, Florence (FRA) (1965)</b>	0.165	no information available												13.01	1 / 6
<b>López, Aliuska (CUB) (1969)</b>	0.168	no information available												13.06	8 / 7
<b>Patzwahl, Kristin (GER) (1965)</b>	0.155	no information available												13.07	7 / 8

**Heat 5**

date	29-Aug-91	wind	0.5 m/s	<i>Numazawa (1991) - analysis of time in the 3rd world athletics championships, women's 100m hurdles</i>													
		<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Sasaki, Ayumi (JPN) (1967)</b>	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	<i>Stepanov (2004) - speed and (or?) technique: gail devers and others (in Jarver (ed) - the hurdles, 2004)</i>													
		<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Narozhilenko, Ludmila (URS)</b>	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	0.98	0.96	0.98	0.98	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	<i>Federle (2003) - http://www.fgs.uni-halle.de</i>													
		<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Narozhilenko, Lyudmila (URS)</b>	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	0.98	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
<b>Ewanjé-Épée, Monique (FRA)</b>	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	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	8.59	8.50	8.59	8.50	8.33	9.13	7.82	8.36	8.53	8.47	
<b>Patzwahl, Kristin (GER) (1965)</b>	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	1.02	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
<b>Pogacian, Mihaela (ROU) (1956)</b>	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	1.03	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	8.25	8.17	8.47	7.59	7.59	8.15	8.33	8.25
<b>Skeete, Lesley-Ann (GBR) (1961)</b>	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	1.18			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
<b>Włodarczyk, Urszula (POL) (1965)</b>													13.66	1 / 6			
<b>Bálint, Zita (HUN) (1971)</b>													14.12	1 / 7			
<b>Stoyanova, Yordanka (BUL) (1956)</b>													17.79	1 / 8			

**1989 IAAF World Cup (Barcelona, ESP)****FINAL**

date	09-Sep-89	wind	-0.3 m/s	<i>Gill (1990) - atletismo (I) carreras y marcha</i>													
		<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Oschkenat, Cornelia (GDR) (1956)</b>	time	2.55	3.59	4.58	5.56	6.52	7.50	8.51	9.50	10.51	11.53		12.60	1 / 1			
	reaction time		interval	1.04	0.99	0.98	0.96	0.98	1.01	0.99	1.01	1.02	1.07		3.01	2.95	3.02
		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
<b>Narozhilenko, Ludmila (URS)</b>	time	2.64	3.66	4.66	5.66	6.66	7.66	8.69	9.70	10.72	11.76		12.80	1 / 2			
	reaction time		interval	1.02	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	8.25	8.42	8.33	8.17	10.10	7.81	8.44	8.42	8.31	
<b>Tolbert, Lynda (USA) (1967)</b>	time	2.57	3.61	4.62	5.64	6.64	7.65	8.68	9.69	10.72	11.77		12.86	1 / 3			
	reaction time		interval	1.04	1.01	1.02	1.00	1.01	1.03	1.01	1.03	1.05	1.09		3.07	3.04	3.09
		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
<b>Adams, Odalys (CUB) (1966)</b>													12.86	1 / 4			
<b>Zaczkiewicz, Claudia (FRG) (1962)</b>													12.96	1 / 5			
<b>Liu Huajin (CHN) (1960)</b>													13.43	1 / 6			
<b>Mardomingo, María José (ESP)</b>	time	2.71	3.78	4.85	5.93	7.01	8.14	9.26	10.38	11.48	12.58		13.76	1 / 7			
	reaction time		interval	1.07	1.07	1.08	1.08	1.13	1.12	1.12	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
<b>Azzizi, Yasmina (ALG) (1966)</b>													13.99	1 / 8			
<b>Pirovano, Helen (NZL)</b>													14.91	1 / 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	
<b>Donkova, Yordanka (BUL) (19)</b>	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	8.67
<b>Siebert, Gloria (GDR) (1964)</b>	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	8.85	8.50	8.50	8.50	9.13	7.93		8.56	8.85	8.50
<b>Zackiewicz, Claudia (FRG) (19)</b>	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	
<b>Grigoryeva, Natalya (URS) (19)</b>	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	
<b>Colle, Florence (FRA) (1965)</b>	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	
<b>Rocheleau-Baumann, Julie (C)</b>	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	8.17	8.97	7.70		8.33	8.28	8.17
<b>Ewanjé-Epée, Monique (FRA)</b>	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	1.00	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	
<b>Oschenat, Cornelia (GDR) (19)</b>	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
<b>Oschenat, Cornelia (GDR) (19)</b>	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
<b>Zackiewicz, Claudia (FRG) (19)</b>	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
<b>Grigoryeva, Natalya (URS) (19)</b>	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
<b>Ewanjé-Epée, Monique (FRA)</b>	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
<b>Olyslager, Marjan (NED) (1962)</b>	time	2.59	3.65	4.69	5.70	6.70	7.73	8.75	9.79	10.86	11.93		13.08	8 / 5			
	reaction time	0.131	interval	1.06	1.04	1.01	1.00	1.03	1.02	1.04	1.07	1.07	1.15		3.11	3.05	3.18
	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
<b>Gunnell, Sally (GBR) (1966)</b>	time	2.72	3.81	4.87	5.91	6.95	7.95	8.97	9.99	11.01	12.04		13.13	2 / 6			
	reaction time	0.182	interval	1.09	1.06	1.04	1.04	1.00	1.02	1.02	1.02	1.03	1.09		3.19	3.06	3.07
	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
<b>Humphrey, Jacqueline (USA)</b>	time	2.67	3.79	4.89	5.96	7.03	8.10	9.16	10.23	11.29	12.39		13.59	1 / 7			
	reaction time	0.181	interval	1.12	1.10	1.07	1.07	1.06	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
<b>Narozhilenko, Lyudmila (EUN)</b>	time	2.67	3.71	4.71	5.70	6.67	7.65	8.63	9.63	10.63			dnf	5 / --			
	reaction time	0.163	interval	1.04	1.00	0.99	0.97	0.98	0.98	1.00	1.00				3.03	2.93	
	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 1

