

Women's 100m Hurdles Touchdown Times - by athlete

LAST UPDATE: 15-Oct-24

Abdul-Rashid, Mariam (CAN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympc Games - Results Book (2024)</i>					
date	09-Aug-24	time	2.42	3.46	4.45	5.41	6.37	7.33	8.30	9.28	10.30	11.32		12.60	3 / 5			
reaction time	0.133	interval		1.04	0.99	0.96	0.96	0.96	0.97	0.98	1.02	1.02	1.28	PB		2.99	2.89	3.02
wind	0.5 m/s	velocity	5.37	8.17	8.59	8.85	8.85	8.85	8.76	8.67	8.33	8.33	7.85	7.94		8.53	8.82	8.44
Heat 3 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympc Games - Results Book (2024)</i>					
date	07-Aug-24	time	2.47	3.52	4.53	5.52	6.50	7.47	8.44	9.44	10.46	11.51		12.80	2 / 5			
reaction time	0.149	interval		1.05	1.01	0.99	0.98	0.97	0.97	1.00	1.02	1.05	1.29			3.05	2.92	3.07
wind	0.8 m/s	velocity	5.26	8.10	8.42	8.59	8.67	8.76	8.76	8.50	8.33	8.10	7.79	7.81		8.36	8.73	8.31
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)													<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>					
date	04-Feb-24	time	2.55	3.57	4.57	5.60	6.62							8.06	1 / 8			
reaction time	0.125	interval		1.02	1.00	1.03	1.02						1.44	PB		3.05		
		velocity	5.10	8.33	8.50	8.25	8.33						9.03	7.44		8.36		
Abe, Haruka (JPN) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Japanese National Championships (Nagoya, JPN)													<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>					
date	26-Jun-16	time	2.59	3.68	4.74	5.76	6.82	7.89	8.94	10.01	11.10	12.20		13.38	4 / 2			
reaction time	0.122	interval		1.09	1.06	1.02	1.06	1.07	1.05	1.07	1.09	1.10	1.18			3.17	3.18	3.26
wind	2.1 m/s	velocity	5.02	7.80	8.02	8.33	8.02	7.94	8.10	7.94	7.80	7.73	8.90	7.47		8.04	8.02	7.82
Adachi, Karen (JPN) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
A FINAL - 2018 National Sports Festival (Fukui, JPN)													<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>					
date	08-Oct-18	time	2.75	3.82	4.89	5.96	7.02	8.07	9.14	10.24	11.33	12.45		13.64	6 / 5			
reaction time	0.145	interval		1.07	1.07	1.07	1.06	1.05	1.07	1.10	1.09	1.12	1.19	=PB		3.21	3.18	3.31
wind	2.5 m/s	velocity	4.73	7.94	7.94	7.94	8.02	8.10	7.94	7.73	7.80	7.59	8.82	7.33		7.94	8.02	7.70
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)													<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data</i>					
date	02-Aug-18	time	2.71	3.80	4.87	5.92	6.99	8.07	9.15	10.23	11.32	12.44		13.64	4 / 2			
reaction time		interval		1.09	1.07	1.05	1.07	1.08	1.08	1.08	1.09	1.12	1.20	PB		3.21	3.23	3.29
wind	-0.3 m/s	velocity	4.80	7.80	7.94	8.10	7.94	7.87	7.87	7.87	7.80	7.59	8.75	7.33		7.94	7.89	7.75
Adams, Jenny (USA) (1978)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 USATF National Championships (Indianapolis, IN)													<i>USATF Men's Hurdle Development (2007)</i>					
date	23-Jun-07	time	2.67	3.69	4.70	5.69	6.71	7.70	8.73	9.73	10.76	11.81		12.96	1 / 6			
reaction time		interval		1.02	1.01	0.99	1.02	0.99	1.03	1.00	1.03	1.05	1.15			3.02	3.04	3.08
wind	-1.3 m/s	velocity	4.87	8.33	8.42	8.59	8.33	8.59	8.25	8.50	8.25	8.10	9.13	7.72		8.44	8.39	8.28
FINAL - 2006 USATF National Championships (Indianapolis, IN)													<i>USATF Women's Hurdle Development (2006)</i>					
date	24-Jun-06	time	2.60	3.64	4.62	5.61	6.57	7.56	8.54	9.54	10.56	11.61		12.75	5 / 4			
reaction time		interval		1.04	0.98	0.99	0.96	0.99	0.98	1.00	1.02	1.05	1.14			3.01	2.93	3.07
wind	-0.4 m/s	velocity	5.00	8.17	8.67	8.59	8.85	8.59	8.67	8.50	8.33	8.10	9.21	7.84		8.47	8.70	8.31
FINAL - 2003 USATF National Championships (Palo Alto, CA)													<i>USATF Women's Sprint Development (2003)</i>					
date	22-Jun-03	time	2.55	3.57	4.54	5.52	6.50	7.45	8.44	9.43	10.44	11.49		12.68	7 / 3			
reaction time		interval		1.02	0.97	0.98	0.98	0.95	0.99	0.99	1.01	1.05	1.19			2.97	2.92	3.05
wind	-0.1 m/s	velocity	5.10	8.33	8.76	8.67	8.67	8.95	8.59	8.59	8.42	8.10	8.82	7.89		8.59	8.73	8.36
FINAL - 2001 IAAF World Championships (Edmonton, CAN)													<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>					
date	11-Aug-01	time	2.63	3.63	4.59	5.55	6.51	7.47	8.43	9.39	10.45	11.48		12.63	4 / 5			
reaction time	0.148	interval		1.00	0.96	0.96	0.96	0.96	0.96	0.96	1.06	1.03	1.15	PB		2.92	2.88	3.05
wind	2.0 m/s	velocity	4.94	8.50	8.85	8.85	8.85	8.85	8.85	8.85	8.02	8.25	9.13	7.92		8.73	8.85	8.36
FINAL - 1996 USATF National Junior Championships (Delaware, OH)													<i>USATF Women's Sprint Development (1996)</i>					
date	29-Jun-96	time	2.58	3.68	4.75	5.83	6.93	8.05	9.15	10.29	11.43	12.57		14.06	3 / 4			
reaction time		interval		1.10	1.07	1.08	1.10	1.12	1.10	1.14	1.14	1.14	1.49			3.25	3.32	3.42
wind	-2.5 m/s	velocity	5.04	7.73	7.94	7.87	7.73	7.59	7.73	7.46	7.46	7.46	7.05	7.11		7.85	7.68	7.46
Aidanpää, Ida (FIN) (1988)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2011 Landskamp FIN-SWE-NOR (Tammefors, FIN)													<i>Blomkvist (2011) - www.sub13.se</i>					
date	05-Feb-11	time	2.56	3.66	4.72	5.76	6.80							8.43	1 / 6			
reaction time		interval		1.10	1.06	1.04	1.04						1.63			3.20		
		velocity	5.08	7.73	8.02	8.17	8.17						7.98	7.12		7.97		
Akai, Suzuka (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2009 Mikio Oda Memorial (Hiroshima, JPN)													<i>Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season</i>					
date	29-Apr-09	time	2.55	3.67	4.75	5.81	6.86	7.92	9.00	10.10	11.21	12.34		13.72	1 / 2			
reaction time		interval		1.12	1.08	1.06	1.05	1.06	1.08	1.10	1.11	1.13	1.38			3.26	3.19	3.34
wind	2.1 m/s	velocity	5.10	7.59	7.87	8.02	8.10	8.02	7.87	7.73	7.66	7.52	7.61	7.29		7.82	7.99	7.63

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Akimova, Vera (URS) (1959)																	
FINAL - 1984 USSR National Championships (Kiev, URS)											<i>Breiser (1985) - over the hurdles with vera akimova and nadezdha korshunova</i>						
date	22-Jun-84	time	2.56	3.56	4.56	5.52	6.50	7.48	8.44	9.44	10.44	11.48	12.51	1 / 1			
reaction time	0.170	interval		1.00	1.00	0.96	0.98	0.98	0.96	1.00	1.00	1.04	1.03		2.96	2.92	3.04
wind	-0.5 m/s	velocity	5.08	8.50	8.50	8.85	8.67	8.67	8.85	8.50	8.50	8.17	10.19	7.99	8.61	8.73	8.39
Akobundu, Madeleine (USA) (1998)																	
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)											<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>						
date	12-Jun-21	time	2.53	3.57	4.57	5.57	6.56	7.54	8.54	9.54	10.58	11.64	12.90	1 / 5			
reaction time	0.196	interval		1.04	1.00	1.00	0.99	0.98	1.00	1.00	1.04	1.06	1.26		3.04	2.97	3.10
wind	0.4 m/s	velocity	5.14	8.17	8.50	8.50	8.59	8.67	8.50	8.50	8.17	8.02	7.98	7.75	8.39	8.59	8.23
Ali, Nia (USA) (1988)																	
FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis)											<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>						
date	07-Jul-24	time	2.55	3.55	4.55	5.52	6.48	7.45	8.42	9.40	10.40	11.43	12.58	3 / 5			
reaction time	0.149	interval		1.00	1.00	0.97	0.96	0.97	0.97	0.98	1.00	1.03	1.15		2.97	2.90	3.01
wind	1.6 m/s	velocity	5.10	8.50	8.50	8.76	8.85	8.76	8.76	8.67	8.50	8.25	8.74	7.95	8.59	8.79	8.47
Heat 2 - 2024 FBK Games (Hengelo, NED)											<i>Omega Timing (2024) - continental tour gold race analysis</i>						
date	07-Jul-24	time	2.37	3.45	4.46	5.47	6.45	7.46	8.47	9.48	10.50	11.53	12.78	5 / 3			
reaction time	0.127	interval		1.08	1.01	1.01	0.98	1.01	1.01	1.01	1.02	1.03	1.25		3.10	3.00	3.06
wind	0.3 m/s	velocity	5.49	7.87	8.42	8.42	8.67	8.42	8.42	8.42	8.33	8.25	8.04	7.82	8.23	8.50	8.33
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)											<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>						
date	30-Jun-24	time	2.50	3.51	4.48	5.46	6.42	7.37	8.32	9.31	10.28	11.27	12.37	2 / 4			
reaction time		interval		1.01	0.97	0.98	0.96	0.95	0.95	0.99	0.97	0.99	1.10		2.96	2.86	2.95
wind	0.7 m/s	velocity	5.20	8.42	8.76	8.67	8.85	8.95	8.95	8.59	8.76	8.59	9.14	8.08	8.61	8.92	8.64
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)											<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>						
date	29-Jun-24	time	2.54	3.56	4.54	5.52	6.49	7.47	8.44	9.42	10.41	11.42	12.55	1 / 3			
reaction time		interval		1.02	0.98	0.98	0.97	0.98	0.97	0.98	0.99	1.01	1.13		2.98	2.92	2.98
wind	0.8 m/s	velocity	5.12	8.33	8.67	8.67	8.76	8.67	8.76	8.67	8.59	8.42	8.89	7.97	8.56	8.73	8.56
FINAL - 2024 Prefontaine Classic (Eugene, OR)											<i>Omega Timing (2024) - diamond league race analysis</i>						
date	25-May-24	time	2.47	3.52	4.53	5.52	6.51	7.50	8.50	9.50	10.52	11.54	12.80	7 / 8			
reaction time	0.187	interval		1.05	1.01	0.99	0.99	0.99	1.00	1.00	1.02	1.02	1.26		3.05	2.98	3.04
wind	-0.9 m/s	velocity	5.26	8.10	8.42	8.59	8.59	8.59	8.50	8.50	8.33	8.33	7.98	7.81	8.36	8.56	8.39
FINAL - 2024 Millrose Games (New York, NY) (TV Analysis)											<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>						
date	11-Feb-24	time	2.54	3.58	4.60	5.58	6.56						7.95	3 / 6			
reaction time	0.174	interval		1.04	1.02	0.98	0.98						1.39		3.04		
		velocity	5.12	8.17	8.33	8.67	8.67						9.35	7.55	8.39		
FINAL - 2023 Prefontaine Classic (Eugene, OR)											<i>Omega Timing (2023) - diamond league race analysis</i>						
date	17-Sep-23	time	2.44	3.48	4.47	5.45	6.42	7.39	8.36	9.35	10.35	11.36	12.62	2 / 7			
reaction time	0.153	interval		1.04	0.99	0.98	0.97	0.97	0.97	0.99	1.00	1.01	1.26		3.01	2.91	3.00
wind	1.8 m/s	velocity	5.33	8.17	8.59	8.67	8.76	8.76	8.76	8.59	8.50	8.42	7.98	7.92	8.47	8.76	8.50
FINAL - 2023 Weltklasse (Zürich, SUI)											<i>Omega Timing (2023) - diamond league race analysis</i>						
date	31-Aug-23	time	2.45	3.50	4.50	5.49	6.47	7.45	8.43	9.42	10.44	11.47	12.75	4 / 7			
reaction time	0.165	interval		1.05	1.00	0.99	0.98	0.98	0.98	0.99	1.02	1.03	1.28		3.04	2.94	3.04
wind	-0.2 m/s	velocity	5.31	8.10	8.50	8.59	8.67	8.67	8.67	8.59	8.33	8.25	7.85	7.84	8.39	8.67	8.39
FINAL - 2023 World Athletics Championships (Budapest, HUN)											<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>						
date	24-Aug-23	time	2.54	3.61	4.64	5.66	6.66	7.64	8.64	9.64	10.64	11.68	12.78	3 / 8			
reaction time	0.159	interval		1.07	1.03	1.02	1.00	0.98	1.00	1.00	1.00	1.04	1.10		3.12	2.98	3.04
wind	-0.2 m/s	velocity	5.12	7.94	8.25	8.33	8.50	8.67	8.50	8.50	8.50	8.17	9.14	7.82	8.17	8.56	8.39
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)											<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>						
date	23-Aug-23	time	2.53	3.53	4.52	5.49	6.45	7.42	8.39	9.37	10.35	11.35	12.49	6 / 2			
reaction time	0.156	interval		1.00	0.99	0.97	0.96	0.97	0.97	0.98	0.98	1.00	1.14		2.96	2.90	2.96
wind	-0.4 m/s	velocity	5.14	8.50	8.59	8.76	8.85	8.76	8.76	8.67	8.67	8.50	8.82	8.01	8.61	8.79	8.61
Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)											<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>						
date	22-Aug-23	time	2.54	3.54	4.54	5.53	6.50	7.48	8.46	9.46	10.45	11.43	12.55	5 / 1			
reaction time	0.142	interval		1.00	1.00	0.99	0.97	0.98	0.98	1.00	0.99	0.98	1.12		2.99	2.93	2.97
wind	0.0 m/s	velocity	5.12	8.50	8.50	8.59	8.76	8.67	8.67	8.50	8.59	8.67	8.97	7.97	8.53	8.70	8.59
FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)											<i>Omega Timing (2023) - diamond league race analysis</i>						
date	21-Jul-23	time	2.40	3.42	4.39	5.35	6.30	7.25	8.20	9.15	10.13	11.11	12.30	5 / 1			
reaction time	0.153	interval		1.02	0.97	0.96	0.95	0.95	0.95	0.95	0.98	0.98	1.19	PB	2.95	2.85	2.91
wind	0.6 m/s	velocity	5.42	8.33	8.76	8.85	8.95	8.95	8.95	8.95	8.67	8.67	8.45	8.13	8.64	8.95	8.76

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

date	16-Jul-23	time	2.40	3.42	4.39	5.33	6.28	7.24	8.22	9.21	10.19	11.18	12.38	6 / 3			
reaction time	0.162	interval		1.02	0.97	0.94	0.95	0.96	0.98	0.99	0.98	0.99	1.20		2.93	2.89	2.96
wind	0.9 m/s	velocity	5.42	8.33	8.76	9.04	8.95	8.85	8.67	8.59	8.67	8.59	8.37	8.08	8.70	8.82	8.61

FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	08-Jul-23	time	2.51	3.53	4.50	5.47	6.42	7.36	8.31	9.28	10.27	11.26	12.37	4 / 1			
reaction time		interval		1.02	0.97	0.97	0.95	0.94	0.95	0.97	0.99	0.99	1.11		2.96	2.84	2.95
wind	0.4 m/s	velocity	5.18	8.33	8.76	8.76	8.95	9.04	8.95	8.76	8.59	8.59	9.05	8.08	8.61	8.98	8.64

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

date	30-Jun-23	time	2.45	3.51	4.53	5.54	6.53	7.52	8.52	9.53	10.54	11.57	12.83	2 / 6			
reaction time	0.154	interval		1.06	1.02	1.01	0.99	0.99	1.00	1.01	1.01	1.03	1.26		3.09	2.98	3.05
wind	-1.4 m/s	velocity	5.31	8.02	8.33	8.42	8.59	8.59	8.50	8.42	8.42	8.25	7.98	7.79	8.25	8.56	8.36

FINAL - 2023 FBK Games (Hengelo, NED)*Omega Timing (2023) - continental tour race analysis*

date	04-Jun-23	time	2.40	3.45	4.45	5.45	6.43	7.41	8.39	9.38	10.37	11.37	12.61	5 / 1			
reaction time	0.156	interval		1.05	1.00	1.00	0.98	0.98	0.98	0.99	0.99	1.00	1.24		3.05	2.94	2.98
wind	0.2 m/s	velocity	5.42	8.10	8.50	8.50	8.67	8.67	8.67	8.59	8.59	8.50	8.10	7.93	8.36	8.67	8.56

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

date	27-May-23	time	2.58	3.62	4.60	5.58	6.58	7.54	8.52	9.52	10.52	11.52	12.65	3 / 7			
reaction time	0.185	interval		1.04	0.98	0.98	1.00	0.96	0.98	1.00	1.00	1.00	1.13		3.00	2.94	3.00
wind	-0.2 m/s	velocity	5.04	8.17	8.67	8.67	8.50	8.85	8.67	8.50	8.50	8.50	8.89	7.91	8.50	8.67	8.50

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

date	05-May-23	time	2.56	3.60	4.58	5.56	6.52	7.50	8.48	9.46	10.46	11.48	12.69	3 / 3			
reaction time	0.167	interval		1.04	0.98	0.98	0.96	0.98	0.98	0.98	1.00	1.02	1.21		3.00	2.92	3.00
wind	1.1 m/s	velocity	5.08	8.17	8.67	8.67	8.85	8.67	8.67	8.67	8.50	8.33	8.31	7.88	8.50	8.73	8.50

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

date	08-Sep-22	time	2.47	3.50	4.50	5.47	6.44	7.44	8.41	9.41	10.42	11.44	12.67	3 / 6			
reaction time	0.163	interval		1.03	1.00	0.97	0.97	1.00	0.97	1.00	1.01	1.02	1.23		3.00	2.94	3.03
wind	-0.3 m/s	velocity	5.26	8.25	8.50	8.76	8.76	8.50	8.76	8.50	8.42	8.33	8.17	7.89	8.50	8.67	8.42

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

date	26-Aug-22	time	2.47	3.50	4.50	5.49	6.44	7.41	8.39	9.37	10.35	11.37	12.59	7 / 4			
reaction time	0.182	interval		1.03	1.00	0.99	0.95	0.97	0.98	0.98	0.98	1.02	1.22		3.02	2.90	2.98
wind	-0.9 m/s	velocity	5.26	8.25	8.50	8.59	8.95	8.76	8.67	8.67	8.67	8.33	8.24	7.94	8.44	8.79	8.56

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

date	08-Aug-22	time	2.47	3.50	4.52	5.50	6.46	7.43	8.43	9.43	10.43	11.43	12.60	6 / 3			
reaction time	0.138	interval		1.03	1.02	0.98	0.96	0.97	1.00	1.00	1.00	1.00	1.17		3.03	2.93	3.00
wind	2.4 m/s	velocity	5.26	8.25	8.33	8.67	8.85	8.76	8.50	8.50	8.50	8.50	8.59	7.94	8.42	8.70	8.50

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

date	23-Jul-22	time	2.46	3.46	4.46	5.44	6.42	7.40	8.38	9.36	10.34	11.53	dnf	5 / --			
reaction time	0.130	interval		1.00	1.00	0.98	0.98	0.98	0.98	0.98	0.98	1.19	DQ		2.98	2.94	3.15
wind	-0.3 m/s	velocity	5.28	8.50	8.50	8.67	8.67	8.67	8.67	8.67	8.67	7.14			8.56	8.67	8.10

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

date	30-Jun-22	time	2.48	3.50	4.47	5.43	6.43	7.40	8.37	9.33	10.34	11.34	12.53	6 / 3			
reaction time	0.160	interval		1.02	0.97	0.96	1.00	0.97	0.97	0.96	1.01	1.00	1.19		2.95	2.94	2.97
wind	-0.5 m/s	velocity	5.24	8.33	8.76	8.85	8.50	8.76	8.76	8.85	8.42	8.50	8.45	7.98	8.64	8.67	8.59

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

date	09-Jun-22	time	2.49	3.50	4.50	5.48	6.46	7.45	8.44	9.43	10.43	11.47	12.71	6 / 3			
reaction time	0.153	interval		1.01	1.00	0.98	0.98	0.99	0.99	0.99	1.00	1.04	1.24		2.99	2.96	3.03
wind	0.1 m/s	velocity	5.22	8.42	8.50	8.67	8.67	8.59	8.59	8.59	8.50	8.17	8.10	7.87	8.53	8.61	8.42

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

date	28-May-22	time	2.46	3.48	4.50	5.50	6.50	7.50	8.50	9.52	10.52	11.55	12.77	7 / 7			
reaction time	0.144	interval		1.02	1.02	1.00	1.00	1.00	1.00	1.02	1.00	1.03	1.22		3.04	3.00	3.05
wind	-0.7 m/s	velocity	5.28	8.33	8.33	8.50	8.50	8.50	8.50	8.33	8.50	8.25	8.24	7.83	8.39	8.50	8.36

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

date	25-Jan-20	time	2.57	3.62	4.60	5.60	6.58						7.94	4 / 1			
reaction time		interval		1.05	0.98	1.00	0.98						1.36		3.03		
		velocity	5.06	8.10	8.67	8.50	8.67						9.56	7.56	8.42		

Heat 1 - 2020 New Balance Indoor Grand Prix (Boston, MA)*PrimeTime Timing (2020) - <https://results.nbindoorgandprix.com/>*

date	25-Jan-20	time	2.57	3.62	4.62	5.63	6.62						7.99	5 / 1			
reaction time		interval		1.05	1.00	1.01	0.99						1.37		3.06		

	velocity	5.06	8.10	8.50	8.42	8.59						9.49	7.51		8.33				
FINAL - 2019 IAAF World Championships (Doha, QAT)																<i>CAA Hurdle Development (2019)</i>			
date	06-Oct-19	time	2.43	3.44	4.41	5.37	6.32	7.28	8.23	9.19	10.19	11.16		12.34	4 / 1				
reaction time	0.155	interval		1.01	0.97	0.96	0.95	0.96	0.95	0.96	1.00	0.97	1.18	PB		2.94	2.86	2.93	
wind	0.3 m/s	velocity	5.35	8.42	8.76	8.85	8.95	8.85	8.95	8.85	8.50	8.76	8.52	8.10		8.67	8.92	8.70	
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)																<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	06-Oct-19	time	2.42	3.42	4.40	5.36	6.32	7.30	8.26	9.24	10.22	11.22		12.44	7 / 2				
reaction time	0.150	interval		1.00	0.98	0.96	0.96	0.98	0.96	0.98	0.98	1.00	1.22	PB		2.94	2.90	2.96	
wind	1.0 m/s	velocity	5.37	8.50	8.67	8.85	8.85	8.67	8.85	8.67	8.67	8.50	8.24	8.04		8.67	8.79	8.61	
Heat 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)																<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>			
date	05-Oct-19	time	2.36	3.38	4.38	5.36	6.34	7.30	8.28	9.26	10.26	11.28		12.59	7 / 1				
reaction time	0.157	interval		1.02	1.00	0.98	0.98	0.96	0.98	0.98	1.00	1.02	1.31			3.00	2.92	3.00	
wind	0.3 m/s	velocity	5.51	8.33	8.50	8.67	8.67	8.85	8.67	8.67	8.50	8.33	7.67	7.94		8.50	8.73	8.50	
FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)																<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	06-Sep-19	time	2.50	3.52	4.54	5.53	6.52	7.49	8.49	9.50	10.51	11.52		12.74	6 / 3				
reaction time	0.144	interval		1.02	1.02	0.99	0.99	0.97	1.00	1.01	1.01	1.01	1.22			3.03	2.96	3.03	
wind	0.0 m/s	velocity	5.20	8.33	8.33	8.59	8.59	8.76	8.50	8.42	8.42	8.42	8.61	7.85		8.42	8.61	8.42	
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)																<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	18-Aug-19	time	2.49	3.52	4.53	5.52	6.54	7.50	8.50	9.50	10.51	11.52		12.73	7 / 4				
reaction time	0.161	interval		1.03	1.01	0.99	1.02	0.96	1.00	1.00	1.01	1.01	1.21			3.03	2.98	3.02	
wind	-0.2 m/s	velocity	5.22	8.25	8.42	8.59	8.33	8.85	8.50	8.50	8.42	8.42	8.68	7.86		8.42	8.56	8.44	
FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)																<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	27-Jul-19	time	2.47	3.50	4.47	5.44	6.40	7.37	8.34	9.34	10.34	11.35		12.55	5 / 2				
reaction time		interval		1.03	0.97	0.97	0.96	0.97	0.97	1.00	1.00	1.01	1.20			2.97	2.90	3.01	
wind	-1.2 m/s	velocity	5.26	8.25	8.76	8.76	8.85	8.76	8.76	8.50	8.50	8.42	8.75	7.97		8.59	8.79	8.47	
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)																<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	20-Jul-19	time	2.48	3.50	4.50	5.48	6.44	7.42	8.38	9.36	10.36	11.38		12.57	4 / 2				
reaction time	0.147	interval		1.02	1.00	0.98	0.96	0.98	0.96	0.98	1.00	1.02	1.19			3.00	2.90	3.00	
wind	0.8 m/s	velocity	5.24	8.33	8.50	8.67	8.85	8.67	8.85	8.67	8.50	8.33	8.82	7.96		8.50	8.79	8.50	
FINAL - 2019 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)																<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	12-Jul-19	time	2.52	3.56	4.56	5.56	6.56	7.56	8.56	9.56	10.60	11.62		12.80	2 / 5				
reaction time	0.137	interval		1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.02	1.18			3.04	3.00	3.06	
wind	0.1 m/s	velocity	5.16	8.17	8.50	8.50	8.50	8.50	8.50	8.50	8.17	8.33	8.90	7.81		8.39	8.50	8.33	
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)																<i>CAA Hurdle Development (2019)</i>			
date	21-May-19	time	2.55	3.59	4.58	5.59	6.58	7.56	8.56	9.58	10.59	11.62		12.78	2 / 2				
reaction time	0.153	interval		1.04	0.99	1.01	0.99	0.98	1.00	1.02	1.01	1.03	1.16			3.04	2.97	3.06	
wind	-1.0 m/s	velocity	5.10	8.17	8.59	8.42	8.59	8.67	8.50	8.33	8.42	8.25	9.05	7.82		8.39	8.59	8.33	
FINAL - 2017 IAAF World Championships (London, GBR)																<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>			
date	12-Aug-17	time	2.46	3.52	4.54	5.54	6.54	7.57	8.58	9.57	10.60	11.66		13.04	9 / 8				
reaction time	0.149	interval		1.06	1.02	1.00	1.00	1.03	1.01	0.99	1.03	1.06	1.38			3.08	3.04	3.08	
wind	0.1 m/s	velocity	5.28	8.02	8.33	8.50	8.50	8.25	8.42	8.59	8.25	8.02	7.61	7.67		8.28	8.39	8.28	
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)																<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>			
date	11-Aug-17	time	2.44	3.50	4.52	5.53	6.50	7.50	8.49	9.48	10.49	11.53		12.79	4 / 2				
reaction time	0.158	interval		1.06	1.02	1.01	0.97	1.00	0.99	0.99	1.01	1.04	1.26			3.09	2.96	3.04	
wind	0.5 m/s	velocity	5.33	8.02	8.33	8.42	8.76	8.50	8.59	8.59	8.42	8.17	8.33	7.82		8.25	8.61	8.39	
FINAL - 2017 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)																<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	21-Jul-17	time	2.54	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	
wind	-0.2 m/s	velocity	5.12	8.33	8.50	8.50	8.67	8.67	8.67	8.50	8.33	8.33	9.21	7.89		8.44	8.67	8.39	
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)																<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	09-Jul-17	time	2.52	3.54	4.54	5.50	6.48	7.48	8.46	9.48	10.50	11.56		12.79	3 / 5				
reaction time	0.148	interval		1.02	1.00	0.96	0.98	1.00	0.98	1.02	1.02	1.06	1.23			2.98	2.96	3.10	
wind	0.2 m/s	velocity	5.16	8.33	8.50	8.85	8.67	8.50	8.67	8.33	8.33	8.02	8.54	7.82		8.56	8.61	8.23	
FINAL - 2017 Athletissima (Lausanne, SUI) (TV Analysis)																<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	06-Jul-17	time	2.48	3.52	4.50	5.50	6.48	7.46	8.43	9.43	10.43	11.43		12.61	4 / 4				
reaction time	0.135	interval		1.04	0.98	1.00	0.98	0.98	0.97	1.00	1.00	1.00	1.18			3.02	2.93	3.00	
wind	-0.1 m/s	velocity	5.24	8.17	8.67	8.50	8.67	8.67	8.76	8.50	8.50	8.50	8.90	7.93		8.44	8.70	8.50	
FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)																<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			

date	04-Jul-17	time	2.52	3.54	4.54	5.54	6.52	7.52	8.52	9.52	10.56	11.60		12.83	5 / 7			
reaction time	0.159	interval		1.02	1.00	1.00	0.98	1.00	1.00	1.00	1.04	1.04	1.23			3.02	2.98	3.08
wind	0.1 m/s	velocity	5.16	8.33	8.50	8.50	8.67	8.50	8.50	8.50	8.17	8.17	8.54	7.79		8.44	8.56	8.28
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	27-May-17	time	2.52	3.56	4.60	5.62	6.60	7.58	8.58	9.60	10.60	11.64		12.90	5 / 7			
reaction time	0.178	interval		1.04	1.04	1.02	0.98	0.98	1.00	1.02	1.00	1.04	1.26			3.10	2.96	3.06
wind	0.8 m/s	velocity	5.16	8.17	8.17	8.33	8.67	8.67	8.50	8.33	8.50	8.17	8.33	7.75		8.23	8.61	8.33
FINAL - 2017 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	05-May-17	time	2.54	3.64	4.72	5.92	7.08	8.26	9.42	10.54				14.34	4 / 8			
reaction time	0.143	interval		1.10	1.08	1.20	1.16	1.18	1.16	1.12						3.38	3.50	
wind	-2.3 m/s	velocity	5.12	7.73	7.87	7.08	7.33	7.20	7.33	7.59				6.97		7.54	7.29	
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	17-Aug-16	time	2.37	3.37	4.36	5.36	6.33	7.30	8.27	9.24	10.24	11.27		12.59	4 / 2			
reaction time	0.154	interval		1.00	0.99	1.00	0.97	0.97	0.97	0.97	1.00	1.03	1.32			2.99	2.91	3.00
wind	0.0 m/s	velocity	5.49	8.50	8.59	8.50	8.76	8.76	8.76	8.76	8.50	8.25	7.95	7.94		8.53	8.76	8.50
FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	22-Jul-16	time	2.48	3.48	4.46	5.42	6.44	7.42	8.40	9.38	10.40	11.42		12.63	5 / 4			
reaction time	0.145	interval		1.00	0.98	0.96	1.02	0.98	0.98	0.98	1.02	1.02	1.21			2.94	2.98	3.02
wind	0.3 m/s	velocity	5.24	8.50	8.67	8.85	8.33	8.67	8.67	8.67	8.33	8.33	8.68	7.92		8.67	8.56	8.44
Heat 1 - 2016 London Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	22-Jul-16	time	2.52	3.54	4.54	5.50	6.50	7.48	8.48	9.48	10.48	11.50		12.69	7 / 1			
reaction time	0.156	interval		1.02	1.00	0.96	1.00	0.98	1.00	1.00	1.00	1.02	1.19			2.98	2.98	3.02
wind	0.3 m/s	velocity	5.16	8.33	8.50	8.85	8.50	8.67	8.50	8.50	8.50	8.33	8.82	7.88		8.56	8.56	8.44
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	08-Jul-16	time	2.46	3.47	4.47	5.44	6.41	7.37	8.34	9.31	10.31	11.33		12.55	6 / 3			
reaction time	0.167	interval		1.01	1.00	0.97	0.97	0.96	0.97	0.97	1.00	1.02	1.22			2.98	2.90	2.99
wind	1.2 m/s	velocity	5.28	8.42	8.50	8.76	8.76	8.85	8.76	8.76	8.50	8.33	8.61	7.97		8.56	8.79	8.53
FINAL - 2016 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	16-Jun-16	time	2.46	3.46	4.48	5.44	6.44	7.44	8.44	9.48	10.50	11.56		12.85	2 / 2			
reaction time	0.145	interval		1.00	1.02	0.96	1.00	1.00	1.00	1.04	1.02	1.06	1.29			2.98	3.00	3.12
wind	-0.4 m/s	velocity	5.28	8.50	8.33	8.85	8.50	8.50	8.50	8.17	8.33	8.02	8.14	7.78		8.56	8.50	8.17
FINAL - 2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	05-Jun-16	time	2.53	3.56	4.58	5.58	6.56	7.56	8.56	9.58	10.56	11.64		12.95	8 / 6			
reaction time	0.198	interval		1.03	1.02	1.00	0.98	1.00	1.00	1.02	0.98	1.08	1.31			3.05	2.98	3.08
wind	-0.3 m/s	velocity	5.14	8.25	8.33	8.50	8.67	8.50	8.50	8.33	8.67	7.87	8.02	7.72		8.36	8.56	8.28
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	28-May-16	time	2.48	3.48	4.46	5.46	6.44	7.42	8.42	9.42	10.44	11.46		12.72	1 / 4			
reaction time		interval		1.00	0.98	1.00	0.98	0.98	1.00	1.00	1.02	1.02	1.26			2.98	2.96	3.04
wind	0.7 m/s	velocity	5.24	8.50	8.67	8.50	8.67	8.67	8.50	8.50	8.33	8.33	8.33	7.86		8.56	8.61	8.39
Allahgreen, Diane (GBR) (1975)																		
FINAL - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	2.58	3.62	4.66	5.68	6.70	7.73	8.75	9.79	10.86	11.94		13.05	1 / 5			
reaction time	0.131	interval		1.04	1.04	1.02	1.02	1.03	1.02	1.04	1.07	1.08	1.11			3.10	3.07	3.19
wind	-0.7 m/s	velocity	5.04	8.17	8.17	8.33	8.33	8.25	8.33	8.17	7.94	7.87	9.46	7.66		8.23	8.31	7.99
FINAL - 2001 European Cup (Bremen, GER)														<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>				
date	24-Jun-01	time	2.62	3.67	4.74	5.79	6.82	7.84	8.90	9.94	11.04	12.07		13.23	1 / 4			
reaction time	0.130	interval		1.05	1.07	1.05	1.03	1.02	1.06	1.04	1.10	1.03	1.16			3.17	3.11	3.17
wind	0.6 m/s	velocity	4.96	8.10	7.94	8.10	8.25	8.33	8.02	8.17	7.73	8.25	9.05	7.56		8.04	8.20	8.04
Alozie, Glory (ESP) (1977)																		
FINAL - 2002 IAAF World Cup (Madrid, ESP)														<i>Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas</i>				
date	21-Sep-02	time	2.51	3.52	4.54	5.55	6.56	7.57	8.58	9.60	10.63	11.67		12.95	7 / 3			
reaction time	0.188	interval		1.01	1.02	1.01	1.01	1.01	1.01	1.02	1.03	1.04	1.28			3.04	3.03	3.09
wind	1.5 m/s	velocity	5.18	8.42	8.33	8.42	8.42	8.42	8.42	8.33	8.25	8.17	8.20	7.72		8.39	8.42	8.25
FINAL - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	2.62	3.68	4.68	5.67	6.66	7.64	8.64	9.65	10.66	11.65		12.73	1 / 1			
reaction time	0.143	interval		1.06	1.00	0.99	0.99	0.98	1.00	1.01	1.01	0.99	1.08			3.05	2.97	3.01
wind	-0.7 m/s	velocity	4.96	8.02	8.50	8.59	8.59	8.67	8.50	8.42	8.42	8.59	9.72	7.86		8.36	8.59	8.47
Semi-Final 2 - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	2.65	3.69	4.71	5.69	6.69	7.67	8.68	9.67	10.69	11.69		12.79	1 / 1			

reaction time	0.133	interval	1.04	1.02	0.98	1.00	0.98	1.01	0.99	1.02	1.00	1.10			3.04	2.99	3.01												
wind	0.6 m/s	velocity	4.91	8.17	8.33	8.67	8.50	8.67	8.42	8.59	8.33	8.50	9.55	7.82		8.39	8.53	8.47											
Heat 2 - 2002 European Championships (Munich, GER)														Graubner (2009) - http://www.fgs.uni-halle.de															
date	08-Aug-02	time	2.69	3.75	4.77	5.77	6.79	7.81	8.81	9.83	10.87	11.92		13.03	1/2														
reaction time	0.164	interval	1.06	1.02	1.00	1.02	1.02	1.00	1.02	1.04	1.05	1.11				3.08	3.04	3.11											
wind	0.0 m/s	velocity	4.83	8.02	8.33	8.50	8.33	8.33	8.50	8.33	8.17	8.10	9.46	7.67		8.28	8.39	8.20											
<i>Alozie, Glory (NGR) (1977)</i>														Graubner (2009) - http://www.fgs.uni-halle.de															
FINAL - 2000 ISTAF (Berlin, GER)														Graubner (2009) - http://www.fgs.uni-halle.de															
date	01-Sep-00	time	2.58	3.62	4.62	5.61	6.61	7.60	8.60	9.60	10.58	11.56		12.66	1/1														
reaction time	0.235	interval	1.04	1.00	0.99	1.00	0.99	1.00	1.00	0.98	0.98	1.10				3.03	2.99	2.96											
wind	-0.2 m/s	velocity	5.04	8.17	8.50	8.59	8.50	8.59	8.50	8.50	8.67	8.67	9.55	7.90		8.42	8.53	8.61											
FINAL - 1999 IAAF World Championships (Sevilla, ESP)														Sanchez (1999) - Sevilla '99: análisis de la carreras con villas															
date	28-Aug-99	time	2.52	3.52	4.49	5.45	6.42	7.38	8.37	9.35	10.33	11.35		12.44	6/2														
reaction time	0.155	interval	1.00	0.97	0.96	0.97	0.96	0.99	0.98	0.98	1.02	1.09	AR / =PB			2.93	2.92	2.98											
wind	0.7 m/s	velocity	5.16	8.50	8.76	8.85	8.76	8.85	8.59	8.67	8.67	8.33	9.63	8.04		8.70	8.73	8.56											
Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)														Sanchez (1999) - Sevilla '99: análisis de la carreras con villas															
date	27-Aug-99	time	2.52	3.53	4.53	5.52	6.48	7.47	8.43	9.42	10.39	11.39		12.61	6/2														
reaction time	0.154	interval	1.01	1.00	0.99	0.96	0.99	0.96	0.99	0.97	1.00	1.22				3.00	2.91	2.96											
wind	1.9 m/s	velocity	5.16	8.42	8.50	8.59	8.85	8.59	8.85	8.59	8.76	8.50	8.61	7.93		8.50	8.76	8.61											
Quarter-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)														Sanchez (1999) - Sevilla '99: análisis de la carreras con villas															
date	26-Aug-99	time	2.52	3.53	4.52	5.49	6.45	7.45	8.43	9.39	10.38	11.39		12.60	4/1														
reaction time	0.158	interval	1.01	0.99	0.97	0.96	1.00	0.98	0.96	0.99	1.01	1.21				2.97	2.94	2.96											
wind	0.2 m/s	velocity	5.16	8.42	8.59	8.76	8.85	8.50	8.67	8.85	8.59	8.42	8.68	7.94		8.59	8.67	8.61											
Heat 4 - 1999 IAAF World Championships (Sevilla, ESP)														Sanchez (1999) - Sevilla '99: análisis de la carreras con villas															
date	26-Aug-99	time	2.54	3.55	4.57	5.55	6.53	7.51	8.50	9.49	10.49	11.50		12.67	3/1														
reaction time	0.162	interval	1.01	1.02	0.98	0.98	0.98	0.99	0.99	1.00	1.01	1.17				3.01	2.95	3.00											
wind	1.1 m/s	velocity	5.12	8.42	8.33	8.67	8.67	8.67	8.59	8.59	8.50	8.42	8.97	7.89		8.47	8.64	8.50											
<i>Amusan, Tobi (NGR) (1997)</i>														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)														Paris 2024 Olympic Games - Results Book (2024)															
date	09-Aug-24	time	2.46	3.51	4.49	5.45	6.39	7.33	8.28	9.25	10.24	11.28		12.55	6/3														
reaction time	0.152	interval	1.05	0.98	0.96	0.94	0.94	0.95	0.97	0.99	1.04	1.27				2.99	2.83	3.00											
wind	0.5 m/s	velocity	5.28	8.10	8.67	8.85	9.04	9.04	8.95	8.76	8.59	8.17	7.91	7.97		8.53	9.01	8.50											
Heat 1 - 2024 Olympic Games (Paris, FRA)														Paris 2024 Olympic Games - Results Book (2024)															
date	07-Aug-24	time	2.48	3.52	4.50	5.47	6.42	7.37	8.33	9.30	10.28	11.27		12.49	9/1														
reaction time	0.135	interval	1.04	0.98	0.97	0.95	0.95	0.96	0.97	0.98	0.99	1.22				2.99	2.86	2.94											
wind	-0.1 m/s	velocity	5.24	8.17	8.67	8.76	8.95	8.95	8.85	8.76	8.67	8.59	8.24	8.01		8.53	8.92	8.67											
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)														Henson (2024) - Athlete First: 2024 year end hurdle report															
date	27-Apr-24	time	2.55	3.57	4.57	5.54	6.51	7.46	8.46	9.44	10.47	11.51		12.61	6/4	no official time given													
reaction time	0.123	interval	1.02	1.00	0.97	0.97	0.95	1.00	0.98	1.03	1.04	1.10	DQ fs		(0.093)	2.99	2.92	3.05											
wind	0.3 m/s	velocity	5.10	8.33	8.50	8.76	8.76	8.95	8.50	8.67	8.25	8.17	9.14	7.93		8.53	8.73	8.36											
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)														Omega Timing (2024) - diamond league race analysis															
date	20-Apr-24	time	2.48	3.51	4.51	5.48	6.45	7.41	8.36	9.34	10.34	11.35		12.58	4/5														
reaction time	0.148	interval	1.03	1.00	0.97	0.97	0.96	0.95	0.98	1.00	1.01	1.23				3.00	2.88	2.99											
wind	-0.2 m/s	velocity	5.24	8.25	8.50	8.76	8.76	8.85	8.95	8.67	8.50	8.42	8.17	7.95		8.50	8.85	8.53											
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)														Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record															
date	04-Feb-24	time	2.48	3.50	4.48	5.46	6.43							7.75	4/2														
reaction time	0.147	interval	1.02	0.98	0.98	0.97							1.32	NR		2.98													
		velocity	5.24	8.33	8.67	8.67	8.76						9.85	7.74		8.56													
FINAL - 2023 Prefontaine Classic (Eugene, OR)														Omega Timing (2023) - diamond league race analysis															
date	17-Sep-23	time	2.42	3.44	4.41	5.37	6.30	7.24	8.18	9.14	10.10	11.09		12.33	4/1														
reaction time	0.134	interval	1.02	0.97	0.96	0.93	0.94	0.94	0.96	0.96	0.99	1.24				2.95	2.81	2.91											
wind	1.8 m/s	velocity	5.37	8.33	8.76	8.85	9.14	9.04	9.04	8.85	8.85	8.59	8.10	8.11		8.64	9.07	8.76											
FINAL - 2023 World Athletics Championships (Budapest, HUN)														Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season															
date	24-Aug-23	time	2.56	3.58	4.55	5.53	6.50	7.48	8.45	9.48	10.49	11.53		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											
wind	-0.2 m/s	velocity	5.08	8.33	8.76	8.67	8.76	8.67	8.76	8.25	8.42	8.17	9.22	7.92		8.59	8.73	8.28											
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														Henson (2023) - Athlete First: 2023 year end hurdle report															
date	23-Aug-23	time	2.53	3.57	4.52	5.48	6.44	7.42	8.40	9.38	10.40	11.42		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											
wind	-0.7 m/s	velocity	5.14	8.17	8.95	8.85	8.85	8.67	8.67	8.67	8.33	8.33	8.82	7.96		8.64	8.73	8.44											

Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

date	22-Aug-23	time	2.54	3.55	4.54	5.52	6.47	7.41	8.38	9.34	10.34	11.35	12.48	4 / 1			
reaction time	0.149	interval		1.01	0.99	0.98	0.95	0.94	0.97	0.96	1.00	1.01	1.13		2.98	2.86	2.97
wind	0.4 m/s	velocity	5.12	8.42	8.59	8.67	8.95	9.04	8.76	8.85	8.50	8.42	8.89	8.01	8.56	8.92	8.59

*Henson (2023) - Athlete First: 2023 year end hurdle report***FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)**

date	16-Jul-23	time	2.43	3.46	4.44	5.39	6.33	7.27	8.22	9.19	10.15	11.14	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
wind	0.9 m/s	velocity	5.35	8.25	8.67	8.95	9.04	9.04	8.95	8.76	8.85	8.59	8.38	8.10	8.61	9.01	8.73

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

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

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

date	30-Jun-23	time	2.43	3.46	4.44	5.39	6.34	7.29	8.25	9.23	10.22	11.24	12.47	4 / 2			
reaction time	0.133	interval		1.03	0.98	0.95	0.95	0.95	0.96	0.98	0.99	1.02	1.23		2.96	2.86	2.99
wind	-1.4 m/s	velocity	5.35	8.25	8.67	8.95	8.95	8.95	8.85	8.67	8.59	8.33	8.17	8.02	8.61	8.92	8.53

*Omega Timing (2023) - diamond league race analysis***FINAL - 2023 USATF Los Angeles Grand Prix (Westwood, CA) (TV Analysis)**

date	27-May-23	time	2.56	3.58	4.58	5.54	6.52	7.49	8.47	9.50	10.52	11.56	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
wind	-0.2 m/s	velocity	5.08	8.33	8.50	8.85	8.67	8.76	8.67	8.25	8.33	8.17	8.89	7.88	8.56	8.70	8.25

*Henson (2023) - Athlete First: 2023 year end hurdle report***FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)**

date	08-Sep-22	time	2.47	3.47	4.43	5.37	6.31	7.24	8.19	9.14	10.12	11.10	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
wind	-0.3 m/s	velocity	5.26	8.50	8.85	9.04	9.04	9.14	8.95	8.95	8.67	8.67	8.45	8.14	8.79	9.04	8.76

*Henson (2022) - Athlete First: 2022 year end hurdle report***FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)**

date	04-Sep-22	time	2.48	3.52	4.48	5.44	6.38	7.32	8.28	9.28	10.26	11.26	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
wind	-0.3 m/s	velocity	5.24	8.17	8.85	8.85	9.04	9.04	8.85	8.50	8.67	8.50	8.45	8.03	8.61	8.98	8.56

*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season***FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)**

date	26-Aug-22	time	2.43	3.44	4.44	5.40	6.34	7.27	8.27	9.25	10.25	11.27	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
wind	-0.9 m/s	velocity	5.35	8.42	8.50	8.85	9.04	9.14	8.50	8.67	8.50	8.33	8.52	8.03	8.59	8.89	8.50

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

date	07-Aug-22	time	2.48	3.48	4.44	5.38	6.34	7.28	8.22	9.18	10.16	11.16	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
wind	-0.2 m/s	velocity	5.24	8.50	8.85	9.04	8.85	9.04	9.04	8.85	8.67	8.50	8.82	8.13	8.79	8.98	8.67

*Henson (2022) - Athlete First: 2022 year end hurdle report***Heat 3 - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)**

date	05-Aug-22	time	2.50	3.50	4.48	5.43	6.37	7.33	8.28	9.23	10.23	11.23	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
wind	2.4 m/s	velocity	5.20	8.50	8.67	8.95	9.04	8.85	8.95	8.95	8.50	8.50	8.59	8.06	8.70	8.95	8.64

*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season***FINAL - 2022 World Athletics Championships (Eugene, OR)**

date	24-Jul-22	time	2.50	3.50	4.43	5.37	6.27	7.20	8.12	9.07	10.02	11.01	12.06	4 / 1			
reaction time	0.130	interval		1.00	0.93	0.94	0.90	0.93	0.92	0.95	0.95	0.99	1.05		2.87	2.75	2.89
wind	2.5 m/s	velocity	5.20	8.50	9.14	9.04	9.44	9.14	9.24	8.95	8.95	8.59	9.57	8.29	8.89	9.27	8.82

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

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

*Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season***Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)**