date 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
<b>Donkova, Yordanka (BUL) (19)</b>	time	2.56	3.60	4.58	5.57	6.53	7.49	8.45	9.44	10.45	11.45		12.58	6 / 1			
	reaction time	0.171	interval	1.04	0.98	0.99	0.96	0.96	0.99	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	8.85	8.59	8.42	8.50	9.29	7.95		8.47	8.85
<b>Siebert, Gloria (GDR) (1964)</b>	time	2.60	3.62	4.61	5.61	6.57	7.53	8.49	9.49	10.49	11.49		12.60	3 / 2			
	reaction time	0.182	interval	1.02	0.99	1.00	0.96	0.96	0.96	1.00	1.00	1.00	1.11		3.01	2.88	3.00



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
<b>Rocheleau-Baumann, Julie (C)</b> 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
interval														8.23	8.42	8.25
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				
<b>Colle, Florence (FRA) (1965)</b> 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
interval														8.17	8.50	8.31
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				
<b>Knabe, Kerstin (GDR) (1959)</b> 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
interval														8.20	8.44	8.39
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				
<b>Skeete, Lesley-Ann (GBR) (191)</b> 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
interval														8.15	8.28	7.97
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				
<b>Martin, LaVonna (USA) (1966)</b> 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
interval														8.12	8.17	7.97
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				
<b>Devers-Roberts, Gail (USA) (1)</b> 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
interval														7.68	8.04	7.87
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				

## 1988 (Stara Zagova, BUL)

## FINAL

date	20-Aug-88	wind	0.7 m/s	<i>Vazel (2016) - Analysis of Keni Harrison's World Record 100m Hurdles Race</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Donkova, Yordanka (BUL) (19)</b> time	2.50	3.49	4.42	5.34	6.24	7.19	8.16	9.14	10.11	11.14		12.21	1 / 1				
reaction time		interval	0.99	0.93	0.92	0.90	0.95	0.97	0.98	0.97	1.03	1.07	WR		2.84	2.82	2.98
interval															8.98	9.04	8.56
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					