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

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

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

*Henson (2022) - Athlete First: 2022 year end hurdle report***FINAL - 2022 Nigerian National Championships (Benin City, NGR) (TV Analysis)**

date	25-Jun-22	time	2.52	3.53	4.52	5.49	6.45	7.42	8.39	9.36	10.36	11.36	12.54	4 / 1			
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Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season

reaction time		interval	1.01	0.99	0.97	0.96	0.97	0.97	0.97	1.00	1.00	1.18		2.97	2.90	2.97	
wind	-0.4 m/s	velocity	5.16	8.42	8.59	8.76	8.85	8.76	8.76	8.76	8.50	8.50	8.52	7.97	8.59	8.79	8.59
Heat 2 - 2022 Nigerian National Championships (Benin City, NGR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	25-Jun-22	time	2.52	3.55	4.55	5.52	6.49	7.46	8.44	9.41	10.41	11.43	12.67	3 / 1			
reaction time		interval	1.03	1.00	0.97	0.97	0.97	0.98	0.97	1.00	1.02	1.24			3.00	2.92	2.99
wind	0.0 m/s	velocity	5.16	8.25	8.50	8.76	8.76	8.76	8.67	8.76	8.50	8.33	8.10	7.89	8.50	8.73	8.53
FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	18-Jun-22	time	2.50	3.52	4.48	5.45	6.39	7.33	8.28	9.25	10.23	11.21	12.41	5 / 1			
reaction time	0.159	interval	1.02	0.96	0.97	0.94	0.94	0.94	0.95	0.97	0.98	0.98	1.20	NR PB	2.95	2.83	2.93
wind	-0.4 m/s	velocity	5.20	8.33	8.85	8.76	9.04	9.04	8.95	8.76	8.67	8.67	8.38	8.06	8.64	9.01	8.70
FINAL - 2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	14-Jun-22	time	2.54	3.58	4.56	5.54	6.50	7.46	8.44	9.40	10.42	11.44	12.57	6 / 1			
reaction time	0.164	interval	1.04	0.98	0.98	0.96	0.96	0.98	0.96	1.02	1.02	1.13			3.00	2.90	3.00
wind	0.2 m/s	velocity	5.12	8.17	8.67	8.67	8.85	8.85	8.67	8.85	8.33	8.33	8.89	7.96	8.50	8.79	8.50
FINAL - 2022 African Championships (St. Pierre, MRI) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	09-Jun-22	time	2.50	3.52	4.54	5.48	6.42	7.40	8.38	9.34	10.34	11.40	12.57	5 / 1			
reaction time		interval	1.02	1.02	0.94	0.94	0.98	0.98	0.96	1.00	1.06	1.17			2.98	2.90	3.02
wind	4.0 m/s	velocity	5.20	8.33	8.33	9.04	9.04	8.67	8.67	8.85	8.50	8.02	8.59	7.96	8.56	8.79	8.44
FINAL - 2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	03-Jun-22	time	2.58	3.60	4.60	5.60	6.56	7.56	8.54	9.56	10.60	11.64	12.80	6 / 2			
reaction time		interval	1.02	1.00	1.00	0.96	1.00	0.98	1.02	1.04	1.04	1.16			3.02	2.94	3.10
wind	0.2 m/s	velocity	5.04	8.33	8.50	8.50	8.85	8.50	8.67	8.33	8.17	8.17	8.66	7.81	8.44	8.67	8.23
FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	28-May-22	time	2.50	3.53	4.53	5.50	6.48	7.45	8.43	9.40	10.40	11.43	12.58	8 / 2			
reaction time	0.150	interval	1.03	1.00	0.97	0.98	0.97	0.98	0.97	1.00	1.03	1.15			3.00	2.93	3.00
wind	-0.7 m/s	velocity	5.20	8.25	8.50	8.76	8.67	8.76	8.67	8.76	8.50	8.25	8.74	7.95	8.50	8.70	8.50
FINAL - 2022 Doha Diamond League (Doha, QAT) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	13-May-22	time	2.50	3.53	4.51	5.43	6.40	7.35	8.31	9.30	10.28	11.30	12.44	6 / 2			
reaction time	0.171	interval	1.03	0.98	0.92	0.97	0.95	0.96	0.99	0.98	1.02	1.14			2.93	2.88	2.99
wind	3.8 m/s	velocity	5.20	8.25	8.67	9.24	8.76	8.95	8.85	8.59	8.67	8.33	8.82	8.04	8.70	8.85	8.53
FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	22-Apr-22	time	2.58	3.63	4.61	5.59	6.55	7.51	8.47	9.47	10.47	11.49	12.61	5 / 4			
reaction time		interval	1.05	0.98	0.98	0.96	0.96	0.96	1.00	1.00	1.02	1.12			3.01	2.88	3.02
wind	0.8 m/s	velocity	5.04	8.10	8.67	8.67	8.85	8.85	8.85	8.50	8.50	8.33	8.97	7.93	8.47	8.85	8.44
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	09-Sep-21	time	2.50	3.50	4.48	5.42	6.36	7.32	8.26	9.24	10.22	11.26	12.42	3 / 1			
reaction time	0.134	interval	1.00	0.98	0.94	0.94	0.96	0.94	0.98	0.98	1.04	1.16	AR		2.92	2.84	3.00
wind	0.4 m/s	velocity	5.20	8.50	8.67	9.04	9.04	8.85	9.04	8.67	8.67	8.17	8.66	8.05	8.73	8.98	8.50
FINAL - 2021 Memorial van Damme (Brussels, BEL) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	03-Sep-21	time	2.52	3.58	4.58	5.56	6.54	7.50	8.48	9.46	10.46	11.50	12.69	5 / 2			
reaction time	0.163	interval	1.06	1.00	0.98	0.98	0.98	0.96	0.98	0.98	1.00	1.04	1.19		3.04	2.92	3.02
wind	0.7 m/s	velocity	5.16	8.02	8.50	8.67	8.67	8.85	8.67	8.67	8.50	8.17	8.45	7.88	8.39	8.73	8.44
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	28-Aug-21	time	2.54	3.58	4.58	5.56	6.54	7.50	8.48	9.48	10.48	11.48	12.69	4 / 4			
reaction time	0.155	interval	1.04	1.00	0.98	0.98	0.98	0.96	0.98	1.00	1.00	1.21			3.02	2.92	3.00
wind	1.7 m/s	velocity	5.12	8.17	8.50	8.67	8.67	8.85	8.67	8.50	8.50	8.50	8.31	7.88	8.44	8.73	8.50
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	02-Aug-21	time	2.50	3.54	4.54	5.52	6.48	7.44	8.42	9.38	10.38	11.42	12.60	6 / 4			
reaction time	0.161	interval	1.04	1.00	0.98	0.96	0.96	0.98	0.96	1.00	1.04	1.18	PB		3.02	2.90	3.00
wind	-0.3 m/s	velocity	5.20	8.17	8.50	8.67	8.85	8.85	8.67	8.85	8.50	8.17	8.52	7.94	8.44	8.79	8.50
FINAL - 2021 USATF Golden Games (Walnut, CA) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season</i>				
date	09-May-21	time	2.53	3.57	4.57	5.54	6.50	7.47	8.46	9.45	10.44	11.44	12.61	7 / 3			
reaction time	0.172	interval	1.04	1.00	0.97	0.96	0.97	0.99	0.99	0.99	1.00	1.17			3.01	2.92	2.98
wind	2.0 m/s	velocity	5.14	8.17	8.50	8.76	8.85	8.76	8.59	8.59	8.59	8.50	8.59	7.93	8.47	8.73	8.56
FINAL - 2019 IAAF World Championships (Doha, QAT)													<i>CAA Hurdle Development (2019)</i>				
date	06-Oct-19	time	2.53	3.56	4.53	5.50	6.45	7.39	8.35	9.32	10.30	11.30	12.49	7 / 4			
reaction time	0.218	interval	1.03	0.97	0.97	0.95	0.94	0.96	0.97	0.98	1.00	1.19			2.97	2.85	2.95
wind	0.3 m/s	velocity	5.14	8.25	8.76	8.76	8.95	9.04	8.85	8.76	8.67	8.50	8.45	8.01	8.59	8.95	8.64

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

CAA Hurdle Development (2019)

date	06-Oct-19	time	2.49	3.52	4.49	5.45	6.41	7.38	8.33	9.32	10.30	11.33		12.48	5 / 1			
reaction time	0.124	interval		1.03	0.97	0.96	0.96	0.97	0.95	0.99	0.98	1.03	1.15	=PB		2.96	2.88	3.00
wind	0.6 m/s	velocity	5.22	8.25	8.76	8.85	8.85	8.76	8.95	8.59	8.67	8.25	8.74	8.01		8.61	8.85	8.50

Heat 5 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)

Henson (2021) - Athlete First: 2019 year end hurdle report

date	05-Oct-19	time	2.48	3.50	4.48	5.44	6.38	7.34	8.28	9.26	10.26	11.26		12.48	9 / 1			
reaction time	0.121	interval		1.02	0.98	0.96	0.94	0.96	0.94	0.98	1.00	1.00	1.22	PB		2.96	2.84	2.98
wind	0.2 m/s	velocity	5.24	8.33	8.67	8.85	9.04	8.85	9.04	8.67	8.50	8.50	8.24	8.01		8.61	8.98	8.56

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

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

date	18-Aug-19	time	2.53	3.57	4.57	5.54	6.50	7.47	8.44	9.45	10.45	11.47		12.71	4 / 3			
reaction time	0.167	interval		1.04	1.00	0.97	0.96	0.97	0.97	1.01	1.00	1.02	1.24			3.01	2.90	3.03
wind	-0.2 m/s	velocity	5.14	8.17	8.50	8.76	8.85	8.76	8.76	8.42	8.50	8.33	8.47	7.87		8.47	8.79	8.42

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

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

date	20-Jul-19	time	2.48	3.52	4.52	5.52	6.48	7.44	8.44	9.44	10.48	11.52		12.73	9 / 5			
reaction time	0.153	interval		1.04	1.00	1.00	0.96	0.96	1.00	1.00	1.04	1.04	1.21			3.04	2.92	3.08
wind	0.8 m/s	velocity	5.24	8.17	8.50	8.50	8.85	8.85	8.50	8.50	8.17	8.17	8.68	7.86		8.39	8.73	8.28

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

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

date	30-May-19	time	2.52	3.58	4.58	5.60	6.60	7.60	8.60	9.60	10.60	11.64		12.85	6 / 3			
reaction time	0.129	interval		1.06	1.00	1.02	1.00	1.00	1.00	1.00	1.00	1.04	1.21			3.08	3.00	3.04
wind	1.3 m/s	velocity	5.16	8.02	8.50	8.33	8.50	8.50	8.50	8.50	8.50	8.17	8.68	7.78		8.28	8.50	8.39

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

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

date	03-May-19	time	2.48	3.50	4.50	5.48	6.46	7.44	8.42	9.42	10.46	11.50		12.73	2 / 2			
reaction time	0.147	interval		1.02	1.00	0.98	0.98	0.98	0.98	1.00	1.04	1.04	1.23			3.00	2.94	3.08
wind	0.9 m/s	velocity	5.24	8.33	8.50	8.67	8.67	8.67	8.67	8.50	8.17	8.17	8.54	7.86		8.50	8.67	8.28

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

Henson (2021) - Athlete First: 2018 year end hurdle report

date	08-Sep-18	time	2.52	3.56	4.60	5.60	6.60	7.60	8.60	9.60	10.62	11.66		12.96	4 / 5			
reaction time	0.167	interval		1.04	1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.30			3.08	3.00	3.06
wind	-0.1 m/s	velocity	5.16	8.17	8.17	8.50	8.50	8.50	8.50	8.50	8.33	8.17	8.08	7.72		8.28	8.50	8.33

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

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

date	31-Aug-18	time	2.48	3.56	4.56	5.56	6.54	7.52	8.50	9.48	10.48	11.50		12.69	2 / 4			
reaction time	0.134	interval		1.08	1.00	1.00	0.98	0.98	0.98	0.98	1.00	1.02	1.19			3.08	2.94	3.00
wind	0.1 m/s	velocity	5.24	7.87	8.50	8.50	8.67	8.67	8.67	8.67	8.50	8.33	8.82	7.88		8.28	8.67	8.50

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

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

date	22-Jul-18	time	2.52	3.58	4.56	5.54	6.50	7.48	8.48	9.44	10.46	11.48		12.68	8 / 7			
reaction time	0.151	interval		1.06	0.98	0.98	0.96	0.98	1.00	0.96	1.02	1.02	1.20			3.02	2.94	3.00
wind	0.6 m/s	velocity	5.16	8.02	8.67	8.67	8.85	8.67	8.50	8.85	8.33	8.33	8.75	7.89		8.44	8.67	8.50

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

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

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

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

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

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

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

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

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

FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)

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

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

Semi-Final 2 - 2017 IAAF World Championships (London, GBR)

Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles

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

Anderson, Britany (JAM) (2001)

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

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

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

date	08-Sep-22	time	2.47	3.47	4.44	5.40	6.36	7.31	8.27	9.24	10.21	11.22		12.42	6 / 3			
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reaction time	0.166	interval	1.00	0.97	0.96	0.96	0.95	0.96	0.97	0.97	1.01	1.20			2.93	2.87	2.95
wind	-0.3 m/s	velocity	5.26	8.50	8.76	8.85	8.85	8.95	8.85	8.76	8.76	8.42	8.38	8.05	8.70	8.89	8.64
FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	02-Sep-22	time	2.47	3.47	4.45	5.42	6.37	7.34	8.29	9.26	10.23	11.26	12.44	6 / 4			
reaction time	0.145	interval	1.00	0.98	0.97	0.95	0.97	0.95	0.97	0.97	1.03	1.18			2.95	2.87	2.97
wind	0.1 m/s	velocity	5.26	8.50	8.67	8.76	8.95	8.76	8.95	8.76	8.76	8.25	8.52	8.04	8.64	8.89	8.59
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	26-Aug-22	time	2.45	3.47	4.44	5.40	6.37	7.35	8.33	9.31	10.31	11.34	12.59	3 / 5			
reaction time	0.155	interval	1.02	0.97	0.96	0.97	0.98	0.98	0.98	1.00	1.03	1.25			2.95	2.93	3.01
wind	-0.9 m/s	velocity	5.31	8.33	8.76	8.85	8.76	8.67	8.67	8.67	8.50	8.25	8.04	7.94	8.64	8.70	8.47
FINAL - 2022 World Athletics Championships (Eugene, OR)														<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>			
date	24-Jul-22	time	2.49	3.48	4.43	5.36	6.31	7.24	8.20	9.18	10.15	11.15	12.23	5 / 2			
reaction time	0.129	interval	0.99	0.95	0.93	0.95	0.93	0.96	0.98	0.97	1.00	1.08			2.87	2.84	2.95
wind	2.5 m/s	velocity	5.22	8.59	8.95	9.14	8.95	9.14	8.85	8.67	8.76	8.50	9.31	8.18	8.89	8.98	8.64
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	24-Jul-22	time	2.50	3.50	4.46	5.42	6.34	7.30	8.26	9.23	10.20	11.20	12.31	3 / 1			
reaction time	0.143	interval	1.00	0.96	0.96	0.92	0.96	0.96	0.96	0.97	0.97	1.00	1.11	NR PB	2.92	2.84	2.94
wind	0.3 m/s	velocity	5.20	8.50	8.85	8.85	9.24	8.85	8.85	8.76	8.76	8.50	9.05	8.12	8.73	8.98	8.67
Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	23-Jul-22	time	2.56	3.56	4.55	5.50	6.46	7.43	8.40	9.38	10.36	11.36	12.59	4 / 1			
reaction time	0.153	interval	1.00	0.99	0.95	0.96	0.97	0.97	0.98	0.98	1.00	1.23			2.94	2.90	2.96
wind	-0.3 m/s	velocity	5.08	8.50	8.59	8.95	8.85	8.76	8.76	8.67	8.67	8.50	8.17	7.94	8.67	8.79	8.61
FINAL - 2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>			
date	14-Jun-22	time	2.60	3.62	4.62	5.58	6.54	7.50	8.48	9.44	10.44	11.44	12.59	4 / 2			
reaction time	0.223	interval	1.02	1.00	0.96	0.96	0.96	0.96	0.98	0.96	1.00	1.00	1.15		2.98	2.90	2.96
wind	0.2 m/s	velocity	5.00	8.33	8.50	8.85	8.85	8.85	8.67	8.85	8.50	8.50	8.74	7.94	8.56	8.79	8.61
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	09-Jun-22	time	2.50	3.51	4.48	5.45	6.41	7.34	8.28	9.25	10.23	11.26	12.50	4 / 2			
reaction time	0.182	interval	1.01	0.97	0.97	0.96	0.93	0.94	0.97	0.98	1.03	1.24			2.95	2.83	2.98
wind	0.1 m/s	velocity	5.20	8.42	8.76	8.76	8.85	9.14	9.04	8.76	8.67	8.25	8.10	8.00	8.64	9.01	8.56
FINAL - 2022 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	13-May-22	time	2.48	3.52	4.49	5.46	6.40	7.35	8.31	9.30	10.28	11.28	12.44	2 / 2			
reaction time	0.154	interval	1.04	0.97	0.97	0.94	0.95	0.96	0.99	0.98	1.00	1.16			2.98	2.85	2.97
wind	3.8 m/s	velocity	5.24	8.17	8.76	8.76	9.04	8.95	8.85	8.59	8.67	8.50	8.66	8.04	8.56	8.95	8.59
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	19-Mar-22	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		
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	02-Aug-21	time	2.48	3.50	4.50	5.50	6.48	7.44	8.46	9.48	10.64	11.80	13.24	7 / 8			
reaction time	0.164	interval	1.02	1.00	1.00	0.98	0.96	1.02	1.02	1.16	1.16	1.44			3.02	2.96	3.34
wind	-0.3 m/s	velocity	5.24	8.33	8.50	8.50	8.67	8.85	8.33	8.33	7.33	7.33	6.98	7.55	8.44	8.61	7.63
FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	06-Jul-21	time	2.48	3.50	4.53	5.50	6.48	7.47	8.46	9.50	10.51	11.56	12.80	2 / 4			
reaction time	0.134	interval	1.02	1.03	0.97	0.98	0.99	0.99	1.04	1.01	1.05	1.24			3.02	2.96	3.10
wind	0.2 m/s	velocity	5.24	8.33	8.25	8.76	8.67	8.59	8.59	8.17	8.42	8.10	8.10	7.81	8.44	8.61	8.23
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	13-Jul-21	time	2.56	3.57	4.57	5.56	6.55	7.52	8.49	9.54	10.54	11.61	12.81	5 / 5			
reaction time	0.191	interval	1.01	1.00	0.99	0.99	0.97	0.97	1.05	1.00	1.07	1.20			3.00	2.93	3.12
wind	1.5 m/s	velocity	5.08	8.42	8.50	8.59	8.59	8.76	8.76	8.10	8.50	7.94	8.37	7.81	8.50	8.70	8.17
FINAL - 2021 USATF Grand Prix (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	24-Apr-21	time	2.53	3.54	4.54	5.50	6.47	7.47	8.46	9.46	10.50	11.57	12.82	8 / 2			
reaction time		interval	1.01	1.00	0.96	0.97	1.00	0.99	1.00	1.04	1.07	1.25			2.97	2.96	3.11
wind	-0.3 m/s	velocity	5.14	8.42	8.50	8.85	8.76	8.50	8.59	8.50	8.17	7.94	8.04	7.80	8.59	8.61	8.20
FINAL - 2020 Millrose Games (New York, NY)														<i>PrimeTime Timing (2020) - http://results.nyrrmillrosegames.org/</i>			
date	08-Feb-20	time	2.60	3.63	4.60	5.60	6.57						8.02	7 / 4			
reaction time	0.168	interval	1.03	0.97	1.00	0.97							1.45	NR PB	3.00		
		velocity	5.00	8.25	8.76	8.50	8.76						8.97	7.48	8.50		

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

date	25-Jan-20	time	2.69	3.72	4.71	5.71	6.70												
reaction time		interval		1.03	0.99	1.00	0.99							1.37	NJR PB				3.02
		velocity	4.83	8.25	8.59	8.50	8.59							9.49	7.43				8.44

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

8.07 7 / 4

Heat 2 - 2020 New Balance Indoor Grand Prix (Boston, MA)

date	25-Jan-20	time	2.72	3.75	4.74	5.74	6.72												
reaction time		interval		1.03	0.99	1.00	0.98							1.40	PB				3.02
		velocity	4.78	8.25	8.59	8.50	8.67							9.29	7.39				8.44

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

8.12 6 / 3

FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)

date	15-Jul-18	time	2.66	3.67	4.70	5.69	6.70	7.70	8.72	9.73	10.78	11.84		13.01		6 / 2				
reaction time	0.190	interval		1.01	1.03	0.99	1.01	1.00	1.02	1.01	1.05	1.06	1.17	PB				3.03	3.03	3.12
wind	-1.0 m/s	velocity	4.89	8.42	8.25	8.59	8.42	8.50	8.33	8.42	8.10	8.02	8.97	7.69				8.42	8.42	8.17

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

Anderson, Katie (CAN) (1968)**FINAL - 1997 IAAF World Championships (Athens, GRE)**

date	10-Aug-97	time	2.54	3.58	4.58	5.58	6.56	7.56	8.56	9.60	10.64	11.72		12.88		8 / 6				
reaction time	0.127	interval		1.04	1.00	1.00	0.98	1.00	1.00	1.04	1.04	1.08	1.16					3.04	2.98	3.16
wind	-0.3 m/s	velocity	5.12	8.17	8.50	8.50	8.67	8.50	8.50	8.17	8.17	7.87	9.05	7.76				8.39	8.56	8.07

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

Ando, Manami (JPN) (2001)**FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)**

date	08-Aug-19	time	2.72	3.81	4.90	6.03	7.17	8.33	9.51	10.67	11.84	13.05		14.36		8 / 5				
reaction time		interval		1.09	1.09	1.13	1.14	1.16	1.18	1.16	1.17	1.21	1.31					3.31	3.48	3.54
wind	-4.1 m/s	velocity	4.78	7.80	7.80	7.52	7.46	7.33	7.20	7.33	7.26	7.02	8.02	6.96				7.70	7.33	7.20

Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data

Anisimova, Tatyana (URS) (1949)**FINAL - 1981 USSR vs. USA (Leningrad, URS)**

date	11-Jul-81	time	2.60	3.61	4.62	5.62	6.62	7.62	8.62	9.62	10.62	11.64		12.79		1 / 1				
reaction time		interval		1.01	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.02	1.15					3.02	3.00	3.02
wind	0.3 m/s	velocity	5.00	8.42	8.42	8.50	8.50	8.50	8.50	8.50	8.50	8.33	9.13	7.82				8.44	8.50	8.44

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

FINAL - 1981 USSR vs. GDR (Tbilisi, URS)

date	26-Jun-81	time	2.49	3.50	4.48	5.46	6.45	7.45	8.44	9.45	10.46	11.50		12.68		1 / 1				
reaction time		interval		1.01	0.98	0.98	0.99	1.00	0.99	1.01	1.01	1.04	1.18					2.97	2.98	3.06
wind	0.0 m/s	velocity	5.22	8.42	8.67	8.67	8.59	8.50	8.59	8.42	8.42	8.17	8.90	7.89				8.59	8.56	8.33

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

A FINAL - 1979 VII USSR Spartakiade (Moscow, URS)

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

Balachničiv (1981) - Periodisierung & Zyklisierung des Trainings 78/79 Hürdenläuferinnen der Spitzenklasse der UdSSR

FINAL - 1976 Olympic Games (Montreal, CAN)

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

Ilyin (1979) - successes of women hurdlers

Antonova, Aleksandra (RUS) (1980)**FINAL - 2007 European Cup (Munich, GER)**

date	24-Jun-07	time	2.63	3.66	4.69	5.69	6.68	7.67	8.70	9.72	10.78	11.84		12.97		1 / 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
wind	0.9 m/s	velocity	4.94	8.25	8.25	8.50	8.59	8.59	8.25	8.33	8.02	8.02	9.29	7.71				8.33	8.47	8.12

Graubner (2007) - <http://www.fgs.uni-halle.de>**Aoki, Masumi (JPN) (1994)****Heat 1 - 2023 World Athletics Championships (Budapest, HUN)**

date	22-Aug-23	time	2.64	3.70	4.75	5.78	6.81	7.85	8.88	9.93	10.99	12.08		13.26		4 / 8				
reaction time	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
wind	0.1 m/s	velocity	4.92	8.02	8.10	8.25	8.25	8.17	8.25	8.10	8.02	7.80	8.52	7.54				8.12	8.23	7.97

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

FINAL - 2023 Japanese National Championships (Osaka, JPN)

date	03-Jun-23	time	2.60	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
wind	-1.2 m/s	velocity	5.00	8.10	8.33	8.42	8.42	8.42	8.42	8.33	8.10	8.02	9.05	7.72				8.28	8.42	8.15

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

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

date	21-May-23	time	2.60	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
wind	0.4 m/s	velocity	5.00	8.33	8.42	8.50	8.33	8.59	8.42	8.42	8.10	7.80	8.82	7.73				8.42	8.44	8.10

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

FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)

date	29-Apr-23	time	2.62	3.65	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

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

wind	0.6 m/s	velocity	4.96	8.25	8.17	8.42	8.33	8.25	8.33	8.33	8.17	8.17	9.05	7.70	8.28	8.31	8.23
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)															<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>		
date	24-Jul-22	time	2.59	3.65	4.68	5.69	6.69	7.70	8.76	9.81	10.88	11.95	13.04	2 / 6			
reaction time	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
wind	-0.1 m/s	velocity	5.02	8.02	8.25	8.42	8.50	8.42	8.02	8.10	7.94	7.94	9.22	7.67	8.23	8.31	7.99
FINAL - 2022 Japanese National Championships (Osaka, JPN)															<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>		
date	11-Jun-22	time	2.64	3.72	4.75	5.80	6.86	7.90	8.96	10.01	11.08	12.16	13.28	7 / 2			
reaction time	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
wind	0.8 m/s	velocity	4.92	7.87	8.25	8.10	8.02	8.17	8.02	8.10	7.94	7.87	8.97	7.53	8.07	8.07	7.97
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)															<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>		
date	08-May-22	time	2.63	3.71	4.75	5.78	6.82	7.87	8.91	10.09	11.27	12.49	13.91	5 / 9			
reaction time	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
wind	-0.1 m/s	velocity	4.94	7.87	8.17	8.25	8.17	8.10	8.17	7.20	7.20	6.97	7.08	7.19	8.10	8.15	7.12
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)															<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>		
date	29-Apr-22	time	2.62	3.70	4.77	5.83	6.87	7.91	8.96	10.01	11.07	12.12	13.25	4 / 3			
reaction time	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
wind	-2.8 m/s	velocity	4.96	7.87	7.94	8.02	8.17	8.17	8.10	8.10	8.02	8.10	8.89	7.55	7.94	8.15	8.07
FINAL - 2021 Fuse Sprint (Tottori, JPN)															<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>		
date	06-Jun-21	time	2.62	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
wind	1.8 m/s	velocity	4.96	8.10	8.33	8.59	8.50	8.50	8.42	8.42	8.17	8.25	9.14	7.77	8.33	8.47	8.28
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)															<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>		
date	09-May-21	time	2.59	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
wind	-0.8 m/s	velocity	5.02	8.10	8.17	8.25	8.42	8.33	8.33	8.02	8.10	7.94	8.97	7.66	8.17	8.36	8.02
FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)															<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>		
date	29-Apr-21	time	2.63	3.68	4.75	5.81	6.85	7.91	8.96	10.02	11.10	12.19	13.34	3 / 4			
reaction time		interval	1.05	1.07	1.06	1.04	1.06	1.05	1.06	1.08	1.09	1.15			3.18	3.15	3.23
wind	1.6 m/s	velocity	4.94	8.10	7.94	8.02	8.17	8.02	8.10	8.02	7.87	7.80	8.74	7.50	8.02	8.10	7.89
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)															<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>		
date	24-Oct-20	time	2.72	3.80	4.86	5.91	6.97	8.04	9.10	10.20	11.32	12.44	13.48	7 / 3			
reaction time		interval	1.08	1.06	1.05	1.06	1.07	1.06	1.10	1.12	1.12	1.04			3.19	3.19	3.34
wind	-1.4 m/s	velocity	4.78	7.87	8.02	8.10	8.02	7.94	8.02	7.73	7.59	7.59	9.66	7.42	7.99	7.99	7.63
FINAL - 2020 Japanese National Championships (Niigata, JPN)															<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>		
date	03-Oct-20	time	2.58	3.63	4.65	5.66	6.69	7.71	8.74	9.78	10.82	11.89	13.02	6 / 1			
reaction time	0.115	interval	1.05	1.02	1.01	1.03	1.02	1.03	1.04	1.04	1.07	1.13	PB		3.08	3.08	3.15
wind	-0.1 m/s	velocity	5.04	8.10	8.33	8.42	8.25	8.33	8.25	8.17	8.17	7.94	8.89	7.68	8.28	8.28	8.10
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)															<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>		
date	20-Sep-20	time	2.62	3.67	4.70	5.72	6.73	7.75	8.77	9.80	10.86	11.93	13.13	6 / 1			
reaction time	0.152	interval	1.05	1.03	1.02	1.01	1.02	1.02	1.03	1.06	1.07	1.20			3.10	3.05	3.16
wind	0.0 m/s	velocity	4.96	8.10	8.25	8.33	8.42	8.33	8.33	8.25	8.02	7.94	8.37	7.62	8.23	8.36	8.07
FINAL - 2020 Athlete Night Games (Fukui, JPN)															<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>		
date	29-Aug-20	time	2.62	3.64	4.68	5.68	6.69	7.68	8.69	9.71	10.73	11.78	12.87	/ 1			
reaction time		interval	1.02	1.04	1.00	1.01	0.99	1.01	1.02	1.02	1.05	1.09			3.06	3.01	3.09
wind	2.1 m/s	velocity	4.96	8.33	8.17	8.50	8.42	8.59	8.42	8.33	8.33	8.10	9.22	7.77	8.33	8.47	8.25
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)															<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>		
date	23-Aug-20	time	2.65	3.70	4.72	5.74	6.77	7.79	8.83	9.86	10.90	11.96	13.09	7 / 2			
reaction time	0.131	interval	1.05	1.02	1.02	1.03	1.02	1.04	1.03	1.04	1.06	1.13	PB		3.09	3.09	3.13
wind	0.3 m/s	velocity	4.91	8.10	8.33	8.33	8.25	8.33	8.17	8.25	8.17	8.02	8.89	7.64	8.25	8.25	8.15
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)															<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>		
date	29-Jun-19	time	2.62	3.65	4.68	5.71	6.74	7.77	8.81	9.86	10.92	11.99	13.15	6 / 2			
reaction time	0.123	interval	1.03	1.03	1.03	1.03	1.03	1.04	1.05	1.06	1.07	1.16	PB		3.09	3.10	3.18
wind	0.6 m/s	velocity	4.96	8.25	8.25	8.25	8.25	8.25	8.17	8.10	8.02	7.94	9.05	7.60	8.25	8.23	8.02
FINAL - 2019 Fuse Sprint (Tottori, JPN)															<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>		
date	02-Jun-19	time	2.60	3.66	4.69	5.70	6.72	7.75	8.78	9.81	10.87	11.92	13.11	6 / 3			
reaction time	0.141	interval	1.06	1.03	1.01	1.02	1.03	1.03	1.03	1.06	1.05	1.19			3.10	3.08	3.14
wind	3.5 m/s	velocity	5.00	8.02	8.25	8.42	8.33	8.25	8.25	8.25	8.02	8.10	8.82	7.63	8.23	8.28	8.12
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)															<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>		

date	19-May-19	time	2.63	3.68	4.72	5.76	6.79	7.82	8.87	9.92	10.99	12.12	13.37	3 / 9			
reaction time	0.132	interval		1.05	1.04	1.04	1.03	1.03	1.05	1.05	1.07	1.13	1.25		3.13	3.11	3.25
wind	0.4 m/s	velocity	4.94	8.10	8.17	8.17	8.25	8.25	8.10	8.10	7.94	7.52	8.40	7.48	8.15	8.20	7.85
FINAL - 2019 Kinami Memorial (Osaka, JPN)														<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>			
date	06-May-19	time	2.60	3.68	4.75	5.81	6.84	7.88	8.90	9.96	11.02	12.09	13.27	3 / 3			
reaction time		interval		1.08	1.07	1.06	1.03	1.04	1.02	1.06	1.06	1.07	1.18		3.21	3.09	3.19
wind	0.6 m/s	velocity	5.00	7.87	7.94	8.02	8.25	8.17	8.33	8.02	8.02	7.94	8.90	7.54	7.94	8.25	7.99
FINAL - 2019 Asian Athletics Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>			
date	24-Apr-19	time	2.63	3.69	4.73	5.77	6.79	7.82	8.87	9.94	11.00	12.10	13.28	7 / 3			
reaction time	0.156	interval		1.06	1.04	1.04	1.02	1.03	1.05	1.07	1.06	1.10	1.18		3.14	3.10	3.23
wind	1.3 m/s	velocity	4.94	8.02	8.17	8.17	8.33	8.25	8.10	7.94	8.02	7.73	8.90	7.53	8.12	8.23	7.89
Heat 1 - 2019 Asian Athletics Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>			
date	23-Apr-19	time	2.63	3.70	4.75	5.80	6.84	7.87	8.91	9.96	11.01	12.11	13.31	7 / 2			
reaction time		interval		1.07	1.05	1.05	1.04	1.03	1.04	1.05	1.05	1.10	1.20		3.17	3.11	3.20
wind	1.3 m/s	velocity	4.94	7.94	8.10	8.10	8.17	8.25	8.17	8.10	8.10	7.73	8.75	7.51	8.04	8.20	7.97
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	24-Jun-18	time	2.65	3.70	4.73	5.77	6.79	7.81	8.83	9.86	10.90	11.96	13.17	7 / 1			
reaction time	0.174	interval		1.05	1.03	1.04	1.02	1.02	1.02	1.03	1.04	1.06	1.21	PB	3.12	3.06	3.13
wind	1.1 m/s	velocity	4.91	8.10	8.25	8.17	8.33	8.33	8.33	8.25	8.17	8.02	8.68	7.59	8.17	8.33	8.15
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	20-May-18	time	2.63	3.69	4.76	5.81	6.86	7.90	8.95	10.03	11.15	12.27	13.51	2 / 6			
reaction time	0.141	interval		1.06	1.07	1.05	1.05	1.04	1.05	1.08	1.12	1.12	1.24		3.18	3.14	3.32
wind	-0.6 m/s	velocity	4.94	8.02	7.94	8.10	8.10	8.17	8.10	7.87	7.59	7.59	8.47	7.40	8.02	8.12	7.68
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	06-May-18	time	2.73	3.82	4.90	5.95	7.01	8.07	9.16	10.26	11.37	12.51	13.76	9 / 7			
reaction time		interval		1.09	1.08	1.05	1.06	1.06	1.09	1.10	1.11	1.14	1.25		3.22	3.21	3.35
wind	-0.5 m/s	velocity	4.76	7.80	7.87	8.10	8.02	8.02	7.80	7.73	7.66	7.46	8.40	7.27	7.92	7.94	7.61
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	29-Apr-18	time	2.67	3.74	4.81	5.86	6.91	7.93	9.00	10.06	11.13	12.22	13.44	7 / 7			
reaction time		interval		1.07	1.07	1.05	1.05	1.02	1.07	1.06	1.07	1.09	1.22		3.19	3.14	3.22
wind	3.6 m/s	velocity	4.87	7.94	7.94	8.10	8.10	8.33	7.94	8.02	7.94	7.80	8.61	7.44	7.99	8.12	7.92
FINAL - 2017 National Sports Festival (Matsuyama, JPN)														<i>(2017.10.10) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>			
date	09-Oct-17	time	2.61	3.69	4.72	5.76	6.78	7.79	8.83	9.88	10.94	12.01	13.18	5 / 1			
reaction time	0.128	interval		1.08	1.03	1.04	1.02	1.01	1.04	1.05	1.06	1.07	1.17	PB	3.15	3.07	3.18
wind	0.5 m/s	velocity	4.98	7.87	8.25	8.17	8.33	8.42	8.17	8.10	8.02	7.94	8.97	7.59	8.10	8.31	8.02
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>			
date	07-May-17	time	2.64	3.71	4.77	5.80	6.84	7.88	8.93	9.98	11.03	12.10	13.27	2 / 2			
reaction time		interval		1.07	1.06	1.03	1.04	1.04	1.05	1.05	1.05	1.07	1.17	PB	3.16	3.13	3.17
wind	-0.2 m/s	velocity	4.92	7.94	8.02	8.25	8.17	8.17	8.10	8.10	8.10	7.94	8.97	7.54	8.07	8.15	8.04
FINAL - 2017 Michitaka Memorial (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>			
date	07-May-17	time	2.69	3.75	4.81	5.86	6.91	7.95	9.04	10.12	11.20	12.30	13.52	7 / 4			
reaction time		interval		1.06	1.06	1.05	1.05	1.04	1.09	1.08	1.08	1.10	1.22		3.17	3.18	3.26
wind	-0.6 m/s	velocity	4.83	8.02	8.02	8.10	8.10	8.17	7.80	7.87	7.87	7.73	8.61	7.40	8.04	8.02	7.82
FINAL - 2016 Japanese National Championships (Nagoya, JPN)														<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>			
date	26-Jun-16	time	2.65	3.73	4.76	5.79	6.84	7.88	8.96	10.03	11.12	12.22	13.38	3 / 3			
reaction time	0.146	interval		1.08	1.03	1.03	1.05	1.04	1.08	1.07	1.09	1.10	1.16		3.14	3.17	3.26
wind	2.1 m/s	velocity	4.91	7.87	8.25	8.25	8.10	8.17	7.87	7.94	7.80	7.73	9.05	7.47	8.12	8.04	7.82
FINAL - 2016 Japanese University Championships (Hiratsuka, JPN)														<i>(2016.06.11) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>			
date	10-Jun-16	time	2.65	3.70	4.76	5.79	6.83	7.89	8.94	10.00	11.09	12.19	13.33	3 / 1			
reaction time	0.141	interval		1.05	1.06	1.03	1.04	1.06	1.05	1.06	1.09	1.10	1.14		3.14	3.15	3.25
wind	1.9 m/s	velocity	4.91	8.10	8.02	8.25	8.17	8.02	8.10	8.02	7.80	7.73	9.21	7.50	8.12	8.10	7.85
FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)														<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>			
date	29-Apr-16	time	2.69	3.80	4.95	6.06	7.14	8.23	9.33	10.42	11.54	12.69	13.96	8 / 8			
reaction time		interval		1.11	1.15	1.11	1.08	1.09	1.10	1.09	1.12	1.15	1.27		3.37	3.27	3.36
wind	1.1 m/s	velocity	4.83	7.66	7.39	7.66	7.87	7.80	7.73	7.80	7.59	7.39	8.27	7.16	7.57	7.80	7.59
FINAL - 2015 Japanese National Championships (Niigata, JPN)														<i>Takshima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>			
date	27-Jun-15	time	2.67	3.71	4.76	5.83	6.87	7.92	8.97	10.04	11.15	12.24	13.42	7 / 3			
reaction time	0.163	interval		1.04	1.05	1.07	1.04	1.05	1.05	1.07	1.11	1.09	1.18		3.16	3.14	3.27
wind	-0.2 m/s	velocity	4.87	8.17	8.10	7.94	8.17	8.10	8.10	7.94	7.66	7.80	8.90	7.45	8.07	8.12	7.80

FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)

date	10-May-15	time	2.68	3.75	4.81	5.86	6.90	7.95	9.04	10.13	11.23	12.35	13.59	8 / 7				
reaction time	0.167	interval		1.07	1.06	1.05	1.04	1.05	1.09	1.09	1.10	1.12	1.24		3.18	3.18	3.31	
wind	0.9 m/s	velocity	4.85	7.94	8.02	8.10	8.17	8.10	7.80	7.80	7.73	7.59	8.47	7.36	8.02	8.02	7.70	

*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions***FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)**

date	03-May-15	time	2.65	3.76	4.85	5.90	6.95	8.00	9.08	10.18	11.30	12.42	13.65	/ 6				
reaction time		interval		1.11	1.09	1.05	1.05	1.05	1.08	1.10	1.12	1.12	1.23		3.25	3.18	3.34	
wind	0.2 m/s	velocity	4.91	7.66	7.80	8.10	8.10	8.10	7.87	7.73	7.59	7.59	8.54	7.33	7.85	8.02	7.63	

*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions***Araujo, Martha (COL) (1996)**

Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	08-Aug-24	time	2.52	3.60	4.63	5.64	6.65	7.67	8.70	9.74	10.78	11.84	13.15	5 / 4			
reaction time	0.160	interval		1.08	1.03	1.01	1.01	1.02	1.03	1.04	1.04	1.06	1.31		3.12	3.06	3.14
wind	-0.1 m/s	velocity	5.16	7.87	8.25	8.42	8.42	8.33	8.25	8.17	8.17	8.02	7.67	7.60	8.17	8.33	8.12

*Paris 2024 Olympic Games - Results Book (2024)***Argunova, Nina (RUS) (1989)**

FINAL - 2012 Windsprint (Sundsvall, SWE)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	17-Jun-12	time	2.77	3.83	4.85	5.89	6.91	7.91	8.97	10.02	11.07	12.14	13.38	/ 1			
reaction time		interval		1.06	1.02	1.04	1.02	1.00	1.06	1.05	1.05	1.07	1.24		3.12	3.08	3.17
wind	0.8 m/s	velocity	4.69	8.02	8.33	8.17	8.33	8.50	8.02	8.10	8.10	7.94	8.47	7.47	8.17	8.28	8.04

*Blomkvist (2012) - www.sub13.se***Armstrong, Alia (USA) (2000)**

FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	30-Jun-24	time	2.54	3.57	4.60	5.58	6.56	7.54	8.54	9.57	10.60	11.68	12.89	9 / 9			
reaction time		interval		1.03	1.03	0.98	0.98	0.98	1.00	1.03	1.03	1.08	1.21		3.04	2.96	3.14
wind	0.7 m/s	velocity	5.12	8.25	8.25	8.67	8.67	8.67	8.50	8.25	8.25	7.87	8.31	7.76	8.39	8.61	8.12

*Henson (2024) - Athlete First: 2024 year end hurdle report***Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)**

date	29-Jun-24	time	2.54	3.55	4.56	5.55	6.52	7.50	8.49	9.48	10.50	11.53	12.67	4 / 4			
reaction time		interval		1.01	1.01	0.99	0.97	0.98	0.99	0.99	1.02	1.03	1.14		3.01	2.94	3.04
wind	0.8 m/s	velocity	5.12	8.42	8.42	8.59	8.76	8.67	8.59	8.59	8.33	8.25	8.82	7.89	8.47	8.67	8.39

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

date	28-Jun-24	time	2.52	3.55	4.55	5.52	6.52	7.49	8.51	9.51	10.56	11.61	12.74	2 / 3			
reaction time		interval		1.03	1.00	0.97	1.00	0.97	1.02	1.00	1.05	1.05	1.13		3.00	2.99	3.10
wind	0.2 m/s	velocity	5.16	8.25	8.50	8.76	8.50	8.76	8.33	8.50	8.10	8.10	8.89	7.85	8.50	8.53	8.23

*Henson (2024) - Athlete First: 2024 year end hurdle report***FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)**

date	08-Jul-23	time	2.53	3.55	4.53	5.50	6.47	7.45	8.42	9.42	10.44	11.49	12.70	1 / 7			
reaction time		interval		1.02	0.98	0.97	0.97	0.98	0.97	1.00	1.02	1.05	1.21		2.97	2.92	3.07
wind	0.4 m/s	velocity	5.14	8.33	8.67	8.76	8.76	8.67	8.76	8.50	8.33	8.10	8.31	7.87	8.59	8.73	8.31

*Henson (2023) - Athlete First: 2023 year end hurdle report***FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)**

date	10-Jun-23	time	2.44	3.44	4.41	5.36	6.32	7.29	8.32	9.34	10.36	11.36	12.49	5 / 3			
reaction time		interval		1.00	0.97	0.95	0.96	0.97	1.03	1.02	1.02	1.00	1.13		2.92	2.96	3.04
wind	3.8 m/s	velocity	5.33	8.50	8.76	8.95	8.85	8.76	8.25	8.33	8.33	8.50	8.89	8.01	8.73	8.61	8.39

*Henson (2023) - Athlete First: 2023 year end hurdle report***FINAL - 2022 World Athletics Championships (Eugene, OR)**

date	24-Jul-22	time	2.44	3.45	4.42	5.36	6.30	7.25	8.21	9.21	10.20	11.23	12.31	6 / 4			
reaction time	0.125	interval		1.01	0.97	0.94	0.94	0.95	0.96	1.00	0.99	1.03	1.08		2.92	2.85	3.02
wind	2.5 m/s	velocity	5.33	8.42	8.76	9.04	9.04	8.95	8.85	8.50	8.59	8.25	9.31	8.12	8.73	8.95	8.44

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

date	24-Jul-22	time	2.43	3.42	4.37	5.36	6.32	7.28	8.24	9.22	10.22	11.23	12.43	5 / 1			
reaction time	0.153	interval		0.99	0.95	0.99	0.96	0.96	0.96	0.98	1.00	1.01	1.20	PB	2.93	2.88	2.99
wind	-0.1 m/s	velocity	5.35	8.59	8.95	8.59	8.85	8.85	8.85	8.67	8.50	8.42	8.38	8.05	8.70	8.85	8.53

*Henson (2022) - Athlete First: 2022 year end hurdle report***Heat 5 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)**

date	23-Jul-22	time	2.46	3.46	4.43	5.38	6.35	7.33	8.33	9.30	10.30	11.30	12.48	3 / 1			
reaction time	0.149	interval		1.00	0.97	0.95	0.97	0.98	1.00	0.97	1.00	1.00	1.18		2.92	2.95	2.97
wind	0.5 m/s	velocity	5.28	8.50	8.76	8.95	8.76	8.67	8.50	8.76	8.50	8.50	8.52	8.01	8.73	8.64	8.59

*Henson (2022) - Athlete First: 2022 year end hurdle report***FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)**

date	25-Jun-22	time	2.50	3.52	4.52	5.49	6.46	7.42	8.39	9.39	10.38	11.40	12.47	8 / 3			
reaction time		interval		1.02	1.00	0.97	0.97	0.96	0.97	1.00	0.99	1.02	1.07	PB	2.99	2.90	3.01
wind	-1.4 m/s	velocity	5.20	8.33	8.50	8.76	8.76	8.85	8.76	8.50	8.59	8.33	9.39	8.02	8.53	8.79	8.47

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

date	11-Jun-22	time	2.44	3.44	4.44	5.42	6.40	7.38	8.36	9.36	10.36	11.40	12.57	5 / 1			
reaction time		interval		1.00	1.00	0.98	0.98	0.98	0.98	1.00	1.00	1.04	1.17		2.98	2.94	3.04
wind	-0.2 m/s	velocity	5.33	8.50	8.50	8.67	8.67	8.67	8.67	8.50	8.50	8.17	8.59	7.96	8.56	8.67	8.39

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

University FINAL - 2022 Texas Relays (Austin, TX) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	26-Mar-22	time	2.47	3.45	4.43	5.37	6.33	7.30	8.26	9.23	10.20	11.18	12.33	4 / 1				
reaction time		interval		0.98	0.98	0.94	0.96	0.97	0.96	0.97	0.97	0.98	1.15		2.90	2.89	2.92	
wind	2.5 m/s	velocity	5.26	8.67	8.67	9.04	8.85	8.76	8.85	8.76	8.76	8.67	8.74	8.11	8.79	8.82	8.73	

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

date	20-Jun-21	time	2.43	3.45	4.45	5.47	6.47	7.47	8.47	9.49	10.54	11.59	12.84	1 / 8				
reaction time	0.153	interval		1.02	1.00	1.02	1.00	1.00	1.00	1.02	1.05	1.05	1.25		3.04	3.00	3.12	
wind	0.8 m/s	velocity	5.35	8.33	8.50	8.33	8.50	8.50	8.50	8.33	8.10	8.10	8.04	7.79	8.39	8.50	8.17	

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

date	20-Jun-21	time	2.43	3.43	4.43	5.43	6.40	7.38	8.36	9.36	10.40	11.43	12.65	1 / 5				
reaction time	0.154	interval		1.00	1.00	1.00	0.97	0.98	0.98	1.00	1.04	1.03	1.22	PB	3.00	2.93	3.07	
wind	1.2 m/s	velocity	5.35	8.50	8.50	8.50	8.76	8.67	8.67	8.50	8.17	8.25	8.24	7.91	8.50	8.70	8.31	

Aron, Haydy (FRA) (1973)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2002 European Championships (Munich, GER)***Graubner (2009) - http://www.fgs.uni-halle.de*

date	09-Aug-02	time	2.72	3.74	4.76	5.76	6.76	7.76	8.76	9.80	10.84	11.92	13.05	1 / 5				
reaction time	0.203	interval		1.02	1.02	1.00	1.00	1.00	1.00	1.04	1.04	1.08	1.13		3.04	3.00	3.16	
wind	-0.7 m/s	velocity	4.78	8.33	8.33	8.50	8.50	8.50	8.50	8.17	8.17	7.87	9.29	7.66	8.39	8.50	8.07	

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

date	09-Aug-02	time	2.61	3.66	4.67	5.67	6.66	7.65	8.65	9.67	10.69	11.76	12.93	1 / 2				
reaction time	0.153	interval		1.05	1.01	1.00	0.99	0.99	1.00	1.02	1.02	1.07	1.17	PB	3.06	2.98	3.11	
wind	0.6 m/s	velocity	4.98	8.10	8.42	8.50	8.59	8.59	8.50	8.33	8.33	7.94	8.97	7.73	8.33	8.56	8.20	

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

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

Asagi, Tsukiha (JPN) (2003)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2021 Japanese High School National Championships (Fukui, JPN)***Shibayama (2021) - national high school and U20 national championships*

date	01-Aug-21	time	2.65	3.72	4.78	5.83	6.89	7.95	9.03	10.08	11.20	12.30	13.53	4 / 2				
reaction time	0.134	interval		1.07	1.06	1.05	1.06	1.06	1.08	1.05	1.12	1.10	1.23	PB	3.18	3.20	3.27	
wind	1.8 m/s	velocity	4.91	7.94	8.02	8.10	8.02	8.02	7.87	8.10	7.59	7.73	8.17	7.39	8.02	7.97	7.80	

FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

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

U18 FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (76cm)*Enomoto (2019) - research on athlete performance and technique- 2019 data book*

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

Asba, Haruka (JPN)**H1 H2 H3 H4 H5 H6 H7 H8 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)***(2017) - tfdata-store.com/2017/04/07/post-249/*

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

Augustus, Olutoyin (NGR) (1979)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 1 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

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

Avikainen, Viivi (FIN) (1987)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2020 Finnish National Championships (Turku, FIN) (TV Analysis)***Henson (2020) - Athlete First: 2020 year end hurdle report*

date	14-Aug-20	time	2.73	3.86	4.93	6.03	7.10	8.16	9.23	10.33	11.43	12.56	13.87	2 / 7				
reaction time	0.163	interval		1.13	1.07	1.10	1.07	1.06	1.07	1.10	1.10	1.13	1.31		3.30	3.20	3.33	
wind	1.0 m/s	velocity	4.76	7.52	7.94	7.73	7.94	8.02	7.94	7.73	7.73	7.52	7.67	7.21	7.73	7.97	7.66	

FINAL - 2020 Motonet GP (Jyräskylä, FIN) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

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

Avame, Hinano (JPN)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)***Takashima (2023) - national high school sports festival - biomechanics data*

date	06-Aug-23	time	2.77	3.87	4.96	6.04	7.13	8.20	9.31	10.42	11.54	12.68	13.92	2 / 5					
reaction time	0.204	interval		1.10	1.09	1.08	1.09	1.07	1.11	1.11	1.12	1.14	1.24			3.27	3.27	3.37	
wind	0.8 m/s	velocity	4.69	7.73	7.80	7.87	7.80	7.94	7.66	7.66	7.59	7.46	8.10	7.18		7.80	7.80	7.57	
Ayuhashi, Yumeka (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U18 FINAL - 2018 National Sports Festival (Fukui, JPN) (76cm)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>					
date	07-Oct-18	time	2.71	3.81	4.90	5.94	7.02	8.08	9.17	10.27	11.37	12.50		13.75	1 / 2				
reaction time	0.159	interval		1.10	1.09	1.04	1.08	1.06	1.09	1.10	1.10	1.13	1.25			3.23	3.23	3.33	
wind	2.0 m/s	velocity	4.80	7.73	7.80	8.17	7.87	8.02	7.80	7.73	7.73	7.52	8.40	7.27		7.89	7.89	7.66	
Azcárate, Nerea (ESP) (1974)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)														<i>Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas</i>					
date	01-Aug-98	time	2.60	3.66	4.77	5.84	6.93	7.99	9.08	10.18	11.25	12.39		13.77	4 / 2				
reaction time		interval		1.06	1.11	1.07	1.09	1.06	1.09	1.10	1.07	1.14	1.38			3.24	3.24	3.31	
wind	0.0 m/s	velocity	5.00	8.02	7.66	7.94	7.80	8.02	7.80	7.73	7.94	7.46	7.61	7.26		7.87	7.87	7.70	
Bakker, Sharon (NED) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Memorial Van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	04-Sep-20	time	2.57	3.67	4.73										dnf	3 / --			
reaction time	0.130	interval		1.10	1.06														
wind	-0.2 m/s	velocity	5.06	7.73	8.02														
Semi-Final 3 - 2017 IAAF World Championships (London, GBR)														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>					
date	11-Aug-17	time	2.60	3.70	4.75	5.78	6.80	7.80	8.83	9.86	10.91	11.97		13.29	3 / 8				
reaction time	0.183	interval		1.10	1.05	1.03	1.02	1.00	1.03	1.03	1.05	1.06	1.32			3.18	3.05	3.14	
wind	0.2 m/s	velocity	5.00	7.73	8.10	8.25	8.33	8.50	8.25	8.25	8.10	8.02	7.95	7.52		8.02	8.36	8.12	
Balzer-Richert, Karin (GDR) (1938)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1972 Olympic Games (Munich, FRG)														<i>Kay (1972) - BAAB Munich Technical Report</i>					
date	08-Sep-72	time	2.5	3.6	4.6	5.7	6.7	7.7	8.7	9.7	10.7	11.8		12.90	5 / 3				
reaction time		interval		1.10	1.00	1.10	1.00	1.00	1.00	1.00	1.00	1.10	1.10	PB		3.20	3.00	3.10	
wind	-0.6 m/s	velocity	5.20	7.73	8.50	7.73	8.50	8.50	8.50	8.50	8.50	7.73	9.55	7.75		7.97	8.50	8.23	
Ban, Nozomi (JPN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FNAL - 2018 Japanese National High School Championships (Nagoya, JPN)														<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>					
date	02-Aug-18	time	2.69	3.81	4.92	6.00	7.12	8.20	9.32	10.44	11.55	12.68		13.95	2 / 7				
reaction time		interval		1.12	1.11	1.08	1.12	1.08	1.12	1.12	1.11	1.13	1.27			3.31	3.32	3.36	
wind	-0.3 m/s	velocity	4.83	7.59	7.66	7.87	7.59	7.87	7.59	7.59	7.66	7.52	8.27	7.17		7.70	7.68	7.59	
FNAL - 2017 Japanese National High School Championships (Yamagata, JPN)														<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data collection</i>					
date	02-Aug-17	time	2.72	3.86	4.99	6.12	7.26	8.40	9.55	10.72	11.88	13.07		14.35	2 / 7				
reaction time	0.159	interval		1.14	1.13	1.13	1.14	1.14	1.15	1.17	1.16	1.19	1.28			3.40	3.43	3.52	
wind	-2.9 m/s	velocity	4.78	7.46	7.52	7.52	7.46	7.46	7.39	7.26	7.33	7.14	8.20	6.97		7.50	7.43	7.24	
Bapte, Leticia (FRA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Repechage 2 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympc Games - Results Book (2024)</i>					
date	08-Aug-24	time	2.46	3.53	4.54	5.53	6.50	7.48	8.49	9.50	10.53	11.60		12.92	8 / 4				
reaction time	0.165	interval	7 steps	1.07	1.01	0.99	0.97	0.98	1.01	1.01	1.03	1.07	1.32			3.07	2.96	3.11	
wind	0.4 m/s	velocity	5.28	7.94	8.42	8.59	8.76	8.67	8.42	8.42	8.25	7.94	7.61	7.74		8.31	8.61	8.20	
Heat 4 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympc Games - Results Book (2024)</i>					
date	07-Aug-24	time	2.48	3.53	4.55	5.54	6.53	7.53	8.55	9.59	10.66	11.72		13.04	8 / 5				
reaction time	0.187	interval	7 steps	1.05	1.02	0.99	0.99	1.00	1.02	1.04	1.07	1.06	1.32			3.06	3.01	3.17	
wind	0.0 m/s	velocity	5.24	8.10	8.33	8.59	8.59	8.50	8.33	8.17	7.94	8.02	7.61	7.67		8.33	8.47	8.04	
Heat 1 - 2024 FBK Games (Hengelo, NED)														<i>Omega Timing (2024) - continental tour gold race analysis</i>					
date	07-Jul-24	time	2.44	3.53	4.53	5.50	6.54	7.57	8.60	9.64	10.68	11.74		13.04	8 / 5				
reaction time	0.147	interval	7 steps	1.09	1.00	0.97	1.04	1.03	1.03	1.04	1.04	1.06	1.30			3.06	3.10	3.14	
wind	0.3 m/s	velocity	5.33	7.80	8.50	8.76	8.17	8.25	8.25	8.17	8.17	8.02	7.73	7.67		8.33	8.23	8.12	
FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)														<i>Omega Timing (2023) - diamond league race analysis</i>					
date	21-Jul-23	time	2.45	3.50	4.50	5.48	6.46	7.44	8.44	9.43	10.45	11.48		12.73	1 / 6				
reaction time	0.153	interval	7 steps	1.05	1.00	0.98	0.98	0.98	1.00	0.99	1.02	1.03	1.25	PB		3.03	2.96	3.04	
wind	0.6 m/s	velocity	5.31	8.10	8.50	8.67	8.67	8.67	8.50	8.59	8.33	8.25	8.04	7.86		8.42	8.61	8.39	
FINAL - 2023 Bauhaus Galan (Stockholm, SWE)														<i>Omega Timing (2023) - diamond league race analysis</i>					
date	02-Jul-23	time	2.49	3.56	4.58	5.59	6.59	7.60	8.61	9.63	10.68	11.75		13.09	8 / 8				
reaction time	0.171	interval	7 steps	1.07	1.02	1.01	1.00	1.01	1.01	1.02	1.05	1.07	1.34			3.10	3.02	3.14	
wind	0.9 m/s	velocity	5.22	7.94	8.33	8.42	8.50	8.42	8.42	8.33	8.10	7.94	7.50	7.64		8.23	8.44	8.12	
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	24-Jul-22	time	2.53	3.60	4.58	5.58	6.53	7.51	8.51	9.53	10.63	11.68		12.93	1 / 6				
reaction time	0.157	interval	7 steps	1.07	0.98	1.00	0.95	0.98	1.00	1.02	1.10	1.05	1.25			3.05	2.93	3.17	

wind	0.3 m/s	velocity	5.14	7.94	8.67	8.50	8.95	8.67	8.50	8.33	7.73	8.10	8.04	7.73		8.36	8.70	8.04	
FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	18-Jun-22	time	2.50	3.57	4.60	5.60	6.59	7.60	8.61	9.64	10.69	11.76		13.05		2 / 7			
reaction time	0.157	interval	7 steps	1.07	1.03	1.00	0.99	1.01	1.01	1.03	1.05	1.07	1.29			3.10	3.01	3.15	
wind	-0.4 m/s	velocity	5.20	7.94	8.25	8.50	8.59	8.42	8.42	8.25	8.10	7.94	7.79	7.66		8.23	8.47	8.10	
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	12-Sep-20	time	2.63	3.70	4.79	5.87	6.89	7.90	8.92	9.97	11.04	12.12		13.43		3 / 4			
reaction time	0.215	interval	9 steps	1.07	1.09	1.08	1.02	1.01	1.02	1.05	1.07	1.08	1.31			3.24	3.05	3.20	
wind	1.5 m/s	velocity	4.94	7.94	7.80	7.87	8.33	8.42	8.33	8.10	7.94	7.87	7.67	7.45		7.87	8.36	7.97	
Barber, Aleesha (TTO) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2011 Windsprint (Sundsvall, SWE)														<i>Blomkvist (2011) - www.sub13.se</i>					
date	31-Jul-11	time	2.47	3.53	4.57	5.60	6.62	7.66	8.70	9.75	10.80	11.89		13.29		1 / 2			
reaction time		interval		1.06	1.04	1.03	1.02	1.04	1.04	1.05	1.05	1.09	1.40			3.13	3.10	3.19	
wind	1.4 m/s	velocity	5.26	8.02	8.17	8.25	8.33	8.17	8.17	8.10	8.10	7.80	7.50	7.52		8.15	8.23	7.99	
FINAL - 2010 Windsprint (Sundsvall, SWE)														<i>Blomkvist (2010) - 100/110m Hurdles: Development</i>					
date	08-Aug-10	time	2.68	3.72	4.75	5.81	6.83	7.85	8.88	9.94	10.99	12.09		13.31		1 / 1			
reaction time		interval		1.04	1.03	1.06	1.02	1.02	1.03	1.06	1.05	1.10	1.22			3.13	3.07	3.21	
wind	0.6 m/s	velocity	4.85	8.17	8.25	8.02	8.33	8.33	8.25	8.02	8.10	7.73	8.61	7.51		8.15	8.31	7.94	
Barber, Jade (USA) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)														<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>					
date	21-May-23	time	2.64	3.68	4.70	5.71	6.69	7.69	8.69	9.71	10.74	11.85		13.03		8 / 8			
reaction time	0.169	interval		1.04	1.02	1.01	0.98	1.00	1.00	1.02	1.03	1.11	1.18			3.07	2.98	3.16	
wind	0.4 m/s	velocity	4.92	8.17	8.33	8.42	8.67	8.50	8.50	8.33	8.25	7.66	8.52	7.67		8.31	8.56	8.07	
FINAL - 2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>					
date	03-Jun-22	time	2.60	3.66	4.68	5.68	6.64	7.66	8.66	9.68	10.70	11.76		12.98		8 / 3			
reaction time		interval		1.06	1.02	1.00	0.96	1.02	1.00	1.02	1.02	1.06	1.22			3.08	2.98	3.10	
wind	0.2 m/s	velocity	5.00	8.02	8.33	8.50	8.85	8.33	8.50	8.33	8.33	8.02	8.24	7.70		8.28	8.56	8.23	
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>					
date	29-Apr-18	time	2.67	3.67	4.72	5.73	6.74	7.73	8.75	9.76	10.79	11.83		12.98		6 / 1			
reaction time		interval		1.00	1.05	1.01	1.01	0.99	1.02	1.01	1.03	1.04	1.15			3.06	3.02	3.08	
wind	3.6 m/s	velocity	4.87	8.50	8.10	8.42	8.42	8.59	8.33	8.42	8.25	8.17	9.13	7.70		8.33	8.44	8.28	
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)														<i>(2017) - tfdata-store.com/2017/05/01/458/</i>					
date	29-Apr-17	time	2.64	3.71	4.77	5.81	6.84	7.87	8.89	9.88	10.94	12.00		13.13		5 / 1			
reaction time		interval		1.07	1.06	1.04	1.03	1.03	1.02	0.99	1.06	1.06	1.13			3.17	3.08	3.11	
wind	2.0 m/s	velocity	4.92	7.94	8.02	8.17	8.25	8.25	8.33	8.59	8.02	8.02	9.29	7.62		8.04	8.28	8.20	
Barber, Kaila (USA) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	10-Sep-19	time	2.58	3.66	4.80	5.86	6.93	8.00	9.06	10.15	11.20	12.30		13.64		9 / 8			
reaction time	0.192	interval		1.08	1.14	1.06	1.07	1.07	1.06	1.09	1.05	1.10	1.34			3.28	3.20	3.24	
wind	0.1 m/s	velocity	5.04	7.87	7.46	8.02	7.94	7.94	8.02	7.80	8.10	7.73	7.84	7.33		7.77	7.97	7.87	
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>					
date	29-Apr-18	time	2.59	3.68	4.72	5.76	6.78	7.80	8.85	9.88	10.92	12.00		13.21		8 / 5			
reaction time		interval		1.09	1.04	1.04	1.02	1.02	1.05	1.03	1.04	1.08	1.21			3.17	3.09	3.15	
wind	3.6 m/s	velocity	5.02	7.80	8.17	8.17	8.33	8.33	8.10	8.25	8.17	7.87	8.68	7.57		8.04	8.25	8.10	
Barborová, Michaela (CZE) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)														<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national championships</i>					
date	14-Feb-15	time	2.82	3.97	5.13	6.29	7.47							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			
Barrett, Alicia (GBR) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	13-Jul-21	time	2.63	3.77	4.82									dnf		1 / --			
reaction time	0.180	interval		1.14	1.05														
wind	1.5 m/s	velocity	4.94	7.46	8.10														
Bates, Joyce (USA) (1977)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1996 USATF National Junior Championships (Delaware, OH)														<i>USATF Women's Sprint Development (1996)</i>					
date	29-Jun-96	time	2.46	3.60	4.63	5.63	6.70	7.73	8.79	9.88	10.95	12.01		13.42		4 / 2			
reaction time		interval		1.14	1.03	1.00	1.07	1.03	1.06	1.09	1.07	1.06	1.41			3.17	3.16	3.22	
wind	-2.5 m/s	velocity	5.28	7.46	8.25	8.50	7.94	8.25	8.02	7.80	7.94	8.02	7.45	7.45		8.04	8.07	7.92	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Baumann, Julie (SUI) (1964)																		
FINAL - 1998 European Championships (Budapest, HUN)												<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>						
date	23-Aug-98	time	2.57	3.61	4.66	5.71	6.70	7.74	8.75	9.77	10.79	11.85		13.15	2 / 7			
reaction time		interval		1.04	1.05	1.05	0.99	1.04	1.01	1.02	1.02	1.06	1.30			3.14	3.04	3.10
wind	1.5 m/s	velocity	5.06	8.17	8.10	8.10	8.59	8.17	8.42	8.33	8.33	8.02	8.08	7.60		8.12	8.39	8.23
Beaucarne, Chloë (BEL) (1997)																		
FINAL - 2020 Memorial Van Damme (Brussels, BEL) (TV Analysis)												<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>						
date	04-Sep-20	time	2.73	3.83	4.93	6.00	7.07	8.13	9.27	10.37	11.50	12.60		13.93	2 / 6			
reaction time	0.179	interval		1.10	1.10	1.07	1.07	1.06	1.14	1.10	1.13	1.10	1.33			3.27	3.27	3.33
wind	-0.2 m/s	velocity	4.76	7.73	7.73	7.94	7.94	8.02	7.46	7.73	7.52	7.73	7.56	7.18		7.80	7.80	7.66
Beahan, Brianna (AUS) (1991)																		
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)												<i>CAA Hurdle Development (2019)</i>						
date	06-Oct-19	time	2.68	3.71	4.74	5.76	6.78	7.80	8.86	9.92	10.98	12.06		13.38	2 / 8 7			
reaction time	0.131	interval		1.03	1.03	1.02	1.02	1.02	1.06	1.06	1.06	1.08	1.32			3.08	3.10	3.20
wind	0.6 m/s	velocity	4.85	8.25	8.25	8.33	8.33	8.33	8.02	8.02	8.02	7.87	7.61	7.47		8.28	8.23	7.97
Beattie, Danielle (USA) (2001)																		
FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)												<i>CAA Hurdle Development (2020)</i>						
date	01-Feb-20	time	2.74	3.79	4.83	5.89	6.94							8.30	3 / 3			
reaction time	0.202	interval		1.05	1.04	1.06	1.05						1.36			3.15		
wind		velocity	4.74	8.10	8.17	8.02	8.10						9.56	7.23		8.10		
Benach, Xénia (ESP) (2000)																		
Heat 3 - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)												<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>						
date	03-Mar-24	time	2.60	3.66	4.66	5.66	6.70							8.08	7 / 2			
reaction time	0.124	interval		1.06	1.00	1.00	1.04						1.38			3.06		
wind		velocity	5.00	8.02	8.50	8.50	8.17						9.42	7.43		8.33		
Bendová, Daniela (CZE) (1997)																		
Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)												<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>						
date	28-Jun-14	time	2.91	4.13	5.32	6.53	7.74	8.95	10.20	11.43	12.64	13.90		15.26	4 / 4			
reaction time	0.202	interval		1.22	1.19	1.21	1.21	1.25	1.23	1.21	1.26	1.36				3.62	3.67	3.70
wind	-1.3 m/s	velocity	4.47	6.97	7.14	7.02	7.02	7.02	6.80	6.91	7.02	6.75	7.72	6.55		7.04	6.95	6.89
Berend, Gudrun (GDR) (1955)																		
FINAL - 1976 Olympic Games (Montreal, CAN)												<i>Ilyin (1979) - successes of women hurdlers</i>						
date	29-Jul-76	time	2.58	3.62	4.64	5.64	6.62	7.62	8.62	9.62	10.64	11.66		12.82	1 / 4			
reaction time	0.107	interval		1.04	1.02	1.00	0.98	1.00	1.00	1.00	1.02	1.02	1.16			3.06	2.98	3.04
wind	0.0 m/s	velocity	5.04	8.17	8.33	8.50	8.67	8.50	8.50	8.50	8.33	8.33	9.05	7.80		8.33	8.56	8.39
Berings, Eline (BEL) (1986)																		
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)												<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>						
date	31-Aug-18	time	2.52	3.54	4.54	5.56	6.56	7.58	8.58	9.62	10.66	11.74		12.94	9 / 7			
reaction time	0.107	interval		1.02	1.00	1.02	1.00	1.02	1.00	1.04	1.04	1.08	1.20			3.04	3.02	3.16
wind	0.1 m/s	velocity	5.16	8.33	8.50	8.33	8.50	8.33	8.50	8.17	8.17	7.87	8.75	7.73		8.39	8.44	8.07
FINAL - 2018 Bislett Games (Oslo, NOR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>						
date	07-Jun-18	time	2.52	3.56	4.56	5.56	6.56	7.56	8.58	9.62	10.64	11.66		12.89	8 / 6			
reaction time	0.121	interval		1.04	1.00	1.00	1.00	1.00	1.02	1.04	1.02	1.02	1.23			3.04	3.02	3.08
wind	1.1 m/s	velocity	5.16	8.17	8.50	8.50	8.50	8.50	8.33	8.17	8.33	8.33	8.54	7.76		8.39	8.44	8.28
FINAL - 2013 European Indoor Championships (Göteborg, SWE)												<i>Blomkvist (2013) - www.elitandslag.se/SprintHäck/KorthHäck.aspx</i>						
date	01-Mar-13	time	2.59	3.63	4.68	5.70	6.71							8.08	8 / 6 5			
reaction time	0.127	interval		1.04	1.05	1.02	1.01						1.37			3.11		
wind		velocity	5.02	8.17	8.10	8.33	8.42						9.49	7.43		8.20		
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)												<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
date	19-Aug-09	time	2.60	3.64	4.66	5.66	6.66	7.66	8.67	9.69	10.73	11.79		12.94	1 / 6			
reaction time	0.143	interval		1.04	1.02	1.00	1.00	1.00	1.01	1.02	1.04	1.06	1.15	NR		3.06	3.01	3.12
wind	0.3 m/s	velocity	5.00	8.17	8.33	8.50	8.50	8.50	8.42	8.33	8.17	8.02	9.13	7.73		8.39	8.36	8.20
FINAL - 2009 ISTAF (Berlin, GER)												<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>						
date	14-Jun-09	time	2.67	3.73	4.79	5.81	6.83	7.87	8.90	9.93	10.97	12.04		13.20	/ 8			
reaction time	0.196	interval		1.06	1.06	1.02	1.02	1.04	1.03	1.03	1.04	1.07	1.16			3.14	3.09	3.14
wind	-0.1 m/s	velocity	4.87	8.02	8.02	8.33	8.33	8.17	8.25	8.25	8.17	7.94	9.05	7.58		8.12	8.25	8.12
Heat 4 - 2007 IAAF World Championships (Osaka, JPN) <i>Kawakami (2010) - improving women's 100m hurdle of japanese hurdler- analysis of race patterns based on touchdown times</i>																		
date	27-Aug-07	time	2.65	3.67	4.70	5.72	6.75	7.75	8.79	9.79	10.82	11.87		12.97	5 / 6			
reaction time	0.124	interval		1.02	1.03	1.02	1.03	1.00	1.04	1.00	1.03	1.05	1.10	NR		3.07	3.07	3.08
wind	0.4 m/s	velocity	4.91	8.33	8.25	8.33	8.25	8.50	8.17	8.50	8.25	8.10	9.55	7.71		8.31	8.31	8.28

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bessho, Miyu (JPN) (2007)																	
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)																	
date	01-Aug-24	time	2.69	3.77	4.85	5.93	7.00	8.08	9.17	10.29	11.42	12.57	13.83	2 / 6			
reaction time	0.164	interval		1.08	1.08	1.08	1.07	1.08	1.09	1.12	1.13	1.15	1.26		3.24	3.24	3.40
wind	1.0 m/s	velocity	4.83	7.87	7.87	7.87	7.94	7.87	7.80	7.59	7.52	7.39	7.98	7.23	7.87	7.87	7.50
Bethel, Ashley (USA) (1980)																	
FINAL - 1996 USATF National Junior Championships (Delaware, OH)																	
date	29-Jun-96	time	2.60	3.78	4.85	5.97	7.11	8.22	9.41	10.58	11.75	12.91	14.48	7 / 6			
reaction time		interval		1.18	1.07	1.12	1.14	1.11	1.19	1.17	1.17	1.16	1.57		3.37	3.44	3.50
wind	-2.5 m/s	velocity	5.00	7.20	7.94	7.59	7.46	7.66	7.14	7.26	7.26	7.33	6.69	6.91	7.57	7.41	7.29
Bieldt, Taylon (RSA) (1998)																	
National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)																	
date	02-Jul-23	time	2.49	3.58	4.61	5.60	6.60	7.59	8.59	9.60	10.63	11.65	12.92	4 / 2			
reaction time	0.141	interval		1.09	1.03	0.99	1.00	0.99	1.00	1.01	1.03	1.02	1.27		3.11	2.99	3.06
wind	0.6 m/s	velocity	5.22	7.80	8.25	8.59	8.50	8.59	8.50	8.42	8.25	8.33	7.91	7.74	8.20	8.53	8.33
Billaud, Cindy (FRA) (1986)																	
FINAL - 2016 Meeting Paris (Saint-Denis, FRA) (TV Analysis)																	
date	27-Aug-16	time	2.54	3.58	4.62	5.64	6.66	7.66	8.66	9.70	10.74	11.80	13.02	2 / 6			
reaction time	0.106	interval		1.04	1.04	1.02	1.02	1.00	1.00	1.04	1.04	1.06	1.22		3.10	3.02	3.14
wind	0.2 m/s	velocity	5.12	8.17	8.17	8.33	8.33	8.50	8.50	8.17	8.17	8.02	8.61	7.68	8.23	8.44	8.12
FINAL - 2016 European Championships (Amsterdam, NED) (TV Analysis)																	
date	07-Jul-16	time	2.62	3.66	4.70	5.70	6.68	7.70	8.72	9.78	10.84	11.94	13.29	3 / 7			
reaction time	0.143	interval		1.04	1.04	1.00	0.98	1.02	1.02	1.06	1.06	1.10	1.35		3.08	3.02	3.22
wind	-0.7 m/s	velocity	4.96	8.17	8.17	8.50	8.67	8.33	8.33	8.02	8.02	7.73	7.78	7.52	8.28	8.44	7.92
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)																	
date	17-Aug-13	time	2.56	3.60	4.60	5.58	6.56	7.54	8.54	9.54	10.56	11.60	12.84	3 / 7			
reaction time	0.165	interval		1.04	1.00	0.98	0.98	0.98	1.00	1.00	1.02	1.04	1.24		3.02	2.96	3.06
wind	-0.6 m/s	velocity	5.08	8.17	8.50	8.67	8.67	8.67	8.50	8.50	8.33	8.17	8.47	7.79	8.44	8.61	8.33
Blaßneck, Heike (GER) (1971)																	
FINAL - 1998 European Championships (Budapest, HUN)																	
date	23-Aug-98	time	2.62	3.66	4.68	5.70	6.69	7.74	8.74	9.75	10.79	11.87	13.02	8 / 6			
reaction time		interval		1.04	1.02	1.02	0.99	1.05	1.00	1.01	1.04	1.08	1.15		3.08	3.04	3.13
wind	1.5 m/s	velocity	4.96	8.17	8.33	8.33	8.59	8.10	8.50	8.42	8.17	7.87	9.13	7.68	8.28	8.39	8.15
FINAL - 1997 European Cup (Munich, GER)																	
date	22-Jun-97	time	2.61	3.64	4.65	5.65	6.65	7.68	8.71	9.76	11.41	12.97	14.38	/ 8			
reaction time		interval		1.03	1.01	1.00	1.00	1.03	1.03	1.05	1.65	1.56	1.41		3.04	3.06	4.26
wind	0.7 m/s	velocity	4.98	8.25	8.42	8.50	8.50	8.25	8.25	8.10	5.15	5.45	7.45	6.95	8.39	8.33	5.99
Bliss, Andrea (JAM) (1980)																	
Heat 1 - 2006 Mikio Oda Memorial (Hiroshima, JPN)																	
date	29-Apr-06	time	2.55	3.66	4.73	5.81	6.86	7.91	8.95	10.01	11.08	12.17	13.48	/ 1			
reaction time		interval		1.11	1.07	1.08	1.05	1.05	1.04	1.06	1.07	1.09	1.31		3.26	3.14	3.22
wind	0.2 m/s	velocity	5.10	7.66	7.94	7.87	8.10	8.10	8.17	8.02	7.94	7.80	8.02	7.42	7.82	8.12	7.92
Block, Natalie (USA) (2002)																	
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																	
date	28-Jun-24	time	2.71	3.81	4.87	5.94	7.00	8.06	9.16	10.26	11.36	12.52	13.84	7 / 7			
reaction time		interval		1.10	1.06	1.07	1.06	1.06	1.10	1.10	1.10	1.16	1.32		3.23	3.22	3.36
wind	0.2 m/s	velocity	4.80	7.73	8.02	7.94	8.02	8.02	7.73	7.73	7.73	7.33	7.61	7.23	7.89	7.92	7.59
Bogliolo, Luminosa (ITA) (1995)																	
FINAL - 2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)																	
date	14-Jun-22	time	2.64	3.68	4.68	5.68	6.68	7.68	8.70	9.74	10.76	11.82	13.04	2 / 6			
reaction time	0.195	interval		1.04	1.00	1.00	1.00	1.00	1.02	1.04	1.02	1.06	1.22		3.04	3.02	3.12
wind	0.2 m/s	velocity	4.92	8.17	8.50	8.50	8.50	8.50	8.33	8.17	8.33	8.02	8.24	7.67	8.39	8.44	8.17
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																	
date	09-Jun-22	time	2.53	3.60	4.63	5.63	6.63	7.63	8.63	9.67	10.73	11.83	13.10	2 / 8			
reaction time	0.163	interval		1.07	1.03	1.00	1.00	1.00	1.00	1.04	1.06	1.10	1.27		3.10	3.00	3.20
wind	0.1 m/s	velocity	5.14	7.94	8.25	8.50	8.50	8.50	8.50	8.17	8.02	7.73	7.91	7.63	8.23	8.50	7.97
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)																	
date	10-Jun-21	time	2.56	3.60	4.60	5.58	6.58	7.58	8.60	9.66	10.70	11.76	12.99	6 / 5			
reaction time	0.161	interval		1.04	1.00	0.98	1.00	1.00	1.02	1.06	1.04	1.06	1.23		3.02	3.02	3.16
wind	-0.8 m/s	velocity	5.08	8.17	8.50	8.67	8.50	8.50	8.33	8.02	8.17	8.02	8.17	7.70	8.44	8.44	8.07

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

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

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

date	07-Mar-21	time	2.54	3.56	4.58	5.56	6.54							Henson (2021) - Athlete First: 2021 year end hurdle report	7.99	7 / 6			
reaction time	0.160	interval		1.02	1.02	0.98	0.98						1.45	=PB			3.02		
wind		velocity	5.12	8.33	8.33	8.67	8.67						8.97	7.51			8.44		

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

date	17-Sep-20	time	2.58	3.60	4.60	5.60	6.58	7.56	8.56	9.58	10.60	11.64		Henson (2020) - Athlete First: 2020 year end hurdle report	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
wind	0.1 m/s	velocity	5.04	8.33	8.50	8.50	8.67	8.67	8.50	8.33	8.33	8.17	8.45	7.79			8.44	8.61	8.28

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

date	15-Sep-20	time	2.60	3.60	4.58	5.58	6.56	7.56	8.56	9.56	10.60	11.64		Henson (2020) - Athlete First: 2020 year end hurdle report	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
wind	0.0 m/s	velocity	5.00	8.50	8.67	8.50	8.67	8.50	8.50	8.50	8.17	8.17	8.52	7.80			8.56	8.56	8.28

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

date	23-Aug-20	time	2.60	3.63	4.60	5.60	6.63	7.63	8.63	9.63	10.63	11.73		Henson (2020) - Athlete First: 2020 year end hurdle report	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
wind	1.4 m/s	velocity	5.00	8.25	8.76	8.50	8.25	8.50	8.50	8.50	8.50	7.73	8.74	7.76			8.50	8.42	8.23

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

date	11-Aug-20	time	2.56	3.58	4.60	5.58	6.58	7.56	8.56	9.54	10.56	11.60		Henson (2020) - Athlete First: 2020 year end hurdle report	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
wind	1.2 m/s	velocity	5.08	8.33	8.33	8.67	8.50	8.67	8.50	8.67	8.33	8.17	8.45	7.82			8.44	8.56	8.39

Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)

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

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

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

Bohm, Kirsten (GER) (1975)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2002 IAAF World Cup (Madrid, ESP)														Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas					
date	21-Sep-02	time	2.53	3.55	4.57	5.57	6.59	7.59	8.61	9.66	10.74	11.80			13.15	4 / 7			
reaction time	0.149	interval		1.02	1.02	1.00	1.02	1.00	1.02	1.05	1.08	1.06	1.35				3.04	3.04	3.19
wind	1.5 m/s	velocity	5.14	8.33	8.33	8.50	8.33	8.50	8.33	8.10	7.87	8.02	7.78	7.60			8.39	8.39	7.99

FINAL - 2002 German National Indoor Championships (Sindelfingen, GER)

date	16-Feb-02	time	2.64	3.66	4.68	5.69	6.68							Hücklekemkes (2002) - explosive starten vielfältig erlernen	7.97	1 / 1			
reaction time	0.129	interval		1.02	1.02	1.01	0.99						1.29	PB			3.05		
wind		velocity	4.92	8.33	8.33	8.42	8.59						10.08	7.53			8.36		

FINAL - 2001 European Cup (Bremen, GER)

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

Bomme, Emma Beiter (DEN) (1998)

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

Bonds, Rosie (USA) (1946)

			H1	H2	H3	H4	H5	H6	H7	H8			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles)														Breitschaft (1965) - die leichtathletik wettkampe der 1964 olympischen sommerspielen - 80m hürdenlauf					
date	19-Oct-64	time			4.1			7.5							10.8	1 / 8			
reaction time		interval						3.40					3.30	(10.88)					
wind	2.3 m/s	velocity			6.83			7.06					7.27	9.26					

Semi-Final 1 - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles)

date	19-Oct-64	time			4.2			7.2							10.8	1 / 4			
reaction time		interval						3.00					3.60	(10.87)					
wind	???	velocity			6.67			8.00					6.67	9.26					

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bonds, Talie (USA) (1998)																	
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	30-Jun-24	time	2.57	3.60	4.61	5.61	6.60	7.59	8.59	9.60	10.62	11.66	12.85	1 / 8			
reaction time		interval		1.03	1.01	1.00	0.99	0.99	1.00	1.01	1.02	1.04	1.19		3.04	2.98	3.07
wind	0.7 m/s	velocity	5.06	8.25	8.42	8.50	8.59	8.59	8.50	8.42	8.33	8.17	8.45	7.78	8.39	8.56	8.31
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	28-Jun-24	time	2.56	3.59	4.55	5.54	6.52	7.50	8.48	9.46	10.47	11.49	12.66	6 / 2			
reaction time		interval		1.03	0.96	0.99	0.98	0.98	0.98	0.98	1.01	1.02	1.17		2.98	2.94	3.01
wind	1.7 m/s	velocity	5.08	8.25	8.85	8.59	8.67	8.67	8.67	8.67	8.42	8.33	8.59	7.90	8.56	8.67	8.47
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)													<i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>				
date	16-Feb-24	time	2.62	3.64	4.64	5.67	6.67						8.06	2 / 6			
reaction time	0.159	interval		1.02	1.00	1.03	1.00						1.39		3.05		
		velocity	4.96	8.33	8.50	8.25	8.50						9.35	7.44	8.36		
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	24-Jun-23	time	2.58	3.64	4.64	5.64	6.64	7.64	8.62	9.64	10.66	11.69	12.84	8 / 7			
reaction time	0.164	interval		1.06	1.00	1.00	1.00	1.00	0.98	1.02	1.02	1.03	1.15		3.06	2.98	3.07
wind	2.8 m/s	velocity	5.04	8.02	8.50	8.50	8.50	8.50	8.67	8.33	8.33	8.25	8.74	7.79	8.33	8.56	8.31
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	10-Jun-23	time	2.50	3.50	4.52	5.49	6.49	7.47	8.45	9.47	10.49	11.53	12.71	7 / 4			
reaction time		interval		1.00	1.02	0.97	1.00	0.98	0.98	1.02	1.02	1.04	1.18		2.99	2.96	3.08
wind	3.8 m/s	velocity	5.20	8.50	8.33	8.76	8.50	8.67	8.67	8.33	8.33	8.17	8.52	7.87	8.53	8.61	8.28
Boons, Eefje (NED) (1994)																	
Heat 1 - 2024 FBK Games (Hengelo, NED)													<i>Omega Timing (2024) - continental tour gold race analysis</i>				
date	07-Jul-24	time	2.65	3.78	4.86	5.92	6.97	8.02	9.09	10.18	11.30	12.42	13.79	1 / 9			
reaction time	0.176	interval		1.13	1.08	1.06	1.05	1.05	1.07	1.09	1.12	1.12	1.37		3.27	3.17	3.33
wind	0.3 m/s	velocity	4.91	7.52	7.87	8.02	8.10	8.10	7.94	7.80	7.59	7.59	7.34	7.25	7.80	8.04	7.66
FINAL - 2019 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	30-May-19	time	2.68	3.72	4.74	5.76	6.78	7.78	8.84	9.90	10.98	12.06	13.32	1 / 7			
reaction time	0.148	interval		1.04	1.02	1.02	1.02	1.00	1.06	1.06	1.08	1.08	1.26		3.08	3.08	3.22
wind	1.3 m/s	velocity	4.85	8.17	8.33	8.33	8.33	8.50	8.02	8.02	7.87	7.87	8.33	7.51	8.28	8.28	7.92
FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	13-Jul-18	time	2.60	3.68	4.72	5.74	6.76	7.78	8.80	9.86	10.92	12.00	13.32	9 / 9			
reaction time	0.150	interval		1.08	1.04	1.02	1.02	1.02	1.02	1.06	1.06	1.08	1.32		3.14	3.06	3.20
wind	0.1 m/s	velocity	5.00	7.87	8.17	8.33	8.33	8.33	8.33	8.02	8.02	7.87	7.95	7.51	8.12	8.33	7.97
FINAL - 2017 Athletissima (Lausanne, SUI) (TV Analysis)													<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	06-Jul-17	time	2.52	3.60	4.62	5.62	6.62	7.62	8.62	9.64	10.66	11.70	12.98	3 / 7			
reaction time	0.128	interval		1.08	1.02	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.28		3.10	3.00	3.08
wind	-0.1 m/s	velocity	5.16	7.87	8.33	8.50	8.50	8.50	8.50	8.33	8.33	8.17	8.20	7.70	8.23	8.50	8.28
Borsi, Veronica (ITA) (1987)																	
FINAL - 2013 European Indoor Championships (Göteborg, SWE)													<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>				
date	01-Mar-13	time	2.60	3.64	4.64	5.64	6.62						1.32	7.94	4 / 3-2	3.04	
reaction time	0.176	interval		1.04	1.00	1.00	0.98						9.85	7.56		8.39	
		velocity	5.00	8.17	8.50	8.50	8.67										
FINAL - 2013 Italian National Indoor Championships (Ancona, ITA)													<i>FIDAL - Centro Studi & Ricerche (2013) - www.youtube.com/watch?v=V4AE5H14hl</i>				
date	16-Feb-13	time	2.69	3.69	4.70	5.68	6.67						8.00	4 / 1	2.99		
reaction time		interval		1.00	1.01	0.98	0.99						1.33	PB	8.53		
		velocity	4.83	8.50	8.42	8.67	8.59						9.77	7.50			
FINAL - 2012 Italian National Indoor Championships (Ancona, ITA)													<i>FIDAL - Centro Studi & Ricerche (2012) - www.youtube.com/watch?v=_GzCpvpvL8</i>				
date	25-Feb-12	time	2.70	3.73	4.77	5.77	6.79						8.18	3 / 2-1	3.07		
reaction time		interval		1.03	1.04	1.00	1.02						1.39	PB	8.31		
		velocity	4.81	8.25	8.17	8.50	8.33						9.35	7.33			
Bougard, Erica (USA) (1993)																	
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)													<i>CAA Hurdle Development (2020)</i>				
date	15-Feb-20	time	2.67	3.73	4.75	5.75	6.75						8.13	8 / 6	3.08		
reaction time	0.143	interval		1.06	1.02	1.00	1.00						1.38		8.28		
		velocity	4.87	8.02	8.33	8.50	8.50						9.42	7.38			
Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)													<i>CAA Hurdle Development (2020)</i>				
date	15-Feb-20	time	2.68	3.75	4.77	5.77	6.77						8.16	5 / 4	3.09		
reaction time	0.161	interval		1.07	1.02	1.00	1.00						1.39		8.25		
		velocity	4.85	7.94	8.33	8.50	8.50						9.35	7.35			

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Bowles, Dawn (USA) (1968)																		
FINAL - 1996 USA Olympic Trials (Atlanta, GA)		USATF Women's Sprint Development (1996)																
date	23-Jun-96	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
wind	0.6 m/s	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
Braun, Sabine (GER) (1965)																		
FINAL - 2002 German National Indoor Championships (Sindelfingen, GER)		Hücklekemkes (2002) - explosive starten vielfältig erlernen																
date	16-Feb-02	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		
wind		velocity	4.85	8.02	8.02	8.17	8.17						9.22	7.24		8.07		
Bretz, Heide-Lore (FRG) (1955)																		
FINAL - 1974 West German National Championships (Hannover, FRG)		Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften																
date	28-Jul-74	time	2.58				7.06							14.15	/ 7			
reaction time		interval					4.48						7.09					
wind	2.8 m/s	velocity	5.04				7.59						7.48	7.07				
Brissett, Chanel (USA) (1999)																		
FINAL - 2022 Gyulai István Memorial (Székesfehérvár, HUN) (TV Analysis)		Henson (2022) - Athlete First: 2022 year end hurdle report																
date	08-Aug-22	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
wind	2.4 m/s	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
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)		Henson (2022) - Athlete First: 2022 year end hurdle report																
date	12-Jun-22	time	2.58	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
wind	2.0 m/s	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
FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)		Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season																
date	22-Apr-22	time	2.63	3.63	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
wind	0.8 m/s	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
Semi Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)		Henson (2021) - Athlete First: 2021 year end hurdle report																
date	20-Jun-21	time	2.47	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
wind	1.3 m/s	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
FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)		Henson (2020) - Athlete First: 2019 year end hurdle report																
date	08-Aug-19	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
wind	0.1 m/s	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
FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)		Henson (2020) - Athlete First: 2019 year end hurdle report																
date	08-Jun-19	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
wind	0.6 m/s	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
FINAL - 2019 NCAA Indoor Championships (Birmingham, AL) (TV Analysis)		Henson (2020) - Athlete First: 2019 year end hurdle report																
date	9-Mar-19	time	2.53	3.53	4.53	5.51	6.49							7.90	3 / 1			
reaction time	0.190	interval		1.00	1.00	0.98	0.98						1.41	=PB		2.98		
wind		velocity	5.14	8.50	8.50	8.67	8.67						9.22	7.59		8.56		
Britton, Evonne (USA) (1991)																		
Semi Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)		Henson (2021) - Athlete First: 2021 year end hurdle report																
date	20-Jun-21	time	2.48	3.52	4.52	5.52	6.52	7.52	8.52	9.55	10.58	11.63		12.95	9 / 9			
reaction time	0.144	interval		1.04	1.00	1.00	1.00	1.00	1.00	1.03	1.03	1.05	1.32			3.04	3.00	3.11
wind	1.2 m/s	velocity	5.24	8.17	8.50	8.50	8.50	8.50	8.50	8.25	8.25	8.10	7.61	7.72		8.39	8.50	8.20
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)		Henson (2020) - Athlete First: 2019 year end hurdle report																
date	20-Jul-19	time	2.48	3.52	4.56	5.58	6.56	7.56	8.58	9.62	10.72	11.82		13.15	8 / 8			
reaction time	0.133	interval		1.04	1.04	1.02	0.98	1.00	1.02	1.04	1.10	1.10	1.33			3.10	3.00	3.24
wind	0.8 m/s	velocity	5.24	8.17	8.17	8.33	8.67	8.50	8.33	8.17	7.73	7.73	7.89	7.60		8.23	8.50	7.87
Heat 1 - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)		Henson (2020) - Athlete First: 2019 year end hurdle report																
date	20-Jul-19	time	2.48	3.50	4.50	5.50	6.50	7.50	8.50	9.56	10.60	11.70		12.95	7 / 3			
reaction time	0.146	interval		1.02	1.00	1.00	1.00	1.00	1.00	1.06	1.04	1.10	1.25			3.02	3.00	3.20
wind	-1.1 m/s	velocity	5.24	8.33	8.50	8.50	8.50	8.50	8.50	8.02	8.17	7.73	8.40	7.72		8.44	8.50	7.97
FINAL - 2019 Kinami Memorial (Osaka, JPN)		Matsubayashi (2019) - research on athlete performance and technique- 2019 data book																
date	06-May-19	time	2.56	3.61	4.63	5.65	6.66	7.67	8.69	9.70	10.74	11.80		13.01	7 / 1			

reaction time		interval	1.05	1.02	1.02	1.01	1.01	1.02	1.01	1.04	1.06	1.21			3.09	3.04	3.11
wind	0.6 m/s	velocity	5.08	8.10	8.33	8.33	8.42	8.42	8.33	8.42	8.17	8.02	8.68	7.69	8.25	8.39	8.20

Brooks, Taliyah (USA) (1995)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)																		
Paris 2024 Olympc Games - Results Book (2024)																		
date	08-Aug-24	time	2.45	3.50	4.51	5.51	6.50	7.50	8.56	9.64	10.69	11.73		13.00	3 / 2			
reaction time	0.132	interval	7 steps	1.05	1.01	1.00	0.99	1.00	1.06	1.08	1.05	1.04	1.27			3.06	3.05	3.17
wind	-0.1 m/s	velocity	5.31	8.10	8.42	8.50	8.59	8.50	8.02	7.87	8.10	8.17	7.91	7.69		8.33	8.36	8.04

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

Henson (2021) - Athlete First: 2021 year end hurdle report																		
date	20-Jun-21	time	2.46	3.48	4.46	5.43	6.40	7.40	8.38	9.38	10.38	11.46		12.70	5 / 6			
reaction time	0.156	interval	7 steps	1.02	0.98	0.97	0.97	1.00	0.98	1.00	1.00	1.08	1.24			2.97	2.95	3.08
wind	1.2 m/s	velocity	5.28	8.33	8.67	8.76	8.76	8.50	8.67	8.50	8.50	7.87	8.10	7.87		8.59	8.64	8.28

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

Henson (2021) - Athlete First: 2021 year end hurdle report																		
date	19-Jun-21	time	2.46	3.46	4.43	5.41	6.41	7.38	8.38	9.36	10.36	11.40		12.61	7 / 1			
reaction time	0.167	interval	7 steps	1.00	0.97	0.98	1.00	0.97	1.00	0.98	1.00	1.04	1.21	PB		2.95	2.97	3.02
wind	0.8 m/s	velocity	5.28	8.50	8.76	8.67	8.50	8.76	8.50	8.67	8.50	8.17	8.31	7.93		8.64	8.59	8.44

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

Henson (2021) - Athlete First: 2021 year end hurdle report																		
date	24-Apr-21	time	2.50	3.52	4.50	5.50	6.50	7.50	8.49	9.52	10.56	11.62		12.83	6 / 3			
reaction time		interval	7 steps	1.02	0.98	1.00	1.00	1.00	0.99	1.03	1.04	1.06	1.21			3.00	2.99	3.13
wind	-0.3 m/s	velocity	5.20	8.33	8.67	8.50	8.50	8.50	8.59	8.25	8.17	8.02	8.31	7.79		8.50	8.53	8.15

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

Henson (2020) - Athlete First: 2020 year end hurdle report																		
date	25-Sep-20	time	2.53	3.56	4.56	5.56	6.56	7.53	8.56	9.56	10.60	11.63		12.86	7 / 2			
reaction time	0.139	interval	7 steps	1.03	1.00	1.00	1.00	0.97	1.03	1.00	1.04	1.03	1.23	PB		3.03	3.00	3.07
wind	1.1 m/s	velocity	5.14	8.25	8.50	8.50	8.50	8.76	8.25	8.50	8.17	8.25	8.17	7.78		8.42	8.50	8.31

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

Henson (2020) - Athlete First: 2020 year end hurdle report																		
date	17-Sep-20	time	2.54	3.60	4.62	5.62	6.62	7.64	8.66	9.72	10.78	11.86		13.05	9 / 5			
reaction time	0.138	interval	7 steps	1.06	1.02	1.00	1.00	1.02	1.02	1.06	1.06	1.08	1.19			3.08	3.04	3.20
wind	0.1 m/s	velocity	5.12	8.02	8.33	8.50	8.50	8.33	8.33	8.02	8.02	7.87	8.45	7.66		8.28	8.39	7.97

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

Henson (2020) - Athlete First: 2020 year end hurdle report																		
date	19-Aug-20	time	2.50	3.54											dnf	1 / --		
reaction time	0.120	interval	7 steps	1.04														
wind	-0.2 m/s	velocity	5.20	8.17														

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

Henson (2020) - Athlete First: 2018 year end hurdle report																		
date	13-May-18	time	2.50	3.56	4.56	5.56	6.56	7.56	8.56	9.60	10.63	11.70		12.94	7 / 4			
reaction time		interval		1.06	1.00	1.00	1.00	1.00	1.00	1.04	1.03	1.07	1.24	PB		3.06	3.00	3.14
wind	1.2 m/s	velocity	5.20	8.02	8.50	8.50	8.50	8.50	8.50	8.17	8.25	7.94	8.47	7.73		8.33	8.50	8.12

Broom, Kimyon (USA) (1988)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2005 USATF National Junior Championships (Carson, CA)																		
USATF Women's Sprint Development (2005)																		
date	23-Jun-05	time	2.70	3.92	4.96	6.12	7.22	8.33	9.44	10.58	11.70	12.84		14.20	7 / 6			
reaction time		interval		1.22	1.04	1.16	1.10	1.11	1.11	1.14	1.12	1.14	1.36			3.42	3.32	3.40
wind	-0.7 m/s	velocity	4.81	6.97	8.17	7.33	7.73	7.66	7.66	7.46	7.59	7.46	7.72	7.04		7.46	7.68	7.50

Brown, Ashlee (USA) (1985)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)																		
USATF Women's Sprint Development (2003)																		
date	22-Jun-03	time	2.58	3.70	4.76	5.86	6.96	8.04	9.14	10.26	11.48	12.99		15.41	8 / 9			
reaction time		interval		1.12	1.06	1.10	1.10	1.08	1.10	1.12	1.22	1.51	2.42			3.28	3.28	3.85
wind	2.3 m/s	velocity	5.04	7.59	8.02	7.73	7.73	7.87	7.73	7.59	6.97	5.63	4.34	6.49		7.77	7.77	6.62

Brown, Janeek (JAM) (1998)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)																		
Paris 2024 Olympc Games - Results Book (2024)																		
date	09-Aug-24	time	2.43	3.49	4.51	5.52	6.51	7.51	8.51	9.52	10.56	11.62		12.92	3 / 7			
reaction time	0.139	interval		1.06	1.02	1.01	0.99	1.00	1.00	1.01	1.04	1.06	1.30			3.09	2.99	3.11
wind	0.4 m/s	velocity	5.35	8.02	8.33	8.42	8.59	8.50	8.50	8.42	8.17	8.02	7.73	7.74		8.25	8.53	8.20
Heat 1 - 2024 Olympic Games (Paris, FRA)																		
Paris 2024 Olympc Games - Results Book (2024)																		
date	07-Aug-24	time	2.44	3.49	4.50	5.49	6.47	7.45	8.45	9.46	10.47	11.54		12.84	4 / 3			
reaction time	0.139	interval		1.05	1.01	0.99	0.98	0.98	1.00	1.01	1.01	1.07	1.30			3.05	2.96	3.09
wind	-0.1 m/s	velocity	5.33	8.10	8.42	8.59	8.67	8.67	8.50	8.42	8.42	7.94	7.73	7.79		8.36	8.61	8.25

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

Henson (2024) - Athlete First: 2024 year end hurdle report																		
date	28-Jun-24	time	2.56	3.57	4.60	5.58	6.57	7.54	8.52	9.51	10.50	11.50		12.61	2 / 3			
reaction time	0.167	interval		1.01	1.03	0.98	0.99	0.97	0.98	0.99	0.99	1.00	1.11			3.02	2.94	2.98
wind	0.1 m/s	velocity	5.08	8.42	8.25	8.67	8.59	8.76	8.67	8.59	8.59	8.50	9.05	7.93		8.44	8.67	8.56