## 1987 Chinese National Games (Guangzhou, CHN)

## FINAL

date	25-Nov-87	wind	??	<i>Xia (1990) - analysis of Liu Huajin's technical features in breaking the Asian 100m hurdles record</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Liu Huajin (CHN) (1960)</b> time	2.55	3.62	4.58	5.58	6.62	7.66	8.68	9.71	10.73	11.77		12.89	1 / 1				
reaction time		interval	1.07	0.96	1.00	1.04	1.04	1.02	1.03	1.02	1.04	1.12	AR		3.03	3.10	3.09
interval															8.42	8.23	8.25
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					

## Semi-Final 2

date	25-Nov-87	wind	-0.3 m/s	<i>Xia (1990) - analysis of Liu Huajin's technical features in breaking the Asian 100m hurdles record</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Du Juan (CHN) (1968)</b> time	2.57	3.57	4.62	5.66	6.70	7.72	8.76	9.80	10.85	11.97		13.17	1 / 2				
reaction time		interval	1.00	1.05	1.04	1.04	1.02	1.04	1.04	1.05	1.12	1.20	PB		3.09	3.10	3.21
interval															8.25	8.23	7.94
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					

## 1987 IAAF World Championships (Rome, ITA)

## FINAL

date	04-Sep-87	wind	-0.5 m/s	<i>Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Zagorcheva, Ginka (BUL) (195)</b> 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
interval															8.64	8.73	8.79
velocity	5.18	8.42	8.76	8.76	8.67	8.76	8.76	8.85	8.76	8.76	8.76	8.10					
<b>Uibel-Siebert, Gloria (GDR) (1)</b> 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	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	
interval															8.70	8.73	8.73
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					
<b>Riefstahl-Oschkenat, Cornelia</b> 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
interval															8.61	8.73	8.56
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					
<b>Donkova, Yordanka (RUL) (1961)</b>												12.49	3 / 4				
<b>Piquereau, Anne (FRA) (1964)</b>												12.82	1 / 5				
<b>Elloy-Machabey, Laurence (FRA) (1959)</b>												12.83	8 / 6				
<b>Zaczkiwicz, Claudia (FRG) (1962)</b>												12.98	2 / 7				
<b>Martin, LaVonna (USA) (1966)</b>												13.06	7 / 8				

## Semi-Final 2

date	04-Sep-87	wind	-0.9 m/s	<i>Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics</i>													
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Uibel-Siebert, Gloria (GDR) (1)</b> 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
interval															8.56	8.76	8.47
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					
<b>Zagorcheva, Ginka (BUL) (195)</b> 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
interval															7.82	9.24	8.31
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					

## Semi-Final 1

date 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 4

date 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 3

date 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 1

date 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) (1) 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) (19) 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) (196) 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) (19) 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	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) (19)	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	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)	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 Junior 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)	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)	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)	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	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)	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)	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)	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)	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)	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-Épée, Monique (FRA)	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



<b>Kaftandjan, Isabelle (FRA) (19</b>	time	2.66	3.72	4.78	5.81	6.84			8.24	<b>/4</b>	
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

<b>Chardonnet, Michèle (FRA) (1</b>	time	2.67	3.75	4.80	5.84	6.86			8.26	<b>/5</b>	
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

<b>Sallaz, Christine (FRA) (1961)</b>	time	2.70	3.82	4.90	5.93	6.99			8.34	<b>/6</b>	
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
<b>Piquereau, Anne (FRA) (1964)</b>	time	2.67	3.74	4.76	5.76	6.78		8.13	<b>/1</b>	
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

<b>Elloy, Laurence (FRA) (1959)</b>	time	2.68	3.76	4.78	5.78	6.79			8.15	<b>/2</b>	
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

<b>Ewanjé-Epée, Monique (FRA)</b>	time	2.62	3.69	4.73	5.74	6.78			8.19	<b>/3</b>	
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

<b>Kaftandjan, Isabelle (FRA) (19</b>	time	2.69	3.76	4.83	5.85	6.90			8.30	<b>/1</b>	
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

<b>Chardonnet, Michèle (FRA) (1</b>	time	2.71	3.78	4.84	5.90	6.92			8.42	<b>/2</b>	
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

<b>Sallaz, Christine (FRA) (1961)</b>	time	2.71	3.80	4.84	5.87	6.90			8.28	<b>/3</b>	
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

<b>Grimont, Corinne (FRA) (1963)</b>	time	2.82	3.87	4.93	5.97	6.99			8.51	<b>/4</b>	
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