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

date	08-Feb-20	time	2.54	3.60	4.60	5.60	6.61								8.10	6 / 6				
reaction time	0.139	interval		1.06	1.00	1.00	1.01							1.49				3.06		
		velocity	5.12	8.02	8.50	8.50	8.42							8.72	7.41			8.33		
FINAL - 2020 New Balance Indoor Grand Prix (Boston, MA)																				
<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>																				
date	25-Jan-20	time	2.58	3.62	4.63	5.62	6.62								8.00	5 / 3				
reaction time		interval		1.04	1.01	0.99	1.00							1.38				3.04		
		velocity	5.04	8.17	8.42	8.59	8.50							9.42	7.50			8.39		
Heat 2 - 2020 New Balance Indoor Grand Prix (Boston, MA)																				
<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>																				
date	25-Jan-20	time	2.60	3.65	4.68	5.69	6.69								8.06	5 / 1				
reaction time		interval		1.05	1.03	1.01	1.00							1.37				3.09		
		velocity	5.00	8.10	8.25	8.42	8.50							9.49	7.44			8.25		
FINAL - 2019 IAAF World Championships (Doha, QAT)																				
<i>CAA Hurdle Development (2019)</i>																				
date	06-Oct-19	time	2.57	3.63	4.63	5.60	6.60	7.59	8.58	9.58	10.59	11.64			12.88	8 / 7				
reaction time	0.147	interval		1.06	1.00	0.97	1.00	0.99	0.99	1.00	1.01	1.05	1.24					3.03	2.98	3.06
wind	0.3 m/s	velocity	5.06	8.02	8.50	8.76	8.50	8.59	8.59	8.50	8.42	8.10	8.10	7.76				8.42	8.56	8.33
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)																				
<i>CAA Hurdle Development (2019)</i>																				
date	06-Oct-19	time	2.53	3.56	4.54	5.53	6.52	7.49	8.48	9.47	10.47	11.50			12.62	7 / 2				
reaction time	0.134	interval		1.03	0.98	0.99	0.99	0.97	0.99	0.99	1.00	1.03	1.12					3.00	2.95	3.02
wind	0.6 m/s	velocity	5.14	8.25	8.67	8.59	8.59	8.76	8.59	8.59	8.50	8.25	8.97	7.92				8.50	8.64	8.44
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)																				
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																				
date	18-Aug-19	time	2.49	3.52	4.53	5.52	6.54	7.52	8.52	9.54	10.54	11.57			12.79	8 / 5				
reaction time	0.138	interval		1.03	1.01	0.99	1.02	0.98	1.00	1.02	1.00	1.03	1.22					3.03	3.00	3.05
wind	-0.2 m/s	velocity	5.22	8.25	8.42	8.59	8.33	8.67	8.50	8.33	8.50	8.25	8.61	7.82				8.42	8.50	8.36
FINAL - 2019 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)																				
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																				
date	12-Jul-19	time	2.48	3.52	4.52	5.52	6.52	7.50	8.50	9.50	10.52	11.58			12.71	5 / 4				
reaction time	0.184	interval		1.04	1.00	1.00	1.00	0.98	1.00	1.00	1.02	1.06	1.13					3.04	2.98	3.08
wind	0.1 m/s	velocity	5.24	8.17	8.50	8.50	8.50	8.67	8.50	8.50	8.33	8.02	9.29	7.87				8.39	8.56	8.28
FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)																				
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																				
date	08-Jun-19	time	2.45	3.44	4.42	5.41	6.38	7.34	8.30	9.28	10.26	11.26			12.40	6 / 1				
reaction time	0.138	interval		0.99	0.98	0.99	0.97	0.96	0.96	0.98	0.98	1.00	1.14	AR PB				2.96	2.89	2.96
wind	0.6 m/s	velocity	5.31	8.59	8.67	8.59	8.76	8.85	8.85	8.67	8.67	8.50	9.21	8.06				8.61	8.82	8.61
FINAL - 2019 NCAA Indoor Championships (Birmingham, AL) (TV Analysis)																				
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																				
date	9-Mar-19	time	2.50	3.53	4.58	5.60	6.60								8.04	7 / 5				
reaction time	0.149	interval		1.03	1.05	1.02	1.00							1.44				3.10		
		velocity	5.20	8.25	8.10	8.33	8.50							9.03	7.46			8.23		
FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)																				
<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																				
date	09-Jun-18	time	2.53	3.56	4.60	5.63	6.66	7.66	8.66	9.70	10.73	11.80			13.05	7 / 5				
reaction time		interval		1.03	1.04	1.03	1.03	1.00	1.00	1.04	1.03	1.07	1.25					3.10	3.03	3.14
wind	0.9 m/s	velocity	5.14	8.25	8.17	8.25	8.25	8.50	8.50	8.17	8.25	7.94	8.40	7.66				8.23	8.42	8.12
FINAL - 2018 South Eastern Conference Championships (Knoxville, TN) (TV Analysis)																				
<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																				
date	13-May-18	time	2.46	3.50	4.53	5.53	6.51	7.50	8.50	9.53	10.55	11.63			12.84	6 / 3				
reaction time		interval		1.04	1.03	1.00	0.98	0.99	1.00	1.03	1.02	1.08	1.21	PB				3.07	2.97	3.13
wind	1.2 m/s	velocity	5.28	8.17	8.25	8.50	8.67	8.59	8.50	8.25	8.33	7.87	8.68	7.79				8.31	8.59	8.15
Bufanu, Valeria (ROU) (1946)																				
H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10																				
FINAL - 1972 Olympic Games (Munich, FRG)																				
<i>Kay (1972) - BAAB Munich Technical Report</i>																				
date	08-Sep-72	time	2.6	3.6	4.7	5.7	6.7	7.6	8.6	9.6	10.6	11.7			12.84	7 / 2				
reaction time		interval		1.00	1.10	1.00	1.00	0.90	1.00	1.00	1.00	1.10	1.14	PB				3.10	2.90	3.10
wind	-0.6 m/s	velocity	5.00	8.50	7.73	8.50	8.50	9.44	8.50	8.50	8.50	7.73	9.21	7.79				8.23	8.79	8.23
Bukovec, Brigita (SLO) (1970)																				
H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10																				
FINAL - 1998 European Championships (Budapest, HUN)																				
<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>																				
date	23-Aug-98	time	2.59	3.60	4.59	5.54	6.50	7.47	8.43	9.42	10.45	11.50			12.65	6 / 2				
reaction time		interval		1.01	0.99	0.95	0.96	0.97	0.96	0.99	1.03	1.05	1.15					2.95	2.89	3.07
wind	1.5 m/s	velocity	5.02	8.42	8.59	8.95	8.85	8.76	8.85	8.59	8.25	8.10	9.13	7.91				8.64	8.82	8.31
FINAL - 1997 IAAF World Championships (Athens, GRE)																				
<i>Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>																				
date	10-Aug-97	time	2.60	3.58	4.58	5.56	6.52	7.49	8.50	9.50	10.50	11.54			12.69	2 / 4				
reaction time	0.146	interval		0.98	1.00	0.98	0.96	0.97	1.01	1.00	1.00	1.04	1.15					2.96	2.94	3.04
wind	-0.3 m/s	velocity	5.00	8.67	8.50	8.67	8.85	8.76	8.42	8.50	8.50	8.17	9.13	7.88				8.61	8.67	8.39
FINAL - 1996 Olympic Games (Atlanta, GA)																				
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																				
date	31-Jul-96	time	2.46	3.49	4.52	5.43	6.41	7.38	8.36	9.34	10.34	11.37			12.59	3 / 2				

reaction time	0.164	interval	1.03	1.03	0.91	0.98	0.97	0.98	0.98	1.00	1.03	1.22	NR	2.97	2.93	3.01	
wind	0.2 m/s	velocity	5.28	8.25	8.25	9.34	8.67	8.76	8.67	8.67	8.50	8.25	8.61	7.94	8.59	8.70	8.47

FINAL - 1996 ??? (Lisboa, POR)*Coh (1998) - a biomechanical model of the 100m hurdles of birgita bukovec*

date	29-Jun-96	time	2.59	3.63	4.65	5.65	6.64	7.62	8.60	9.60	10.62	11.66	12.76	/ 1			
reaction time	0.180	interval	1.04	1.02	1.00	0.99	0.98	0.98	1.00	1.02	1.04	1.10			3.06	2.95	3.06
wind	3.0 m/s	velocity	5.02	8.17	8.33	8.50	8.59	8.67	8.67	8.50	8.33	8.17	9.55	7.84	8.33	8.64	8.33

FINAL - 1995 Postojna, SLO*Coh (1996) - three-dimensional kinematic analysis of the hurdles technique used by brigita bukovec*

date	08-Jul-95	time	2.60	3.64	4.66	5.66	6.65	7.63	8.61	9.60	10.62	11.65	12.75	/ 1			
reaction time	0.180	interval	1.04	1.02	1.00	0.99	0.98	0.98	0.99	1.02	1.03	1.10	PB		3.06	2.95	3.04
wind	???	velocity	5.00	8.17	8.33	8.50	8.59	8.67	8.67	8.59	8.33	8.25	9.55	7.84	8.33	8.64	8.39

Burdová, Magdalena (CZE) (1998)*Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm) Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.90	4.17	5.40	6.66	7.90	9.18	10.45	11.75	13.03	14.33	15.75	2 / 7			
reaction time	0.180	interval	1.27	1.23	1.26	1.24	1.28	1.27	1.30	1.28	1.30	1.42			3.76	3.79	3.88
wind	-1.3 m/s	velocity	4.48	6.69	6.91	6.75	6.85	6.64	6.69	6.54	6.64	6.54	7.39	6.35	6.78	6.73	6.57

Burton, Rushelle (JAM) (1997)*Semi-Final 3 - 2017 IAAF World Championships (London, GBR) Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date	11-Aug-17	time	2.41	3.46	4.49	5.49	6.50	7.49	8.49	9.54	10.59	11.65	12.94	9 / 5			
reaction time	0.180	interval	1.05	1.03	1.00	1.01	0.99	1.00	1.05	1.05	1.06	1.29			3.08	3.00	3.16
wind	0.2 m/s	velocity	5.39	8.10	8.25	8.50	8.42	8.59	8.50	8.10	8.10	8.02	8.14	7.73	8.28	8.50	8.07

FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)*(2016.07.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	24-Jul-16	time	2.58	3.64	4.66	5.68	6.68	7.70	8.70	9.71	10.73	11.74	12.87	8 / 2			
reaction time	0.161	interval	1.06	1.02	1.02	1.00	1.02	1.00	1.01	1.02	1.01	1.13	NJR		3.10	3.02	3.04
wind	2.0 m/s	velocity	5.04	8.02	8.33	8.33	8.50	8.33	8.50	8.42	8.33	8.42	9.29	7.77	8.23	8.44	8.39

Bystrova, Galina (URS) (1934)*Semi-Final 2 - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles) Breitschaft (1965) - die leichtathletik wettkampe der 1964 olympischen sommerspielen - 80m hürdenlauf*

date	19-Oct-64	time			4.2			7.3					10.8	/ 6			
reaction time		interval					3.10					3.50	(10.89)				
wind	???	velocity			6.67		7.74					6.86	9.26				

Cachová, Katerina (CZE) (1990)*FINAL - 2014 Czech Republic National Championships (Ostrava, CZE) Feher (2014) - Final report from the Czech Republic national championships*

date	02-Aug-14	time	2.82	3.93	5.01	6.08	7.13	8.20	9.32	10.40	11.49	12.61	13.82	3 / 6			
reaction time	0.221	interval	1.11	1.08	1.07	1.05	1.07	1.12	1.08	1.09	1.12	1.21			3.26	3.24	3.29
wind	0.4 m/s	velocity	4.61	7.66	7.87	7.94	8.10	7.94	7.59	7.87	7.80	7.59	8.68	7.24	7.82	7.87	7.75

Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)*Feher (2014) - Final report from the Czech Republic national championships*

date	02-Aug-14	time	2.79	3.88	4.95	6.02	7.10	8.14	9.20	10.35	11.43	12.56	13.80	6 / 2			
reaction time	0.204	interval	1.09	1.07	1.07	1.08	1.04	1.06	1.15	1.08	1.13	1.24			3.23	3.18	3.36
wind	0.2 m/s	velocity	4.66	7.80	7.94	7.94	7.87	8.17	8.02	7.39	7.87	7.52	8.47	7.25	7.89	8.02	7.59

FINAL - 2013 Czech Republic National Championships (Tábor, CZE)*Feher (2013) - Final report from the men's & women's Czech Republic national championships*

date	15-Jun-13	time	2.76	3.85	4.91	6.02	7.07	8.15	9.24	10.35	11.47	12.58	13.77	3 / 3			
reaction time	0.200	interval	1.09	1.06	1.11	1.05	1.08	1.09	1.11	1.12	1.11	1.19			3.26	3.22	3.34
wind	0.3 m/s	velocity	4.71	7.80	8.02	7.66	8.10	7.87	7.80	7.66	7.59	7.66	8.82	7.26	7.82	7.92	7.63

Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)*Feher (2013) - Final report from the men's & women's Czech Republic national championships*

date	15-Jun-13	time	2.83	3.93	5.05	6.13	7.21	8.29	9.38	10.50	11.60	12.73	13.97	4 / 1			
reaction time	0.212	interval	1.10	1.12	1.08	1.08	1.08	1.09	1.12	1.10	1.13	1.24			3.30	3.25	3.35
wind	-1.8 m/s	velocity	4.59	7.73	7.59	7.87	7.87	7.87	7.80	7.59	7.73	7.52	8.47	7.16	7.73	7.85	7.61

Caicedo, Maribel (ECU) (1998)*Heat A - 2024 Kamila Skolimowska Memorial (Silesia, POL) Omega Timing (2024) - diamond league race analysis*

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

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

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

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

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

Heat 1 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

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

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

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

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

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

CAA Hurdle Development (2020)

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

Čaladi, Tereza (CZE) (1996)**FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE)**

Feher (2015) - Final report the U18 & U20 Czech Republic indoor national championships

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

Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE)

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

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

Calloway, Dominqué (USA) (1978)**FINAL - 1996 USATF National Junior Championships (Delaware, OH)**

USATF Women's Sprint Development (1996)

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

Camacho-Quinn, Jasmine (PUR) (199)**FINAL - 2024 Memorial van damme (Brussels, BEL)**

Omega Timing (2024) - diamond league race analysis

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

FINAL - 2024 Weltklasse (Zürich, SUI)

Omega Timing (2024) - diamond league race analysis

date	05-Sep-24	time	2.44	3.47	4.45	5.39	6.33	7.27	8.22	9.18	10.16	11.15	12.36	4 / 1				
reaction time	0.145	interval		1.03	0.98	0.94	0.94	0.94	0.95	0.96	0.98	0.99	1.21			2.95	2.83	2.93
wind	0.8 m/s	velocity	5.33	8.25	8.67	9.04	9.04	9.04	8.95	8.85	8.67	8.59	8.31	8.09		8.64	9.01	8.70

FINAL - 2024 Athletissima (Lausanne, SUI)

Omega Timing (2024) - diamond league race analysis

date	22-Aug-24	time	2.44	3.47	4.45	5.40	6.34	7.28	8.23	9.18	10.16	11.15	12.35	5 / 1				
reaction time	0.131	interval		1.03	0.98	0.95	0.94	0.94	0.95	0.95	0.98	0.99	1.20			2.96	2.83	2.92
wind	-0.9 m/s	velocity	5.33	8.25	8.67	8.95	9.04	9.04	8.95	8.95	8.67	8.59	8.38	8.10		8.61	9.01	8.73

FINAL - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	10-Aug-24	time	2.44	3.45	4.42	5.38	6.32	7.26	8.22	9.18	10.17	11.14	12.36	7 / 3				
reaction time	0.173	interval		1.01	0.97	0.96	0.94	0.94	0.96	0.96	0.99	0.97	1.22			2.94	2.84	2.92
wind	-0.3 m/s	velocity	5.33	8.42	8.76	8.85	9.04	9.04	8.85	8.85	8.59	8.76	8.24	8.09		8.67	8.98	8.73

Semi-Final 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	09-Aug-24	time	2.44	3.46	4.43	5.39	6.32	7.27	8.23	9.19	10.17	11.15	12.35	5 / 1				
reaction time	0.161	interval		1.02	0.97	0.96	0.93	0.95	0.96	0.96	0.98	0.98	1.20			2.95	2.84	2.92
wind	-0.7 m/s	velocity	5.33	8.33	8.76	8.85	9.14	8.95	8.85	8.85	8.67	8.67	8.38	8.10		8.64	8.98	8.73

Heat 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time	2.48	3.50	4.48	5.42	6.38	7.33	8.29	9.26	10.24	11.23	12.42	2 / 1				
reaction time	0.176	interval		1.02	0.98	0.94	0.96	0.95	0.96	0.97	0.98	0.99	1.19			2.94	2.87	2.94
wind	0.0 m/s	velocity	5.24	8.33	8.67	9.04	8.85	8.95	8.85	8.76	8.67	8.59	8.45	8.05		8.67	8.89	8.67

FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis)

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

date	07-Jul-24	time	2.54	3.56	4.54	5.48	6.43	7.36	8.32	9.28	10.25	11.25	12.39	4 / 1				
reaction time	0.163	interval		1.02	0.98	0.94	0.95	0.93	0.96	0.96	0.97	1.00	1.14			2.94	2.84	2.93
wind	1.6 m/s	velocity	5.12	8.33	8.67	9.04	8.95	9.14	8.85	8.85	8.76	8.50	8.82	8.07		8.67	8.98	8.70

Heat 1 - 2024 FBK Games (Hengelo, NED)

Omega Timing (2024) - continental tour gold race analysis

date	07-Jul-24	time	2.43	3.50	4.49	5.46	6.43	7.41	8.39	9.37	10.36	11.37	12.59	5 / 1				
reaction time	0.148	interval		1.07	0.99	0.97	0.97	0.98	0.98	0.98	0.99	1.01	1.22			3.03	2.93	2.98
wind	0.3 m/s	velocity	5.35	7.94	8.59	8.76	8.76	8.67	8.67	8.67	8.59	8.42	8.24	7.94		8.42	8.70	8.56

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

date	25-May-24	time	2.47	3.53	4.51	5.49	6.44	7.40	8.36	9.34	10.32	11.32	12.54	6 / 2			
reaction time	0.148	interval		1.06	0.98	0.98	0.95	0.96	0.96	0.98	0.98	1.00	1.22		3.02	2.87	2.96
wind	-0.9 m/s	velocity	5.26	8.02	8.67	8.67	8.95	8.85	8.85	8.67	8.67	8.50	8.24	7.97	8.44	8.89	8.61

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

date	27-Apr-24	time	2.53	3.57	4.57	5.55	6.50	7.46	8.42	9.40	10.41	11.44	12.63	5 / 2 1			
reaction time	0.163	interval		1.04	1.00	0.98	0.95	0.96	0.96	0.98	1.01	1.03	1.19		3.02	2.87	3.02
wind	0.3 m/s	velocity	5.14	8.17	8.50	8.67	8.95	8.85	8.85	8.67	8.42	8.25	8.45	7.92	8.44	8.89	8.44

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

date	20-Apr-24	time	2.46	3.50	4.49	5.45	6.41	7.36	8.31	9.27	10.25	11.23	12.45	5 / 1			
reaction time	0.163	interval		1.04	0.99	0.96	0.96	0.95	0.95	0.96	0.98	0.98	1.22		2.99	2.86	2.92
wind	-0.2 m/s	velocity	5.28	8.17	8.59	8.85	8.85	8.95	8.95	8.85	8.67	8.67	8.24	8.03	8.53	8.92	8.73

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

date	17-Sep-23	time	2.45	3.47	4.46	5.41	6.35	7.29	8.24	9.20	10.17	11.15	12.38	5 / 2			
reaction time	0.140	interval		1.02	0.99	0.95	0.94	0.94	0.95	0.96	0.97	0.98	1.23		2.96	2.83	2.91
wind	1.8 m/s	velocity	5.31	8.33	8.59	8.95	9.04	9.04	8.95	8.85	8.76	8.67	8.17	8.08	8.61	9.01	8.76

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

date	24-Aug-23	time	2.57	3.58	4.57	5.52	6.47	7.40	8.36	9.34	10.32	11.33	12.44	7 / 2			
reaction time	0.164	interval		1.01	0.99	0.95	0.95	0.93	0.96	0.98	0.98	1.01	1.11		2.95	2.84	2.97
wind	-0.2 m/s	velocity	5.06	8.42	8.59	8.95	8.95	9.14	8.85	8.67	8.67	8.42	9.05	8.04	8.64	8.98	8.59

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

date	23-Aug-23	time	2.50	3.54	4.54	5.49	6.42	7.38	8.34	9.30	10.28	11.28	12.41	5 / 1			
reaction time	0.138	interval		1.04	1.00	0.95	0.93	0.96	0.96	0.96	0.98	1.00	1.13		2.99	2.85	2.94
wind	-0.4 m/s	velocity	5.20	8.17	8.50	8.95	9.14	8.85	8.85	8.85	8.67	8.50	8.89	8.06	8.53	8.95	8.67

Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	22-Aug-23	time	2.52	3.56	4.54	5.51	6.47	7.44	8.40	9.35	10.35	11.35	12.50	9 / 1			
reaction time	0.160	interval		1.04	0.98	0.97	0.96	0.97	0.96	0.95	1.00	1.00	1.15		2.99	2.89	2.95
wind	0.0 m/s	velocity	5.16	8.17	8.67	8.76	8.85	8.76	8.85	8.95	8.50	8.50	8.74	8.00	8.53	8.82	8.64

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

date	30-Jun-23	time	2.42	3.44	4.43	5.38	6.33	7.28	8.24	9.21	10.19	11.18	12.40	5 / 1			
reaction time	0.139	interval		1.02	0.99	0.95	0.95	0.95	0.96	0.97	0.98	0.99	1.22		2.96	2.86	2.94
wind	-1.4 m/s	velocity	5.37	8.33	8.59	8.95	8.95	8.95	8.85	8.76	8.67	8.59	8.24	8.06	8.61	8.92	8.67

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

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

FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	21-May-23	time	2.50	3.52	4.46	5.40	6.32	7.25	8.19	9.13	10.10	11.06	12.17	5 / 1			
reaction time	0.153	interval		1.02	0.94	0.94	0.92	0.93	0.94	0.94	0.97	0.96	1.11		2.90	2.79	2.87
wind	3.5 m/s	velocity	5.20	8.33	9.04	9.04	9.24	9.14	9.04	9.04	8.76	8.85	9.05	8.22	8.79	9.14	8.89

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

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

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

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

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

date	08-Sep-22	time	2.50	3.50	4.50	5.47	6.41	7.37	8.32	9.29	10.27	11.28	12.49	5 / 4			
reaction time	0.186	interval		1.00	1.00	0.97	0.94	0.96	0.95	0.97	0.98	1.01	1.21		2.97	2.85	2.96
wind	-0.3 m/s	velocity	5.20	8.50	8.50	8.76	9.04	8.85	8.95	8.76	8.67	8.42	8.31	8.01	8.59	8.95	8.61

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

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

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

date	26-Aug-22	time	2.43	3.47	4.44	5.40	6.34	7.27	8.24	9.20	10.17	11.14	12.34	4 / 1			
reaction time	0.152	interval		1.04	0.97	0.96	0.94	0.93	0.97	0.96	0.97	0.97	1.20		2.97	2.84	2.90

wind	-0.9 m/s	velocity	5.35	8.17	8.76	8.85	9.04	9.14	8.76	8.85	8.76	8.76	8.38	8.10	8.59	8.98	8.79
FINAL - 2022 Gyulai István Memorial (Székesfehérvár, HUN) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	08-Aug-22	time	2.47	3.50	4.47	5.43	6.35	7.30	8.25	9.20	10.13	11.13	12.27	5 / 1			
reaction time	0.114	interval	1.03	0.97	0.96	0.92	0.95	0.95	0.95	0.95	0.93	1.00	1.14		2.96	2.82	2.88
wind	2.4 m/s	velocity	5.26	8.25	8.76	8.85	9.24	8.95	8.95	8.95	9.14	8.50	8.82	8.15	8.61	9.04	8.85
FINAL - 2022 World Athletics Championships (Eugene, OR)														<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>			
date	24-Jul-22	time	2.52	3.55	4.52	5.45	6.37	7.31	8.24	9.19	10.13	11.11	12.23	7 / 3			
reaction time	0.127	interval	1.03	0.97	0.93	0.92	0.94	0.93	0.95	0.94	0.98	1.12			2.93	2.79	2.87
wind	2.5 m/s	velocity	5.16	8.25	8.76	9.14	9.24	9.04	9.14	8.95	9.04	8.67	8.97	8.18	8.70	9.14	8.89
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	24-Jul-22	time	2.53	3.53	4.53	5.46	6.43	7.38	8.32	9.26	10.23	11.21	12.32	5 / 2			
reaction time	0.126	interval	1.00	1.00	0.93	0.97	0.95	0.94	0.94	0.94	0.97	0.98	1.11		2.93	2.86	2.89
wind	0.3 m/s	velocity	5.14	8.50	8.50	9.14	8.76	8.95	9.04	9.04	8.76	8.67	9.05	8.12	8.70	8.92	8.82
Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	23-Jul-22	time	2.52	3.56	4.53	5.50	6.46	7.40	8.36	9.34	10.32	11.32	12.52	7 / 1			
reaction time	0.185	interval	1.04	0.97	0.97	0.96	0.94	0.96	0.98	0.98	0.98	1.00	1.20		2.98	2.86	2.96
wind	-0.4 m/s	velocity	5.16	8.17	8.76	8.76	8.85	9.04	8.85	8.67	8.67	8.50	8.38	7.99	8.56	8.92	8.61
FINAL - 2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	30-Jun-22	time	2.48	3.48	4.47	5.44	6.38	7.33	8.30	9.27	10.27	11.27	12.46	5 / 1			
reaction time	0.143	interval	1.00	0.99	0.97	0.94	0.95	0.97	0.97	0.97	1.00	1.00	1.19		2.96	2.86	2.97
wind	-0.5 m/s	velocity	5.24	8.50	8.59	8.76	9.04	8.95	8.76	8.76	8.50	8.50	8.45	8.03	8.61	8.92	8.59
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	09-Jun-22	time	2.47	3.48	4.47	5.43	6.37	7.30	8.26	9.23	10.20	11.18	12.37	5 / 1			
reaction time	0.149	interval	1.01	0.99	0.96	0.94	0.93	0.96	0.97	0.97	0.98	1.19		2.96	2.83	2.92	
wind	0.1 m/s	velocity	5.26	8.42	8.59	8.85	9.04	9.14	8.85	8.76	8.76	8.67	8.45	8.08	8.61	9.01	8.73
FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	28-May-22	time	2.50	3.53	4.51	5.48	6.43	7.37	8.33	9.31	10.30	11.29	12.45	5 / 1			
reaction time	0.132	interval	1.03	0.98	0.97	0.95	0.94	0.96	0.98	0.99	0.99	1.16		2.98	2.85	2.96	
wind	-0.7 m/s	velocity	5.20	8.25	8.67	8.76	8.95	9.04	8.85	8.67	8.59	8.59	8.66	8.03	8.56	8.95	8.61
FINAL - 2022 Puerto Rico International Athletics Classic (Ponce, PUR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	12-May-22	time	2.65	3.67	4.63	5.58	6.52	7.48	8.42	9.37	10.36	11.34	12.52	5 / 2			
reaction time	0.367	interval	1.02	0.96	0.95	0.94	0.96	0.94	0.95	0.99	0.98	1.18		2.93	2.84	2.92	
wind	0.3 m/s	velocity	4.91	8.33	8.85	8.95	9.04	8.85	9.04	8.95	8.59	8.67	8.52	7.99	8.70	8.98	8.73
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	02-Aug-21	time	2.44	3.44	4.42	5.38	6.32	7.26	8.20	9.14	10.10	11.14	12.37	5 / 1			
reaction time	0.149	interval	1.00	0.98	0.96	0.94	0.94	0.94	0.94	0.94	0.96	1.04	1.23		2.94	2.82	2.94
wind	-0.3 m/s	velocity	5.33	8.50	8.67	8.85	9.04	9.04	9.04	9.04	8.85	8.17	8.17	8.08	8.67	9.04	8.67
Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	01-Aug-21	time	2.47	3.47	4.44	5.37	6.31	7.24	8.19	9.14	10.10	11.10	12.26	7 / 1			
reaction time	0.175	interval	1.00	0.97	0.93	0.94	0.93	0.95	0.95	0.96	1.00	1.16	OR AR PB		2.90	2.82	2.91
wind	-0.2 m/s	velocity	5.26	8.50	8.76	9.14	9.04	9.14	8.95	8.95	8.85	8.50	8.66	8.16	8.79	9.04	8.76
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	31-Jul-21	time	2.47	3.47	4.47	5.44	6.38	7.34	8.29	9.25	10.23	11.23	12.41	2 / 1			
reaction time	0.153	interval	1.00	1.00	0.97	0.94	0.96	0.95	0.96	0.98	1.00	1.18		2.97	2.85	2.94	
wind	0.3 m/s	velocity	5.26	8.50	8.50	8.76	9.04	8.85	8.95	8.85	8.67	8.50	8.52	8.06	8.59	8.95	8.67
FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	06-Jul-21	time	2.48	3.50	4.47	5.43	6.37	7.30	8.24	9.21	10.18	11.14	12.34	4 / 1			
reaction time	0.178	interval	1.02	0.97	0.96	0.94	0.93	0.94	0.97	0.97	0.96	1.20		2.95	2.81	2.90	
wind	0.2 m/s	velocity	5.24	8.33	8.76	8.85	9.04	9.14	9.04	8.76	8.76	8.85	8.38	8.10	8.64	9.07	8.79
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	10-Jun-21	time	2.46	3.46	4.44	5.40	6.34	7.28	8.22	9.20	10.18	11.18	12.38	5 / 1			
reaction time	0.153	interval	1.00	0.98	0.96	0.94	0.94	0.94	0.98	0.98	1.00	1.20		2.94	2.82	2.96	
wind	-0.8 m/s	velocity	5.28	8.50	8.67	8.85	9.04	9.04	9.04	8.67	8.67	8.50	8.37	8.08	8.67	9.04	8.61
FINAL - 2021 Fanny Blankers Koen Games (Hengelo, NED) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	06-Jun-21	time	2.43	3.46	4.44	5.40	6.35	7.31	8.27	9.24	10.20	11.18	12.44	5 / 1			
reaction time		interval	1.03	0.98	0.96	0.95	0.96	0.96	0.96	0.97	0.96	0.98	1.26		2.97	2.87	2.91
wind	0.5 m/s	velocity	5.35	8.25	8.67	8.85	8.95	8.85	8.85	8.76	8.85	8.67	7.98	8.04	8.59	8.89	8.76
FINAL - 2021 USATF Grand Prix (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			

date	24-Apr-21	time	2.47	3.47	4.45	5.40	6.37	7.32	8.29	9.28	10.26	11.26	12.46	5 / 1														
reaction time		interval		1.00	0.98	0.95	0.97	0.95	0.97	0.99	0.98	1.00	1.20		2.93	2.89	2.97											
wind	-0.3 m/s	velocity	5.26	8.50	8.67	8.95	8.76	8.95	8.76	8.59	8.67	8.50	8.37	8.03	8.70	8.82	8.59											
FINAL - 2021 Tom Jones Invitational (Gainesville, FL) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	17-Apr-21	time	2.43	3.43	4.43	5.40	6.37	7.30	8.24	9.20	10.17	11.17	12.32	6 / 1														
reaction time		interval		1.00	1.00	0.97	0.97	0.93	0.94	0.96	0.97	1.00	1.15	NR PB	2.97	2.84	2.93											
wind	1.7 m/s	velocity	5.35	8.50	8.50	8.76	8.76	9.14	9.04	8.85	8.76	8.50	8.74	8.12	8.59	8.98	8.70											
FINAL - 2019 Doha Diamond League (Doha, QAT) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	03-May-19	time	2.56	3.58	4.60	5.60	6.58	7.56	8.56	9.56	10.58	11.62	12.85	8 / 5														
reaction time	0.182	interval		1.02	1.02	1.00	0.98	0.98	1.00	1.00	1.02	1.04	1.23		3.04	2.96	3.06											
wind	0.9 m/s	velocity	5.08	8.33	8.33	8.50	8.67	8.67	8.50	8.50	8.33	8.17	8.54	7.78	8.39	8.61	8.33											
FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	09-Jun-18	time	2.53	3.56	4.56	5.53	6.50	7.46	8.46	9.43	10.43	11.46	12.70	5 / 1														
reaction time		interval		1.03	1.00	0.97	0.97	0.96	1.00	0.97	1.00	1.03	1.24		3.00	2.93	3.00											
wind	0.9 m/s	velocity	5.14	8.25	8.50	8.76	8.76	8.85	8.50	8.76	8.50	8.25	8.47	7.87	8.50	8.70	8.50											
FINAL - 2018 South Eastern Conference Championships (Knoxville, TN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	13-May-18	time	2.45	3.46	4.46	5.40	6.36	7.32	8.27	9.23	10.20	11.18	12.40	5 / 1														
reaction time		interval		1.01	1.00	0.94	0.96	0.96	0.95	0.96	0.97	0.98	1.22	AR PB	2.95	2.87	2.91											
wind	1.2 m/s	velocity	5.31	8.42	8.50	9.04	8.85	8.85	8.95	8.85	8.76	8.67	8.61	8.06	8.64	8.89	8.76											
Caravelli, Marzia (ITA) (1981)													H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Italian National Indoor Championships (Ancona, ITA)													<i>FIDAL - Centro Studi & Ricerche (2014) - www.youtube.com/watch?v=7_FeLg_p08Y</i>															
date	22-Feb-14	time	2.69	3.74	4.76	5.75	6.78						8.07	6 / 2														
reaction time		interval	<i>7 steps</i>	1.05	1.02	0.99	1.03						1.29		3.06													
wind		velocity	4.83	8.10	8.33	8.59	8.25						10.08	7.43	8.33													
FINAL - 2012 Italian National Indoor Championships (Ancona, ITA)													<i>FIDAL - Centro Studi & Ricerche (2012) - www.youtube.com/watch?v=_GzCpvpvayL8</i>															
date	25-Feb-12	time	2.68	3.70	4.70	5.70	6.70						8.04	5 / 4														
reaction time		interval	<i>7 steps</i>	1.02	1.00	1.00	1.00						1.34	DQ	3.02													
wind		velocity	4.85	8.33	8.50	8.50	8.50						9.70	7.46	8.44													
Race 1 - 2011 European Team Championships (Stockholm, SWE)													<i>Blomkvist (2011) - www.sub13.se</i>															
date	19-Jun-11	time	2.58	3.64	4.68	5.70	6.72	7.76	8.80	9.86	10.92	12.00	13.21	1 / 2														
reaction time	0.166	interval		1.06	1.04	1.02	1.02	1.04	1.04	1.06	1.06	1.08	1.21		3.12	3.10	3.20											
wind	-1.0 m/s	velocity	5.04	8.02	8.17	8.33	8.33	8.17	8.17	8.02	8.02	7.87	8.68	7.57	8.17	8.23	7.97											
Carlsson, Johanna (SWE) (1994)													H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)													<i>Omega Timing (2023) - diamond league race analysis</i>															
date	02-Jul-23	time	2.56	3.68	4.74	5.78	6.83	7.89	8.96	10.06	11.22	12.41	13.91	1 / 5														
reaction time	0.149	interval		1.12	1.06	1.04	1.05	1.06	1.07	1.10	1.16	1.19	1.50	PB	3.22	3.18	3.45											
wind	0.6 m/s	velocity	5.08	7.59	8.02	8.17	8.10	8.02	7.94	7.73	7.33	7.14	6.70	7.19	7.92	8.02	7.39											
Carmassi, Giada (ITA) (1994)													H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)													<i>Omega Timing (2024) - diamond league race analysis</i>															
date	30-Aug-24	time	2.52	3.57	4.60	5.62	6.63	7.65	8.67	9.71	10.76	11.85	13.20	1 / 8														
reaction time	0.136	interval		1.05	1.03	1.02	1.01	1.02	1.02	1.04	1.05	1.09	1.35		3.10	3.05	3.18											
wind	-0.4 m/s	velocity	5.16	8.10	8.25	8.33	8.42	8.33	8.33	8.17	8.10	7.80	7.44	7.58	8.23	8.36	8.02											
FINAL - 2020 Galà dei Castelli (Bellinzona, SUI) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	15-Sep-20	time	2.66	3.72	4.76	5.80	6.80	7.82	8.86	9.90	10.96	12.06	13.30	2 / 4														
reaction time		interval		1.06	1.04	1.04	1.00	1.02	1.04	1.04	1.06	1.10	1.24		3.14	3.06	3.20											
wind	0.0 m/s	velocity	4.89	8.02	8.17	8.17	8.50	8.33	8.17	8.17	8.02	7.73	8.10	7.52	8.12	8.33	7.97											
Carraro, Elena (ITA) (2001)													H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)													<i>Omega Timing (2023) - diamond league race analysis</i>															
date	21-Jul-23	time	2.56	3.63	4.68	5.69	6.70	7.72	8.76	9.82	10.91	11.99	13.28	8 / 8														
reaction time	0.172	interval		1.07	1.05	1.01	1.01	1.02	1.04	1.06	1.09	1.08	1.29		3.13	3.07	3.23											
wind	0.6 m/s	velocity	5.08	7.94	8.10	8.42	8.42	8.33	8.17	8.02	7.80	7.87	7.79	7.53	8.15	8.31	7.89											
Carruthers, Danielle (USA) (1979)													H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 IAAF World Championships (Daegu, KOR)													<i>KSSB (2011) - biomechanical analysis of women's 100m hurdle</i>															
date	03-Sep-11	time	2.57	3.59	4.57	5.55	6.51	7.46	8.42	9.39	10.35	11.36	12.47	6 / 2														
reaction time	0.168	interval		1.02	0.98	0.98	0.96	0.95	0.96	0.97	0.96	1.01	1.11	PB	2.98	2.87	2.94											
wind	1.1 m/s	velocity	5.06	8.33	8.67	8.67	8.85	8.95	8.85	8.76	8.85	8.42	9.46	8.02	8.56	8.89	8.67											
Heat 4 - 2011 IAAF World Championships (Daegu, KOR)													<i>KSSB (2011) - biomechanical analysis of women's 100m hurdle</i>															
date	02-Sep-11	time	2.61	3.65	4.67	5.65	6.65	7.65	8.62	9.65	10.66	11.68	12.79	2 / 1														
reaction time	0.160	interval		1.04	1.02	0.98	1.00	1.00	0.97	1.03	1.01	1.02	1.11		3.04	2.97	3.06											
wind	0.0 m/s	velocity	4.98	8.17	8.33	8.67	8.50	8.50	8.76	8.25	8.42	8.33	9.46	7.82	8.39	8.59	8.33											

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

date	14-Jun-09	time	2.59	3.63	4.64	5.64	6.65	7.67	8.69	9.73	10.81	11.90	13.11	/ 7				
reaction time	0.167	interval		1.04	1.01	1.00	1.01	1.02	1.02	1.04	1.08	1.09	1.21			3.05	3.05	3.21
wind	-0.1 m/s	velocity	5.02	8.17	8.42	8.50	8.42	8.33	8.33	8.17	7.87	7.80	8.68	7.63		8.36	8.36	7.94

FINAL - 2007 USATF National Championships (Indianapolis, IN)

USATF Men's Hurdle Development (2007)

date	23-Jun-07	time	2.64	3.69	4.70	5.71	6.74	7.76	8.79	9.81	10.83	11.86	12.98	/ 7				
reaction time		interval		1.05	1.01	1.01	1.03	1.02	1.03	1.02	1.02	1.03	1.12			3.07	3.08	3.07
wind	-1.3 m/s	velocity	4.92	8.10	8.42	8.42	8.25	8.33	8.25	8.33	8.33	8.25	9.37	7.70		8.31	8.28	8.31

FINAL - 2007 Osaka Grand Prix (Osaka, JPN)

Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles

date	05-May-07	time	2.48	3.55	4.58	5.58	6.58	7.58	8.58	9.59	10.62	11.65	12.90	/ 3				
reaction time		interval		1.07	1.03	1.00	1.00	1.00	1.00	1.01	1.03	1.03	1.25			3.10	3.00	3.07
wind	0.0 m/s	velocity	5.24	7.94	8.25	8.50	8.50	8.50	8.50	8.42	8.25	8.25	8.40	7.75		8.23	8.50	8.31

FINAL - 2003 USATF National Championships (Palo Alto, CA)

USATF Women's Sprint Development (2003)

date	22-Jun-03	time	2.50	3.57	4.57	5.59	6.57	7.57	8.56	9.56	10.59	11.63	12.84	2 / 6 5				
reaction time		interval		1.07	1.00	1.02	0.98	1.00	0.99	1.00	1.03	1.04	1.21			3.09	2.97	3.07
wind	-0.1 m/s	velocity	5.20	7.94	8.50	8.33	8.67	8.50	8.59	8.50	8.25	8.17	8.68	7.79		8.25	8.59	8.31

Carson, Kim (USA) (1974)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 1996 USA Olympic Trials (Atlanta, GA)**

USATF Women's Sprint Development (1996)

date	23-Jun-96	time	2.34	3.41	4.43	5.44	6.44	7.44	8.48	9.53	10.62	11.60	13.04	4 / 7				
reaction time		interval		1.07	1.02	1.01	1.00	1.00	1.04	1.05	1.09	0.98	1.44			3.10	3.04	3.12
wind	0.6 m/s	velocity	5.56	7.94	8.33	8.42	8.50	8.50	8.17	8.10	7.80	8.67	7.29	7.67		8.23	8.39	8.17

Carter, Kori (USA) (1992)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2020 Leonard Hilton Memorial Invitational (Houston, TX)**

CAA Hurdle Development (2020)

date	17-Jan-20	time	2.55	3.62	4.67	5.71	6.76						8.26	3 / 2				
reaction time		interval		1.07	1.05	1.04	1.05						1.50			3.16		
		velocity	5.10	7.94	8.10	8.17	8.10						8.67	7.26		8.07		

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

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

date	23-Jun-18	time	2.50	3.53	4.57	5.60	6.60	7.57	8.57	9.67	10.71	11.77	13.11	2 / 6				
reaction time		interval		1.03	1.04	1.03	1.00	0.97	1.00	1.10	1.04	1.06	1.34			3.10	2.97	3.20
wind	-1.4 m/s	velocity	5.20	8.25	8.17	8.25	8.50	8.76	8.50	7.73	8.17	8.02	7.84	7.63		8.23	8.59	7.97

Cartwright, Denisha (BAH) (1999)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Repechage 3 - 2024 Olympic Games (Paris, FRA)**

Paris 2024 Olympic Games - Results Book (2024)

date	08-Aug-24	time	2.39	3.46	4.59	5.71	6.79	7.87	8.94	10.01	11.07	12.13	13.45	4 / 7				
reaction time	0.151	interval		1.07	1.13	1.12	1.08	1.08	1.07	1.07	1.06	1.06	1.32			3.32	3.23	3.19
wind	-0.2 m/s	velocity	5.44	7.94	7.52	7.59	7.87	7.87	7.94	7.94	8.02	8.02	7.61	7.43		7.68	7.89	7.99

Heat 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

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

Castlin, Kristi (USA) (1988)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)**

Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season

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

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

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

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

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

CAA Hurdle Development (2020)

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

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

CAA Hurdle Development (2020)

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

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

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

date	27-Jul-19	time	2.60	3.63	4.64	5.64	6.61	7.61	8.58	9.58	10.61	11.62	12.86	7 / 7				
reaction time		interval		1.03	1.01	1.00	0.97	1.00	0.97	1.00	1.03	1.01	1.24			3.04	2.94	3.04

wind	-1.2 m/s	velocity	5.00	8.25	8.42	8.50	8.76	8.50	8.76	8.50	8.25	8.42	8.47	7.78		8.39	8.67	8.39
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)															CAA Hurdle Development (2019)			
date	21-May-19	time	2.65	3.67	4.71	5.66	6.72	7.71	8.75	9.75	10.79	11.85		13.10	8 / 7			
reaction time	0.154	interval	1.02	1.04	0.95	1.06	0.99	1.04	1.00	1.04	1.06	1.25				3.01	3.09	3.10
wind	-1.0 m/s	velocity	4.91	8.33	8.17	8.95	8.02	8.59	8.17	8.50	8.17	8.02	8.40	7.63		8.47	8.25	8.23
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)															Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps			
date	19-May-19	time	2.64	3.69	4.72	5.73	6.73	7.75	8.75	9.78	10.81	11.86		13.01	2 / 5			
reaction time	0.145	interval	1.05	1.03	1.01	1.00	1.02	1.00	1.03	1.03	1.05	1.15				3.09	3.02	3.11
wind	0.4 m/s	velocity	4.92	8.10	8.25	8.42	8.50	8.33	8.50	8.25	8.25	8.10	9.13	7.69		8.25	8.44	8.20
FINAL - 2017 Weltklasse (Zürich, SUI) (TV Analysis)															Henson (2020) - Athlete First: 2017 year end hurdle report			
date	24-Aug-17	time	2.58	3.64	4.68	5.68	6.68	7.68	8.68	9.70	10.74	11.78		13.03	9 / 8			
reaction time	0.138	interval	1.06	1.04	1.00	1.00	1.00	1.00	1.02	1.04	1.04	1.25				3.10	3.00	3.10
wind	-0.3 m/s	velocity	5.04	8.02	8.17	8.50	8.50	8.50	8.50	8.33	8.17	8.17	8.40	7.67		8.23	8.50	8.23
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)															Henson (2020) - Athlete First: 2017 year end hurdle report			
date	09-Jul-17	time	2.56	3.80	5.12										dnf	2 / --		
reaction time	0.128	interval	1.24	1.32														
wind	0.2 m/s	velocity	5.08	6.85	6.44													
FINAL - 2017 Athletissima (Lausanne, SUI) (TV Analysis)															Henson (2020) - Athlete First: 2017 year end hurdle report			
date	06-Jul-17	time	2.50	3.60	4.57	5.53	6.50	7.47	8.47	9.43	10.43	11.43		12.61	7 / 5			
reaction time	0.133	interval	1.10	0.97	0.96	0.97	0.97	1.00	0.96	1.00	1.00	1.18				3.03	2.94	2.96
wind	-0.1 m/s	velocity	5.20	7.73	8.76	8.85	8.76	8.76	8.50	8.85	8.50	8.50	8.90	7.93		8.42	8.67	8.61
FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)															Henson (2020) - Athlete First: 2017 year end hurdle report			
date	04-Jul-17	time	2.56	3.60	4.60	5.60	6.58	7.56	8.54	9.52	10.52	11.52		12.74	3 / 4			
reaction time	0.165	interval	1.04	1.00	1.00	0.98	0.98	0.98	0.98	1.00	1.00	1.22				3.04	2.94	2.98
wind	0.1 m/s	velocity	5.08	8.17	8.50	8.50	8.67	8.67	8.67	8.67	8.50	8.50	8.61	7.85		8.39	8.67	8.56
FINAL - 2017 Bislett Games (Oslo, NOR) (TV Analysis)															Henson (2020) - Athlete First: 2017 year end hurdle report			
date	15-Jun-17	time	2.56	3.62	4.62	5.60	6.58	7.56	8.54	9.52	10.54	11.58		12.75	6 / 2			
reaction time	0.140	interval	1.06	1.00	0.98	0.98	0.98	0.98	0.98	0.98	1.02	1.04	1.17			3.04	2.94	3.04
wind	0.8 m/s	velocity	5.08	8.02	8.50	8.67	8.67	8.67	8.67	8.67	8.33	8.17	8.97	7.84		8.39	8.67	8.39
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)															Henson (2020) - Athlete First: 2017 year end hurdle report			
date	27-May-17	time	2.56	3.60	4.62	5.64	6.62	7.60	8.60	9.60	10.60	11.60		12.82	6 / 6			
reaction time	0.163	interval	1.04	1.02	1.02	0.98	0.98	1.00	1.00	1.00	1.00	1.22				3.08	2.96	3.00
wind	0.8 m/s	velocity	5.08	8.17	8.33	8.33	8.67	8.67	8.50	8.50	8.50	8.50	8.61	7.80		8.28	8.61	8.50
FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)															Henson (2020) - Athlete First: 2017 year end hurdle report			
date	29-Apr-17	time	2.60	3.66	4.70	5.73	6.73	7.73	8.75	9.75	10.77	11.83		13.10	5 / 7			
reaction time		interval	1.06	1.04	1.03	1.00	1.00	1.02	1.00	1.02	1.06	1.27				3.13	3.02	3.08
wind	1.0 m/s	velocity	5.00	8.02	8.17	8.25	8.50	8.50	8.33	8.50	8.33	8.02	8.27	7.63		8.15	8.44	8.28
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)															Henson (2020) - Athlete First: 2016 year end hurdle report			
date	17-Aug-16	time	2.37	3.40	4.43	5.40	6.37	7.37	8.34	9.31	10.31	11.31		12.61	7 / 3			
reaction time	0.152	interval	1.03	1.03	0.97	0.97	1.00	0.97	0.97	1.00	1.00	1.30				3.03	2.94	2.97
wind	0.0 m/s	velocity	5.49	8.25	8.25	8.76	8.76	8.50	8.76	8.76	8.50	8.50	8.08	7.93		8.42	8.67	8.59
FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)															Henson (2020) - Athlete First: 2016 year end hurdle report			
date	22-Jul-16	time	2.54	3.58	4.60	5.58	6.56	7.54	8.50	9.46	10.46	11.46		12.59	9 / 3			
reaction time	0.144	interval	1.04	1.02	0.98	0.98	0.98	0.98	0.96	0.96	1.00	1.00	1.13			3.04	2.92	2.96
wind	0.3 m/s	velocity	5.12	8.17	8.33	8.67	8.67	8.67	8.85	8.85	8.50	8.50	9.29	7.94		8.39	8.73	8.61
Heat 2 - 2016 London Anniversary Games (London, GBR) (TV Analysis)															Henson (2020) - Athlete First: 2016 year end hurdle report			
date	22-Jul-16	time	2.54	3.58	4.60	5.56	6.52	7.48	8.44	9.44	10.44	11.48		12.67	5 / 3			
reaction time	0.140	interval	1.04	1.02	0.96	0.96	0.96	0.96	0.96	1.00	1.00	1.04	1.19			3.02	2.88	3.04
wind	0.2 m/s	velocity	5.12	8.17	8.33	8.85	8.85	8.85	8.85	8.50	8.50	8.17	8.82	7.89		8.44	8.85	8.39
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)															Henson (2020) - Athlete First: 2016 year end hurdle report			
date	08-Jul-16	time	2.50	3.53	4.53	5.50	6.47	7.40	8.37	9.34	10.34	11.31		12.50	3 / 2			
reaction time	0.175	interval	1.03	1.00	0.97	0.97	0.93	0.97	0.97	1.00	0.97	1.19	PB			3.00	2.87	2.94
wind	1.2 m/s	velocity	5.20	8.25	8.50	8.76	8.76	9.14	8.76	8.76	8.50	8.76	8.82	8.00		8.50	8.89	8.67
FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)															Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions			
date	10-May-15	time	2.63	3.71	4.73	5.73	6.72	7.69	8.68	9.70	10.70	11.74		12.92	3 / 4			
reaction time	0.171	interval	1.08	1.02	1.00	0.99	0.97	0.99	1.02	1.00	1.04	1.18				3.10	2.95	3.06
wind	0.9 m/s	velocity	4.94	7.87	8.33	8.50	8.59	8.76	8.59	8.33	8.50	8.17	8.90	7.74		8.23	8.64	8.33
FINAL - 2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis)															Henson (2020) - Athlete First: 2016 year end hurdle report			

date	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	interval		1.10	1.00	1.02	0.94	0.96	1.00	1.00	1.00	1.00	1.27		3.12	2.90	3.00
wind	velocity	5.28	7.73	8.50	8.33	9.04	8.85	8.50	8.50	8.50	8.50	8.27	7.84	8.17	8.79	8.50
Cattaneo, Micol (ITA) (1982)																
FINAL - 2013 European Indoor Championships (Göteborg, SWE)																
<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KorthHäck.aspx</i>																
date	01-Mar-13	time	2.64	3.71	4.73	5.74	6.78						8.11	7 / 6		
reaction time	0.180	interval		1.07	1.02	1.01	1.04						1.33		3.10	
		velocity	4.92	7.94	8.33	8.42	8.17						9.77	7.40	8.23	
Chadwick, Payton (USA) (1995)																
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)																
<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																
date	12-Jun-22	time	2.53	3.57	4.60	5.63	6.67	7.67	8.70	9.70	10.73	11.80	13.03	2 / 7		
reaction time	0.159	interval		1.04	1.03	1.03	1.04	1.00	1.03	1.00	1.03	1.07	1.23		3.10	3.07
wind	2.0 m/s	velocity	5.14	8.17	8.25	8.25	8.17	8.50	8.25	8.50	8.25	7.94	8.17	7.67	8.23	8.31
FINAL - 2022 Doha Diamond League (Doha, QAT) (TV Analysis)																
<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																
date	13-May-22	time	2.54	3.56	4.57	5.55	6.55	7.55	8.55	9.55	10.58	11.64	12.86	1 / 7		
reaction time	0.156	interval		1.02	1.01	0.98	1.00	1.00	1.00	1.00	1.03	1.06	1.22		3.01	3.00
wind	3.8 m/s	velocity	5.12	8.33	8.42	8.67	8.50	8.50	8.50	8.50	8.25	8.02	8.24	7.78	8.47	8.50
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)																
<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																
date	09-Sep-21	time	2.50	3.52	4.52	5.50	6.46	7.44	8.40	9.40	10.38	11.42	12.62	7 / 4		
reaction time	0.132	interval		1.02	1.00	0.98	0.96	0.98	0.96	1.00	0.98	1.04	1.20		3.00	2.90
wind	0.4 m/s	velocity	5.20	8.33	8.50	8.67	8.85	8.67	8.85	8.50	8.67	8.17	8.38	7.92	8.50	8.79
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)																
<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																
date	13-Jul-21	time	2.52	3.54	4.56	5.54	6.54	7.52	8.50	9.50	10.51	11.53	12.75	3 / 2		
reaction time	0.172	interval		1.02	1.02	0.98	1.00	0.98	0.98	1.00	1.01	1.02	1.22		3.02	2.96
wind	1.5 m/s	velocity	5.16	8.33	8.33	8.67	8.50	8.67	8.67	8.50	8.42	8.33	8.24	7.84	8.44	8.61
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)																
<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																
date	20-Jun-21	time	2.50	3.53	4.52	5.52	6.50	7.47	8.45	9.44	10.44	11.47	12.66	7 / 7		
reaction time	0.190	interval		1.03	0.99	1.00	0.98	0.97	0.98	0.99	1.00	1.03	1.19		3.02	2.93
wind	0.8 m/s	velocity	5.20	8.25	8.59	8.50	8.67	8.76	8.67	8.59	8.50	8.25	8.45	7.90	8.44	8.70
Semi Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)																
<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																
date	20-Jun-21	time	2.47	3.50	4.50	5.47	6.44	7.42	8.40	9.40	10.40	11.43	12.64	7 / 3		
reaction time	0.175	interval		1.03	1.00	0.97	0.97	0.98	0.98	1.00	1.00	1.03	1.21		3.00	2.93
wind	1.3 m/s	velocity	5.26	8.25	8.50	8.76	8.76	8.67	8.67	8.50	8.50	8.25	8.31	7.91	8.50	8.70
Heat 3 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)																
<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																
date	19-Jun-21	time	2.46	3.52	4.54	5.53	6.50	7.47	8.43	9.43	10.43	11.43	12.66	6 / 3		
reaction time	0.182	interval		1.06	1.02	0.99	0.97	0.97	0.96	1.00	1.00	1.00	1.23		3.07	2.90
wind	1.0 m/s	velocity	5.28	8.02	8.33	8.59	8.76	8.76	8.85	8.50	8.50	8.50	8.17	7.90	8.31	8.79
FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)																
<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																
date	25-Sep-20	time	2.53	3.56	4.56	5.56	6.56	7.56	8.53	9.53	10.56	11.60	12.78	5 / 1		
reaction time	0.137	interval		1.03	1.00	1.00	1.00	1.00	0.97	1.00	1.03	1.04	1.18		3.03	2.97
wind	1.1 m/s	velocity	5.14	8.25	8.50	8.50	8.50	8.50	8.76	8.50	8.25	8.17	8.52	7.82	8.42	8.59
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																
<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																
date	17-Sep-20	time	2.52	3.60	4.64	5.64	6.64	7.64	8.66	9.68	10.70	11.72	12.89	2 / 3		
reaction time	0.126	interval		1.08	1.04	1.00	1.00	1.00	1.02	1.02	1.02	1.02	1.17		3.12	3.02
wind	0.1 m/s	velocity	5.16	7.87	8.17	8.50	8.50	8.50	8.33	8.33	8.33	8.33	8.59	7.76	8.17	8.44
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)																
<i>CAA Hurdle Development (2020)</i>																
date	15-Feb-20	time	2.60	3.63	4.63	5.64	6.64						7.94	3 / 2		
reaction time	0.160	interval		1.03	1.00	1.01	1.00						1.30		3.04	
		velocity	5.00	8.25	8.50	8.42	8.50						10.00	7.56	8.39	
Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)																
<i>CAA Hurdle Development (2020)</i>																
date	15-Feb-20	time	2.62	3.65	4.69	5.65	6.67						8.04	7 / 2		
reaction time	0.170	interval		1.03	1.04	0.96	1.02						1.37		3.03	
		velocity	4.96	8.25	8.17	8.85	8.33						9.49	7.46	8.42	
FINAL - 2020 Millrose Games (New York, NY)																
<i>PrimeTime Timing (2020) - http://results.nyrrmillrosegames.org/</i>																
date	08-Feb-20	time	2.57	3.62	4.61	5.61	6.59						8.00	8 / 3		
reaction time	0.161	interval		1.05	0.99	1.00	0.98						1.41		3.04	
		velocity	5.06	8.10	8.59	8.50	8.67						9.22	7.50	8.39	
FINAL - 2020 New Balance Indoor Grand Prix (Boston, MA)																
<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>																
date	25-Jan-20	time	2.63	3.67	4.71	5.73	6.69						8.13	2 / 6		

reaction time interval 1.04 1.04 1.02 0.96
velocity 4.94 8.17 8.17 8.33 8.85

1.44 3.10
9.03 7.38 8.23

Heat 1 - 2020 New Balance Indoor Grand Prix (Boston, MA)PrimeTime Timing (2020) - <https://results.nbindoorgrandprix.com/>

date 25-Jan-20 time 2.66 3.71 4.74 5.75 6.72
reaction time interval 1.05 1.03 1.01 0.97
velocity 4.89 8.10 8.25 8.42 8.76