<b>Sena, Françoise (FRA)</b>	time	2.74	3.83	4.91	5.94	6.98			8.40	<b>/5</b>	
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

<b>Truwant, Véronique (FRA) (19</b>	time	2.67	3.78	4.88	5.93	7.01			8.46	<b>/6</b>	
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
<b>Piquereau, Anne (FRA) (1964)</b>	time	2.60	3.68	4.73	5.75	6.79		8.23	<b>/1</b>	
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

<b>Elloy, Laurence (FRA) (1959)</b>	time	2.63	3.70	4.75	5.76	6.80			8.27	<b>/2</b>	
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

<b>Ewanjé-Epée, Monique (FRA)</b>	time	2.63	3.70	4.74	5.77	6.78			8.19	<b>/3</b>	
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

<b>Kaftandjan, Isabelle (FRA) (19</b>	time	2.68	3.77	4.78	5.83	6.87			8.30	<b>/1</b>	
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

<b>Chardonnet, Michèle (FRA) (1</b>	time	2.69	3.78	4.86	5.92	6.96			8.42	<b>/2</b>	
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

<b>Sallaz, Christine (FRA) (1961)</b>	time	2.66	3.75	4.84	5.91	6.95			8.36	<b>/3</b>	
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

<b>Grimont, Corinne (FRA) (1963)</b>	time	2.73	3.80	4.88	5.92	6.98			8.38	<b>/4</b>	
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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	8.33
<b>Piquereau, Anne (FRA) (1964)</b> 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	8.20

**1984 Olympic Games (Los Angeles, CA)****FINAL**

date 10-Aug-84 wind 0.7 m/s

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Fitzgerald-Brown, Benita (US)</b> time	0.153	no information available										12.84	4 / 1			
<b>Strong, Shirley (GBR) (1958)</b> time	0.171	no information available										12.88	7 / 2			
<b>Turner, Kim (USA) (1961)</b> time	0.163	no information available										13.06	6 / 3			
<b>Chardonnet, Michèle (FRA) (1961)</b> time	0.183	no information available										13.06	5 / 3			
<b>Nunn, Glynis (AUS) (1960)</b> time	0.164	no information available										13.20	1 / 5			
<b>Savigny, Marie-Noëlle (FRA) (1961)</b> time	0.159	no information available										13.28	8 / 6			
<b>Denk, Ulrike (FRG) (1964)</b> time	0.158	no information available										13.32	3 / 7			
<b>Page, Pamela (USA) (1958)</b> time	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

*Breiser (1985) - over the hurdles with vera akimova and nadezdha korshunova*

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Akimova, Vera (URS) (1959)</b> 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 interval	0.170	1.00	1.00	0.96	0.98	0.98	0.96	1.00	1.00	1.04	1.03			2.96	2.92	3.04
velocity	5.08	8.50	8.50	8.85	8.67	8.67	8.85	8.50	8.50	8.17	10.19	7.99		8.61	8.73	8.39
<b>Korshunova, Nadezhda (URS)</b> time	2.54	3.60	4.60	5.60	6.60	7.60	8.60	9.60	10.64	11.70		12.72	/ 2			
reaction time interval	0.170	1.06	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.06	1.02			3.06	3.00	3.10
velocity	5.12	8.02	8.50	8.50	8.50	8.50	8.50	8.50	8.17	8.02	10.29	7.86		8.33	8.50	8.23