8.07 3 / 3
1.35 3.09
9.63 7.43 8.25

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

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

date 08-Jun-19 time 2.50 3.54 4.56 5.56 6.56 7.56 8.56 9.66 10.73 11.80
reaction time interval 1.04 1.02 1.00 1.00 1.00 1.10 1.07 1.07 1.25
wind 0.6 m/s velocity 5.20 8.17 8.33 8.50 8.50 8.50 8.50 7.73 7.94 7.94 8.40 7.66

13.05 2 / 8
3.06 3.00 3.24
8.33 8.50 7.87

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

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

date 9-Mar-19 time 2.53 3.60 4.60 5.58 6.58
reaction time interval 1.07 1.00 0.98 1.00
velocity 5.14 7.94 8.50 8.67 8.50

7.97 4 / 3
1.39 3.05
9.35 7.53 8.36

Chardonnet, Michèle (FRA) (1956)

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

FINAL - 1986 French National Indoor Championships (Lievin, FRA)

Aubert (1986) - indoor - video - haies, etude des performances

date 26-Jan-86 time 2.67 3.75 4.80 5.84 6.86
reaction time interval 1.08 1.05 1.04 1.02
velocity 4.87 7.87 8.10 8.17 8.33

8.26 / 5
1.40 3.17
9.29 7.26 8.04

Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)

Aubert (1986) - indoor - video - haies, etude des performances

date 25-Jan-86 time 2.71 3.78 4.84 5.90 6.92
reaction time interval 1.07 1.06 1.06 1.02
velocity 4.80 7.94 8.02 8.02 8.33

8.42 / 2
1.50 3.19
8.67 7.13 7.99

Heat ? - 1986 French National Indoor Championships (Lievin, FRA)

Aubert (1986) - indoor - video - haies, etude des performances

date 25-Jan-86 time 2.69 3.78 4.86 5.92 6.96
reaction time interval 1.09 1.08 1.06 1.04
velocity 4.83 7.80 7.87 8.02 8.17

8.42 / 2
1.46 3.23
8.90 7.13 7.89

Charlton, Devynne (BAH) (1995)

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

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

Omega Timing (2024) - diamond league race analysis

date 30-Aug-24 time 2.39 3.43 4.41 5.38 6.33 7.31 8.28 9.27
reaction time interval 1.04 0.98 0.97 0.95 0.98 0.97 0.99
wind -0.4 m/s velocity 5.44 8.17 8.67 8.76 8.95 8.67 8.76 8.59

dnf 6 / --
2.99 2.90
8.53 8.79

FINAL - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

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

12.56 8 / 6
3.02 2.87 2.98
8.44 8.89 8.56

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

Paris 2024 Olympic Games - Results Book (2024)

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

12.50 7 / 2
2.99 2.87 3.01
8.53 8.89 8.47

Heat 5 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

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

12.71 2 / 2
3.05 2.93 3.05
8.36 8.70 8.36

FINAL - 2024 Prefontaine Classic (Eugene, OR)

Omega Timing (2024) - diamond league race analysis

date 25-May-24 time 2.42 3.46 4.46 5.45 6.43 7.40 8.38 9.38 10.38 11.40
reaction time interval 1.04 1.00 0.99 0.98 0.97 0.98 1.00 1.00 1.02 1.23
wind -0.9 m/s velocity 5.37 8.17 8.50 8.59 8.67 8.76 8.67 8.50 8.50 8.33 8.17 7.92

12.63 3 / 4
3.03 2.93 3.02
8.42 8.70 8.44

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

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

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

12.64 4 / 2
2.95 2.93 3.06
8.64 8.70 8.33

FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)

Omega Timing (2024) - diamond league race analysis

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

12.49 6 / 2
2.97 2.88 2.99
8.59 8.85 8.53

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

date 03-Mar-24 time 2.50 3.48 4.48 5.42 6.35
reaction time interval 0.98 1.00 0.94 0.93

7.65 4 / 1
1.30 WR 2.92

	velocity	5.20	8.67	8.50	9.04	9.14							10.00	7.84		8.73			
Heat 3 - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record																			
date	03-Mar-24	time	2.56	3.58	4.58	5.56	6.54							7.93		6 / 1			
reaction time	0.181	interval		1.02	1.00	0.98	0.98						1.39				3.00		
		velocity	5.08	8.33	8.50	8.67	8.67						9.35	7.57			8.50		
FINAL - 2024 Villa de Madrid Indoor Meeting (Madrid, ESP) (TV Analysis) Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record																			
date	23-Feb-24	time	2.47	3.47	4.43	5.39	6.34							7.68		4 / 1			
reaction time	0.139	interval		1.00	0.96	0.96	0.95						1.34				2.92		
		velocity	5.26	8.50	8.85	8.85	8.95						9.70	7.81			8.73		
FINAL - 2024 Millrose Games (New York, NY) (TV Analysis) Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record																			
date	11-Feb-24	time	2.48	3.48	4.46	5.40	6.34							7.67		4 / 1			
reaction time	0.168	interval		1.00	0.98	0.94	0.94						1.33	WR			2.92		
		velocity	5.24	8.50	8.67	9.04	9.04						9.77	7.82			8.73		
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis) Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record																			
date	04-Feb-24	time	2.48	3.49	4.48	5.46	6.43							7.76		5 / 3			
reaction time	0.167	interval		1.01	0.99	0.98	0.97						1.33				2.98		
		velocity	5.24	8.42	8.59	8.67	8.76						9.77	7.73			8.56		
FINAL - 2024 Corky Classic (Lubbock, TX) (TV Analysis) Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record																			
date	20-Jan-24	time	2.36	3.40	4.38	5.38	6.38							7.75		4 / 1			
reaction time		interval		1.04	0.98	1.00	1.00						1.37	NR PB			3.02		
		velocity	5.51	8.17	8.67	8.50	8.50						9.49	7.74			8.44		
FINAL - 2023 Weltklasse (Zürich, SUI) Omega Timing (2023) - diamond league race analysis																			
date	31-Aug-23	time	2.43	3.47	4.48	5.46	6.44	7.42	8.40	9.41	10.44	11.49		12.75		1 / 8			
reaction time	0.152	interval		1.04	1.01	0.98	0.98	0.98	0.98	1.01	1.03	1.05	1.26				3.03	2.94	3.09
wind	-0.2 m/s	velocity	5.35	8.17	8.42	8.67	8.67	8.67	8.67	8.42	8.25	8.10	7.98	7.84			8.42	8.67	8.25
FINAL - 2023 World Athletics Championships (Budapest, HUN) Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season																			
date	24-Aug-23	time	2.51	3.53	4.52	5.51	6.48	7.44	8.41	9.41	10.41	11.43		12.52		6 / 4			
reaction time	0.149	interval		1.02	0.99	0.99	0.97	0.96	0.97	1.00	1.00	1.02	1.09				3.00	2.90	3.02
wind	-0.2 m/s	velocity	5.18	8.33	8.59	8.59	8.76	8.85	8.76	8.50	8.50	8.33	9.22	7.99			8.50	8.79	8.44
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis) Henson (2023) - Athlete First: 2023 year end hurdle report																			
date	23-Aug-23	time	2.50	3.50	4.48	5.44	6.39	7.36	8.34	9.31	10.32	11.34		12.49		6 / 2			
reaction time	0.177	interval		1.00	0.98	0.96	0.95	0.97	0.98	0.97	1.01	1.02	1.15				2.94	2.90	3.00
wind	0.5 m/s	velocity	5.20	8.50	8.67	8.85	8.95	8.76	8.67	8.76	8.42	8.33	8.74	8.01			8.67	8.79	8.50
Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis) Henson (2023) - Athlete First: 2023 year end hurdle report																			
date	22-Aug-23	time	2.50	3.49	4.46	5.43	6.39	7.34	8.30	9.28	10.26	11.30		12.44		9 / 2			
reaction time	0.159	interval		0.99	0.97	0.97	0.96	0.95	0.96	0.98	0.98	1.04	1.14				2.93	2.87	3.00
wind	0.1 m/s	velocity	5.20	8.59	8.76	8.76	8.85	8.95	8.85	8.67	8.67	8.17	8.82	8.04			8.70	8.89	8.50
FINAL - 2023 Bauhaus Galan (Stockholm, SWE) Omega Timing (2023) - diamond league race analysis																			
date	02-Jul-23	time	2.40	3.46	4.49	5.48	6.47	7.47	8.47	9.48	10.50	11.56		12.85		3 / 4			
reaction time	0.141	interval		1.06	1.03	0.99	0.99	1.00	1.00	1.01	1.02	1.06	1.29				3.08	2.99	3.09
wind	0.9 m/s	velocity	5.42	8.02	8.25	8.59	8.59	8.50	8.50	8.42	8.33	8.02	7.79	7.78			8.28	8.53	8.25
FINAL - 2023 FBK Games (Hengelo, NED) Omega Timing (2023) - continental tour race analysis																			
date	04-Jun-23	time	2.41	3.45	4.46	5.46	6.45	7.45	8.46	9.49	10.53	11.60		12.93		6 / 6			
reaction time	0.155	interval		1.04	1.01	1.00	0.99	1.00	1.01	1.03	1.04	1.07	1.33				3.05	3.00	3.14
wind	0.2 m/s	velocity	5.39	8.17	8.42	8.50	8.59	8.50	8.42	8.25	8.17	7.94	7.56	7.73			8.36	8.50	8.12
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis) Henson (2022) - Athlete First: 2022 year end hurdle report																			
date	08-Sep-22	time	2.45	3.47	4.45	5.43	6.40	7.39	8.37	9.37	10.39	11.41		12.66		2 / 5			
reaction time	0.147	interval		1.02	0.98	0.98	0.97	0.99	0.98	1.00	1.02	1.02	1.25				2.98	2.94	3.04
wind	-0.3 m/s	velocity	5.31	8.33	8.67	8.67	8.76	8.59	8.67	8.50	8.33	8.33	8.04	7.90			8.56	8.67	8.39
FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis) Henson (2022) - Athlete First: 2022 year end hurdle report																			
date	02-Sep-22	time	2.44	3.47	4.47	5.47	6.44	7.40	8.40	9.40	10.41	11.41		12.66		1 / 6			
reaction time	0.160	interval		1.03	1.00	1.00	0.97	0.96	1.00	1.00	1.01	1.00	1.25				3.03	2.93	3.01
wind	0.1 m/s	velocity	5.33	8.25	8.50	8.50	8.76	8.85	8.50	8.50	8.42	8.50	8.04	7.90			8.42	8.70	8.47
FINAL - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis) Henson (2022) - Athlete First: 2022 year end hurdle report																			
date	07-Aug-22	time	2.48	3.48	4.46	5.42	6.40	7.38	8.36	9.36	10.36	11.40		12.58		7 / 2			
reaction time	0.144	interval		1.00	0.98	0.96	0.98	0.98	0.98	1.00	1.00	1.04	1.18				2.94	2.94	3.04
wind	-0.2 m/s	velocity	5.24	8.50	8.67	8.85	8.67	8.67	8.67	8.50	8.50	8.17	8.52	7.95			8.67	8.67	8.39
FINAL - 2022 World Athletics Championships (Eugene, OR) Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season																			

date	24-Jul-22	time	2.52	3.51	4.47	5.41	6.35	7.35	8.34	9.34	10.37	11.39		12.53	8 / 7			
reaction time	0.129	interval		0.99	0.96	0.94	0.94	1.00	0.99	1.00	1.03	1.02	1.14			2.89	2.93	3.05
wind	2.5 m/s	velocity	5.16	8.59	8.85	9.04	9.04	8.50	8.59	8.50	8.25	8.33	8.82	7.98		8.82	8.70	8.36
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	24-Jul-22	time	2.43	3.43	4.42	5.38	6.32	7.28	8.26	9.24	10.24	11.26		12.46	3 / 2			
reaction time	0.138	interval		1.00	0.99	0.96	0.94	0.96	0.98	0.98	1.00	1.02	1.20	NR PB		2.95	2.88	3.00
wind	-0.1 m/s	velocity	5.35	8.50	8.59	8.85	9.04	8.85	8.67	8.67	8.50	8.33	8.37	8.03		8.64	8.85	8.50
Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	23-Jul-22	time	2.46	3.48	4.48	5.46	6.44	7.40	8.38	9.38	10.40	11.46		12.69	8 / 2			
reaction time	0.124	interval		1.02	1.00	0.98	0.98	0.96	0.98	1.00	1.02	1.06	1.23			3.00	2.92	3.08
wind	-0.4 m/s	velocity	5.28	8.33	8.50	8.67	8.67	8.85	8.67	8.50	8.33	8.02	8.17	7.88		8.50	8.73	8.28
FINAL - 2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	30-Jun-22	time	2.48	3.50	4.48	5.46	6.43	7.41	8.37	9.37	10.37	11.45		12.65	7 / 5			
reaction time	0.145	interval		1.02	0.98	0.98	0.97	0.98	0.96	1.00	1.00	1.08	1.20			2.98	2.91	3.08
wind	-0.5 m/s	velocity	5.24	8.33	8.67	8.67	8.76	8.67	8.85	8.50	8.50	7.87	8.37	7.91		8.56	8.76	8.28
FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	18-Jun-22	time	2.45	3.47	4.47	5.45	6.42	7.39	8.38	9.38	10.38	11.41		12.63	7 / 2			
reaction time	0.153	interval		1.02	1.00	0.98	0.97	0.97	0.99	1.00	1.00	1.03	1.22			3.00	2.93	3.03
wind	-0.4 m/s	velocity	5.31	8.33	8.50	8.67	8.76	8.76	8.59	8.50	8.50	8.25	8.24	7.92		8.50	8.70	8.42
FINAL - 2022 Doha Diamond League (Doha, QAT) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	13-May-22	time	2.45	3.47	4.45	5.43	6.39	7.34	8.34	9.34	10.36	11.40		12.61	7 / 4			
reaction time	0.154	interval		1.02	0.98	0.98	0.96	0.95	1.00	1.00	1.02	1.04	1.21			2.98	2.91	3.06
wind	3.8 m/s	velocity	5.31	8.33	8.67	8.67	8.85	8.95	8.50	8.50	8.33	8.17	8.31	7.93		8.56	8.76	8.33
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	19-Mar-22	time	2.44	3.44	4.44	5.40	6.38							7.81	4 / 2			
reaction time	0.157	interval		1.00	1.00	0.96	0.98						1.43	NR		2.96		
		velocity	5.33	8.50	8.50	8.85	8.67						9.09	7.68		8.61		
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	02-Aug-21	time	2.48	3.50	4.50	5.48	6.46	7.46	8.46	9.46	10.48	11.50		12.74	8 / 6			
reaction time	0.144	interval		1.02	1.00	0.98	0.98	1.00	1.00	1.00	1.02	1.02	1.24			3.00	2.98	3.04
wind	-0.3 m/s	velocity	5.24	8.33	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.33	8.10	7.85		8.50	8.56	8.39
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	10-Jun-21	time	2.48	3.50	4.50	5.50	6.48	7.46	8.46	9.46	10.50	11.54		12.80	2 / 2			
reaction time	0.147	interval		1.02	1.00	1.00	0.98	0.98	1.00	1.00	1.04	1.04	1.26			3.02	2.96	3.08
wind	-0.8 m/s	velocity	5.24	8.33	8.50	8.50	8.67	8.67	8.50	8.50	8.17	8.17	7.98	7.81		8.44	8.61	8.28
FINAL - 2021 USATF Golden Games (Walnut, CA) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season</i>			
date	09-May-21	time	2.43	3.46	4.44	5.42	6.38	7.36	8.34	9.32	10.34	11.36		12.61	1 / 4			
reaction time	0.147	interval		1.03	0.98	0.98	0.96	0.98	0.98	0.98	1.02	1.02	1.25	NR PB		2.99	2.92	3.02
wind	2.0 m/s	velocity	5.35	8.25	8.67	8.67	8.85	8.67	8.67	8.67	8.33	8.33	8.04	7.93		8.53	8.73	8.44
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	18-Aug-19	time	2.56	3.67	4.70	5.70	6.70	7.70	8.70	9.70	10.71	11.74		12.92	6 / 7			
reaction time	0.150	interval		1.11	1.03	1.00	1.00	1.00	1.00	1.00	1.01	1.03	1.18			3.14	3.00	3.04
wind	-0.2 m/s	velocity	5.08	7.66	8.25	8.50	8.50	8.50	8.50	8.50	8.42	8.25	8.90	7.74		8.12	8.50	8.39
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	21-May-19	time	2.62	3.71	4.78	5.84	6.93	8.00	9.09	10.21				14.08	9 / 10			
reaction time	0.172	interval		1.09	1.07	1.06	1.09	1.07	1.09	1.12						3.22	3.25	
wind	-1.0 m/s	velocity	4.96	7.80	7.94	8.02	7.80	7.94	7.80	7.59				7.10		7.92	7.85	
FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	09-Jun-18	time	2.46	3.50	4.50	5.50	6.46	7.43	8.43	9.43	10.43	11.50		12.77	8 / 2			
reaction time		interval		1.04	1.00	1.00	0.96	0.97	1.00	1.00	1.00	1.07	1.27			3.04	2.93	3.07
wind	0.9 m/s	velocity	5.28	8.17	8.50	8.50	8.85	8.76	8.50	8.50	8.50	7.94	8.27	7.83		8.39	8.70	8.31
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)															<i>Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60m Hurdles Women</i>			
date	03-Mar-18	time	2.59	3.63	4.69	5.71	6.75							8.18	8 / 8			
reaction time	0.158	interval		1.04	1.06	1.02	1.04						1.43			3.12		
		velocity	5.02	8.17	8.02	8.33	8.17						9.09	12.22		8.17		
Semi-Final 3 - 2017 IAAF World Championships (London, GBR)															<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>			
date	11-Aug-17	time	2.42	3.47	4.49	5.51	6.52	7.53	8.55	9.56	10.59	11.65		12.95	2 / 6			
reaction time	0.163	interval		1.05	1.02	1.02	1.01	1.01	1.02	1.01	1.03	1.06	1.30			3.09	3.04	3.10
wind	0.2 m/s	velocity	5.37	8.10	8.33	8.33	8.42	8.42	8.33	8.42	8.25	8.02	8.08	7.72		8.25	8.39	8.23

Chatfield, Emelia (HAI) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Repechage 1 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	08-Aug-24	time	2.49	3.57	4.64	5.69	6.72	7.75	8.79	9.84	10.89	11.95		13.24	3 / 6			
reaction time	0.151	interval	1.08	1.07	1.05	1.03	1.03	1.04	1.05	1.05	1.06	1.29			3.20	3.10	3.16	
wind	0.1 m/s	velocity	5.22	7.87	7.94	8.10	8.25	8.25	8.17	8.10	8.10	8.02	7.79	7.55	7.97	8.23	8.07	
Heat 2 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	07-Aug-24	time	2.51	3.59	4.63	5.66	6.67	7.69	8.71	9.73	10.75	11.79		13.06	5 / 8			
reaction time	0.158	interval	1.08	1.04	1.03	1.01	1.02	1.02	1.02	1.02	1.02	1.04	1.27		3.15	3.05	3.08	
wind	0.0 m/s	velocity	5.18	7.87	8.17	8.25	8.42	8.33	8.33	8.33	8.33	8.17	7.91	7.66	8.10	8.36	8.28	
Chausseray, Celia (FRA) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	12-Sep-20	time	2.67	3.78	4.79	5.94	6.99	8.00	9.11	10.19	11.24	12.39		13.73	2 / 6			
reaction time	0.208	interval	1.11	1.01	1.15	1.05	1.01	1.11	1.08	1.05	1.15	1.34	PB		3.27	3.17	3.28	
wind	1.5 m/s	velocity	4.87	7.66	8.42	7.39	8.10	8.42	7.66	7.87	8.10	7.39	7.50	7.28	7.80	8.04	7.77	
Chen Jiamin (CHN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Chinese National Championships (Chongqing, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	25-Jun-21	time	2.63	3.67	4.71	5.72	6.74	7.76	8.77	9.80	10.83	11.89		13.01	7 / 2			
reaction time	0.170	interval	1.04	1.04	1.01	1.02	1.02	1.01	1.03	1.03	1.06	1.12	PB		3.09	3.05	3.12	
wind	1.7 m/s	velocity	4.94	8.17	8.17	8.42	8.33	8.33	8.42	8.25	8.25	8.02	8.97	7.69	8.25	8.36	8.17	
Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	25-Jun-21	time	2.63	3.69	4.77	5.82	6.86	7.89	8.94	10.01	11.06	12.14		13.34	4 / 1			
reaction time	0.146	interval	1.06	1.08	1.05	1.04	1.03	1.05	1.07	1.05	1.08	1.20			3.19	3.12	3.20	
wind	-0.3 m/s	velocity	4.94	8.02	7.87	8.10	8.17	8.25	8.10	7.94	8.10	7.87	8.38	7.50	7.99	8.17	7.97	
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	12-Jun-21	time	2.63	3.65	4.68	5.70	6.72	7.72	8.76	9.79	10.84	11.90		13.04	5 / 2			
reaction time	0.153	interval	1.02	1.03	1.02	1.02	1.00	1.04	1.03	1.05	1.06	1.14	PB		3.07	3.06	3.14	
wind	1.0 m/s	velocity	4.94	8.33	8.25	8.33	8.33	8.50	8.17	8.25	8.10	8.02	8.82	7.67	8.31	8.33	8.12	
Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	12-Jun-21	time	2.58	3.63	4.67	5.71	6.74	7.77	8.79	9.83	10.88	11.94		13.16	3 / 2			
reaction time	0.145	interval	1.05	1.04	1.04	1.03	1.03	1.02	1.04	1.05	1.06	1.22			3.13	3.08	3.15	
wind	2.2 m/s	velocity	5.04	8.10	8.17	8.17	8.25	8.25	8.33	8.17	8.10	8.02	8.24	7.60	8.15	8.28	8.10	
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	24-Apr-21	time	2.65	3.70	4.75	5.79	6.84	7.87	8.92	9.98	11.01	12.10		13.26	9 / 3			
reaction time	0.159	interval	1.05	1.05	1.04	1.05	1.03	1.05	1.06	1.03	1.09	1.16			3.14	3.13	3.18	
wind	-0.8 m/s	velocity	4.91	8.10	8.10	8.17	8.10	8.25	8.10	8.02	8.25	7.80	8.66	7.54	8.12	8.15	8.02	
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	24-Apr-21	time	2.67	3.75	4.81	5.89	6.96	8.00	9.07	10.14	11.24	12.36		13.56	7 / 3			
reaction time	0.165	interval	1.08	1.06	1.08	1.07	1.04	1.07	1.07	1.07	1.10	1.12	1.20		3.22	3.18	3.29	
wind	0.6 m/s	velocity	4.87	7.87	8.02	7.87	7.94	8.17	7.94	7.94	7.73	7.59	8.37	7.37	7.92	8.02	7.75	
FINAL - 2021 National Grand Prix (Chengdu, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	02-Apr-21	time	2.63	3.70	4.74	5.78	6.80	7.82	8.88	9.92	10.97	12.04		13.20	8 / 1			
reaction time	0.201	interval	1.07	1.04	1.04	1.02	1.02	1.06	1.04	1.05	1.07	1.16	PB		3.15	3.10	3.16	
wind	0.1 m/s	velocity	4.94	7.94	8.17	8.17	8.33	8.33	8.02	8.17	8.10	7.94	8.66	7.58	8.10	8.23	8.07	
Heat 1 - 2021 National Grand Prix (Chengdu, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	02-Apr-21	time	2.68	3.76	4.82	5.86	6.96	8.04	9.14	10.26	11.40	12.54		13.82	4 / 3			
reaction time	0.193	interval	1.08	1.06	1.04	1.10	1.08	1.10	1.12	1.14	1.14	1.28			3.18	3.28	3.40	
wind	1.0 m/s	velocity	4.85	7.87	8.02	8.17	7.73	7.87	7.73	7.59	7.46	7.46	7.85	7.24	8.02	7.77	7.50	
FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	18-Mar-21	time	2.59	3.65	4.69	5.73	6.77							8.14	3 / 2			
reaction time	0.133	interval	1.06	1.04	1.04	1.04						1.37	PB		3.14			
		velocity	5.02	8.02	8.17	8.17	8.17					9.49	7.37		8.12			
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)													<i>CAA Hurdle Development (2020)</i>					
date	15-Sep-20	time	2.80	3.89	5.00	6.08	7.14	8.21	9.30	10.39	11.51	12.66		13.92	9 / 5			
reaction time	0.203	interval	1.09	1.11	1.08	1.06	1.07	1.09	1.09	1.12	1.15	1.26			3.28	3.22	3.36	
wind	0.3 m/s	velocity	4.64	7.80	7.66	7.87	8.02	7.94	7.80	7.80	7.59	7.39	7.98	7.18	7.77	7.92	7.59	
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)													<i>CAA Hurdle Development (2019)</i>					
date	24-Aug-19	time	2.67	3.71	4.81	5.85	6.91	7.96	9.01	10.09	11.16	12.26		13.46	5 / 1			
reaction time	0.215	interval	1.04	1.10	1.04	1.06	1.05	1.05	1.08	1.07	1.10	1.20			3.18	3.16	3.25	
wind	-0.1 m/s	velocity	4.87	8.17	7.73	8.17	8.02	8.10	8.10	7.87	7.94	7.73	8.75	7.43	8.02	8.07	7.85	

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

date	23-Aug-19	time	2.72	3.79	4.86	5.92	6.99	8.06	9.14	10.24	11.34	12.46		13.72
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	
wind	0.2 m/s	velocity	4.78	7.94	7.94	8.02	7.94	7.94	7.87	7.73	7.73	7.59	8.33	7.29

CAA Hurdle Development (2019)

6 / 2			
	3.20	3.22	3.32
	7.97	7.92	7.68

FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)

date	02-Aug-19	time	2.70	3.75	4.80	5.83	6.91	7.96	9.03	10.10	11.22	12.34		13.60
reaction time	0.185	interval		1.05	1.05	1.03	1.08	1.05	1.07	1.07	1.12	1.12	1.26	
wind	0.0 m/s	velocity	4.81	8.10	8.10	8.25	7.87	8.10	7.94	7.94	7.59	7.59	8.33	7.35

CAA Hurdle Development (2019)

6 / 7			
	3.13	3.20	3.31
	8.15	7.97	7.70

Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)

date	02-Aug-19	time	2.67	3.74	4.78	5.84	6.89	7.96	9.04	10.13	11.21	12.31		13.57
reaction time	0.146	interval		1.07	1.04	1.06	1.05	1.07	1.08	1.09	1.08	1.10	1.26	
wind	-0.3 m/s	velocity	4.87	7.94	8.17	8.02	8.10	7.94	7.87	7.80	7.87	7.73	8.33	7.37

CAA Hurdle Development (2019)

4 / 2			
	3.17	3.20	3.27
	8.04	7.97	7.80

FINAL - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.66	3.70	4.74	5.77	6.77	7.82	8.86	9.91	10.97	12.06		13.25
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	
wind	0.2 m/s	velocity	4.89	8.17	8.17	8.25	8.50	8.10	8.17	8.10	8.02	7.80	8.82	7.55

CAA Hurdle Development (2019)

5 / 1			
	3.11	3.09	3.20
	8.20	8.25	7.97

Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.72	3.78	4.82	5.86	6.92	7.98	9.06	10.15	11.25	12.36		13.65
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	
wind	0.7 m/s	velocity	4.78	8.02	8.17	8.17	8.02	8.02	7.87	7.80	7.73	7.66	8.14	7.33

CAA Hurdle Development (2019)

6 / 1			
	3.14	3.20	3.30
	8.12	7.97	7.73

FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)

date	07-Jun-19	time	2.70	3.73	4.80	5.83	6.89	7.94	8.99	10.02	11.11	12.19		13.37
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	
wind	2.3 m/s	velocity	4.81	8.25	7.94	8.25	8.02	8.10	8.10	8.25	7.80	7.87	8.90	7.48

CAA Hurdle Development (2019)

4 / 4			
	3.13	3.16	3.20
	8.15	8.07	7.97

FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)

date	04-Jun-19	time	2.61	3.69	4.73	5.79	6.85	7.92	9.00	10.11	11.24	12.38		13.60
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	
wind	-1.2 m/s	velocity	4.98	7.87	8.17	8.02	8.02	7.94	7.87	7.66	7.52	7.46	8.61	7.35

CAA Hurdle Development (2019)

5 / 4			
	3.18	3.21	3.38
	8.02	7.94	7.54

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

date	30-May-19	time	2.68	3.75	4.80	5.88	6.92	8.04	9.12	10.21	11.31	12.43		13.64
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	
wind	-0.1 m/s	velocity	4.85	7.94	8.10	7.87	8.17	7.59	7.87	7.80	7.73	7.59	8.68	7.33

CAA Hurdle Development (2019)

7 / 3			
	3.20	3.24	3.31
	7.97	7.87	7.70

FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)

date	21-May-19	time	2.67	3.73	4.80	5.87	6.96	8.08	9.15	10.24	11.36	12.46		13.72
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	
wind	-1.0 m/s	velocity	4.87	8.02	7.94	7.94	7.80	7.59	7.94	7.80	7.59	7.73	8.33	7.29

CAA Hurdle Development (2019)

1 / 9			
	3.20	3.28	3.31
	7.97	7.77	7.70

FINAL - 2019 Asian Athletics Championships (Doha, QAT)

date	24-Apr-19	time	2.62	3.67	4.69	5.72	6.74	7.76	8.80	9.86	10.96	12.06		13.24
reaction time	0.150	interval		1.05	1.02	1.03	1.02	1.02	1.04	1.06	1.10	1.10	1.18	PB
wind	1.3 m/s	velocity	4.96	8.10	8.33	8.25	8.33	8.33	8.17	8.02	7.73	7.73	8.90	7.55

CAA Hurdle Development (2019)

6 / 2			
	3.10	3.08	3.26
	8.23	8.28	7.82

Heat 1 - 2019 Asian Athletics Championships (Doha, QAT)

date	23-Apr-19	time	2.65	3.70	4.75	5.80	6.83	7.86	8.89	9.94	11.01	12.11		13.30
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	
wind	1.3 m/s	velocity	4.91	8.10	8.10	8.10	8.25	8.25	8.25	8.10	7.94	7.73	8.82	7.52

CAA Hurdle Development (2019)

9 / 1			
	3.15	3.09	3.22
	8.10	8.25	7.92

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

date	13-Apr-19	time	2.68	3.74	4.79	5.83	6.87	7.91	8.94	10.00	11.06	12.14		13.35
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	
wind	0.3 m/s	velocity	4.85	8.02	8.10	8.17	8.17	8.17	8.25	8.02	8.02	7.87	8.68	7.49

CAA Hurdle Development (2019)

9 / 1			
	3.15	3.11	3.20
	8.10	8.20	7.97

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

date	13-Apr-19	time	2.64	3.70	4.82	5.87	6.94	8.02	9.09	10.20	11.31	12.44		13.71
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	
wind	0.7 m/s	velocity	4.92	8.02	7.59	8.10	7.94	7.87	7.94	7.66	7.66	7.52	8.27	7.29

CAA Hurdle Development (2019)

6 / 3			
	3.23	3.22	3.35
	7.89	7.92	7.61

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

date	09-Apr-19	time	2.71	3.79	4.81	5.87	6.93	7.99	9.04	10.10	11.16	12.29		13.71
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	
wind	0.1 m/s	velocity	4.80	7.87	8.33	8.02	8.02	8.02	8.10	8.02	8.02	7.52	7.39	7.29

CAA Hurdle Development (2019)

4 / 5			
	3.16	3.17	3.25
	8.07	8.04	7.85

Heat 4 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)

date	08-Apr-19	time	2.62	3.67	4.73	5.79	6.86	7.91	9.00	10.09	11.16	12.27		13.56
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CAA Hurdle Development (2019)

8 / 1			
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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
wind	-0.3 m/s	velocity	4.85	7.94	7.80	8.10	8.10	8.10	8.10	7.80	7.73	7.73	8.17	7.37	7.94	8.10	7.75

FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)

date	12-Jun-21	time	2.66	3.70	4.76	5.80	6.84	7.88	8.93	10.02	11.08	12.18			13.42	CAA Hurdle Development (2021)		
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
wind	1.0 m/s	velocity	4.89	8.17	8.02	8.17	8.17	8.17	8.10	7.80	8.02	7.73	8.10	7.45		8.12	8.15	7.85

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

date	12-Jun-21	time	2.58	3.64	4.72	5.76	6.82	7.87	8.95	10.03	11.14	12.26			13.57	CAA Hurdle Development (2021)		
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
wind	-0.2 m/s	velocity	5.04	8.02	7.87	8.17	8.02	8.10	7.87	7.87	7.66	7.59	7.67	7.37		8.02	7.99	7.70

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

date	13-Mar-21	time	2.67	3.78	4.84	5.87	6.92								8.34	CAA Hurdle Development (2021)		
reaction time	0.159	interval	1.11	1.06	1.03	1.05						1.42			=PB	3.20		
		velocity	4.87	7.66	8.02	8.25	8.10					9.15	7.19			7.97		

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

date	13-Mar-21	time	2.73	3.85	4.92	6.00	7.05								8.47	CAA Hurdle Development (2021)		
reaction time	0.186	interval	1.12	1.07	1.08	1.05						1.42				3.27		
		velocity	4.76	7.59	7.94	7.87	8.10					9.15	7.08			7.80		

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

date	23-May-19	time	2.80	3.94	5.04	6.12	7.22	8.32	9.42	10.56	11.70	12.88			14.21	CAA Hurdle Development (2019)		
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
wind	0.4 m/s	velocity	4.64	7.46	7.73	7.87	7.73	7.73	7.73	7.46	7.46	7.20	7.89	7.04		7.68	7.73	7.37

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)

date	16-Sep-18	time	2.67	3.75	4.83	5.91	6.97	8.04	9.13	10.25	11.35	12.46			13.69	Henson (2018) - coaching observations		
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
wind	-0.2 m/s	velocity	4.87	7.87	7.87	7.87	8.02	7.94	7.80	7.59	7.73	7.66	8.54	7.30		7.87	7.92	7.66

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

date	15-Sep-18	time	2.68	3.81	4.87	5.97	7.03	8.13	9.21	10.31	11.40	12.53			13.73	Henson (2018) - coaching observations		
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
wind	0.0 m/s	velocity	4.85	7.52	8.02	7.73	8.02	7.73	7.87	7.73	7.80	7.52	8.75	7.28		7.75	7.87	7.68

Chen Yuyang (CHN) (2002)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
CAA Hurdle Development (2021)																		
date	25-Jun-21	time	2.77	3.90	5.04	6.17	7.27	8.38	9.52	10.68	11.84	13.00			14.32	6 / 5		
reaction time	0.189	interval	1.13	1.14	1.13	1.10	1.11	1.14	1.16	1.16	1.16	1.32				3.40	3.35	3.48
wind	-1.8 m/s	velocity	4.69	7.52	7.46	7.52	7.73	7.66	7.46	7.33	7.33	7.33	7.61	6.98		7.50	7.61	7.33

FINAL - 2021 National Grand Prix (Chengdu, CHN)

date	02-Apr-21	time	2.84	3.97	5.09	6.20	7.30	8.42	9.54	10.66	11.78	12.94			14.26	CAA Hurdle Development (2021)		
reaction time	0.253	interval	1.13	1.12	1.11	1.10	1.12	1.12	1.12	1.12	1.16	1.32				3.36	3.34	3.40
wind	0.1 m/s	velocity	4.58	7.52	7.59	7.66	7.73	7.59	7.59	7.59	7.59	7.33	7.61	7.01		7.59	7.63	7.50

Heat 3 - 2021 National Grand Prix (Chengdu, CHN)

date	02-Apr-21	time	2.78	3.88	4.98	6.06	7.12	8.22	9.28	10.38	11.50	12.66			13.91	CAA Hurdle Development (2021)		
reaction time	0.200	interval	1.10	1.10	1.08	1.06	1.10	1.06	1.10	1.12	1.16	1.25			PB	3.28	3.22	3.38
wind	1.0 m/s	velocity	4.68	7.73	7.73	7.87	8.02	7.73	8.02	7.73	7.59	7.33	8.04	7.19		7.77	7.92	7.54

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

date	13-Mar-21	time	2.77	3.87	4.96	6.08	7.16								8.65	CAA Hurdle Development (2021)		
reaction time	0.201	interval	1.10	1.09	1.12	1.08						1.49			PB	3.31		
		velocity	4.69	7.73	7.80	7.59	7.87					8.72	6.94			7.70		

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

date	13-Mar-21	time	2.79	3.90	5.00	6.09	7.19								8.66	CAA Hurdle Development (2021)		
reaction time	0.230	interval	1.11	1.10	1.09	1.10						1.47			PB	3.30		
		velocity	4.66	7.66	7.73	7.80	7.73					8.84	6.93			7.73		

Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)

date	15-Sep-20	time	2.84	3.98	5.12	6.24	7.36	8.50	9.65	10.79	11.93	13.09			14.36	CAA Hurdle Development (2020)		
reaction time	0.205	interval	1.14	1.14	1.12	1.12	1.14	1.15	1.14	1.14	1.16	1.27				3.40	3.41	3.44
wind	-0.6 m/s	velocity	4.58	7.46	7.46	7.59	7.59	7.46	7.39	7.46	7.46	7.33	7.91	6.96		7.50	7.48	7.41

Chen Zhifei (CHN) (2001)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
CAA Hurdle Development (2019)																		
date	14-Aug-19	time	2.75	3.89	4.99	6.10	7.22	8.32	9.46	10.61	11.78	13.01			14.33	5 / 3		
reaction time	0.163	interval	1.14	1.10	1.11	1.12	1.10	1.14	1.15	1.17	1.23	1.32			PB	3.35	3.36	3.55

wind	0.5 m/s	velocity	4.73	7.46	7.73	7.66	7.59	7.73	7.46	7.39	7.26	6.91	7.95	6.98	7.61	7.59	7.18
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Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.88	4.08	5.24	6.42	7.57	8.75	9.90	11.09	12.34	13.56	14.92	CAA Hurdle Development (2019)	5 / 6	3.54	3.48	3.66
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	6.70	7.20	7.33	6.97		
wind	0.5 m/s	velocity	4.51	7.08	7.33	7.20	7.39	7.20	7.39	7.14	6.80	6.97	7.72	6.70	7.20	7.33	6.97	

Chernova, Tatyana (RUS) (1988)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)																	
date	15-Aug-09	time	2.73	3.81	4.87	5.90	6.95	8.02	9.09	10.17	11.26	12.38	13.58	7 / 2	3.17	3.19	3.29
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	7.36	8.04	7.99	7.75	
wind	-0.2 m/s	velocity	4.76	7.87	8.02	8.25	8.10	7.94	7.94	7.87	7.80	7.59	8.75	7.36	8.04	7.99	7.75

Cherry, Damu (USA) (1977)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)																	
date	19-Aug-09	time	2.66	3.68	4.70	5.68	6.67	7.67	8.66	9.66	10.66	11.69	12.76	3 / 3	3.02	2.98	3.03
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	7.84	8.44	8.56	8.42	
wind	0.1 m/s	velocity	4.89	8.33	8.33	8.67	8.59	8.50	8.59	8.50	8.50	8.25	9.81	8.44	8.56	8.42	

Heat 2 - 2009 IAAF World Championships (Berlin, GER)

date	18-Aug-09	time	2.69	3.72	4.71	5.70	6.67	7.65	8.64	9.65	10.66	11.67	12.71	4 / 1	3.01	2.94	3.03
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	7.87	8.47	8.67	8.42	
wind	-0.3 m/s	velocity	4.83	8.25	8.59	8.59	8.76	8.67	8.59	8.42	8.42	8.42	10.10	7.87	8.47	8.67	8.42

FINAL - 2009 ISTAF (Berlin, GER)

date	14-Jun-09	time	2.65	3.71	4.71	5.70	6.67	7.65	8.65	9.65	10.67	11.69	12.76	/ 1	3.05	2.95	3.04
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	7.84	8.36	8.64	8.39	
wind	-0.1 m/s	velocity	4.91	8.02	8.50	8.59	8.76	8.67	8.50	8.50	8.33	8.33	9.81	7.84	8.36	8.64	8.39

FINAL - 2008 Seiko Super Grand Prix (Kawasaki, JPN)

date	23-Sep-08	time	2.48	3.55	4.59	5.61	6.62	7.63	8.64	9.68	10.71	11.78	13.07	/ 1	3.13	3.03	3.14
reaction time		interval	1.07	1.04	1.02	1.01	1.01	1.01	1.04	1.03	1.07	1.29	7.65	8.15	8.42	8.12	
wind	0.1 m/s	velocity	5.24	7.94	8.17	8.33	8.42	8.42	8.42	8.17	8.25	7.94	8.14	7.65	8.15	8.42	8.12

FINAL - 2008 Olympic Games (Beijing, CHN)

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

Semi-Final 2 - 2008 Olympic Games (Beijing, CHN)

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

FINAL - 2008 USA Olympic Trials (Eugene, OR)

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

FINAL - 2007 USATF National Championships (Indianapolis, IN)

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

FINAL - 2006 USATF National Championships (Indianapolis, IN)

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

FINAL - 2003 USATF National Championships (Palo Alto, CA)

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

Chiba, Momoka (JPN) (1999)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U18 FINAL - 2018 National Sports Festival (Fukui, JPN) (76cm)																	
date	07-Oct-18	time	2.78	3.88	4.97	6.02	7.10	8.20	9.28	10.36	11.47	12.59	13.84	8 / 6	3.24	3.26	3.31
reaction time	0.167	interval	1.10	1.09	1.05	1.08	1.10	1.08	1.08	1.11	1.12	1.25	PB	7.87	7.82	7.70	
wind	2.0 m/s	velocity	4.68	7.73	7.80	8.10	7.87	7.73	7.87	7.87	7.66	7.59	8.40	7.23	7.87	7.82	7.70