**1983 IAAF World Championships (Helsinki, FIN)****FINAL**

date 13-Aug-83 wind 2.4 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
<b>Jahn, Bettine (GDR) (1958)</b> 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 interval	0.154	0.99	1.04	0.88	0.97	0.90	0.94	0.96	1.05	0.94	1.16			2.91	2.81	2.95
velocity	5.16	8.59	8.17	9.66	8.76	9.44	9.04	8.85	8.10	9.04	9.05	8.10		8.76	9.07	8.64
<b>Knabe, Kerstin (GDR) (1959)</b> 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 interval	0.115	0.97	1.02	1.01	0.88	0.92	0.96	1.00	0.87	1.08	1.05			3.00	2.76	2.95
velocity	4.89	8.76	8.33	8.42	9.66	9.24	8.85	8.50	9.77	7.87	10.00	8.05		8.50	9.24	8.64
<b>Zagorcheva, Ginka (BUL) (1955)</b> 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 interval	0.117	1.06	1.01	0.98	0.94	0.94	0.94	1.08	0.94	1.03	1.18			3.05	2.82	3.05
velocity	5.16	8.02	8.42	8.67	9.04	9.04	9.04	7.87	9.04	8.25	8.90	7.92		8.36	9.04	8.36
<b>Petrova, Natalya (URS) (1957)</b> time		no information available										12.67	8 / 4			
<b>Strong, Shirley (GBR) (1958)</b> time		no information available										12.78	2 / 5			
<b>Biserovala, Yelena (URS) (1962)</b> time		no information available										12.80	5 / 6			
<b>Riefstahl-Oschkenat, Cornelia (GDR) (1961)</b> time		no information available										12.94	7 / 7			
<b>Fitzgerald-Brown, Benita (USA) (1961)</b> time		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
<b>Nunn-Cearns, Glynis (AUS) (1961)</b> 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
<b>Nunn-Cearns, Glynis (AUS) (1961)</b> 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
<b>Jahn, Bettine (GDR) (1958)</b> 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 olympiazklus 1981/84*

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Kalek, Lucyna (POL) (1956)</b> 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		<i>Ballreich (1986) - biomechanik der sprarten- Band 1- biomechanik der leichtathletik</i>									
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kalek, 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		<i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>									
		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		<i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>									
		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
Kemenchzhi, 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		<i>McFarlane (1988) - the science of hurdling</i>									
		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			
Rabsztyn, 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		???		<i>Balachničiv (1981) - Periodisierung und Zyklisierung des Trainings 1978/79- Hürdenläuferinnen der Spitzenklasse der UdSSR</i>									
		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

<b>Lebedeva, Natalya (URS) (1946)</b>	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
<b>Litovchenko, Irina (URS) (1956)</b>	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	
<b>LaPlante, Deby (USA) (1953)</b>	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	
<b>Lane, Sharon (CAN)</b>		no information available											13.56	/ 2				
<b>Machado, Grisel (CUB) (1959)</b>		no information available											13.60	/ 3				
<b>Young, Candy (USA) (1962)</b>	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	
<b>Young, Candy (USA) (1962)</b>	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	
<b>LaPlante, Deby (USA) (1953)</b>	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	
<b>Schaller-Klier, Johanna (GDR)</b>	time	2.69				6.52							12.62	4 / 1				
reaction time	interval					3.83												
	velocity	4.83				8.88							7.92					
<b>Anisimova, Tatiana (URS) (1949)</b>		no information available											PB	12.67	5 / 2			
<b>Berend, Gudrun (GDR) (1955)</b>		no information available											PB	12.73	1 / 3			
<b>Morgulina, Nina (URS) (1956)</b>	time	2.67				6.56							12.86	3 / 4				
reaction time	interval					3.89												
	velocity	4.87				8.74							7.78					
<b>Langer, Lucyna (POL) (1956)</b>		no information available												12.98	8 / 5			
<b>Fiedler, Annerose (GDR) (1951)</b>		no information available												13.09	6 / 6			
<b>Rabszty, Elzbieta (POL) (1956)</b>		no information available												13.17	7 / 7			

**1976 Olympic Games (Montreal, CAN)****FINAL**

date	29-Jul-76	wind	0.0 m/s															Ilyin (1979) - successes of women hurdlers
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
<b>Schaller-Klier, Johanna (GDR)</b>	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	8.33	
<b>Anisimova, Tatyana (URS) (1949)</b>	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			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	8.56	
<b>Lebedeva, Natalya (URS) (1946)</b>	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			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	8.44	
<b>Berend, Gudrun (GDR) (1955)</b>	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	8.39	
<b>Rabszty, Grazyna (POL) (1952)</b>		no information available												12.96	2 / 5			
<b>Shkhamorov-Rot, Esther (ISR) (1952)</b>		no information available												13.04	6 / 6			
<b>Bufano-Stefanescu, Valeria (ROU) (1946)</b>		no information available												13.35	4 / 7			
<b>Ongar, Ileana (ITA) (1950)</b>		no information available												13.51	7 / 8			