Heat 2 - 2016 Japanese National Junior Championships (Mizuho, JPN)

date	21-Oct-16	time	2.76	3.87	4.98	6.08	7.19	8.29	9.41	10.54	11.68	12.85	14.05	6 / 3	3.32	3.33	3.44
reaction time		interval	1.11	1.11	1.10	1.11	1.10	1.12	1.13	1.14	1.17	1.20	14.05	6 / 3	3.32	3.33	3.44

wind	1.3 m/s	velocity	4.71	7.66	7.66	7.73	7.66	7.73	7.59	7.52	7.46	7.26	8.75	7.12		7.68	7.66	7.41		
Chmelarová, Klára (CZE) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)													<i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>							
date	25-Feb-12	time	2.82	3.98	5.13	6.40	7.64								9.26	6 / 4				
reaction time	0.158	interval	1.16		1.15	1.27	1.24								1.62			3.58		
wind		velocity	4.61	7.33	7.39	6.69	6.85								8.02	6.48	7.12			
Christofi, Natalia (CYP) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 2 - 2024 FBK Games (Hengelo, NED)													<i>Omega Timing (2024) - continental tour gold race analysis</i>							
date	07-Jul-24	time	2.47	3.55	4.57	5.58	6.62	7.65	8.70	9.75	10.81	11.88			13.18	2 / 6				
reaction time	0.119	interval	1.08		1.02	1.01	1.04	1.03	1.05	1.05	1.06	1.07	1.30					3.11	3.12	3.18
wind	0.3 m/s	velocity	5.26	7.87	8.33	8.42	8.17	8.25	8.10	8.10	8.02	7.94	7.73	7.59			8.20	8.17	8.02	
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>							
date	23-Aug-23	time	2.60	3.64	4.64	5.64	6.64	7.67	8.68	9.72	10.76	11.82			13.15	9 / 8				
reaction time	0.155	interval	1.04		1.00	1.00	1.00	1.03	1.01	1.04	1.04	1.06	1.33					3.04	3.04	3.14
wind	0.5 m/s	velocity	5.00	8.17	8.50	8.50	8.50	8.25	8.42	8.17	8.17	8.02	7.56	7.60			8.39	8.39	8.12	
Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>							
date	22-Aug-23	time	2.58	3.63	4.65	5.64	6.63	7.60	8.60	9.65	10.68	11.73			12.90	7 / 4				
reaction time	0.147	interval	1.05		1.02	0.99	0.99	0.97	1.00	1.05	1.03	1.05	1.17					3.06	2.96	3.13
wind	0.4 m/s	velocity	5.04	8.10	8.33	8.59	8.59	8.76	8.50	8.10	8.25	8.10	8.59	7.75			8.33	8.61	8.15	
Chudzik, Kamila (POL) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>							
date	15-Aug-09	time	2.74	3.84	4.91	5.98	7.02	8.06	9.13	10.19	11.26	12.33			13.50	7 / 3				
reaction time	0.178	interval	1.10		1.07	1.07	1.04	1.04	1.07	1.06	1.07	1.07	1.17					3.24	3.15	3.20
wind	-0.4 m/s	velocity	4.74	7.73	7.94	7.94	8.17	8.17	7.94	8.02	7.94	7.94	8.97	7.41			7.87	8.10	7.97	
Claxton, Sarah (GBR) (1979)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 5 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>							
date	18-Aug-09	time	2.61	3.62	4.63	5.60	6.59	7.59	8.60	9.62	10.66	11.71			12.86	6 / 4				
reaction time	0.145	interval	1.01		1.01	0.97	0.99	1.00	1.01	1.02	1.04	1.05	1.15					2.99	3.00	3.11
wind	0.1 m/s	velocity	4.98	8.42	8.42	8.76	8.59	8.50	8.42	8.33	8.17	8.10	9.13	7.78			8.53	8.50	8.20	
FINAL - 2008 Olympic Games (Beijing, CHN)													<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>							
date	19-Aug-08	time	2.59	3.62	4.63	5.63	6.63	7.62	8.62	9.66	10.69	11.77			12.94	2 / 8				
reaction time	0.163	interval	1.03		1.01	1.00	1.00	0.99	1.00	1.04	1.03	1.08	1.17					3.04	2.99	3.15
wind	0.1 m/s	velocity	5.02	8.25	8.42	8.50	8.50	8.59	8.50	8.17	8.25	7.87	8.97	7.73			8.39	8.53	8.10	
Semi-Final 2 - 2008 Olympic Games (Beijing, CHN)													<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>							
date	18-Aug-08	time	2.57	3.60	4.59	5.58	6.53	7.53	8.53	9.55	10.61	11.66			12.84	3 / 4				
reaction time	0.145	interval	1.03		0.99	0.99	0.95	1.00	1.00	1.02	1.06	1.05	1.18					3.01	2.95	3.13
wind	0.2 m/s	velocity	5.06	8.25	8.59	8.59	8.95	8.50	8.50	8.33	8.02	8.10	8.90	7.79			8.47	8.64	8.15	
Clay, Liz (AUS) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Repechage 3 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>							
date	08-Aug-24	time	2.44	3.51	4.52	5.54	6.55	7.57	8.59	9.61	10.65	11.70			12.99	5 / 5				
reaction time	0.145	interval	1.07		1.01	1.02	1.01	1.02	1.02	1.02	1.04	1.05	1.29					3.10	3.05	3.11
wind	-0.2 m/s	velocity	5.33	7.94	8.42	8.33	8.42	8.33	8.33	8.33	8.17	8.10	7.79	7.70			8.23	8.36	8.20	
Heat 5 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>							
date	07-Aug-24	time	2.45	3.50	4.52	5.51	6.50	7.51	8.52	9.54	10.58	11.63			12.94	5 / 4				
reaction time	0.143	interval	1.05		1.02	0.99	0.99	1.01	1.01	1.02	1.04	1.05	1.31					3.06	3.01	3.11
wind	-0.6 m/s	velocity	5.31	8.10	8.33	8.59	8.59	8.42	8.42	8.33	8.17	8.10	7.67	7.73			8.33	8.47	8.20	
FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>							
date	07-Jul-24	time	2.55	3.55	4.57	5.58	6.58	7.57	8.61	9.62	10.63	11.68			12.84	8 / 7				
reaction time	0.130	interval	1.00		1.02	1.01	1.00	0.99	1.04	1.01	1.01	1.05	1.16					3.03	3.03	3.07
wind	1.6 m/s	velocity	5.10	8.50	8.33	8.42	8.50	8.59	8.17	8.42	8.42	8.10	8.66	7.79			8.42	8.42	8.31	
Heat 1 - 2024 FBK Games (Hengelo, NED)													<i>Omega Timing (2024) - continental tour gold race analysis</i>							
date	07-Jul-24	time	2.46	3.49	4.50	5.50	6.50	7.53	8.59	9.64	10.68	11.74			13.01	7 / 3				
reaction time	0.147	interval	1.03		1.01	1.00	1.00	1.03	1.06	1.05	1.04	1.06	1.27					3.04	3.09	3.15
wind	0.3 m/s	velocity	5.28	8.25	8.42	8.50	8.50	8.25	8.02	8.10	8.17	8.02	7.91	7.69			8.39	8.25	8.10	
FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>							
date	18-Jun-22	time	2.50	3.53	4.53	5.51	6.52	7.52	8.53	9.56	10.59	11.62			12.89	6 / 5				
reaction time	0.149	interval	1.03		1.00	0.98	1.01	1.00	1.01	1.03	1.03	1.03	1.27					3.01	3.02	3.09
wind	-0.4 m/s	velocity	5.20	8.25	8.50	8.67	8.42	8.50	8.42	8.25	8.25	8.25	7.91	7.76			8.47	8.44	8.25	
FINAL - 2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>							

date	14-Jun-22	time	2.56	3.58	4.58	5.58	6.56	7.54	8.56	9.58	10.62	11.66		12.85	3 / 4			
reaction time	0.122	interval		1.02	1.00	1.00	0.98	0.98	1.02	1.02	1.04	1.04	1.19			3.02	2.98	3.10
wind	0.2 m/s	velocity	5.08	8.33	8.50	8.50	8.67	8.67	8.33	8.33	8.17	8.17	8.45	7.78		8.44	8.56	8.23
Clay, Raven (USA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Bislett Games (Oslo, NOR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	15-Jun-17	time	2.54	3.58	4.62	5.62	6.62	7.64	8.66	9.68	10.72	11.82		13.07	1 / 8			
reaction time	0.144	interval		1.04	1.04	1.00	1.00	1.02	1.02	1.02	1.04	1.10	1.25			3.08	3.04	3.16
wind	0.8 m/s	velocity	5.12	8.17	8.17	8.50	8.50	8.33	8.33	8.33	8.17	7.73	8.40	7.65		8.28	8.39	8.07
Claye, Queen (USA) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	20-Jun-21	time	2.50	3.53	4.53	5.50	6.47	7.47	8.45	9.45	10.47	11.56		12.78	2 / 7			
reaction time	0.174	interval		1.03	1.00	0.97	0.97	1.00	0.98	1.00	1.02	1.09	1.22			3.00	2.95	3.11
wind	1.3 m/s	velocity	5.20	8.25	8.50	8.76	8.76	8.50	8.67	8.50	8.33	7.80	8.24	7.82		8.50	8.64	8.20
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	10-Sep-19	time	2.53	3.56	4.60	5.60	6.60	7.60	8.60	9.60	10.63	11.73		12.95	5 / 4			
reaction time	0.155	interval		1.03	1.04	1.00	1.00	1.00	1.00	1.00	1.03	1.10	1.22			3.07	3.00	3.13
wind	0.1 m/s	velocity	5.14	8.25	8.17	8.50	8.50	8.50	8.50	8.50	8.25	7.73	8.61	7.72		8.31	8.50	8.15
FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	27-Jul-19	time	2.51	3.54	4.50	5.50	6.47	7.44	8.40	9.40	10.41	11.44		12.68	2 / 5			
reaction time		interval		1.03	0.96	1.00	0.97	0.97	0.96	1.00	1.01	1.03	1.24			2.99	2.90	3.04
wind	-1.2 m/s	velocity	5.18	8.25	8.85	8.50	8.76	8.76	8.85	8.50	8.42	8.25	8.47	7.89		8.53	8.79	8.39
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	20-Jul-19	time	2.48	3.52	4.48	5.46	6.44	7.42	8.40	9.40	10.42	11.44		12.64	6 / 3			
reaction time	0.131	interval		1.04	0.96	0.98	0.98	0.98	0.98	1.00	1.02	1.02	1.20			2.98	2.94	3.04
wind	0.8 m/s	velocity	5.24	8.17	8.85	8.67	8.67	8.67	8.67	8.50	8.33	8.33	8.75	7.91		8.56	8.67	8.39
Heat 1 - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	20-Jul-19	time	2.52	3.52	4.52	5.50	6.50	7.50	8.50	9.52	10.52	11.56		12.80	4 / 2			
reaction time	0.149	interval		1.00	1.00	0.98	1.00	1.00	1.00	1.02	1.00	1.04	1.24			2.98	3.00	3.06
wind	-1.1 m/s	velocity	5.16	8.50	8.50	8.67	8.50	8.50	8.50	8.33	8.50	8.17	8.47	7.81		8.56	8.50	8.33
Harrison, Queen (USA) (1988)																		
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	21-May-19	time	2.59	3.62	4.64	5.64	6.61	7.61	8.60	9.61	10.62	11.67		12.80	3 / 4			
reaction time	0.162	interval		1.03	1.02	1.00	0.97	1.00	0.99	1.01	1.01	1.05	1.13			3.05	2.96	3.07
wind	-1.0 m/s	velocity	5.02	8.25	8.33	8.50	8.76	8.50	8.59	8.42	8.42	8.10	9.29	7.81		8.36	8.61	8.31
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)														<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>				
date	19-May-19	time	2.64	3.67	4.71	5.72	6.72	7.72	8.73	9.73	10.74	11.79		12.92	7 / 4			
reaction time	0.155	interval		1.03	1.04	1.01	1.00	1.00	1.01	1.00	1.01	1.05	1.13			3.08	3.01	3.06
wind	0.4 m/s	velocity	4.92	8.25	8.17	8.42	8.50	8.50	8.42	8.50	8.42	8.10	9.29	7.74		8.28	8.47	8.33
FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	22-Jul-18	time	2.52	3.54	4.56	5.50	6.48	7.48	8.46	9.44	10.42	11.44		12.63	3 / 6			
reaction time	0.167	interval		1.02	1.02	0.94	0.98	1.00	0.98	0.98	0.98	1.02	1.19			2.98	2.96	2.98
wind	0.6 m/s	velocity	5.16	8.33	8.33	9.04	8.67	8.50	8.67	8.67	8.67	8.33	8.82	7.92		8.56	8.61	8.56
FINAL - 2018 Spitzen Leichtathletik (Luzern, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	09-Jul-18	time	2.56	3.60	4.62	5.60	6.56	7.54	8.52	9.52	10.54	11.58		12.75	5 / 4			
reaction time		interval		1.04	1.02	0.98	0.96	0.98	0.98	1.00	1.02	1.04	1.17			3.04	2.92	3.06
wind	0.9 m/s	velocity	5.08	8.17	8.33	8.67	8.85	8.67	8.67	8.50	8.33	8.17	8.97	7.84		8.39	8.73	8.33
FINAL - 2018 USATF National Championships (Des Moines, IA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	23-Jun-18	time	2.50	3.57	4.57	5.57	6.54	7.52	8.48	9.48	10.48	11.48		12.76	6 / 4			
reaction time		interval		1.07	1.00	1.00	0.97	0.98	0.96	1.00	1.00	1.00	1.28			3.07	2.91	3.00
wind	-1.4 m/s	velocity	5.20	7.94	8.50	8.50	8.76	8.67	8.85	8.50	8.50	8.50	8.20	7.84		8.31	8.76	8.50
FINAL - 2018 Bislett Games (Oslo, NOR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	07-Jun-18	time	2.52	3.56	4.58	5.56	6.52	7.50	8.50	9.50	10.48	11.50		12.71	7 / 3			
reaction time	0.155	interval		1.04	1.02	0.98	0.96	0.98	1.00	1.00	0.98	1.02	1.21			3.04	2.94	3.00
wind	1.1 m/s	velocity	5.16	8.17	8.33	8.67	8.85	8.67	8.50	8.50	8.67	8.33	8.68	7.87		8.39	8.67	8.50
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>				
date	20-May-18	time	2.72	3.78	4.79	5.80	6.79	7.78	8.78	9.80	10.81	11.85		13.01	4 / 1			
reaction time	0.213	interval		1.06	1.01	1.01	0.99	0.99	1.00	1.02	1.01	1.04	1.16			3.08	2.98	3.07
wind	-0.6 m/s	velocity	4.78	8.02	8.42	8.42	8.59	8.59	8.50	8.33	8.42	8.17	9.05	7.69		8.28	8.56	8.31
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	09-Jul-17	time	2.46	3.46	4.42	5.40	6.38	7.34	8.30	9.30	10.34	11.38		12.65	7 / 4			

reaction time	0.146	interval	1.00	0.96	0.98	0.98	0.96	0.96	1.00	1.04	1.04	1.27		2.94	2.90	3.08	
wind	0.2 m/s	velocity	5.28	8.50	8.85	8.67	8.67	8.85	8.85	8.50	8.17	8.17	8.27	7.91	8.67	8.79	8.28

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

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

FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)*(2017) - tfdata-store.com/2017/05/22/post-599/*

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

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

date	29-Apr-17	time	2.56	3.63	4.63	5.63	6.60	7.60	8.60	9.60	10.66	11.63	12.86	7 / 4			
reaction time		interval	1.07	1.00	1.00	0.97	1.00	1.00	1.00	1.06	0.97	1.23			3.07	2.97	3.03
wind	1.0 m/s	velocity	5.08	7.94	8.50	8.50	8.76	8.50	8.50	8.50	8.02	8.76	8.54	7.78	8.31	8.59	8.42

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

date	08-Jul-16	time	2.50	3.53	4.50	5.47	6.44	7.41	8.37	9.34	10.35	11.35	12.57	5 / 4			
reaction time	0.154	interval	1.03	0.97	0.97	0.97	0.97	0.96	0.97	1.01	1.00	1.22			2.97	2.90	2.98
wind	1.2 m/s	velocity	5.20	8.25	8.76	8.76	8.76	8.76	8.85	8.76	8.42	8.50	8.61	7.96	8.59	8.79	8.56

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

date	16-Jun-16	time	2.54	3.64	4.64	5.64	6.60	7.60	8.58	9.58	10.58	11.62	12.87	6 / 3			
reaction time	0.175	interval	1.10	1.00	1.00	0.96	1.00	0.98	1.00	1.00	1.04	1.25			3.10	2.94	3.04
wind	-0.4 m/s	velocity	5.12	7.73	8.50	8.50	8.85	8.50	8.67	8.50	8.50	8.17	8.40	7.77	8.23	8.67	8.39

FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	10-May-15	time	2.62	3.63	4.63	5.61	6.56	7.52	8.55	9.55	10.58	11.62	12.75	5 / 2			
reaction time	0.189	interval	1.01	1.00	0.98	0.95	0.96	1.03	1.00	1.03	1.04	1.13			2.99	2.94	3.07
wind	0.9 m/s	velocity	4.96	8.42	8.50	8.67	8.95	8.85	8.25	8.50	8.25	8.17	9.29	7.84	8.53	8.67	8.31

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

date	17-Aug-13	time	2.52	3.54	4.54	5.52	6.50	7.50	8.50	9.50	10.50	11.52	12.73	2 / 5			
reaction time	0.174	interval	1.02	1.00	0.98	0.98	1.00	1.00	1.00	1.00	1.02	1.21			3.00	2.98	3.02
wind	-0.6 m/s	velocity	5.16	8.33	8.50	8.67	8.67	8.50	8.50	8.50	8.50	8.33	8.68	7.86	8.50	8.56	8.44

FINAL - 2011 Windsprint (Sundsvall, SWE)*Blomkvist (2011) - www.sub13.se*

date	31-Jul-11	time	2.67	3.72	4.76	5.77	6.76	7.77	8.75	9.76	10.76	11.78	12.93	1 / 1			
reaction time		interval	1.05	1.04	1.01	0.99	1.01	0.98	1.01	1.00	1.02	1.15			3.10	2.98	3.03
wind	1.4 m/s	velocity	4.87	8.10	8.17	8.42	8.59	8.42	8.67	8.42	8.50	8.33	9.13	7.73	8.23	8.56	8.42

Clemons, Christina (USA) (1990)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)***Henson (2024) - Athlete First: 2024 year end hurdle report*

date	30-Jun-24	time	2.55	3.57	4.55	5.51	6.52	7.50	8.48	9.47	10.47	11.47	12.61	7 / 7			
reaction time		interval	1.02	0.98	0.96	1.01	0.98	0.98	0.99	1.00	1.00	1.14			2.96	2.97	2.99
wind	0.7 m/s	velocity	5.10	8.33	8.67	8.85	8.42	8.67	8.67	8.59	8.50	8.50	8.82	7.93	8.61	8.59	8.53

Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	29-Jun-24	time	2.54	3.57	4.55	5.52	6.48	7.45	8.41	9.38	10.38	11.39	12.52	6 / 1			
reaction time		interval	1.03	0.98	0.97	0.96	0.97	0.96	0.97	1.00	1.01	1.13			2.98	2.89	2.98
wind	0.8 m/s	velocity	5.12	8.25	8.67	8.76	8.85	8.76	8.85	8.76	8.50	8.42	8.89	7.99	8.56	8.82	8.56

Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	28-Jun-24	time	2.55	3.57	4.56	5.51	6.48	7.45	8.43	9.40	10.38	11.41	12.56	4 / 1			
reaction time		interval	1.02	0.99	0.95	0.97	0.97	0.98	0.97	0.98	1.03	1.15			2.96	2.92	2.98
wind	0.1 m/s	velocity	5.10	8.33	8.59	8.95	8.76	8.76	8.67	8.76	8.67	8.25	8.74	7.96	8.61	8.73	8.56

FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)*Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record*

date	16-Feb-24	time	2.55	3.59	4.57	5.55	6.52						7.90	7 / 4			
reaction time	0.145	interval	1.04	0.98	0.98	0.97							1.38		3.00		
		velocity	5.10	8.17	8.67	8.76							9.42	7.59	8.50		

Heat 2 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)*Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record*

date	16-Feb-24	time	2.57	3.62	4.60	5.58	6.55						7.90	6 / 3			
reaction time	0.145	interval	1.05	0.98	0.98	0.97							1.35		3.01		
		velocity	5.06	8.10	8.67	8.67	8.76						9.63	7.59	8.47		

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

date	04-Feb-24	time	2.53	3.55	4.55	5.54	6.52						7.94	8 / 5			
reaction time	0.182	interval	1.02	1.00	0.99	0.98							1.42		3.01		
		velocity	5.14	8.33	8.50	8.59	8.67						9.15	7.56	8.47		

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

date	20-Jan-24	time	2.50	3.54	4.58	5.58	6.58											
reaction time		interval		1.04	1.04	1.00	1.00							1.31				3.08
		velocity	5.20	8.17	8.17	8.50	8.50							9.92	7.60			8.28

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

7.89 2 / 4

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

date	12-Jun-22	time	2.47	3.50	4.50	5.50	6.47	7.48	8.50	9.53	10.60	11.67								
reaction time	0.127	interval		1.03	1.00	1.00	0.97	1.01	1.02	1.03	1.07	1.07	1.35					3.03	3.00	3.17
wind	2.0 m/s	velocity	5.26	8.25	8.50	8.50	8.76	8.42	8.33	8.25	7.94	7.94	7.44	7.68				8.42	8.50	8.04

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

13.02 3 / 6

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

date	22-Apr-22	time	2.54	3.56	4.56	5.54	6.53	7.51	8.49	9.47	10.47	11.49									
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
wind	0.8 m/s	velocity	5.12	8.33	8.50	8.67	8.59	8.67	8.67	8.67	8.50	8.33	8.45	7.89					8.50	8.64	8.50

Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season

12.68 7 / 6

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

date	26-Mar-22	time	2.54	3.54	4.50	5.47	6.42	7.37	8.34	9.31	10.31	11.29									
reaction time		interval		1.00	0.96	0.97	0.95	0.95	0.97	0.97	1.00	0.98	1.16						2.93	2.87	2.95
wind	3.9 m/s	velocity	5.12	8.50	8.85	8.76	8.95	8.95	8.76	8.76	8.50	8.67	8.66	8.03					8.70	8.89	8.64

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

12.45 7 / 2

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

date	28-Aug-21	time	2.48	3.52	4.56	5.58	6.58	7.58	8.58	9.60	10.64	11.68									
reaction time	0.150	interval		1.04	1.04	1.02	1.00	1.00	1.00	1.02	1.04	1.04	1.28						3.10	3.00	3.10
wind	1.7 m/s	velocity	5.24	8.17	8.17	8.33	8.50	8.50	8.50	8.33	8.17	8.17	7.85	7.72					8.23	8.50	8.23

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

12.96 7 / 6

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

date	20-Jun-21	time	2.44	3.44	4.45	5.42	6.37	7.34	8.30	9.27	10.29	11.31									
reaction time	0.139	interval		1.00	1.01	0.97	0.95	0.97	0.96	0.97	1.02	1.02	1.22						2.98	2.88	3.01
wind	0.8 m/s	velocity	5.33	8.50	8.42	8.76	8.95	8.76	8.85	8.76	8.33	8.33	8.24	7.98					8.56	8.85	8.47

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

12.53 6 / 3

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

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

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

12.51 3 / 2

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

date	19-Jun-21	time	2.46	3.46	4.46	5.46	6.43	7.40	8.36	9.36	10.36	11.40									
reaction time	0.143	interval		1.00	1.00	1.00	0.97	0.97	0.96	1.00	1.00	1.04	1.24						3.00	2.90	3.04
wind	0.8 m/s	velocity	5.28	8.50	8.50	8.50	8.76	8.76	8.85	8.50	8.50	8.17	8.10	7.91					8.50	8.79	8.39

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

12.64 4 / 2

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

date	25-Jan-20	time	2.57	3.61	4.60	5.60	6.57												
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

PrimeTime Timing (2020) - https://results.nbindoorgandprix.com/

7.98 3 / 2

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

date	25-Jan-20	time	2.59	3.65	4.67	5.68	6.66												
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

PrimeTime Timing (2020) - https://results.nbindoorgandprix.com/

8.02 4 / 2

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

date	06-Sep-19	time	2.50	3.50	4.52	5.50	6.50	7.50	8.50	9.50	10.54	11.61									
reaction time	0.136	interval		1.00	1.02	0.98	1.00	1.00	1.00	1.00	1.04	1.07	1.23						3.00	3.00	3.11
wind	0.0 m/s	velocity	5.20	8.50	8.33	8.67	8.50	8.50	8.50	8.50	8.17	7.94	8.54	7.79					8.50	8.50	8.20

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

12.84 2 / 5

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

date	27-Jul-19	time	2.50	3.50	4.47	5.47	6.44	7.40	8.38	9.44	10.51	11.61									
reaction time		interval		1.00	0.97	1.00	0.97	0.96	0.98	1.06	1.07	1.10	1.40						2.97	2.91	3.23
wind	-1.2 m/s	velocity	5.20	8.50	8.76	8.50	8.76	8.85	8.67	8.02	7.94	7.73	7.50	7.69					8.59	8.76	7.89

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

13.01 6 / 8

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

date	12-Jul-19	time	2.46	3.50	4.48	5.46	6.44	7.42	8.40	9.38	10.38	11.42									
reaction time	0.148	interval		1.04	0.98	0.98	0.98	0.98	0.98	0.98	1.00	1.04	1.20						3.00	2.94	3.02
wind	0.1 m/s	velocity	5.28	8.17	8.67	8.67	8.67	8.67	8.67	8.67	8.50	8.17	8.75	7.92					8.50	8.67	8.44

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

12.62 6 / 3

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

date	13-Jun-19	time	2.56	3.56	4.56	5.54	6.50	7.48	8.46	9.46	10.50	11.52									
reaction time	0.126	interval		1.00	1.00	0.98	0.96	0.98	0.98	1.00	1.04	1.02	1.17						2.98	2.92	3.06
wind	1.1 m/s	velocity	5.08	8.50	8.50	8.67	8.85	8.67	8.67	8.50	8.17	8.33	8.97	7.88					8.56	8.73	8.33

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

12.69 3 / 1

FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)

date	21-May-19	time	2.53	3.53	4.56	5.55	6.53	7.55	8.52	9.55	10.56	11.62							

CAA Hurdle Development (2019)

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
wind	-1.0 m/s	velocity	5.14	8.50	8.25	8.59	8.67	8.33	8.76	8.25	8.42	8.02	8.97	7.82	8.44	8.59	8.23
FINAL - 2019 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	03-May-19	time	2.52	3.56	4.54	5.52	6.50	7.48	8.48	9.48	10.50	11.56		12.83	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
wind	0.9 m/s	velocity	5.16	8.17	8.67	8.67	8.67	8.67	8.50	8.50	8.33	8.02	8.27	7.79	8.50	8.61	8.28
<i>Manning, Christina (USA) (1990)</i>																	
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	31-Aug-18	time	2.46	3.50	4.48	5.46	6.46	7.48	8.48	9.56	10.66	11.86		13.34	7 / 9		
reaction time	0.118	interval	1.04	0.98	0.98	1.00	1.02	1.00	1.08	1.10	1.20	1.48			3.00	3.02	3.38
wind	0.1 m/s	velocity	5.28	8.17	8.67	8.67	8.50	8.33	8.50	7.87	7.73	7.08	7.09	7.50	8.50	8.44	7.54
FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	22-Jul-18	time	2.44	3.44	4.42	5.38	6.36	7.32	8.28	9.32	10.36	11.40		12.57	7 / 5		
reaction time	0.136	interval	1.00	0.98	0.96	0.98	0.96	0.96	1.04	1.04	1.04	1.17			2.94	2.90	3.12
wind	0.6 m/s	velocity	5.33	8.50	8.67	8.85	8.67	8.85	8.85	8.17	8.17	8.17	8.97	7.96	8.67	8.79	8.17
FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	13-Jul-18	time	2.44	3.46	4.46	5.44	6.40	7.38	8.36	9.38	10.40	11.44		12.72	3 / 3		
reaction time	0.151	interval	1.02	1.00	0.98	0.96	0.98	0.98	1.02	1.02	1.04	1.28			3.00	2.92	3.08
wind	0.1 m/s	velocity	5.33	8.33	8.50	8.67	8.85	8.67	8.67	8.33	8.33	8.17	8.20	7.86	8.50	8.73	8.28
FINAL - 2018 Spitzen Leichtathletik (Luzern, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	09-Jul-18	time	2.48	3.52	4.48	5.48	6.48	7.44	8.44	9.44	10.48	11.50		12.71	6 / 3		
reaction time		interval	1.04	0.96	1.00	1.00	0.96	1.00	1.00	1.04	1.02	1.21			3.00	2.96	3.06
wind	0.9 m/s	velocity	5.24	8.17	8.85	8.50	8.50	8.85	8.50	8.50	8.17	8.33	8.68	7.87	8.50	8.61	8.33
FINAL - 2018 USATF National Championships (Des Moines, IA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	23-Jun-18	time	2.40	3.40	4.40	5.37	6.34	7.31	8.27	9.27	10.27	11.31		12.65	4 / 2		
reaction time		interval	1.00	1.00	0.97	0.97	0.97	0.96	1.00	1.00	1.04	1.34			2.97	2.90	3.04
wind	-1.4 m/s	velocity	5.42	8.50	8.50	8.76	8.76	8.76	8.85	8.50	8.50	8.17	7.84	7.91	8.59	8.79	8.39
FINAL - 2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	10-Jun-18	time	2.48	3.48	4.48	5.46	6.44	7.44	8.42	9.42	10.42	11.48		12.75	3 / 5		
reaction time	0.148	interval	1.00	1.00	0.98	0.98	1.00	0.98	1.00	1.00	1.06	1.27			2.98	2.96	3.06
wind	1.3 m/s	velocity	5.24	8.50	8.50	8.67	8.67	8.50	8.67	8.50	8.50	8.02	8.27	7.84	8.56	8.61	8.33
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)														<i>Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60m Hurdles Women</i>			
date	03-Mar-18	time	2.57	3.61	4.57	5.55	6.51							7.79	6 / 2		
reaction time	0.137	interval	1.04	0.96	0.98	0.96							1.28		2.98		
		velocity	5.06	8.17	8.85	8.67	8.85						10.16	12.84	8.56		
FINAL - 2017 Weltklasse (Zürich, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	24-Aug-17	time	2.50	3.50	4.48	5.46	6.44	7.42	8.40	9.40	10.42	11.48		12.67	7 / 3		
reaction time	0.117	interval	1.00	0.98	0.98	0.98	0.98	0.98	1.00	1.02	1.06	1.19			2.96	2.94	3.08
wind	-0.3 m/s	velocity	5.20	8.50	8.67	8.67	8.67	8.67	8.67	8.50	8.33	8.02	8.82	7.89	8.61	8.67	8.28
FINAL - 2017 IAAF World Championships (London, GBR)														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>			
date	12-Aug-17	time	2.40	3.46	4.47	5.46	6.44	7.40	8.40	9.40	10.43	11.49		12.74	7 / 5		
reaction time	0.183	interval	1.06	1.01	0.99	0.98	0.96	1.00	1.00	1.03	1.06	1.25			3.06	2.94	3.09
wind	0.1 m/s	velocity	5.42	8.02	8.42	8.59	8.67	8.85	8.50	8.50	8.25	8.02	8.40	7.85	8.33	8.67	8.25
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>			
date	11-Aug-17	time	2.38	3.42	4.43	5.42	6.40	7.35	8.33	9.33	10.35	11.41		12.71	5 / 1		
reaction time	0.149	interval	1.04	1.01	0.99	0.98	0.95	0.98	1.00	1.02	1.06	1.30			3.04	2.91	3.08
wind	0.5 m/s	velocity	5.46	8.17	8.42	8.59	8.67	8.95	8.67	8.50	8.33	8.02	8.08	7.87	8.39	8.76	8.28
FINAL - 2017 Athletissima (Lausanne, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	06-Jul-17	time	2.46	3.46	4.44	5.43	6.40	7.35	8.33	9.30	10.32	11.35		12.58	2 / 3		
reaction time	0.132	interval	1.00	0.98	0.99	0.97	0.95	0.98	0.97	1.02	1.03	1.23			2.97	2.90	3.02
wind	-0.1 m/s	velocity	5.28	8.50	8.67	8.59	8.76	8.95	8.67	8.76	8.33	8.25	8.54	7.95	8.59	8.79	8.44
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	27-May-17	time	2.46	3.46	4.48	5.46	6.44	7.40	8.36	9.34	10.34	11.38		12.66	7 / 4		
reaction time	0.157	interval	1.00	1.02	0.98	0.98	0.96	0.96	0.98	1.00	1.04	1.28			3.00	2.90	3.02
wind	0.8 m/s	velocity	5.28	8.50	8.33	8.67	8.67	8.85	8.85	8.67	8.50	8.17	8.20	7.90	8.50	8.79	8.44
FINAL - 2017 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	05-May-17	time	2.50	3.54	4.56	5.56	6.58	7.56	8.60	9.64	10.72	11.82		13.05	6 / 4		
reaction time	0.148	interval	1.04	1.02	1.00	1.02	0.98	1.04	1.04	1.08	1.10	1.23			3.06	3.04	3.22
wind	-2.3 m/s	velocity	5.20	8.17	8.33	8.50	8.33	8.67	8.17	8.17	7.87	7.73	8.54	7.66	8.33	8.39	7.92

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Clopes, Imma (ESP) (1968)																	
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)												<i>Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas</i>					
date	01-Aug-98	time	2.61	3.69	4.79	5.92	7.01	8.15	9.25	10.42	11.60	12.81	14.29	2 / 6			
reaction time		interval		1.08	1.10	1.13	1.09	1.14	1.10	1.17	1.18	1.21	1.48		3.31	3.33	3.56
wind	0.0 m/s	velocity	4.98	7.87	7.73	7.52	7.80	7.46	7.73	7.26	7.20	7.02	7.09	7.00	7.70	7.66	7.16
Cockrell, Anna (USA) (1997)																	
FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)												<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	28-May-22	time	2.53	3.56	4.56	5.56	6.56	7.55	8.56	9.56	10.58	11.68	12.84	9 / 9			
reaction time	0.115	interval		1.03	1.00	1.00	1.00	0.99	1.01	1.00	1.02	1.10	1.16		3.03	3.00	3.12
wind	-0.7 m/s	velocity	5.14	8.25	8.50	8.50	8.50	8.59	8.42	8.50	8.33	7.73	8.66	7.79	8.42	8.50	8.17
FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)												<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>					
date	22-Apr-22	time	2.63	3.63	4.63	5.63	6.63	7.63	8.65	9.67	10.70	11.76	12.92	1 / 9			
reaction time		interval		1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.03	1.06	1.16		3.00	3.02	3.11
wind	0.8 m/s	velocity	4.94	8.50	8.50	8.50	8.50	8.50	8.33	8.33	8.25	8.02	8.66	7.74	8.50	8.44	8.20
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	20-Jun-21	time	2.50	3.51	4.49	5.45	6.42	7.39	8.36	9.35	10.36	11.38	12.58	3 / 5			
reaction time	0.147	interval		1.01	0.98	0.96	0.97	0.97	0.97	0.99	1.01	1.02	1.20		2.95	2.91	3.02
wind	0.8 m/s	velocity	5.20	8.42	8.67	8.85	8.76	8.76	8.76	8.59	8.42	8.33	8.38	7.95	8.64	8.76	8.44
Semi Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	20-Jun-21	time	2.53	3.53	4.53	5.50	6.47	7.43	8.41	9.39	10.37	11.42	12.59	4 / 2			
reaction time	0.172	interval		1.00	1.00	0.97	0.97	0.96	0.98	0.98	0.98	1.05	1.17		2.97	2.91	3.01
wind	1.3 m/s	velocity	5.14	8.50	8.50	8.76	8.76	8.85	8.67	8.67	8.67	8.10	8.59	7.94	8.59	8.76	8.47
Heat 3 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	19-Jun-21	time	2.50	3.53	4.53	5.53	6.50	7.46	8.43	9.43	10.43	11.46	12.63	4 / 1			
reaction time	0.163	interval		1.03	1.00	1.00	0.97	0.96	0.97	1.00	1.00	1.03	1.17		3.03	2.90	3.03
wind	1.0 m/s	velocity	5.20	8.25	8.50	8.50	8.76	8.85	8.76	8.50	8.50	8.25	8.59	7.92	8.42	8.79	8.42
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	12-Jun-21	time	2.53	3.54	4.54	5.51	6.47	7.44	8.41	9.39	10.38	11.41	12.58	7 / 1			
reaction time	0.159	interval		1.01	1.00	0.97	0.96	0.97	0.97	0.98	0.99	1.03	1.17		2.98	2.90	3.00
wind	0.4 m/s	velocity	5.14	8.42	8.50	8.76	8.85	8.76	8.76	8.67	8.59	8.25	8.59	7.95	8.56	8.79	8.50
Semi Final 2 - 2021 NCAA Championships (Eugene, OR) (TV Analysis)												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	10-Jun-21	time	2.53	3.53	4.50	5.47	6.43	7.40	8.37	9.33	10.33	11.37	12.54	6 / 2			
reaction time	0.138	interval		1.00	0.97	0.97	0.96	0.97	0.97	0.96	1.00	1.04	1.17	PB	2.94	2.90	3.00
wind	-0.5 m/s	velocity	5.14	8.50	8.76	8.76	8.85	8.76	8.76	8.85	8.50	8.17	8.59	7.97	8.67	8.79	8.50
FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)												<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	08-Jun-19	time	2.56	3.60	4.60	5.56	6.53	7.50	8.50	9.50	10.50	11.53	12.80	8 / 5			
reaction time	0.182	interval		1.04	1.00	0.96	0.97	0.97	1.00	1.00	1.00	1.03	1.27		3.00	2.94	3.03
wind	0.6 m/s	velocity	5.08	8.17	8.50	8.85	8.76	8.76	8.50	8.50	8.50	8.25	8.27	7.81	8.50	8.67	8.42
Colle, Florence (FRA) (1965)																	
FINAL - 1988 Olympic Games (Seoul, KOR)												<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>					
date	30-Sep-88	time	2.65	3.69	4.74	5.74	6.74	7.75	8.77	9.78	10.82	11.85	12.98	1 / 5			
reaction time	0.173	interval		1.04	1.05	1.00	1.00	1.01	1.02	1.01	1.04	1.03	1.13		3.09	3.03	3.08
wind	0.2 m/s	velocity	4.91	8.17	8.10	8.50	8.50	8.42	8.33	8.42	8.17	8.25	9.29	7.70	8.25	8.42	8.28
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)												<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>					
date	29-Sep-88	time	2.65	3.69	4.75	5.77	6.77	7.77	8.77	9.78	10.81	11.84	12.92	2 / 4			
reaction time	0.166	interval		1.04	1.06	1.02	1.00	1.00	1.00	1.01	1.03	1.03	1.08		3.12	3.00	3.07
wind	0.5 m/s	velocity	4.91	8.17	8.02	8.33	8.50	8.50	8.50	8.42	8.25	8.25	9.72	7.74	8.17	8.50	8.31
Compper, Solenn (FRA) (1995)																	
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)												<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	12-Sep-20	time	2.50	3.55	4.56	5.60	6.58	7.60	8.61	9.65	10.74	11.85	13.20	5 / 2			
reaction time	0.212	interval		1.05	1.01	1.04	0.98	1.02	1.01	1.04	1.09	1.11	1.35		3.10	3.01	3.24
wind	1.5 m/s	velocity	5.20	8.10	8.42	8.17	8.67	8.33	8.42	8.17	7.80	7.66	7.44	7.58	8.23	8.47	7.87
Coward, Jackie (USA) (1989)																	
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	08-Jul-16	time	2.53	3.57	4.57	5.57	6.54	7.51	8.47	9.47	10.49	11.51	12.75	1 / 7			
reaction time	0.168	interval		1.04	1.00	1.00	0.97	0.97	0.96	1.00	1.02	1.02	1.24		3.04	2.90	3.04
wind	1.2 m/s	velocity	5.14	8.17	8.50	8.50	8.76	8.76	8.85	8.50	8.33	8.33	8.47	7.84	8.39	8.79	8.39
Covington, Jaiya (USA) (2003)																	
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)												<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	29-Jun-24	time	2.67	3.72	4.74	5.77	6.77	7.80	8.84	9.87	10.91	11.99	13.21	9 / 7			

reaction time	interval	1.05	1.02	1.03	1.00	1.03	1.04	1.03	1.04	1.08	1.22		3.10	3.07	3.15		
wind	0.8 m/s	velocity	4.87	8.10	8.33	8.25	8.50	8.25	8.17	8.25	8.17	7.87	8.24	7.57	8.23	8.31	8.10

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

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

date	28-Jun-24	time	2.65	3.70	4.73	5.76	6.80	7.83	8.87	9.90	10.93	11.98	13.14	7 / 6			
reaction time	0.506	interval	1.05	1.03	1.03	1.04	1.03	1.04	1.03	1.03	1.03	1.05	1.16		3.11	3.11	3.11
wind	1.7 m/s	velocity	4.91	8.10	8.25	8.25	8.17	8.25	8.17	8.25	8.25	8.10	8.66	7.61	8.20	8.20	8.20

Cunningham, Gabriele (USA) (1998)**Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)**

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

date	28-Jun-24	time	2.57	3.64	4.67	5.71	6.72	7.73	8.76	9.81	10.85	11.93	13.16	5 / 5			
reaction time	0.506	interval	1.07	1.03	1.04	1.01	1.01	1.03	1.05	1.04	1.08	1.23			3.14	3.05	3.17
wind	0.1 m/s	velocity	5.06	7.94	8.25	8.17	8.42	8.42	8.25	8.10	8.17	7.87	8.17	7.60	8.12	8.36	8.04

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

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

date	24-Jun-23	time	2.53	3.57	4.57	5.57	6.54	7.52	8.50	9.50	10.51	11.52	12.71	1 / 6			
reaction time	0.506	interval	1.04	1.00	1.00	0.97	0.98	0.98	1.00	1.01	1.01	1.19			3.04	2.93	3.02
wind	2.8 m/s	velocity	5.14	8.17	8.50	8.50	8.76	8.67	8.67	8.50	8.42	8.42	8.45	7.87	8.39	8.70	8.44

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

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

date	08-Aug-22	time	2.56	3.60	4.60	5.63	6.63	7.65	8.65	9.67	10.73	11.83	13.09	2 / 6			
reaction time	0.160	interval	1.04	1.00	1.03	1.00	1.02	1.00	1.02	1.02	1.06	1.10	1.26		3.07	3.02	3.18
wind	2.4 m/s	velocity	5.08	8.17	8.50	8.25	8.50	8.33	8.50	8.33	8.02	7.73	7.98	7.64	8.31	8.44	8.02

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

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

date	25-Jun-22	time	2.55	3.57	4.57	5.57	6.57	7.59	8.62	9.65	10.68	11.74	13.00	9 / 7			
reaction time	0.160	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
wind	-1.4 m/s	velocity	5.10	8.33	8.50	8.50	8.50	8.33	8.25	8.25	8.25	8.02	7.98	7.69	8.44	8.36	8.17

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

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

date	12-Jun-22	time	2.47	3.47	4.43	5.42	6.40	7.38	8.33	9.30	10.32	11.36	12.56	5 / 3			
reaction time	0.160	interval	1.00	0.96	0.99	0.98	0.98	0.95	0.97	1.02	1.04	1.20			2.95	2.91	3.03
wind	2.0 m/s	velocity	5.26	8.50	8.82	8.62	8.67	8.67	8.95	8.76	8.33	8.17	8.37	7.96	8.64	8.76	8.42

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

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

date	28-May-22	time	2.38	3.50	4.49	5.46	6.44	7.42	8.42	9.42	10.46	11.52	12.75	1 / 6			
reaction time	0.170	interval	1.12	0.99	0.97	0.98	0.98	1.00	1.00	1.04	1.06	1.23			3.08	2.96	3.10
wind	-0.7 m/s	velocity	5.46	7.59	8.59	8.76	8.67	8.67	8.50	8.50	8.17	8.02	8.17	7.84	8.28	8.61	8.23

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

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

date	13-May-22	time	2.47	3.47	4.47	5.44	6.41	7.41	8.40	9.44	10.46	11.51	12.75	8 / 6			
reaction time	0.157	interval	1.00	1.00	0.97	0.97	1.00	0.99	1.04	1.02	1.05	1.24			2.97	2.96	3.11
wind	3.8 m/s	velocity	5.26	8.50	8.50	8.76	8.76	8.50	8.59	8.17	8.33	8.10	8.10	7.84	8.59	8.61	8.20

FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)

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

date	08-May-22	time	2.58	3.59	4.60	5.62	6.60	7.61	8.61	9.62	10.74	11.84	13.07	2 / 3			
reaction time	0.162	interval	1.01	1.01	1.02	0.98	1.01	1.00	1.01	1.12	1.10	1.23			3.04	2.99	3.23
wind	-0.1 m/s	velocity	5.04	8.42	8.42	8.33	8.67	8.42	8.50	8.42	7.59	7.73	8.17	7.65	8.39	8.53	7.89

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

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

date	19-Mar-22	time	2.46	3.46	4.46	5.44	6.42						7.87	2 / 3			
reaction time	0.164	interval	1.00	1.00	0.98	0.98						1.45			2.98		
		velocity	5.28	8.50	8.50	8.67	8.67					8.97	7.62		8.56		

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

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

date	09-Sep-21	time	2.46	3.50	4.50	5.48	6.46	7.44	8.44	9.46	10.50	11.54	12.79	2 / 6			
reaction time	0.140	interval	1.04	1.00	0.98	0.98	0.98	1.00	1.02	1.04	1.04	1.25			3.02	2.96	3.10
wind	0.4 m/s	velocity	5.28	8.17	8.50	8.67	8.67	8.67	8.50	8.33	8.17	8.17	8.04	7.82	8.44	8.61	8.23

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

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

date	03-Sep-21	time	2.48	3.52	4.52	5.50	6.50	7.54	8.54	9.58	10.60	11.66	12.89	4 / 5			
reaction time	0.166	interval	1.04	1.00	0.98	1.00	1.04	1.00	1.04	1.02	1.06	1.23			3.02	3.04	3.12
wind	0.7 m/s	velocity	5.24	8.17	8.50	8.67	8.50	8.17	8.50	8.17	8.33	8.02	8.17	7.76	8.44	8.39	8.17

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

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

date	28-Aug-21	time	2.46	3.48	4.48	5.48	6.48	7.46	8.46	9.48	10.54	11.58	12.86	6 / 5			
reaction time	0.169	interval	1.02	1.00	1.00	1.00	0.98	1.00	1.02	1.06	1.04	1.28			3.02	2.98	3.12
wind	1.7 m/s	velocity	5.28	8.33	8.50	8.50	8.50	8.67	8.50	8.33	8.02	8.17	7.85	7.78	8.44	8.56	8.17

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

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

date	02-Aug-21	time	2.46	3.48	4.50	5.52	6.52	7.52	8.52	9.54	10.62	11.72	13.01	2 / 7			
reaction time	0.172	interval	1.02	1.02	1.02	1.00	1.00	1.00	1.02	1.08	1.10	1.29			3.06	3.00	3.20
wind	-0.3 m/s	velocity	5.28	8.33	8.33	8.33	8.50	8.50	8.50	8.33	7.87	7.73	7.79	7.69	8.33	8.50	7.97

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

date	06-Jul-21	time	2.47	3.49	4.50	5.50	6.47	7.44	8.41	9.44	10.47	11.51	12.75	7 / 3			
reaction time	0.171	interval		1.02	1.01	1.00	0.97	0.97	0.97	1.03	1.03	1.04	1.24		3.03	2.91	3.10
wind	0.2 m/s	velocity	5.26	8.33	8.42	8.50	8.76	8.76	8.76	8.25	8.25	8.17	8.10	7.84	8.42	8.76	8.23

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

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

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

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

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

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

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

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

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

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

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

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

CAA Hurdle Development (2020)

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

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

CAA Hurdle Development (2020)

FINAL - 2020 Millrose Games (New York, NY)

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

PrimeTime Timing (2020) - <http://results.nyrrmillrosegames.org/>**Dai Yiru (CHN) (2001)**

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Chinese National Games (Xi'an, CHN)																		
date	22-Sep-21	time	2.50	3.56	4.60	5.60	6.63	7.67	8.73	9.80	10.87	11.94		13.22	3 / 4			
reaction time	0.132	interval		1.06	1.04	1.00	1.03	1.04	1.06	1.07	1.07	1.07	1.28			3.10	3.13	3.21
wind	0.1 m/s	velocity	5.20	8.02	8.17	8.50	8.25	8.17	8.02	7.94	7.94	7.94	7.85	7.56		8.23	8.15	7.94

CAA Hurdle Development (2021)

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

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

CAA Hurdle Development (2021)

FINAL - 2021 Chinese Student Games (Qingdao, CHN)

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

CAA Hurdle Development (2021)

FINAL - 2021 Chinese National Championships (Chongqing, CHN)

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

CAA Hurdle Development (2021)

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

date	25-Jun-21	time	2.63	3.70	4.74	5.77	6.81	7.87	8.92	10.02	11.13	12.24		13.46	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
wind	-1.6 m/s	velocity	4.94	7.94	8.17	8.25	8.17	8.02	8.10	7.73	7.66	7.66	8.24	7.43		8.12	8.10	7.68

CAA Hurdle Development (2021)

FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)

date	12-Jun-21	time	2.62	3.68	4.74	5.78	6.82	7.87	8.90	10.00	11.12	12.28		13.55	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
wind	1.0 m/s	velocity	4.96	8.02	8.02	8.17	8.17	8.10	8.25	7.73	7.59	7.33	7.91	7.38		8.07	8.17	7.54

CAA Hurdle Development (2021)

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

date	12-Jun-21	time	2.48	3.55	4.63	5.67	6.74	7.76	8.86	9.96	11.06	12.20		13.55	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
wind	-0.2 m/s	velocity	5.24	7.94	7.87	8.17	7.94	8.33	7.73	7.73	7.73	7.46	7.44	7.38		7.99	7.99	7.63

CAA Hurdle Development (2021)

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

CAA Hurdle Development (2021)

date	24-Apr-21	time	2.60	3.64	4.67	5.69	6.71	7.72	8.76	9.81	10.86	11.96		13.13	5 / 2			
reaction time	0.178	interval		1.04	1.03	1.02	1.02	1.01	1.04	1.05	1.05	1.10	1.17	PB		3.09	3.07	3.20
wind	-0.8 m/s	velocity	5.00	8.17	8.25	8.33	8.33	8.42	8.17	8.10	8.10	7.73	8.59	7.62		8.25	8.31	7.97
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)																		
date	24-Apr-21	time	2.65	3.72	4.76	5.81	6.85	7.89	8.96	10.08	11.16	12.31		13.54	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
wind	0.5 m/s	velocity	4.91	7.94	8.17	8.10	8.17	8.17	7.94	7.59	7.87	7.39	8.17	7.39		8.07	8.10	7.61
FINAL - 2021 National Grand Prix (Chengdu, CHN)																		
date	02-Apr-21	time	2.64	3.68	4.72	5.72	6.76	7.78	8.80	9.86	10.96	12.10		13.37	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
wind	0.1 m/s	velocity	4.92	8.17	8.17	8.50	8.17	8.33	8.33	8.02	7.73	7.46	7.91	7.48		8.28	8.28	7.73
Heat 3 - 2021 National Grand Prix (Chengdu, CHN)																		
date	02-Apr-21	time	2.64	3.72	4.78	5.82	6.90	7.96	9.02	10.08	11.18	12.26		13.51	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
wind	1.0 m/s	velocity	4.92	7.87	8.02	8.17	7.87	8.02	8.02	8.02	7.73	7.87	8.04	7.40		8.02	7.97	7.87
FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)																		
date	18-Mar-21	time	2.60	3.65	4.71	5.74	6.75							8.13	4 / 1			
reaction time	0.161	interval		1.05	1.06	1.03	1.01						1.38	PB		3.14		
wind		velocity	5.00	8.10	8.02	8.25	8.42						9.42	7.38		8.12		
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)																		
date	15-Sep-20	time	2.64	3.70	4.74	5.79	6.84	7.88	8.96	10.07	11.18	12.36		13.61	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
wind	-0.6 m/s	velocity	4.92	8.02	8.17	8.10	8.10	8.17	7.87	7.66	7.66	7.20	8.04	7.35		8.10	8.04	7.50
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)																		
date	24-Aug-19	time	2.70	3.75	4.82	5.85	6.91	7.96	9.01	10.08	11.17	12.29		13.49	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
wind	-0.1 m/s	velocity	4.81	8.10	7.94	8.25	8.02	8.10	8.10	7.94	7.80	7.59	8.75	7.41		8.10	8.07	7.77
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																		
date	23-Aug-19	time	2.70	3.77	4.86	5.91	6.99	8.11	9.23	10.39	11.54	12.75		14.02	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
wind	-0.2 m/s	velocity	4.81	7.94	7.80	8.10	7.87	7.59	7.59	7.33	7.39	7.02	8.27	7.13		7.94	7.68	7.24
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)																		
date	14-Aug-19	time	2.54	3.61	4.70	5.75	6.78	7.82	8.88	9.96	11.03	12.13		13.36	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
wind	-0.1 m/s	velocity	5.12	7.94	7.80	8.10	8.25	8.17	8.02	7.87	7.94	7.73	8.54	7.49		7.94	8.15	7.85
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN)																		
date	14-Aug-19	time	2.64	3.70	4.77	5.79	6.86	7.91	9.01	10.11	11.23	12.36		13.62	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
wind	0.0 m/s	velocity	4.92	8.02	7.94	8.33	7.94	8.10	7.73	7.73	7.59	7.52	8.33	7.34		8.10	7.92	7.61
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)																		
date	02-Aug-19	time	2.62	3.65	4.72	5.72	6.74	7.77	8.81	9.88	10.94	12.06		13.24	4 / 1			
reaction time	0.178	interval		1.03	1.07	1.00	1.02	1.03	1.04	1.07	1.06	1.12	1.18	PB		3.10	3.09	3.25
wind	0.0 m/s	velocity	4.96	8.25	7.94	8.50	8.33	8.25	8.17	7.94	8.02	7.59	8.90	7.55		8.23	8.25	7.85
Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)																		
date	02-Aug-19	time	2.64	3.70	4.77	5.83	6.87	7.92	8.97	10.04	11.13	12.25		13.46	6 / 1			
reaction time	0.183	interval		1.06	1.07	1.06	1.04	1.05	1.05	1.07	1.09	1.12	1.21	PB		3.19	3.14	3.28
wind	0.2 m/s	velocity	4.92	8.02	7.94	8.02	8.17	8.10	8.10	7.94	7.80	7.59	8.68	7.43		7.99	8.12	7.77
FINAL - 2019 Chinese National Championships (Shenyang, CHN)																		
date	08-Jul-19	time	2.67	3.79	4.85	5.91	6.96	8.00	9.09	10.17	11.27	12.36		13.58	1 / 7			
reaction time	0.197	interval		1.12	1.06	1.06	1.05	1.04	1.09	1.08	1.10	1.09	1.22	PB		3.24	3.18	3.27
wind	0.2 m/s	velocity	4.87	7.59	8.02	8.02	8.10	8.17	7.80	7.87	7.73	7.80	8.61	7.36		7.87	8.02	7.80
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)																		
date	08-Jul-19	time	2.72	3.82	4.88	5.92	7.00	8.05	9.12	10.18	11.28	12.38		13.60	3 / 3			
reaction time	0.199	interval		1.10	1.06	1.04	1.08	1.05	1.07	1.06	1.10	1.10	1.22	PB		3.20	3.20	3.26
wind	1.3 m/s	velocity	4.78	7.73	8.02	8.17	7.87	8.10	7.94	8.02	7.73	7.73	8.61	7.35		7.97	7.97	7.82
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)																		
date	30-May-19	time	2.74	3.82	4.92	5.97	7.00	8.07	9.12	10.24	11.38	12.52		13.74	5 / 5			
reaction time	0.200	interval		1.08	1.10	1.05	1.03	1.07	1.05	1.12	1.14	1.14	1.22	=PB		3.23	3.15	3.40
wind	-0.1 m/s	velocity	4.74	7.87	7.73	8.10	8.25	7.94	8.10	7.59	7.46	7.46	8.61	7.28		7.89	8.10	7.50

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

CAA Hurdle Development (2019)

date	13-Apr-19	time	2.67	3.75	4.82	5.89	6.95	8.01	9.08	10.17	11.30	12.43		13.74	2 / 7			
reaction time	0.220	interval		1.08	1.07	1.07	1.06	1.06	1.07	1.09	1.13	1.13	1.31	PB		3.22	3.19	3.35
wind	0.3 m/s	velocity	4.87	7.87	7.94	7.94	8.02	8.02	7.94	7.80	7.52	7.52	8.02	7.28		7.92	7.99	7.61

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

CAA Hurdle Development (2019)

date	13-Apr-19	time	2.68	3.78	4.84	5.90	6.95	8.02	9.10	10.18	11.35	12.52		13.86	7 / 2			
reaction time	0.177	interval		1.10	1.06	1.06	1.05	1.07	1.08	1.08	1.17	1.17	1.34	PB		3.22	3.20	3.42
wind	0.2 m/s	velocity	4.85	7.73	8.02	8.02	8.10	7.94	7.87	7.87	7.26	7.26	7.84	7.22		7.92	7.97	7.46

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

CAA Hurdle Development (2019)

date	20-Mar-19	time	2.70	3.77	4.87	5.89	6.96							8.40	5 / 3			
reaction time		interval		1.07	1.10	1.02	1.07						1.44	PB		3.19		
		velocity	4.81	7.94	7.73	8.33	7.94						9.03	7.14		7.99		

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

CAA Hurdle Development (2019)

date	4-Mar-19	time	2.67	3.75	4.82	5.84	6.87							8.41	5 / 2			
reaction time		interval		1.08	1.07	1.02	1.03						1.54	=PB		3.17		
		velocity	4.87	7.87	7.94	8.33	8.25						8.44	7.13		8.04		

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

CAA Hurdle Development (2019)

date	28-Feb-19	time	2.72	3.82	4.90	5.96	7.02							8.48	3 / 3			
reaction time		interval		1.10	1.08	1.06	1.06						1.46			3.24		
		velocity	4.78	7.73	7.87	8.02	8.02						8.90	7.08		7.87		

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

Henson (2018) - coaching observations

date	15-Sep-18	time	2.75	3.83	4.93	6.01	7.09	8.19	9.31	10.43	11.56	12.76		14.11	8 / 6			
reaction time		interval		1.08	1.10	1.08	1.08	1.10	1.12	1.12	1.13	1.20	1.35			3.26	3.30	3.45
wind	0.0 m/s	velocity	4.73	7.87	7.73	7.87	7.87	7.73	7.59	7.59	7.52	7.08	7.78	7.09		7.82	7.73	7.39

Davin, Elisabeth (BEL) (1981)

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

FINAL - 2010 Windsprint (Sundsvall, SWE)

Blomkvist (2010) - 100/110m Hurdles: Development

date	08-Aug-10	time	2.72	3.78	4.85	5.88	6.90	7.94	8.99	10.06	11.14	12.21		13.36	/ 2			
reaction time		interval		1.06	1.07	1.03	1.02	1.04	1.05	1.07	1.08	1.07	1.15			3.16	3.11	3.22
wind	0.6 m/s	velocity	4.78	8.02	7.94	8.25	8.33	8.17	8.10	7.94	7.87	7.94	9.13	7.49		8.07	8.20	7.92

Davis, Candice (USA) (1985)

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

FINAL - 2008 Seiko Super Grand Prix (Kawasaki, JPN)

Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles

date	23-Sep-08	time	2.57	3.62	4.63	5.63	6.63	7.66	8.69	9.72	10.77	11.84		13.13	/ 2			
reaction time		interval		1.05	1.01	1.00	1.00	1.03	1.03	1.03	1.05	1.07	1.29			3.06	3.06	3.15
wind	0.1 m/s	velocity	5.06	8.10	8.42	8.50	8.50	8.25	8.25	8.25	8.10	7.94	8.14	7.62		8.33	8.33	8.10

FINAL - 2008 USA Olympic Trials (Eugene, OR)

USATF Hurdle Development (2008)

date	06-Jul-08	time	2.58	3.58	4.58	5.57	6.52	7.49	8.49	9.47	10.49	11.52		12.66	1 / 5			
reaction time		interval		1.00	1.00	0.99	0.95	0.97	1.00	0.98	1.02	1.03	1.14			2.99	2.92	3.03
wind	3.8 m/s	velocity	5.04	8.50	8.50	8.59	8.95	8.76	8.50	8.67	8.33	8.25	9.21	7.90		8.53	8.73	8.42

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

USATF Women's Sprint Development (2003)

date	22-Jun-03	time	2.58	3.69	4.79	5.87	6.97	8.09	9.24	10.36	11.48	12.59		13.99	4 / 7			
reaction time		interval		1.11	1.10	1.08	1.10	1.12	1.15	1.12	1.12	1.11	1.40			3.29	3.37	3.35
wind	2.3 m/s	velocity	5.04	7.66	7.73	7.87	7.73	7.59	7.39	7.59	7.59	7.66	7.50	7.15		7.75	7.57	7.61

Davis, Tanya (USA) (1968)

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

FINAL - 1986 IAAF World Junor Championships (Athens, GRE)

Miskos (1986) - IAAF biomechanical research - Athens 1986 - hurdle races

date	19-Jul-86	time	2.58	3.67	4.68	5.73	6.78	7.83	8.86	10.00	11.13	12.26		13.46	/ 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
wind	-0.7 m/s	velocity	5.04	7.80	8.42	8.10	8.10	8.10	8.25	7.46	7.52	7.52	8.75	7.43		8.10	8.15	7.50

Day, Sharon (USA) (1985)

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

Heptathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)

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

date	15-Aug-09	time	2.80	3.90	5.01	6.09	7.17	8.27	9.35	10.47	11.58	12.69		13.90	7 / 4			
reaction time	0.205	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
wind	-0.3 m/s	velocity	4.64	7.73	7.66	7.87	7.87	7.73	7.87	7.59	7.66	7.66	8.68	7.19		7.75	7.82	7.63

De Aniceto, Marisa (FRA) (1986)

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

Heptathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)

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

date	15-Aug-09	time	2.80	3.92	5.00	6.07	7.12	8.20	9.28	10.38	11.48	12.59		13.78	6 / 6			
reaction time	0.217	interval		1.12	1.08	1.07	1.05	1.08	1.08	1.10	1.10	1.11	1.19			3.27	3.21	3.31
wind	-0.2 m/s	velocity	4.64	7.59	7.87	7.94	8.10	7.87	7.87	7.73	7.73	7.66	8.82	7.26		7.80	7.94	7.70

de Mello, Micaela (BRA) (2000)

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

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

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

date	08-Jun-24	time	2.60	3.64	4.65	5.65	6.67	7.67	8.67	9.68	10.71	11.76	12.92	9 / 7				
reaction time		interval		1.04	1.01	1.00	1.02	1.00	1.00	1.01	1.03	1.05	1.16		3.05	3.02	3.09	
wind	-0.5 m/s	velocity	5.00	8.17	8.42	8.50	8.33	8.50	8.50	8.42	8.25	8.10	8.66	7.74	8.36	8.44	8.25	
Deptyareva, Tatyana (RUS) (1981)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 IAAF World Championships (Daegu, KOR)														<i>KSSB (2011) - biomechanical analysis of women's 100m hurdle</i>				
date	03-Sep-11	time	2.63	3.66	4.68	5.66	6.64	7.63	8.63	9.64	10.66	11.70	12.82	1 / 5				
reaction time	0.161	interval		1.03	1.02	0.98	0.98	0.99	1.00	1.01	1.02	1.04	1.12		3.03	2.97	3.07	
wind	1.1 m/s	velocity	4.94	8.25	8.33	8.67	8.67	8.59	8.50	8.42	8.33	8.17	9.37	7.80	8.42	8.59	8.31	
Race 1 - 2011 European Team Championships (Stockholm, SWE)														<i>Blomkvist (2011) - www.sub13.se</i>				
date	19-Jun-11	time	2.56	3.60	4.64	5.68	6.68	7.72	8.76	9.80	10.84	11.92	13.16	/ 1				
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	
wind	-1.0 m/s	velocity	5.08	8.17	8.17	8.17	8.50	8.17	8.17	8.17	8.17	7.87	8.47	7.60	8.17	8.28	8.07	
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)														<i>Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships</i>				
date	13-Mar-10	time	2.62	3.66	4.67	5.65	6.69						8.05	7 / 8				
reaction time	0.173	interval		1.04	1.01	0.98	1.04						1.36		3.03			
		velocity	4.96	8.17	8.42	8.67	8.17						9.56	7.45	8.42			
Denby, Nichole (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 USA Olympic Trials (Eugene, OR)														<i>USATF Hurdle Development (2008)</i>				
date	06-Jul-08	time	2.60	3.58	4.57	5.53	6.50	7.50	8.47	9.47	10.47	11.49	12.62	5 / 4				
reaction time		interval		0.98	0.99	0.96	0.97	1.00	0.97	1.00	1.00	1.02	1.13		2.93	2.94	3.02	
wind	3.8 m/s	velocity	5.00	8.67	8.59	8.85	8.76	8.50	8.76	8.50	8.50	8.33	9.29	7.92	8.70	8.67	8.44	
FINAL - 2007 USATF National Championships (Indianapolis, IN)														<i>USATF Men's Hurdle Development (2007)</i>				
date	23-Jun-07	time	2.64	3.67	4.70	5.69	6.71	7.72	8.73	9.74	10.76	11.80	12.82	/ 4				
reaction time		interval		1.03	1.03	0.99	1.02	1.01	1.01	1.01	1.02	1.04	1.02		3.05	3.04	3.07	
wind	-1.3 m/s	velocity	4.92	8.25	8.25	8.59	8.33	8.42	8.42	8.42	8.33	8.17	10.29	7.80	8.36	8.39	8.31	
Deng Mengying (CHN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Central China Athletics Meeting (Ji'an, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	11-May-21	time	2.85	4.05	5.25	6.44	7.61	8.79	10.01	11.23	12.44	13.68	15.03	2 / 6				
reaction time		interval		1.20	1.20	1.19	1.17	1.18	1.22	1.22	1.21	1.24	1.35		3.59	3.57	3.67	
wind	-0.6 m/s	velocity	4.56	7.08	7.08	7.14	7.26	7.20	6.97	6.97	7.02	6.85	7.44	6.65	7.10	7.14	6.95	
Heat 2 - 2021 National Indoor Grand Prix (Chengdu, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	13-Mar-21	time	2.95	4.20	5.44	6.69	7.92						9.52	5 / 5				
reaction time	0.288	interval		1.25	1.24	1.25	1.23						1.60	PB	3.74			
		velocity	4.41	6.80	6.85	6.80	6.91						8.13	6.30	6.82			
Deng Ru (CHN) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Chinese National Games (Tianjin, CHN)														<i>Henson (2017) - coaching observations</i>				
date	04-Sep-17	time	2.76	3.85	4.92	5.97	7.00	8.06	9.12	10.19	11.29	12.39	13.59	8 / 5				
reaction time		interval		1.09	1.07	1.05	1.03	1.06	1.06	1.07	1.10	1.10	1.20		3.21	3.15	3.27	
wind	-0.2 m/s	velocity	4.71	7.80	7.94	8.10	8.25	8.02	8.02	7.94	7.73	7.73	8.75	7.36	7.94	8.10	7.80	
FINAL - 2014 Chinese National Championships (Suzhou, CHN)														<i>Deng (2016) - research on the 2014 winter training of chinese excellent 100m hurdler Deng Ru</i>				
date	11-Oct-14	time	2.27	3.33	4.41	5.53	6.57	7.69	8.80	9.88	10.96	12.08	13.86	/ 6				
reaction time		interval		1.06	1.08	1.12	1.04	1.12	1.11	1.08	1.08	1.12	1.78		3.26	3.27	3.28	
wind	1.6 m/s	velocity	5.73	8.02	7.87	7.59	8.17	7.59	7.66	7.87	7.87	7.59	5.90	7.22	7.82	7.80	7.77	
FINAL - 2014 Chinese National Grand Prix (Zhaoqing, CHN)														<i>Deng (2016) - research on the 2014 winter training of chinese excellent 100m hurdler Deng Ru</i>				
date	20-Apr-14	time	2.35	3.43	4.51	5.59	6.63	7.66	8.74	9.81	10.90	12.01	13.57	/ 4				
reaction time		interval		1.08	1.08	1.08	1.04	1.03	1.08	1.07	1.09	1.11	1.56		3.24	3.15	3.27	
wind	1.0 m/s	velocity	5.53	7.87	7.87	7.87	8.17	8.25	7.87	7.94	7.80	7.66	6.73	7.37	7.87	8.10	7.80	
Deng Xuelin (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Chinese National Championships (Chongqing, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	25-Jun-21	time	2.72	3.75	4.79	5.82	6.84	7.86	8.89	9.93	10.98	12.06	13.24	2 / 4				
reaction time	0.219	interval		1.03	1.04	1.03	1.02	1.02	1.03	1.04	1.05	1.08	1.18	PB	3.10	3.07	3.17	
wind	1.7 m/s	velocity	4.78	8.25	8.17	8.25	8.33	8.33	8.25	8.17	8.10	7.87	8.52	7.55	8.23	8.31	8.04	
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	25-Jun-21	time	2.72	3.79	4.87	5.92	6.96	8.00	9.06	10.13	11.21	12.33	13.56	6 / 3				
reaction time	0.209	interval		1.07	1.08	1.05	1.04	1.04	1.06	1.07	1.08	1.12	1.23		3.20	3.14	3.27	
wind	-0.3 m/s	velocity	4.78	7.94	7.87	8.10	8.17	8.17	8.02	7.94	7.87	7.59	8.17	7.37	7.97	8.12	7.80	
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	24-Apr-21	time	2.69	3.77	4.80	5.84	6.91	7.95	8.99	10.07	11.14	12.23	13.46	7 / 4				
reaction time	0.203	interval		1.08	1.03	1.04	1.07	1.04	1.04	1.04	1.08	1.07	1.09	1.23	3.15	3.15	3.24	
wind	-0.8 m/s	velocity	4.83	7.87	8.25	8.17	7.94	8.17	8.17	7.87	7.94	7.80	8.17	7.43	8.10	8.10	7.87	

Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)

date	24-Apr-21	time	2.72	3.79	4.82	5.87	6.91	7.97	9.03	10.11	11.19	12.31	13.54
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
wind	0.5 m/s	velocity	4.78	7.94	8.25	8.10	8.17	8.02	8.02	7.87	7.87	7.59	8.17

CAA Hurdle Development (2021)

7 / 1			
	3.15	3.16	3.28
	8.10	8.07	7.77

Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)

date	15-Sep-20	time	2.72	3.78	4.82	5.84	6.88	7.92	8.95	10.01	11.07	12.16	13.31
reaction time	0.166	interval		1.06	1.04	1.02	1.04	1.04	1.03	1.06	1.06	1.09	1.15
wind	-0.6 m/s	velocity	4.78	8.02	8.17	8.33	8.17	8.17	8.25	8.02	8.02	7.80	8.74

CAA Hurdle Development (2020)

3 / 1			
	3.12	3.11	3.21
	8.17	8.20	7.94

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

date	24-Aug-19	time	2.72	3.77	4.82	5.84	6.89	7.95	9.01	10.11	11.21	12.28	13.49
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
wind	-0.1 m/s	velocity	4.78	8.10	8.10	8.33	8.10	8.02	8.02	7.73	7.73	7.94	8.68

CAA Hurdle Development (2019)

4 / 3			
	3.12	3.17	3.27
	8.17	8.04	7.80

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

date	23-Aug-19	time	2.75	3.85	4.94	5.97	7.04	8.09	9.14	10.19	11.31	12.50	13.73
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
wind	0.2 m/s	velocity	4.73	7.73	7.80	8.25	7.94	8.10	8.10	8.10	7.59	7.14	8.54

CAA Hurdle Development (2019)

7 / 3			
	3.22	3.17	3.36
	7.92	8.04	7.59

FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)

date	02-Aug-19	time	2.70	3.75	4.80	5.81	6.85	7.88	8.90	9.94	10.98	12.04	13.25
reaction time	0.219	interval		1.05	1.05	1.01	1.04	1.03	1.02	1.04	1.04	1.06	1.21
wind	0.0 m/s	velocity	4.81	8.10	8.10	8.42	8.17	8.25	8.33	8.17	8.17	8.02	8.68

CAA Hurdle Development (2019)

3 / 2			
	3.11	3.09	3.14
	8.20	8.25	8.12

Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)

date	02-Aug-19	time	2.72	3.78	4.84	5.91	6.94	7.97	9.04	10.08	11.14	12.21	13.43
reaction time	0.216	interval		1.06	1.06	1.07	1.03	1.03	1.07	1.04	1.06	1.07	1.22
wind	-0.3 m/s	velocity	4.78	8.02	8.02	7.94	8.25	8.25	7.94	8.17	8.02	7.94	8.61

CAA Hurdle Development (2019)

2 / 1			
	3.19	3.13	3.17
	7.99	8.15	8.04

FINAL - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.73	3.78	4.82	5.87	6.89	7.94	8.97	10.04	11.09	12.17	13.36
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
wind	0.2 m/s	velocity	4.76	8.10	8.17	8.10	8.33	8.10	8.25	7.94	8.10	7.87	8.82

CAA Hurdle Development (2019)

3 / 2			
	3.14	3.10	3.20
	8.12	8.23	7.97

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

date	08-Jul-19	time	2.72	3.79	4.88	5.94	6.98	8.02	9.08	10.12	11.16	12.26	13.46
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
wind	1.3 m/s	velocity	4.78	7.94	7.80	8.02	8.17	8.17	8.02	8.17	8.17	7.73	8.75

CAA Hurdle Development (2019)

5 / 2			
	3.22	3.14	3.18
	7.92	8.12	8.02

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

date	30-May-19	time	2.75	3.82	4.87	5.91	6.97	8.02	9.08	10.14	11.21	12.32	13.48
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
wind	-0.1 m/s	velocity	4.73	7.94	8.10	8.17	8.02	8.10	8.02	8.02	7.94	7.66	9.05

CAA Hurdle Development (2019)

3 / 1			
	3.16	3.17	3.24
	8.07	8.04	7.87

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

date	23-May-19	time	2.72	3.78	4.82	5.86	6.90	7.94	8.98	10.04	11.12	12.22	13.41
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
wind	0.4 m/s	velocity	4.78	8.02	8.17	8.17	8.17	8.17	8.17	8.02	7.87	7.73	8.82

CAA Hurdle Development (2019)

6 / 2			
	3.14	3.12	3.24
	8.12	8.17	7.87

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

date	09-Apr-19	time	2.76	3.84	4.89	5.94	7.00	8.04	9.09	10.20			
reaction time	0.234	interval		1.08	1.05	1.05	1.06	1.04	1.05	1.11			
wind	0.1 m/s	velocity	4.71	7.87	8.10	8.10	8.02	8.17	8.10	7.66			

CAA Hurdle Development (2019)

8 / --			
	3.18	3.15	
	8.02	8.10	

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

date	08-Apr-19	time	2.72	3.81	4.87	5.91	6.97	8.04	9.13	10.22	11.31	12.44	13.68
reaction time	0.232	interval		1.09	1.06	1.04	1.06	1.07	1.09	1.09	1.09	1.13	1.24
wind	-0.2 m/s	velocity	4.78	7.80	8.02	8.17	8.02	7.94	7.80	7.80	7.80	7.52	8.47

CAA Hurdle Development (2019)

8 / 1			
	3.19	3.22	3.31
	7.99	7.92	7.70

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

date	20-Feb-19	time	2.73	3.82	4.89	5.96	7.00						8.46
reaction time		interval		1.09	1.07	1.07	1.04						1.46
		velocity	4.76	7.80	7.94	7.94	8.17						8.90

CAA Hurdle Development (2019)

2 / 3			
	3.23		
	7.89		

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)

date	16-Sep-18	time	2.74	3.81	4.83	5.89	6.92	7.96	8.97	10.04	11.08	12.19	13.38
reaction time		interval		1.07	1.02	1.06	1.03	1.04	1.01	1.07	1.04	1.11	1.19
wind	-0.2 m/s	velocity	4.74	7.94	8.33	8.02	8.25	8.17	8.42	7.94	8.17	7.66	8.82

Henson (2018) - coaching observations

4 / 2			
	3.15	3.08	3.22
	8.10	8.28	7.92

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

date	15-Sep-18	time	2.72	3.79	4.82	5.91	6.93	7.98	9.01	10.06	11.13	12.23	13.45
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Henson (2018) - coaching observations

3 / 2			
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reaction time	interval	1.07	1.03	1.09	1.02	1.05	1.03	1.05	1.07	1.10	1.22	PB	3.19	3.10	3.22		
wind	0.0 m/s	velocity	4.78	7.94	8.25	7.80	8.33	8.10	8.25	8.10	7.94	7.73	8.61	7.43	7.99	8.23	7.92

Devers, Gail (USA) (1966)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 USATF National Championships (Palo Alto, CA)																		
<i>USATF Women's Sprint Development (2003)</i>																		
date	22-Jun-03	time	2.50	3.50	4.50	5.47	6.45	7.42	8.42	9.40	10.41	11.41		12.61	5 / 1			
reaction time		interval		1.00	1.00	0.97	0.98	0.97	1.00	0.98	1.01	1.00	1.20			2.97	2.95	2.99
wind	-0.1 m/s	velocity	5.20	8.50	8.50	8.76	8.67	8.76	8.50	8.67	8.42	8.50	8.75	7.93		8.59	8.64	8.53
FINAL - 2002 IAAF World Cup (Madrid, ESP)																		
<i>Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas</i>																		
date	21-Sep-02	time	2.49	3.49	4.46	5.42	6.38	7.38	8.39	9.38	10.40	11.45		12.65	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
wind	1.5 m/s	velocity	5.22	8.50	8.76	8.85	8.85	8.50	8.42	8.59	8.33	8.10	8.75	7.91		8.70	8.59	8.33
Semi-Final 2 - 2001 IAAF World Championships (Edmonton, CAN)																		
<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>																		
date	10-Aug-01	time	2.60	3.60	4.56	5.52	6.52	7.52	8.52	9.52	10.52	11.55		12.56	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
wind	-0.3 m/s	velocity	5.00	8.50	8.85	8.85	8.50	8.50	8.50	8.50	8.50	8.25	10.40	7.96		8.73	8.50	8.42
FINAL - 1999 IAAF World Championships (Sevilla, ESP)																		
<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>																		
date	28-Aug-99	time	2.50	3.49	4.46	5.44	6.42	7.38	8.34	9.32	10.30	11.29		12.37	3 / 1			
reaction time	0.113	interval		0.99	0.97	0.98	0.98	0.96	0.96	0.98	0.98	0.99	1.08	AR		2.94	2.90	2.95
wind	0.7 m/s	velocity	5.20	8.59	8.76	8.67	8.67	8.85	8.85	8.67	8.67	8.59	9.72	8.08		8.67	8.79	8.64
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)																		
<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>																		
date	27-Aug-99	time	2.55	3.56	4.56	5.53	6.51	7.49	8.48	9.48	10.49	11.52		12.70	3 / 1			
reaction time	0.149	interval		1.01	1.00	0.97	0.98	0.98	0.99	1.00	1.01	1.03	1.18			2.98	2.95	3.04
wind	1.0 m/s	velocity	5.10	8.42	8.50	8.76	8.67	8.67	8.59	8.50	8.42	8.25	8.90	7.87		8.56	8.64	8.39
Quarter-Final 3 - 1999 IAAF World Championships (Sevilla, ESP)																		
<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>																		
date	26-Aug-99	time	2.51	3.51	4.50	5.47	6.46	7.42	8.40	9.39	10.38	11.40		12.53	4 / 1			
reaction time	0.145	interval		1.00	0.99	0.97	0.99	0.96	0.98	0.99	0.99	1.02	1.13			2.96	2.93	3.00
wind	-0.6 m/s	velocity	5.18	8.50	8.59	8.76	8.59	8.85	8.67	8.59	8.59	8.33	9.29	7.98		8.61	8.70	8.50
Heat 2 - 1999 IAAF World Championships (Sevilla, ESP)																		
<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>																		
date	26-Aug-99	time	2.60	3.62	4.62	5.61	6.61	7.59	8.58	9.62	10.64	11.71		12.80	4 / 1			
reaction time	0.178	interval		1.02	1.00	0.99	1.00	0.98	0.99	1.04	1.02	1.07	1.09			3.01	2.97	3.13
wind	-0.1 m/s	velocity	5.00	8.33	8.50	8.59	8.50	8.67	8.59	8.17	8.33	7.94	9.63	7.81		8.47	8.59	8.15
FINAL - 1996 Olympic Games (Atlanta, GA)																		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	31-Jul-96	time	2.44	3.46	4.47	5.43	6.44	7.43	8.43	9.46	10.48	11.48		12.66	8 / 4			
reaction time	0.189	interval		1.02	1.01	0.96	1.01	0.99	1.00	1.03	1.02	1.00	1.18			2.99	3.00	3.05
wind	0.2 m/s	velocity	5.33	8.33	8.42	8.85	8.42	8.59	8.50	8.25	8.33	8.50	8.90	7.90		8.53	8.50	8.36
FINAL - 1996 USA Olympic Trials (Atlanta, GA)																		
<i>USATF Women's Sprint Development (1996)</i>																		
date	23-Jun-96	time	2.26	3.28	4.28	5.26	6.24	7.21	8.20	9.20	10.22	11.32		12.62	2 / 1			
reaction time		interval		1.02	1.00	0.98	0.98	0.97	0.99	1.00	1.02	1.10	1.30			3.00	2.94	3.12
wind	0.6 m/s	velocity	5.75	8.33	8.50	8.67	8.67	8.76	8.59	8.50	8.33	7.73	8.08	7.92		8.50	8.67	8.17
FINAL - 1993 IAAF World Championships (Stuttgart, GER)																		
<i>Graubner (2008) - http://www.fgs.uni-halle.de</i>																		
date	20-Aug-93	time	2.62	3.62	4.57	5.52	6.47	7.45	8.44	9.45	10.46	11.48		12.46	3 / 1			
reaction time	0.167	interval		1.00	0.95	0.95	0.95	0.98	0.99	1.01	1.01	1.02	0.98	AR		2.90	2.92	3.04
wind	0.2 m/s	velocity	4.96	8.50	8.95	8.95	8.95	8.67	8.59	8.42	8.42	8.33	10.71	8.03		8.79	8.73	8.39
Quarter-Final 3 - 1992 Olympic Games (Barcelona, ESP)																		
<i>Lyle - miscellaneous coaching notes</i>																		
date	05-Aug-92	time	2.49	3.51	4.50	5.48	6.45	7.41	8.38	9.38	10.38	11.42		12.76	2 / 1			
reaction time		interval		1.02	0.99	0.98	0.97	0.96	0.97	1.00	1.00	1.04	1.34			2.99	2.90	3.04
wind	-0.7 m/s	velocity	5.22	8.33	8.59	8.67	8.76	8.85	8.76	8.50	8.50	8.17	7.84	7.84		8.53	8.79	8.39
Heat 2 - 1992 Olympic Games (Barcelona, ESP)																		
<i>Lyle - miscellaneous coaching notes</i>																		
date	05-Aug-92	time	2.63	3.66	4.62	5.56	6.51	7.51	8.53	9.58	10.67	11.78		13.19	3 / 3			
reaction time		interval		1.03	0.96	0.94	0.95	1.00	1.02	1.05	1.09	1.11	1.41			2.93	2.97	3.25
wind	0.0 m/s	velocity	4.94	8.25	8.85	9.04	8.95	8.50	8.33	8.10	7.80	7.66	7.45	7.58		8.70	8.59	7.85
FINAL - 1991 IAAF World Championships (Tokyo, JPN)																		
<i>Numazawa (1991) - analysis of time in the 3rd world athletics championships, women's 100m hurdles</i>																		
date	30-Aug-91	time	2.57	3.61	4.61	5.59	6.58	7.56	8.54	9.55	10.55	11.56		12.63	5 / 2			
reaction time	0.148	interval		1.04	1.00	0.98	0.99	0.98	0.98	1.01	1.00	1.01	1.07			3.02	2.95	3.02
wind	-1.7 m/s	velocity	5.06	8.17	8.50	8.67	8.59	8.67	8.67	8.42	8.50	8.42	9.81	7.92		8.44	8.64	8.44
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)																		
<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																		
date	29-Sep-88	time	2.64	3.77	4.89	5.96	7.01	8.05	9.13	10.21	11.29	12.37		13.51	7 / 8			
reaction time	0.166	interval		1.13	1.12	1.07	1.05	1.04	1.08	1.08	1.08	1.08	1.14			3.32	3.17	3.24
wind	0.5 m/s	velocity	4.92	7.52	7.59	7.94	8.10	8.17	7.87	7.87	7.87	7.87	9.21	7.40		7.68	8.04	7.87

														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
di Lazzaro, Elisa Maria (ITA) (1998)																													
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	09-Jun-22	time	2.53	3.63	4.63	5.65	6.65	7.67	8.67	9.70	10.73	11.83		13.10	9 / 9														
reaction time	0.143	interval		1.10	1.00	1.02	1.00	1.02	1.00	1.03	1.03	1.10	1.27				3.12	3.02	3.16										
wind	0.1 m/s	velocity	5.14	7.73	8.50	8.33	8.50	8.33	8.50	8.25	8.25	7.73	7.91	7.63			8.17	8.44	8.07										
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	10-Jun-21	time	2.54	3.58	4.62	5.62	6.60							dnf	8 / --														
reaction time	0.143	interval		1.04	1.04	1.00	0.98											3.08											
wind	-0.8 m/s	velocity	5.12	8.17	8.17	8.50	8.67											8.28											
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	17-Sep-20	time	2.56	3.62	4.64	5.66	6.68	7.68	8.68	9.70	10.74	11.80		13.05	8 / 6														
reaction time	0.135	interval		1.06	1.02	1.02	1.02	1.00	1.00	1.02	1.04	1.06	1.25	NUR PB			3.10	3.02	3.12										
wind	0.1 m/s	velocity	5.08	8.02	8.33	8.33	8.33	8.50	8.50	8.33	8.17	8.02	8.04	7.66			8.23	8.44	8.17										
FINAL - 2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	31-May-18	time	2.68	3.76	4.84	5.86	6.92	7.96	9.02	10.08	11.16	12.24		13.52	1 / 8														
reaction time	0.168	interval		1.08	1.08	1.02	1.06	1.04	1.06	1.06	1.08	1.08	1.28				3.18	3.16	3.22										
wind	0.0 m/s	velocity	4.85	7.87	7.87	8.33	8.02	8.17	8.02	8.02	7.87	7.87	8.20	7.40			8.02	8.07	7.92										
Dickey, Cheryl (USA) (1966)																													
FINAL - 1996 USA Olympic Trials (Atlanta, GA)														<i>USATF Women's Sprint Development (1996)</i>															
date	23-Jun-96	time	2.36	3.43	4.40	5.40	6.36	7.33	8.32	9.32	10.33	11.36		12.76	6 / 3														
reaction time		interval		1.07	0.97	1.00	0.96	0.97	0.99	1.00	1.01	1.03	1.40				3.04	2.92	3.04										
wind	0.6 m/s	velocity	5.51	7.94	8.76	8.50	8.85	8.76	8.59	8.50	8.42	8.25	7.50	7.84			8.39	8.73	8.39										
Dimitrova, Svetla (BUL) (1970)																													
FINAL - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>															
date	09-Aug-02	time	2.70	3.78	4.78	5.78	6.80	7.78	8.96					13.75	1 / 8														
reaction time	0.220	interval		1.08	1.00	1.00	1.02	0.98	1.18								3.08	3.18											
wind	-0.7 m/s	velocity	4.81	7.87	8.50	8.50	8.33	8.67	7.20					7.27			8.28	8.02											
Heat 5 - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>															
date	08-Aug-02	time	2.69	3.74	4.75	5.76	6.74	7.78	8.76	9.77	10.81	11.88		13.02	1 / 1														
reaction time	0.205	interval		1.05	1.01	1.01	0.98	1.04	0.98	1.01	1.04	1.07	1.14				3.07	3.00	3.12										
wind	1.1 m/s	velocity	4.83	8.10	8.42	8.42	8.67	8.17	8.67	8.42	8.17	7.94	9.21	7.68			8.31	8.50	8.17										
FINAL - 1999 IAAF World Championships (Sevilla, ESP)														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>															
date	28-Aug-99	time	2.63	3.65	4.65	5.62	6.61	7.57	8.53	9.53	10.55	11.58		12.75	8 / 5														
reaction time	0.149	interval		1.02	1.00	0.97	0.99	0.96	0.96	1.00	1.02	1.03	1.17				2.99	2.91	3.05										
wind	0.7 m/s	velocity	4.94	8.33	8.50	8.76	8.59	8.85	8.85	8.50	8.33	8.25	8.97	7.84			8.53	8.76	8.36										
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>															
date	27-Aug-99	time	2.59	3.63	4.62	5.61	6.57	7.55	8.54	9.54	10.57	11.61		12.79	5 / 4														
reaction time	0.146	interval		1.04	0.99	0.99	0.96	0.98	0.99	1.00	1.03	1.04	1.18				3.02	2.93	3.07										
wind	1.0 m/s	velocity	5.02	8.17	8.59	8.59	8.85	8.67	8.59	8.50	8.25	8.17	8.90	7.82			8.44	8.70	8.31										
FINAL - 1998 European Championships (Budapest, HUN)														<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>															
date	23-Aug-98	time	2.59	3.61	4.61	5.59	6.53	7.46	8.44	9.45	10.43	11.42		12.56	4 / 1														
reaction time		interval		1.02	1.00	0.98	0.94	0.93	0.98	1.01	0.98	0.99	1.14				3.00	2.85	2.98										
wind	1.5 m/s	velocity	5.02	8.33	8.50	8.67	9.04	9.14	8.67	8.42	8.67	8.59	9.21	7.96			8.50	8.95	8.56										
FINAL - 1997 IAAF World Championships (Athens, GRE)														<i>Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>															
date	10-Aug-97	time	2.58	3.62	4.60	5.58	6.54	7.51	8.48	9.46	10.44	11.48		12.58	3 / 2														
reaction time	0.136	interval		1.04	0.98	0.98	0.96	0.97	0.97	0.98	0.98	1.04	1.10				3.00	2.90	3.00										
wind	-0.3 m/s	velocity	5.04	8.17	8.67	8.67	8.85	8.76	8.76	8.67	8.67	8.17	9.55	7.95			8.50	8.79	8.50										
Dixon, Vonette (JAM) (1975)																													
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)														<i>Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships</i>															
date	13-Mar-10	time	2.68	3.68	4.66	5.66	6.64							7.99	6 / 6														
reaction time	0.269	interval		1.00	0.98	1.00	0.98							1.35			2.98												
wind		velocity	4.85	8.50	8.67	8.50	8.67							9.63	7.51		8.56												
Semi-Final 2 - 2008 Olympic Games (Beijing, CHN)														<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>															
date	18-Aug-08	time	2.61	3.64	4.64	5.65	6.74	7.77	8.76	9.76	10.75	11.78		12.86	5 / 5														
reaction time	0.237	interval		1.03	1.00	1.01	1.09	1.03	0.99	1.00	0.99	1.03	1.08				3.04	3.11	3.02										
wind	0.2 m/s	velocity	4.98	8.25	8.50	8.42	7.80	8.25	8.59	8.50	8.59	8.25	9.72	7.78			8.39	8.20	8.44										
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)														<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>															
date	22-Sep-07	time	2.64	3.66	4.68	5.67	6.67	7.68	8.68	9.72	10.74	11.79		12.90	7 / 5														
reaction time	0.212	interval		1.02	1.02	0.99	1.00	1.01	1.00	1.04	1.02	1.05	1.11				3.03	3.01	3.11										

wind -0.3 m/s velocity 4.92 8.33 8.33 8.59 8.50 8.42 8.50 8.17 8.33 8.10 9.46 7.75 8.42 8.47 8.20

Dobrovolná, Kristyna (CZE) (1996) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) *Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*
 date 28-Jun-14 time 2.88 4.08 5.29 6.49 7.73 8.96 10.19 11.46 12.72 14.00 15.44 6 / 5
 reaction time 0.152 interval 1.20 1.21 1.20 1.24 1.23 1.23 1.27 1.26 1.28 1.44 3.61 3.70 3.81
 wind -3.9 m/s velocity 4.51 7.08 7.02 7.08 6.85 6.91 6.91 6.69 6.75 6.64 7.29 6.48 7.06 6.89 6.69

Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) *Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*
 date 28-Jun-14 time 2.93 4.12 5.30 6.49 7.69 8.90 10.11 11.35 12.58 13.85 15.26 5 / 2
 reaction time 0.185 interval 1.19 1.18 1.19 1.20 1.21 1.21 1.24 1.23 1.27 1.41 3.56 3.62 3.74
 wind -4.5 m/s velocity 4.44 7.14 7.20 7.14 7.08 7.02 7.02 6.85 6.91 6.69 7.45 6.55 7.16 7.04 6.82

Dobrynska, Nataliya (UKR) (1982) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heptathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER) *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*
 date 15-Aug-09 time 2.78 3.85 4.91 5.99 7.07 8.15 9.24 10.36 11.49 12.64 13.85 3 / 3
 reaction time 0.169 interval 1.07 1.06 1.08 1.08 1.08 1.09 1.12 1.13 1.15 1.21 3.21 3.25 3.40
 wind -0.3 m/s velocity 4.68 7.94 8.02 7.87 7.87 7.87 7.80 7.59 7.52 7.39 8.68 7.22 7.94 7.85 7.50

Dokter, Sofie (NED) (2002) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympic Games - Results Book (2024)*
 date 08-Aug-24 time 2.58 3.69 4.77 5.82 6.88 7.93 8.99 10.05 11.14 12.23 13.57 2 / 4
 reaction time 0.169 interval 1.11 1.08 1.05 1.06 1.05 1.06 1.06 1.09 1.09 1.34 3.24 3.17 3.24
 wind 0.1 m/s velocity 5.04 7.66 7.87 8.10 8.02 8.10 8.02 8.02 7.80 7.80 7.50 7.37 7.87 8.04 7.87

Donkova, Yordanka (BUL) (1961) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 3 - 1992 Olympic Games (Barcelona, ESP) *Lyle - miscellaneous coaching notes*
 date 05-Aug-92 time 2.61 3.65 4.67 5.66 6.64 7.61 8.59 9.61 10.67 11.74 12.96 3 / 1
 reaction time interval 1.04 1.02 0.99 0.98 0.97 0.98 1.02 1.06 1.07 1.22 3.05 2.93 3.15
 wind -0.3 m/s velocity 4.98 8.17 8.33 8.59 8.67 8.76 8.67 8.33 8.02 7.94 8.61 7.72 8.36 8.70 8.10

FINAL - 1988 Olympic Games (Seoul, KOR) *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*
 date 30-Sep-88 time 2.54 3.55 4.52 5.50 6.46 7.42 8.38 9.34 10.31 11.32 12.38 5 / 1
 reaction time 0.150 interval 1.01 0.97 0.98 0.96 0.96 0.96 0.96 0.97 1.01 1.06 OR 2.96 2.88 2.94
 wind 0.2 m/s velocity 5.12 8.42 8.76 8.67 8.85 8.85 8.85 8.85 8.76 8.42 9.91 8.08 8.61 8.85 8.67

Semi-Final 1 - 1988 Olympic Games (Seoul, KOR) *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*
 date 29-Sep-88 time 2.56 3.60 4.58 5.57 6.53 7.49 8.45 9.44 10.45 11.45 12.58 6 / 1
 reaction time 0.171 interval 1.04 0.98 0.99 0.96 0.96 0.96 0.99 1.01 1.00 1.13 3.01 2.88 3.00
 wind 0.5 m/s velocity 5.08 8.17 8.67 8.59 8.85 8.85 8.85 8.59 8.42 8.50 9.29 7.95 8.47 8.85 8.50

FINAL - 1988 (Stara Zagova, BUL) *Vazel (2016) - Analysis of Keni Harrison's World Record 100m Hurdles Race*
 date 20-Aug-88 time 2.50 3.49 4.42 5.34 6.24 7.19 8.16 9.14 10.11 11.14 12.21 / 1
 reaction time interval 0.99 0.93 0.92 0.90 0.95 0.97 0.98 0.97 1.03 1.07 WR 2.84 2.82 2.98
 wind 0.7 m/s velocity 5.20 8.59 9.14 9.24 9.44 8.95 8.76 8.67 8.76 8.25 9.81 8.19 8.98 9.04 8.56

FINAL - 1987 European Cup (Prague, TCH) *Sušanka (1987) - hints on computer processing of biomechanical data*
 date 28-Jun-87 time 2.57 3.59 4.57 5.56 6.52 7.48 8.44 9.44 10.47 11.47 12.53 7 / 2
 reaction time interval 1.02 0.98 0.99 0.96 0.96 0.96 1.00 1.03 1.00 1.06 2.99 2.88 3.03
 wind -0.9 m/s velocity 5.06 8.33 8.67 8.59 8.85 8.85 8.85 8.50 8.25 8.50 9.91 7.98 8.53 8.85 8.42

FINAL - 1986 Balkan Games (Ljubljana, YUG) *Čoh (1987) Analiza svetovnega rekorda teka na 100m z ovirami Jordanke Donkove*
 date 07-Sep-86 time 2.43 3.43 4.39 5.36 6.31 7.26 8.22 9.19 10.16 11.17 12.26 / 1
 reaction time interval 1.00 0.96 0.97 0.95 0.95 0.96 0.97 0.97 1.01 1.09 WR 2.93 2.86 2.95
 wind 1.5 m/s velocity 5.35 8.50 8.85 8.76 8.95 8.95 8.85 8.76 8.76 8.42 9.63 8.16 8.70 8.92 8.64

Dostálová, Veronika (CZE) (1997) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) *Feher (2015) - Final report the U18 & U20 Czech Republic indoor national championships*
 date 14-Feb-15 time 2.98 4.21 5.41 6.66 7.93 9.68 7 / 7
 reaction time 0.369 interval 1.23 1.20 1.25 1.27 1.75 3.68
 velocity 4.36 6.91 7.08 6.80 6.69 7.43 6.20 6.93

FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm) *Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*
 date 28-Jun-14 time 2.81 3.98 5.13 6.28 7.42 8.60 9.78 10.98 12.20 13.50 14.87 2 / 6
 reaction time 0.214 interval 1.17 1.15 1.15 1.14 1.18 1.18 1.20 1.22 1.30 1.37 3.47 3.50 3.72
 wind -3.6 m/s velocity 4.63 7.26 7.39 7.39 7.46 7.20 7.20 7.08 6.97 6.54 7.66 6.72 7.35 7.29 6.85

Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm) *Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*
 date 28-Jun-14 time 2.84 3.99 5.12 6.24 7.39 8.51 9.65 10.86 12.03 13.22 14.55 4 / 2
 reaction time 0.371 interval 1.15 1.13 1.12 1.15 1.12 1.14 1.21 1.17 1.19 1.33 3.40 3.41 3.57
 wind -1.8 m/s velocity 4.58 7.39 7.52 7.59 7.39 7.59 7.46 7.02 7.26 7.14 7.89 6.87 7.50 7.48 7.14

Du Juan (CHN) (1968) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 2 - 1987 Chinese National Games (Guangzhou, CHN)*Xia (1990) - analysis of Liu Huajin's technical features in breaking the Asian 100m hurdles record*

date	25-Nov-87	time	2.57	3.57	4.62	5.66	6.70	7.72	8.76	9.80	10.85	11.97		13.17	1 / 2			
reaction time		interval		1.00	1.05	1.04	1.04	1.02	1.04	1.04	1.05	1.12	1.20	PB		3.09	3.10	3.21
wind	-0.3 m/s	velocity	5.06	8.50	8.10	8.17	8.17	8.33	8.17	8.17	8.10	7.59	8.75	7.59		8.25	8.23	7.94

Du Yan (CHN) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)***CAA Hurdle Development (2021)*

date	24-Jun-21	time	3.02	4.24	5.47	6.72	7.96	9.21	10.44	11.76	13.03	14.31		15.67	6 / 5			
reaction time	0.259	interval		1.22	1.23	1.25	1.24	1.25	1.23	1.32	1.27	1.28	1.36			3.70	3.72	3.87
wind	0.6 m/s	velocity	4.30	6.97	6.91	6.80	6.85	6.80	6.91	6.44	6.69	6.64	7.39	6.38		6.89	6.85	6.59

Duchonová, Andrea (CZE) (1999)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)***Feher (2015) - Final report U18 & U20 Czech Republic indoor national championships*

date	14-Feb-15	time	2.81	4.00	5.19	6.35	7.50							9.09	1 / 7			
reaction time	0.157	interval		1.19	1.19	1.16	1.15						1.59			3.54		
		velocity	4.63	7.14	7.14	7.33	7.39						8.18	6.60		7.20		

Duncan, Alexis (USA) (1998)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)***(2016.07.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	24-Jul-16	time	2.57	3.60	4.62	5.61	6.61	7.62	8.65	9.70	10.72	11.78		12.93	6 / 4			
reaction time	0.159	interval		1.03	1.02	0.99	1.00	1.01	1.03	1.05	1.02	1.06	1.15	PB		3.04	3.04	3.13
wind	2.0 m/s	velocity	5.06	8.25	8.33	8.59	8.50	8.42	8.25	8.10	8.33	8.02	9.13	7.73		8.39	8.39	8.15

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

date	13-May-18	time	2.50	3.54	4.57	5.53	6.55	7.53	8.53	9.53	10.56	11.56		12.79	4 / 2			
reaction time		interval		1.04	1.03	0.96	1.02	0.98	1.00	1.00	1.03	1.00	1.23	PB		3.03	3.00	3.03
wind	1.2 m/s	velocity	5.20	8.17	8.25	8.85	8.33	8.67	8.50	8.50	8.25	8.50	8.54	7.82		8.42	8.50	8.42

DuPree, Ryanne (USA) (1984)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)***USATF Women's Sprint Development (2003)*

date	22-Jun-03	time	2.69	3.82	4.96	6.04	7.14	8.22	9.33	10.43	11.55	12.65		13.98	2 / 6			
reaction time		interval		1.13	1.14	1.08	1.10	1.08	1.11	1.10	1.12	1.10	1.33			3.35	3.29	3.32
wind	2.3 m/s	velocity	4.83	7.52	7.46	7.87	7.73	7.87	7.66	7.73	7.59	7.73	7.89	7.15		7.61	7.75	7.68