## 1975 International "Pravda" Sportfest (Sotschi, URS)

## FINAL

		date	29-May-75	wind	??	Artyschenko (1977) - zwischen den hürden geht es um die sekunde, teil 2													
				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) (1945)	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	1.03	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) (1945)	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	Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften													
				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	interval						4.38						7.08					
	velocity							5.10						7.49	7.14				
Bretz, Heide-Lore (FRG) (1955)	time			2.58				7.06							14.15	/ 7			
	reaction time	interval						4.48						7.09					
	velocity							5.04						7.48	7.07				

## 1973 East German National Championships (Dresden, GDR)

## FINAL

		date	22-Jul-73	wind	1.5 m/s	Tepper (1978) - Analyse der trainingsgestaltung und leistungsentwicklung in den sprintdisziplinen der M und F der DVfL													
				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) (1951)	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	0.98	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	Kay (1972) - BAAB Munich Technical Report													
				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) (1951)	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	1.0	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) (1942)	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	1.0	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	7.73	9.55	7.75		7.97	8.50	8.23
Kilborn-Ryan, Pam (AUS) (1938)	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)															13.17	1 / 5			
Strazynska, Danuta (POL) (1942)															13.18	8 / 6			
Krumpholz, Annerose (GDR) (1951)															13.27	2 / 7			
Rabsztyn, Grazyna (POL) (1952)															13.44	4 / 8			

## Heat 3

		date	04-Sep-72	wind	0.6 m/s	Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften													
				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							7.40				

## Heat 2

		date	04-Sep-72	wind	-0.6 m/s	Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften													
				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							7.24				

## Heat 1

		date	04-Sep-72	wind	0.0 m/s	Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften													
				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shakharov, Esther (ISR) (1938)	time			2.5				6.7							13.17	2 / 4			
	reaction time	interval						4.2											
	velocity							5.26							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								10.6	4 / 4					
	reaction time																				
	interval													3.50	(10.62)						
	velocity						6.83							6.86	9.43						
Yoda, Ikuko (JPN) (1938)	time						3.8								10.7	6 / 5					
	reaction time																				
	interval													3.50	(10.72)						
	velocity						7.37							6.86	9.35						
Piatkowska, Maria (POL) (1931)	time						4.1								10.7	8 / 6					
	reaction time																				
	interval													3.50	(10.76)						
	velocity						6.83							6.86	9.35						
Stamejčić, Draga (YUG) (1937)	time						4.3								10.8	5 / 7					
	reaction time																				
	interval													3.50	(10.86)						
	velocity						6.51							6.86	9.26						
Bonds, Rosie (USA) (1946)	time						4.1								10.8	1 / 8					
	reaction time																				
	interval													3.30	(10.88)						
	velocity						6.83							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								10.7	/ 2			
	reaction time																		
	interval													3.40	(10.72)				
	velocity						6.36							7.06	9.35				
Piatkowska, Maria (POL) (1931)	time						4.3								10.7	/ 4			
	reaction time																		
	interval													3.40	(10.73)				
	velocity						6.51							7.06	9.35				
Bystrova, Galina (URS) (1934)	time						4.2								10.8	/ 6			
	reaction time																		
	interval													3.50	(10.89)				
	velocity						6.67							6.86	9.26				

**Semi-Final 1**

	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
Kilborn, Pam (AUS) (1939)	time						4.2								10.6	/ 1			
	reaction time																		
	interval													3.50	=OR	(10.69)			
	velocity						6.67							6.86	9.43				
Press, Irina (URS) (1939)	time						4.3								10.8	/ 3			
	reaction time																		
	interval													3.60	(10.85)				
	velocity						6.51							6.67	9.26				
Bonds, Rosie (USA) (1946)	time						4.2								10.8	/ 4			
	reaction time																		
	interval													3.60	(10.87)				
	velocity						6.67							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)			
Signal, 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)		
Desforges, 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, Evelyne (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)	no information available									11.8	7 / 4			
Webb, Violet (GBR) (1915)	no information available				7 steps					11.9	6 / 5			
Wilson, Alda (CAN) (1910)	no information available				9 steps					12.0	5 / 6			