Dutkiewicz, Pamela (GER) (1991)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2019 ISTAF Indoor (Berlin, GER) (TV Analysis)***Henson (2020) - Athlete First: 2019 year end hurdle report*

date	1-Feb-19	time	2.54	3.56	4.56	5.54	6.52							7.89	4 / 1			
reaction time	0.121	interval		1.02	1.00	0.98	0.98						1.37			3.00		
		velocity	5.12	8.33	8.50	8.67	8.67						9.49	7.60		8.50		

FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)*Henson (2021) - Athlete First: 2018 year end hurdle report*

date	08-Sep-18	time	2.52	3.52	4.52	5.52	6.50	7.50	8.50	9.48	10.50	11.56		12.82	2 / 3			
reaction time	0.163	interval		1.00	1.00	1.00	0.98	1.00	1.00	0.98	1.02	1.06	1.26			3.00	2.98	3.06
wind	-0.1 m/s	velocity	5.16	8.50	8.50	8.50	8.67	8.50	8.50	8.67	8.33	8.02	8.33	7.80		8.50	8.56	8.33

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

date	13-Jul-18	time	2.56	3.56	4.58	5.58	6.58	7.56	8.54	9.54	10.56	11.60		12.89	4 / 6			
reaction time	0.168	interval		1.00	1.02	1.00	1.00	0.98	0.98	1.00	1.02	1.04	1.29			3.02	2.96	3.06
wind	0.1 m/s	velocity	5.08	8.50	8.33	8.50	8.50	8.67	8.67	8.50	8.33	8.17	8.14	7.76		8.44	8.61	8.33

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

date	09-Jul-18	time	2.56	3.56	4.54	5.52	6.48	7.48	8.46	9.44	10.48	11.50		12.67	2 / 2			
reaction time		interval		1.00	0.98	0.98	0.96	1.00	0.98	0.98	1.04	1.02	1.17			2.96	2.94	3.04
wind	0.9 m/s	velocity	5.08	8.50	8.67	8.67	8.85	8.50	8.67	8.67	8.17	8.33	8.97	7.89		8.61	8.67	8.39

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

date	12-Aug-17	time	2.46	3.51	4.50	5.48	6.45	7.43	8.42	9.44	10.44	11.47		12.72	5 / 3			
reaction time	0.143	interval		1.05	0.99	0.98	0.97	0.98	0.99	1.02	1.00	1.03	1.25			3.02	2.94	3.05
wind	0.1 m/s	velocity	5.28	8.10	8.59	8.67	8.76	8.67	8.59	8.33	8.50	8.25	8.40	7.86		8.44	8.67	8.36

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

date	11-Aug-17	time	2.48	3.52	4.53	5.51	6.48	7.47	8.46	9.44	10.42	11.45		12.71	4 / 2			
reaction time	0.156	interval		1.04	1.01	0.98	0.97	0.99	0.99	0.98	0.98	1.03	1.26			3.03	2.95	2.99
wind	0.2 m/s	velocity	5.24	8.17	8.42	8.67	8.76	8.59	8.59	8.67	8.67	8.25	8.33	7.87		8.42	8.64	8.53

FINAL - 2017 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	21-Jul-17	time	2.62	3.66	4.66	5.66	6.64	7.62	8.60	9.62	10.64	11.66		12.82	8 / 7			
reaction time	0.149	interval		1.04	1.00	1.00	0.98	0.98	0.98	1.02	1.02	1.02	1.16			3.04	2.94	3.06
wind	-0.2 m/s	velocity	4.96	8.17	8.50	8.50	8.67	8.67	8.67	8.33	8.33	8.33	9.05	7.80		8.39	8.67	8.33

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

date	15-Jun-17	time	2.54	3.54	4.56	5.54	6.52	7.50	8.54	9.52	10.52	11.54		12.73	4 / 1			
reaction time	0.127	interval		1.00	1.02	0.98	0.98	0.98	1.04	0.98	1.00	1.02	1.19			3.00	3.00	3.00

wind 0.8 m/s velocity 5.12 8.50 8.33 8.67 8.67 8.67 8.17 8.67 8.50 8.33 8.82 7.86 8.50 8.50 8.50

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

date 07-Jul-16 time 2.60
 reaction time 0.145 interval
 wind -0.7 m/s velocity 5.00

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Dvoráková, Katerina (CZE) (1997)**FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) *Feher (2015) - Final report the U18 & U20 Czech Republic indoor national championships***

date 14-Feb-15 time 2.81 3.94 5.05 6.15 7.26
 reaction time 0.146 interval 1.13 1.11 1.10 1.11
 velocity 4.63 7.52 7.66 7.73 7.66
 Run-In 1.41
 Official Time 8.67
 Lane / Place 5 / 1
 H1-H4 3.34
 H4-H7 7.63
 H7-H10 7.63

FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm) *Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date 28-Jun-14 time 2.84 3.97 5.08 6.18 7.30 8.40 9.52 10.66 11.80 12.98
 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
 wind -3.6 m/s velocity 4.58 7.52 7.66 7.73 7.59 7.73 7.59 7.46 7.46 7.20 8.33 7.02
 H1-H4 3.34 3.34 3.46
 H4-H7 7.63 7.63 7.37
 H7-H10 7.37

Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm) *Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date 28-Jun-14 time 2.82 3.95 5.03 6.14 7.23 8.31 9.43 10.53 11.65 12.78
 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
 wind -1.8 m/s velocity 4.61 7.52 7.87 7.66 7.80 7.87 7.59 7.73 7.59 7.52 8.33 7.12
 H1-H4 3.32 3.29 3.35
 H4-H7 7.68 7.75 7.61
 H7-H10 7.61

Dyer, Danae (USA) (2000)**Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis) *Henson (2024) - Athlete First: 2024 year end hurdle report***

date 28-Jun-24 time 2.60 3.62 4.64 5.66 6.70 7.70 8.73 9.76 10.76 11.84
 reaction time interval 1.02 1.02 1.02 1.04 1.00 1.03 1.03 1.00 1.08 1.18
 wind 1.7 m/s velocity 5.00 8.33 8.33 8.33 8.17 8.50 8.25 8.25 8.50 7.87 8.52 7.68
 Run-In 1.18
 Official Time 13.02
 Lane / Place 4 / 5
 H1-H4 3.06 3.07 3.11
 H4-H7 8.33 8.31 8.20
 H7-H10 8.20

FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude) *CAA Hurdle Development (2020)*

date 01-Feb-20 time 2.65 3.75 4.77 5.82 6.86
 reaction time interval 1.10 1.02 1.05 1.04
 velocity 4.91 7.73 8.33 8.10 8.17
 Run-In 1.38
 Official Time 8.24
 Lane / Place 5 / 1
 H1-H4 3.17
 H4-H7 7.28
 H7-H10 8.04

Heat 1 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude) *CAA Hurdle Development (2020)*

date 01-Feb-20 time 2.67 3.74 4.80 5.84 6.86
 reaction time interval 1.07 1.06 1.04 1.02
 velocity 4.87 7.94 8.02 8.17 8.33
 Run-In 1.41
 Official Time 8.27
 Lane / Place 5 / 1
 H1-H4 3.17
 H4-H7 7.26
 H7-H10 8.04

Egashira, Ami (JPN) (1999)**Heat 4 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm) *(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en***

date 21-Oct-16 time 2.73 3.82 4.92 6.01 7.09 8.18 9.29 10.42 11.58 12.79
 reaction time interval 1.09 1.10 1.09 1.08 1.09 1.11 1.13 1.16 1.21 1.33
 wind 1.3 m/s velocity 4.76 7.34 7.27 7.34 7.41 7.34 7.21 7.08 6.90 6.61 11.28 7.08
 Run-In 1.33
 Official Time 14.12
 Lane / Place 4 / 2
 H1-H4 3.28 3.28 3.50
 H4-H7 7.32 7.32 6.86
 H7-H10 6.86

Ehrhardt, Anneliese (GDR) (1950)**FINAL - 1973 East German National Championships (Dresden, GDR) *Tepper (1978) - Analyse der Trainingsgestaltung und Leistungsentwicklung in den Sprintdisziplinen der M und F***

date 22-Jul-73 time 2.61 3.66 4.66 5.65 6.64 7.62 8.60 9.58 10.56 11.55
 reaction time interval 1.05 1.00 0.99 0.99 0.98 0.98 0.98 0.98 0.99 1.12
 wind 1.5 m/s velocity 4.98 8.10 8.50 8.59 8.67 8.67 8.67 8.67 8.59 9.38 7.89
 Run-In 1.12
 Official Time 12.67
 Lane / Place / 1
 H1-H4 (12.3) 3.04 2.95 2.95
 H4-H7 WR 8.39 8.64 8.64
 H7-H10 8.64

FINAL - 1972 Olympic Games (Munich, FRG) *Kay (1972) - BAAB Munich Technical Report*

date 08-Sep-72 time 2.5 3.6 4.6 5.6 6.5 7.5 8.5 9.5 10.4 11.5
 reaction time interval 1.10 1.00 1.00 0.90 1.00 1.00 1.00 0.90 1.10 1.09
 wind -0.6 m/s velocity 5.20 7.73 8.50 8.50 9.44 8.50 8.50 8.50 9.44 7.73 9.63 7.94
 Run-In 1.09
 Official Time 12.59
 Lane / Place 6 / 1
 H1-H4 3.10 2.90 3.00
 H4-H7 8.23 8.79 8.50
 H7-H10 8.50

Ellenwood, Georgia (CAN) (1995)**FINAL - 2020 Millrose Games (New York, NY) *PrimeTime Timing (2020) - http://results.nyrrmillrosegames.org/***

date 08-Feb-20 time 2.71 3.82 4.88 5.92 6.97
 reaction time 0.234 interval 1.11 1.06 1.04 1.05
 velocity 4.80 7.66 8.02 8.17 8.10
 Run-In 1.50
 Official Time 8.47
 Lane / Place 2 / 8
 H1-H4 PB 3.21
 H4-H7 8.67 7.08
 H7-H10 7.94

Elloy, Laurence (FRA) (1959)**FINAL - 1986 French National Indoor Championships (Lievin, FRA) *Aubert (1986) - indoor - video - haies, etude des performances***

date 26-Jan-86 time 2.65 3.73 4.76 5.77 6.77
 reaction time interval 1.08 1.03 1.01 1.00
 velocity 4.91 7.87 8.25 8.42 8.50
 Run-In 1.35
 Official Time 8.12
 Lane / Place / 2
 H1-H4 3.12
 H4-H7 9.63 7.39
 H7-H10 8.17

Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA) *Aubert (1986) - indoor - video - haies, etude des performances*

date 25-Jan-86 time 2.68 3.76 4.78 5.78 6.79
 reaction time interval 1.08 1.02 1.00 1.01
 velocity 4.85 7.87 8.33 8.50 8.42
 Run-In 1.36
 Official Time 8.15
 Lane / Place / 2
 H1-H4 3.10
 H4-H7 9.56 7.36
 H7-H10 8.23

Heat ? - 1986 French National Indoor Championships (Lievin, FRA)

date	25-Jan-86	time	2.63	3.70	4.75	5.76	6.80
reaction time		interval	1.07	1.05	1.01	1.04	
		velocity	4.94	7.94	8.10	8.42	8.17

Aubert (1986) - indoor - video - haies, etude des performances

	8.27	/ 2	
	1.47		3.13
	8.84	7.26	8.15

FINAL - 1985 BNP Meeting d'Athlétisme (Paris, FRA)

date	13-Jul-85	time	2.53	3.54	4.52	5.54	6.52	7.48	8.53	9.52	10.51	11.56
reaction time		interval	1.01	0.98	1.02	0.98	0.96	1.05	0.99	0.99	1.05	1.34
wind	2.0 m/s	velocity	5.14	8.42	8.67	8.33	8.67	8.85	8.10	8.59	8.59	8.10

Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes

	12.90	/ 1	
			3.01 2.99 3.03
	7.75		8.47 8.53 8.42

FINAL - 1985 Marseille, FRA

date	19-Jun-85	time	2.51	3.56	4.56	5.55	6.46	7.45	8.40	9.42	10.45	11.53
reaction time		interval	1.05	1.00	0.99	0.91	0.99	0.95	1.02	1.03	1.08	1.36
wind	0.9 m/s	velocity	5.18	8.10	8.50	8.59	9.34	8.59	8.95	8.33	8.25	7.87

Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes

	12.89	/ 1	
			3.04 2.85 3.13
	7.76		8.39 8.95 8.15

FINAL - 1985 Internationales Sportfest (Fürth, FRG)

date	17-Jun-85	time	2.43	3.51	4.43	5.41	6.38	7.33	8.29	9.20	10.27	11.30
reaction time		interval	1.08	0.92	0.98	0.97	0.95	0.96	0.91	1.07	1.03	1.42
wind	2.8 m/s	velocity	5.35	7.87	9.24	8.67	8.76	8.95	8.85	9.34	7.94	8.25

Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes

	12.72	/ 2	
			2.98 2.88 3.01
	7.86		8.56 8.85 8.47

Heat 2 - 1985 Internationales Sportfest (Fürth, FRG)

date	17-Jun-85	time	2.55	3.56	4.54	5.52	6.52	7.51	8.46	9.46	10.46	11.40
reaction time		interval	1.01	0.98	0.98	1.00	0.99	0.95	1.00	1.00	0.94	1.47
wind	2.0 m/s	velocity	5.10	8.42	8.67	8.67	8.50	8.59	8.95	8.50	8.50	9.04

Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes

	12.87	/ 2	
			2.97 2.94 2.94
	7.77		8.59 8.67 8.67

FINAL - 1985 Joinville, FRA

date	12-Jun-85	time	2.44	3.45	4.43	5.41	6.39	7.36	8.36	9.39	10.40	11.42
reaction time		interval	1.01	0.98	0.98	0.98	0.97	1.00	1.03	1.01	1.02	1.37
wind	1.4 m/s	velocity	5.33	8.42	8.67	8.67	8.67	8.76	8.50	8.25	8.42	8.33

Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes

	12.79	/ 1	
			2.97 2.95 3.06
	7.82		8.59 8.64 8.33

Engquist, Ludmila (SWE) (1964)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10		
date	28-Aug-99	time	2.58	3.59	4.57	5.55	6.51	7.45	8.42	9.40	10.38	11.39
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
wind	0.7 m/s	velocity	5.04	8.42	8.67	8.67	8.85	9.04	8.76	8.67	8.67	8.42

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

	12.47	5 / 3	
	NR		2.97 2.87 2.97
	8.02		8.59 8.89 8.59

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

date	27-Aug-99	time	2.53	3.53	4.51	5.48	6.45	7.39	8.34	9.32	10.29	11.30
reaction time	0.135	interval	1.00	0.98	0.97	0.97	0.94	0.95	0.98	0.97	1.01	1.20
wind	1.9 m/s	velocity	5.14	8.50	8.67	8.76	8.76	9.04	8.95	8.67	8.76	8.42

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

	12.50	4 / 1	
			2.95 2.86 2.96
	8.00		8.64 8.92 8.61

Quarter-Final 4 - 1999 IAAF World Championships (Sevilla, ESP)

date	26-Aug-99	time	2.57	3.57	4.57	5.54	6.50	7.47	8.44	9.43	10.44	11.45
reaction time	0.136	interval	1.00	1.00	0.97	0.96	0.97	0.97	0.99	1.01	1.01	1.20
wind	0.7 m/s	velocity	5.06	8.50	8.50	8.76	8.85	8.76	8.76	8.59	8.42	8.42

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

	12.65	3 / 1	
			2.97 2.90 3.01
	7.91		8.59 8.79 8.47

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

date	26-Aug-99	time	2.59	3.60	4.60	5.57	6.56	7.54	8.51	9.50	10.50	11.53
reaction time	0.137	interval	1.01	1.00	0.97	0.99	0.98	0.97	0.99	1.00	1.03	1.09
wind	3.2 m/s	velocity	5.02	8.42	8.50	8.76	8.59	8.67	8.76	8.59	8.50	8.25

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

	12.62	4 / 1	
			2.98 2.94 3.02
	7.92		8.56 8.67 8.44

FINAL - 1997 IAAF World Championships (Athens, GRE)

date	10-Aug-97	time	2.56	3.56	4.56	5.54	6.48	7.46	8.41	9.38	10.36	11.36
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
wind	-0.3 m/s	velocity	5.08	8.50	8.50	8.67	9.04	8.67	8.95	8.76	8.67	8.50

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

	12.50	5 / 1	
			2.98 2.87 2.95
	8.00		8.56 8.89 8.64

FINAL - 1996 Olympic Games (Atlanta, GA)

date	31-Jul-96	time	2.48	3.54	4.50	5.48	6.44	7.41	8.40	9.39	10.37	11.39
reaction time	0.132	interval	1.06	0.96	0.98	0.96	0.97	0.99	0.99	0.98	1.02	1.19
wind	0.2 m/s	velocity	5.24	8.02	8.85	8.67	8.85	8.76	8.59	8.59	8.67	8.33

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

	12.58	6 / 1	
			3.00 2.92 2.99
	7.95		8.50 8.73 8.53

Engquist-Narozhilenko, Ludmila (EUN) (1964)

date	05-Aug-92	time	2.56	3.60	4.61	5.60	6.58	7.58	8.60	9.64	10.71	11.84
reaction time		interval	1.04	1.01	0.99	0.98	1.00	1.02	1.04	1.07	1.13	1.20
wind	-1.5 m/s	velocity	5.08	8.17	8.42	8.59	8.67	8.50	8.33	8.17	7.94	7.52

Lyle - miscellaneous coaching notes

	13.04	1 / 1	
			3.04 3.00 3.24
	7.67		8.39 8.50 7.87

FINAL - 1991 IAAF World Championships (Tokyo, JPN)

date	30-Aug-91	time	2.62	3.62	4.61	5.59	6.56	7.55	8.51	9.50	10.50	11.50
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
wind	-1.7 m/s	velocity	4.96	8.50	8.59	8.67	8.76	8.59	8.85	8.59	8.50	8.50

Numazawa (1991) - analysis of time in the 3rd world athletics championships, women's 100m hurdles

	12.59	4 / 1	
			2.97 2.92 2.99
	7.94		8.59 8.73 8.53

Narozhilenko, Ludmila (URS) (1964)

date	11-Jul-91	time	2.58	3.57	4.54	5.50	6.44	7.38	8.33	9.30	10.28	11.28
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Stepanov (2004) - speed and (or?) technique: gail devers and others (in Jarver (ed) - the hurdles, 2004)

	12.28	/ 1	
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reaction time	interval	0.99	0.97	0.96	0.94	0.94	0.95	0.97	0.98	1.00	1.00	PB	2.92	2.83	2.95		
wind	1.8 m/s	velocity	5.04	8.59	8.76	8.85	9.04	9.04	8.95	8.76	8.67	8.50	10.50	8.14	8.73	9.01	8.64

FINAL - 1991 European Cup (Frankfurt, GER)Graubner (2008) - <http://www.fgs.uni-halle.de>

date	30-Jun-91	time	2.63	3.64	4.63	5.61	6.59	7.55	8.53	9.51	10.49	11.48	12.55	/ 1			
reaction time	interval	1.01	0.99	0.98	0.98	0.96	0.98	0.98	0.98	0.98	0.99	1.07			2.98	2.92	2.95
wind	-2.1 m/s	velocity	4.94	8.42	8.59	8.67	8.67	8.85	8.67	8.67	8.67	8.59	9.81	7.97	8.56	8.73	8.64

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

date	09-Sep-89	time	2.64	3.66	4.66	5.66	6.66	7.66	8.69	9.70	10.72	11.76	12.80	/ 2			
reaction time	interval	1.02	1.00	1.00	1.00	1.00	1.03	1.01	1.02	1.04	1.04				3.02	3.03	3.07
wind	-0.3 m/s	velocity	4.92	8.33	8.50	8.50	8.50	8.50	8.25	8.42	8.33	8.17	10.10	7.81	8.44	8.42	8.31

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)Brüggemann (1990) - *scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	2.67	3.71	4.71	5.70	6.67	7.65	8.63	9.63	10.63	dnf	5 / --				
reaction time	0.163	interval	1.04	1.00	0.99	0.97	0.98	0.98	1.00	1.00					3.03	2.93	
wind	0.4 m/s	velocity	4.87	8.17	8.50	8.59	8.76	8.67	8.67	8.50	8.50				8.42	8.70	

Ennis-Hill, Jessica (GBR) (1986)**FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)**Henson (2020) - *Athlete First: 2016 year end hurdle report*

date	22-Jul-16	time	2.58	3.60	4.62	5.62	6.62	7.64	8.64	9.70	10.80	11.86	13.04	8 / 8			
reaction time	0.155	interval	1.02	1.02	1.00	1.00	1.02	1.00	1.06	1.10	1.06	1.18			3.04	3.02	3.22
wind	0.3 m/s	velocity	5.04	8.33	8.33	8.50	8.50	8.33	8.50	8.02	7.73	8.02	8.90	7.67	8.39	8.44	7.92

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

date	22-Jul-16	time	2.58	3.60	4.60	5.60	6.60	7.60	8.58	9.60	10.60	11.64	12.76	9 / 3			
reaction time	0.152	interval	1.02	1.00	1.00	1.00	1.00	0.98	1.02	1.00	1.04	1.12			3.02	2.98	3.06
wind	0.3 m/s	velocity	5.04	8.33	8.50	8.50	8.50	8.50	8.67	8.33	8.50	8.17	9.38	7.84	8.44	8.56	8.33

Ennis, Jessica (GBR) (1986)**Hepthathlon - Heat 5 - 2012 Olympic Games (London, GBR)**Hollman (2012) - *uka 2012 olympic games report: combined events*

date	03-Aug-12	time	2.66	3.68	4.64	5.62	6.60	7.58	8.54	9.52	10.52	11.54	12.54	8 / 1			
reaction time	0.180	interval	1.02	0.96	0.98	0.98	0.98	0.96	0.98	0.98	1.00	1.02	1.00	NR	2.96	2.92	3.00
wind	1.3 m/s	velocity	4.89	8.33	8.85	8.67	8.67	8.85	8.67	8.50	8.33	10.50	7.97		8.61	8.73	8.50

FINAL - 2012 British National Championships (Birmingham, GBR)Hollman (2012) - *uka 2012 olympic games report: combined events*

date	23-Jun-12	time	2.66	3.68	4.82	5.84	6.83	7.82	8.81	9.80	10.80	11.80	12.92	/ 1			
reaction time	0.217	interval	1.02	1.14	1.02	0.99	0.99	0.99	0.99	1.00	1.00	1.12			3.18	2.97	2.99
wind	0.3 m/s	velocity	4.89	8.33	7.46	8.33	8.59	8.59	8.59	8.59	8.50	8.50	9.38	7.74	8.02	8.59	8.53

Hepthathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)Graubner (2009) - *biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	2.65	3.70	4.72	5.73	6.74	7.74	8.76	9.78	10.82	11.86	12.93	6 / 1			
reaction time	0.155	interval	1.05	1.02	1.01	1.01	1.00	1.02	1.02	1.04	1.04	1.07			3.08	3.03	3.10
wind	-0.4 m/s	velocity	4.91	8.10	8.33	8.42	8.42	8.50	8.33	8.33	8.17	8.17	9.81	7.73	8.28	8.42	8.23

Ennis-London, Delloreen (JAM) (197)**FINAL - 2009 IAAF World Championships (Berlin, GER)**Graubner (2009) - *biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.60	3.60	4.58	5.54	6.50	7.47	8.44	9.43	10.44	11.46	12.55	8 / 3			
reaction time	0.142	interval	1.00	0.98	0.96	0.96	0.97	0.97	0.99	1.01	1.02	1.09			2.94	2.90	3.02
wind	0.2 m/s	velocity	5.00	8.50	8.67	8.85	8.85	8.76	8.76	8.59	8.42	8.33	9.63	7.97	8.67	8.79	8.44

Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)Graubner (2009) - *biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.60	3.60	4.61	5.58	6.56	7.53	8.51	9.50	10.50	11.52	12.64	4 / 2			
reaction time	0.141	interval	1.00	1.01	0.97	0.98	0.97	0.98	0.99	1.00	1.02	1.12			2.98	2.93	3.01
wind	-0.1 m/s	velocity	5.00	8.50	8.42	8.76	8.67	8.76	8.67	8.59	8.50	8.33	9.37	7.91	8.56	8.70	8.47

Heat 1 - 2009 IAAF World Championships (Berlin, GER)Graubner (2009) - *biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	2.62	3.64	4.66	5.65	6.63	7.62	8.60	9.60	10.59	11.62	12.73	3 / 2			
reaction time	0.159	interval	1.02	1.02	0.99	0.98	0.99	0.98	1.00	0.99	1.03	1.11			3.03	2.95	3.02
wind	0.1 m/s	velocity	4.96	8.33	8.33	8.59	8.67	8.59	8.67	8.50	8.59	8.25	9.46	7.86	8.42	8.64	8.44

FINAL - 2009 ISTAF (Berlin, GER)Graubner (2008) - <http://www.fgs.uni-halle.de>

date	14-Jun-09	time	2.62	3.65	4.68	5.67	6.65	7.68	8.67	9.70	10.75	11.83	12.98	/ 2			
reaction time	0.145	interval	1.03	1.03	0.99	0.98	1.03	0.99	1.03	1.05	1.08	1.15			3.05	3.00	3.16
wind	-0.1 m/s	velocity	4.96	8.25	8.25	8.59	8.67	8.25	8.59	8.25	8.10	7.87	9.13	7.70	8.36	8.50	8.07

FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)Graubner (2009) - <http://www.fgs.uni-halle.de>

date	13-Sep-08	time	2.59	3.60	4.60	5.59	6.55	7.52	8.50	9.46	10.45	11.45	12.56	7 / 3-2			
reaction time	0.148	interval	1.01	1.00	0.99	0.96	0.97	0.98	0.96	0.99	1.00	1.11			3.00	2.91	2.95
wind	0.3 m/s	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

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

date	19-Aug-08	time	2.59	3.59	4.62	5.55	6.52	7.52	8.52	9.47	10.48	11.53	12.66	5 / 5			
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

wind	0.1 m/s	velocity	5.02	8.50	8.25	9.14	8.76	8.50	8.50	8.95	8.42	8.10	9.29	7.90	8.61	8.59	8.47	
Semi-Final 1 - 2008 Olympic Games (Beijing, CHN) <i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>																		
date	18-Aug-08	time	2.56	3.58	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	
wind	0.2 m/s	velocity	5.08	8.33	8.67	8.59	8.59	8.95	8.76	8.42	8.33	8.33	9.05	7.89	8.53	8.76	8.36	
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER) <i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																		
date	22-Sep-07	time	2.60	3.63	4.64	5.62	6.60	7.57	8.56	9.56	10.56	11.59	12.72	3 / 3				
reaction time	0.159	interval	1.03	1.01	0.98	0.98	0.97	0.99	1.00	1.00	1.00	1.13			3.02	2.94	3.03	
wind	-0.3 m/s	velocity	5.00	8.25	8.42	8.67	8.67	8.76	8.59	8.50	8.50	8.25	9.29	7.86	8.44	8.67	8.42	
FINAL - 2007 IAAF World Championships (Osaka, JPN) <i>Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data</i>																		
date	29-Aug-07	time	2.42	3.45	4.41	5.38	6.33	7.28	8.27	9.26	10.27	11.25	12.50	3 / 3				
reaction time	0.116	interval	1.03	0.96	0.97	0.95	0.95	0.99	0.99	0.99	1.01	0.98	1.25	PB	2.96	2.89	2.98	
wind	-0.1 m/s	velocity	5.37	8.25	8.85	8.76	8.95	8.95	8.59	8.59	8.42	8.67	8.40	8.00	8.61	8.82	8.56	
FINAL - 2000 ISTAF (Berlin, GER) <i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	01-Sep-00	time	2.60	3.64	4.66	5.66	6.65	7.66	8.66	9.66	10.70	11.74	12.88	1 / 4				
reaction time	0.170	interval	1.04	1.02	1.00	0.99	1.01	1.00	1.00	1.00	1.04	1.04	1.14		3.06	3.00	3.08	
wind	-0.2 m/s	velocity	5.00	8.17	8.33	8.50	8.59	8.42	8.50	8.50	8.17	8.17	9.21	7.76	8.33	8.50	8.28	
FINAL - 1999 IAAF World Championships (Sevilla, ESP) <i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>																		
date	28-Aug-99	time	2.54	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	1.02	1.04	1.08	1.19		2.99	3.01	3.14	
wind	0.7 m/s	velocity	5.12	8.42	8.59	8.59	8.50	8.59	8.33	8.33	8.17	7.87	8.82	7.77	8.53	8.47	8.12	
Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP) <i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>																		
date	27-Aug-99	time	2.52	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	1.00	1.01	1.02	1.02	1.23		2.99	3.02	3.05	
wind	1.9 m/s	velocity	5.16	8.33	8.59	8.67	8.33	8.50	8.50	8.42	8.33	8.33	8.54	7.81	8.53	8.44	8.36	
Eriksson, Malin (SWE) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Windsprint (Sundsvall, SWE) <i>Blomkvist (2012) - www.sub13.se</i>																		
date	17-Jun-12	time	2.78	3.89	4.97	6.06	7.13	8.23	9.34	10.48	11.61	12.77	14.11	1 / 4				
reaction time		interval	1.11	1.08	1.09	1.07	1.10	1.11	1.14	1.13	1.16	1.34			3.28	3.28	3.43	
wind	0.8 m/s	velocity	4.68	7.66	7.87	7.80	7.94	7.73	7.66	7.46	7.52	7.33	7.84	7.09	7.77	7.77	7.43	
Eurenius, Isabelle (SWE) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 Swedish National Championships (Falun, SWE) <i>Blomkvist (2010) - www.sub13.se</i>																		
date	22-Aug-10	time	2.86	3.99	5.11	6.23	7.38	8.53	9.70	10.87	12.11	13.49	14.97	1 / 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	
wind	-0.2 m/s	velocity	4.55	7.52	7.59	7.59	7.39	7.39	7.26	7.26	6.85	6.16	7.09	6.68	7.57	7.35	6.73	
Ewanjé-Épée, Monique (FRA) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1991 European Cup (Frankfurt, GER) <i>Graubner (2008) - http://www.fgs.uni-halle.de</i>																		
date	30-Jun-91	time	2.59	3.64	4.64	5.64	6.64	7.63	8.63	9.62	10.62	11.64	12.79	1 / 2				
reaction time		interval	1.05	1.00	1.00	1.00	0.99	1.00	0.99	1.00	1.02	1.15			3.05	2.99	3.01	
wind	-2.1 m/s	velocity	5.02	8.10	8.50	8.50	8.50	8.59	8.50	8.59	8.50	8.33	9.13	7.82	8.36	8.53	8.47	
FINAL - 1988 Olympic Games (Seoul, KOR) <i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																		
date	30-Sep-88	time	2.61	3.69	4.82	5.84	6.86	7.88	8.90	9.90	10.94	11.98	13.14	7 / 7				
reaction time	0.161	interval	1.08	1.13	1.02	1.02	1.02	1.02	1.00	1.04	1.04	1.16			3.23	3.06	3.08	
wind	0.2 m/s	velocity	4.98	7.87	7.52	8.33	8.33	8.33	8.33	8.50	8.17	8.17	9.05	7.61	7.89	8.33	8.28	
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR) <i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																		
date	29-Sep-88	time	2.67	3.71	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	1.00	1.03	1.01	1.05	1.11	PB	3.08	3.00	3.09	
wind	0.4 m/s	velocity	4.87	8.17	8.17	8.50	8.50	8.50	8.50	8.25	8.42	8.10	9.46	7.72	8.28	8.50	8.25	
FINAL - 1986 French National Indoor Championships (Lievin, FRA) <i>Aubert (1986) - indoor - video - haies, etude des performances</i>																		
date	26-Jan-86	time	2.65	3.76	4.80	5.83	6.84						8.20	1 / 3				
reaction time		interval	1.11	1.04	1.03	1.01						1.36			3.18			
		velocity	4.91	7.66	8.17	8.25	8.42					9.56	7.32		8.02			
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA) <i>Aubert (1986) - indoor - video - haies, etude des performances</i>																		
date	25-Jan-86	time	2.62	3.69	4.73	5.74	6.78						8.19	1 / 3				
reaction time		interval	1.07	1.04	1.01	1.04						1.41			3.12			
		velocity	4.96	7.94	8.17	8.42	8.17					9.22	7.33		8.17			
Heat ? - 1986 French National Indoor Championships (Lievin, FRA) <i>Aubert (1986) - indoor - video - haies, etude des performances</i>																		
date	25-Jan-86	time	2.63	3.70	4.74	5.77	6.78						8.19	1 / 3				
reaction time		interval	1.07	1.04	1.03	1.01						1.41			3.14			

velocity 4.94 7.94 8.17 8.25 8.42 9.22 7.33 8.12

Felicien, Perdita (CAN) (1980)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)																		
<i>Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships</i>																		
date	13-Mar-10	time	2.61	3.63	4.60	5.58	6.57							7.86	3 / 2			
reaction time	0.156	interval		1.02	0.97	0.98	0.99							1.29		2.97		
		velocity	4.98	8.33	8.76	8.67	8.59						10.08	7.63		8.59		
FINAL - 2009 Seiko Super Grand Prix (Kawasaki, JPN)																		
<i>Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season</i>																		
date	23-Sep-09	time	2.44	3.49	4.50	5.49	6.47	7.45	8.42	9.43	10.46	11.48		12.74	/ 1			
reaction time		interval		1.05	1.01	0.99	0.98	0.98	0.97	1.01	1.03	1.02	1.26			3.05	2.93	3.06
wind	0.3 m/s	velocity	5.33	8.10	8.42	8.59	8.67	8.67	8.76	8.42	8.25	8.33	8.33	7.85		8.36	8.70	8.33
FINAL - 2009 IAAF World Athletic Final (Thessaloniki, GRE)																		
<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>																		
date	12-Sep-09	time	2.23	3.26	4.22	5.19	6.15	7.09	8.11	9.10	10.08	11.05		12.61	7 / 5			
reaction time	0.173	interval		1.03	0.96	0.97	0.96	0.94	1.02	0.99	0.98	0.97	1.56			2.96	2.92	2.94
wind	-0.1 m/s	velocity	5.83	8.25	8.85	8.76	8.85	9.04	8.33	8.59	8.67	8.76	6.73	7.93		8.61	8.73	8.67
FINAL - 2009 Weltklasse (Zurich, SUI)																		
<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>																		
date	28-Aug-09	time	2.46	3.50	4.47	5.44	6.37	7.38	8.36	9.32	10.27	11.29		12.61	/ 3			
reaction time	0.159	interval		1.04	0.97	0.97	0.93	1.01	0.98	0.96	0.95	1.02	1.32			2.98	2.92	2.93
wind	-0.4 m/s	velocity	5.28	8.17	8.76	8.76	9.14	8.42	8.67	8.85	8.95	8.33	7.95	7.93		8.56	8.73	8.70
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	19-Aug-09	time	2.62	3.64	4.62	5.60	6.57	7.54	8.51	9.47	10.47	11.50		12.58	4 / 2			
reaction time	0.151	interval		1.02	0.98	0.98	0.97	0.97	0.97	0.96	1.00	1.03	1.08			2.98	2.91	2.99
wind	0.1 m/s	velocity	4.96	8.33	8.67	8.67	8.76	8.76	8.76	8.85	8.50	8.25	9.72	7.95		8.56	8.76	8.53
Heat 5 - 2009 IAAF World Championships (Berlin, GER)																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	18-Aug-09	time	2.67	3.69	4.67	5.67	6.65	7.64	8.62	9.61	10.63	11.66		12.77	3 / 2			
reaction time	0.147	interval		1.02	0.98	1.00	0.98	0.99	0.98	0.99	1.02	1.03	1.11			3.00	2.95	3.04
wind	0.1 m/s	velocity	4.87	8.33	8.67	8.50	8.67	8.59	8.67	8.59	8.33	8.25	9.46	7.83		8.50	8.64	8.39
FINAL - 2009 DN Gala (Stockholm, SWE)																		
<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>																		
date	31-Jul-09	time	2.46	3.50	4.50	5.44	6.38	7.37	8.34	9.32	10.35	11.34		12.65	/ 5			
reaction time		interval		1.04	1.00	0.94	0.94	0.99	0.97	0.98	1.03	0.99	1.31			2.98	2.90	3.00
wind	0.9 m/s	velocity	5.28	8.17	8.50	9.04	9.04	8.59	8.76	8.67	8.25	8.59	8.02	7.91		8.56	8.79	8.50
Heat 1 - 2009 DN Gala (Stockholm, SWE)																		
<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>																		
date	31-Jul-09	time	2.45	3.43	4.39	5.34	6.36	7.34	8.26	9.18	10.18	11.22		12.54	/ 1			
reaction time		interval		0.98	0.96	0.95	1.02	0.98	0.92	0.92	1.00	1.04	1.32			2.89	2.92	2.96
wind	1.8 m/s	velocity	5.31	8.67	8.85	8.95	8.33	8.67	9.24	9.24	8.50	8.17	7.95	7.97		8.82	8.73	8.61
FINAL - 2009 Aviva (London, GBR)																		
<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>																		
date	25-Jul-09	time	2.49	3.52	4.51	5.50	6.43	7.41	8.42	9.45	10.40	11.38		12.66	/ 2			
reaction time	0.128	interval		1.03	0.99	0.99	0.93	0.98	1.01	1.03	0.95	0.98	1.28			3.01	2.92	2.96
wind	-0.7 m/s	velocity	5.22	8.25	8.59	8.59	9.14	8.67	8.42	8.25	8.95	8.67	8.20	7.90		8.47	8.73	8.61
FINAL - 2009 Golden Gala (Rome, ITA)																		
<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>																		
date	10-Jul-09	time	2.34	3.41	4.41	5.38	6.35	7.28	8.28	9.26	10.30	11.29		12.70	/ 4			
reaction time	0.176	interval		1.07	1.00	0.97	0.97	0.93	1.00	0.98	1.04	0.99	1.41			3.04	2.90	3.01
wind	0.4 m/s	velocity	5.56	7.94	8.50	8.76	8.76	9.14	8.50	8.67	8.17	8.59	7.45	7.87		8.39	8.79	8.47
FINAL - 2009 Athletissima (Lausanne, SUI)																		
<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>																		
date	07-Jul-09	time	2.25	3.26	4.28	5.26	6.20	7.20	8.19	9.18	10.22	11.22		12.71	/ 5			
reaction time	0.170	interval		1.01	1.02	0.98	0.94	1.00	0.99	0.99	1.04	1.00	1.49			3.01	2.93	3.03
wind	0.3 m/s	velocity	5.78	8.42	8.33	8.67	9.04	8.50	8.59	8.59	8.17	8.50	7.05	7.87		8.47	8.70	8.42
FINAL - 2009 Bislett Games (Oslo, NOR)																		
<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>																		
date	03-Jul-09	time	2.29	3.29	4.34	5.33	6.29	7.31	8.33	9.28	10.23	11.32		12.85	/ 5			
reaction time	0.226	interval		1.00	1.05	0.99	0.96	1.02	1.02	0.95	0.95	1.09	1.53			3.04	3.00	2.99
wind	-0.8 m/s	velocity	5.68	8.50	8.10	8.59	8.85	8.33	8.33	8.95	8.95	7.80	6.86	7.78		8.39	8.50	8.53
FINAL - 2009 Canadian National Championships (Toronto, CAN)																		
<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>																		
date	27-Jun-09	time	2.68	3.70	4.68	5.66	6.63	7.61	8.61	9.63	10.66	11.68		12.80	/ 1			
reaction time		interval		1.02	0.98	0.98	0.97	0.98	1.00	1.02	1.03	1.02	1.12			2.98	2.95	3.07
wind	-1.4 m/s	velocity	4.85	8.33	8.67	8.67	8.76	8.67	8.50	8.33	8.25	8.33	9.37	7.81		8.56	8.64	8.31
Heat 2 - 2009 Canadian National Championships (Toronto, CAN)																		
<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>																		
date	26-Jun-09	time	2.67	3.69	4.67	5.65	6.62	7.62	8.62	9.62	10.69	11.72		12.89	/ 1			
reaction time		interval		1.02	0.98	0.98	0.97	1.00	1.00	1.00	1.07	1.03	1.17			2.98	2.97	3.10
wind	-2.2 m/s	velocity	4.87	8.33	8.67	8.67	8.76	8.50	8.50	8.50	7.94	8.25	8.97	7.76		8.56	8.59	8.23

FINAL - 2009 Festival of Excellence (Toronto, CAN)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>				
date	11-Jun-09	time	2.56	3.55	4.56	5.55	6.51	7.51	8.50	9.50	10.53	11.61	12.88	/ 2				
reaction time		interval	0.99	1.01	0.99	0.96	1.00	0.99	1.00	1.03	1.08	1.27			2.99	2.95	3.11	
wind	-1.8 m/s	velocity	5.08	8.59	8.42	8.59	8.85	8.50	8.59	8.50	8.25	7.87	8.27	7.76		8.53	8.64	8.20
FINAL - 2009 Prefontaine Classic (Eugene, OR)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>				
date	07-Jun-09	time	2.49	3.50	4.43	5.40	6.40	7.39	8.41	9.38	10.38	11.40	12.78	/ 4				
reaction time		interval	1.01	0.93	0.97	1.00	0.99	1.02	0.97	1.00	1.02	1.38			2.91	3.01	2.99	
wind	1.0 m/s	velocity	5.22	8.42	9.14	8.76	8.50	8.59	8.33	8.76	8.50	8.33	7.61	7.82		8.76	8.47	8.53
FINAL - 2009 adidas Track Classic (Carson, CA)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>				
date	16-May-09	time	2.30	3.31	4.33	5.34	6.29	7.23	8.24	9.21	10.23	11.26	12.83	/ 2				
reaction time		interval	1.01	1.02	1.01	0.95	0.94	1.01	0.97	1.02	1.03	1.57			3.04	2.90	3.02	
wind	-1.1 m/s	velocity	5.65	8.42	8.33	8.42	8.95	9.04	8.42	8.76	8.33	8.25	6.69	7.79		8.39	8.79	8.44
FINAL - 2009 University of Illinois Invitational (Champaign, IL)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>				
date	02-May-09	time	2.71	3.71	4.71	5.70	6.68	7.68	8.70	9.73	10.76	11.83	12.99	/ 1				
reaction time		interval	1.00	1.00	0.99	0.98	1.00	1.02	1.03	1.03	1.07	1.16			2.99	3.00	3.13	
wind	2.1 m/s	velocity	4.80	8.50	8.50	8.59	8.67	8.50	8.33	8.25	8.25	7.94	9.05	7.70		8.53	8.50	8.15
FINAL - 2009 Drake Relays (Des Moines, IA)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>				
date	25-Apr-09	time	2.70	3.70	4.70	5.67	6.64	7.64	8.64	9.67	10.71	11.77	12.88	/ 3				
reaction time		interval	1.00	1.00	0.97	0.97	1.00	1.00	1.03	1.04	1.06	1.11			2.97	2.97	3.13	
wind	3.1 m/s	velocity	4.81	8.50	8.50	8.76	8.76	8.50	8.50	8.25	8.17	8.02	9.46	7.76		8.59	8.59	8.15
FINAL - 2009 Kansas Relays (Lawrence, KS)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>				
date	18-Apr-09	time	2.71	3.76	4.78	5.80	6.81	7.85	8.88	9.95	11.01	12.13	13.38	/ 5				
reaction time		interval	1.05	1.02	1.02	1.01	1.04	1.03	1.07	1.06	1.12	1.25			3.09	3.08	3.25	
wind	-0.2 m/s	velocity	4.80	8.10	8.33	8.33	8.42	8.17	8.25	7.94	8.02	7.59	8.40	7.47		8.25	8.28	7.85
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)														<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>				
date	22-Sep-07	time	2.64	3.67	4.68	5.65	6.63	7.61	8.64	9.66	10.68	11.72	12.83	5 / 4				
reaction time	0.182	interval	1.03	1.01	0.97	0.98	0.98	1.03	1.02	1.02	1.04	1.11			3.01	2.99	3.08	
wind	-0.3 m/s	velocity	4.92	8.25	8.42	8.76	8.67	8.67	8.25	8.33	8.33	8.17	9.46	7.79		8.47	8.53	8.28
FINAL - 2007 IAAF World Championships (Osaka, JPN)														<i>Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data</i>				
date	29-Aug-07	time	2.48	3.45	4.43	5.42	6.36	7.30	8.28	9.25	10.25	11.27	12.49	4 / 2				
reaction time	0.132	interval	0.97	0.98	0.99	0.94	0.94	0.98	0.97	1.00	1.02	1.22			2.94	2.86	2.99	
wind	-0.1 m/s	velocity	5.24	8.76	8.67	8.59	9.04	9.04	8.67	8.76	8.50	8.33	8.61	8.01		8.67	8.92	8.53
Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)														<i>Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles</i>				
date	28-Aug-07	time	2.64	3.66	4.63	5.61	6.56	7.54	8.52	9.52	10.50	11.52	12.61	6 / 2				
reaction time	0.133	interval	1.02	0.97	0.98	0.95	0.98	0.98	1.00	0.98	1.02	1.09			2.97	2.91	3.00	
wind	-0.1 m/s	velocity	4.92	8.33	8.76	8.67	8.95	8.67	8.67	8.50	8.67	8.33	9.63	7.93		8.59	8.76	8.50
Heat 3 - 2007 IAAF World Athletic Championships (Osaka, JPN)														<i>Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles</i>				
date	27-Aug-07	time	2.65	3.67	4.67	5.64	6.61	7.58	8.60	9.62	10.62	11.67	12.73	8 / 1				
reaction time	0.143	interval	1.02	1.00	0.97	0.97	0.97	1.02	1.02	1.00	1.05	1.06			2.99	2.96	3.07	
wind	-0.8 m/s	velocity	4.91	8.33	8.50	8.76	8.76	8.76	8.33	8.33	8.50	8.10	9.91	7.86		8.53	8.61	8.31
FINAL - 2007 Pan American Games (Rio de Janeiro, BRA)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>				
date	25-Jul-07	time	2.62	3.63	4.63	5.62	6.58	7.55	8.52	9.51	10.52	11.54	12.65	/ 2				
reaction time		interval	1.01	1.00	0.99	0.96	0.97	0.97	0.99	1.01	1.02	1.11	CR		3.00	2.90	3.02	
wind	0.0 m/s	velocity	4.96	8.42	8.50	8.59	8.85	8.76	8.76	8.59	8.42	8.33	9.46	7.91		8.50	8.79	8.44
Heat 3 - 2007 Pan American Games (Rio de Janeiro, BRA)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>				
date	24-Jul-07	time	2.62	3.65	4.62	5.58	6.55	7.52	8.50	9.50	10.52	11.56	12.69	/ 1				
reaction time	0.150	interval	1.03	0.97	0.96	0.97	0.97	0.98	1.00	1.02	1.04	1.13			2.96	2.92	3.06	
wind	0.2 m/s	velocity	4.96	8.25	8.76	8.85	8.76	8.76	8.67	8.50	8.33	8.17	9.29	7.88		8.61	8.73	8.33
FINAL - 2007 Canadian National Championships (Windsor, CAN)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>				
date	14-Jul-07	time	2.65	3.65	4.62	5.57	6.52	7.45	8.40	9.40	10.39	11.39	12.50	/ 1				
reaction time		interval	1.00	0.97	0.95	0.95	0.93	0.95	1.00	0.99	1.00	1.11			2.92	2.83	2.99	
wind	4.3 m/s	velocity	4.91	8.50	8.76	8.95	8.95	9.14	8.95	8.50	8.59	8.50	9.46	8.00		8.73	9.01	8.53
FINAL - 2006 Canadian National Championships (Ottawa, CAN)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>				
date	05-Aug-06	time	2.60	3.65	4.62	5.62	6.55	7.60	8.54	9.51	10.52	11.54	12.64	/ 1				
reaction time		interval	1.05	0.97	1.00	0.93	1.05	0.94	0.97	1.01	1.02	1.10			3.02	2.92	3.00	
wind	0.7 m/s	velocity	5.00	8.10	8.76	8.50	9.14	8.10	9.04	8.76	8.42	8.33	9.55	7.91		8.44	8.73	8.50
Semi-Final 1 - 2004 Olympic Games (Athens, GRE)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>				
date	23-Aug-04	time	2.57	3.55	4.54	5.51	6.45	7.42	8.39	9.37	10.37	11.39	12.49	4 / 1				
reaction time	0.171	interval	0.98	0.99	0.97	0.94	0.97	0.97	0.98	1.00	1.02	1.10			2.94	2.88	3.00	

wind	1.7 m/s	velocity	5.06	8.67	8.59	8.76	9.04	8.76	8.76	8.67	8.50	8.33	9.55	8.01	8.67	8.85	8.50
FINAL - 2004 Weltklasse (Zurich, SUI)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	06-Aug-04	time	2.64	3.60	4.60	5.55	6.49	7.49	8.45	9.42	10.42	11.46	12.52	/ 1			
reaction time		interval	0.96	1.00	0.95	0.94	1.00	0.96	0.97	1.00	1.04	1.06			2.91	2.90	3.01
wind	0.0 m/s	velocity	4.92	8.85	8.50	8.95	9.04	8.50	8.85	8.76	8.50	8.17	9.91	7.99	8.76	8.79	8.47

FINAL - 2004 Canadian National Championships (Victoria, CAN)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	10-Jul-04	time	2.58	3.57	4.54	5.49	6.44	7.37	8.36	9.32	10.32	11.34	12.45	/ 1			
reaction time		interval	0.99	0.97	0.95	0.95	0.93	0.99	0.96	1.00	1.02	1.11			2.91	2.87	2.98
wind	2.1 m/s	velocity	5.04	8.59	8.76	8.95	8.95	9.14	8.59	8.85	8.50	8.33	9.46	8.03	8.76	8.89	8.56

Heat 1 - 2004 Canadian National Championships (Victoria, CAN)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	09-Jul-04	time	2.65	3.67	4.65	5.60	6.56	7.54	8.53	9.48	10.48	11.46	12.60	/ 1			
reaction time		interval	1.02	0.98	0.95	0.96	0.98	0.99	0.95	1.00	0.98	1.14			2.95	2.93	2.93
wind	0.9 m/s	velocity	4.91	8.33	8.67	8.95	8.85	8.67	8.59	8.95	8.50	8.67	9.21	7.94	8.64	8.70	8.70

FINAL - 2004 Prefontaine Classic (Eugene, OR)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	19-Jun-04	time	2.59	3.58	4.55	5.51	6.47	7.42	8.39	9.37	10.34	11.37	12.46	/ 1			
reaction time		interval	0.99	0.97	0.96	0.96	0.95	0.97	0.98	0.97	1.03	1.09	NR		2.92	2.88	2.98
wind	0.7 m/s	velocity	5.02	8.59	8.76	8.85	8.85	8.95	8.76	8.67	8.76	8.25	9.63	8.03	8.73	8.85	8.56

FINAL - 2004 Modesto Relays (Modesto, CA)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	08-May-04	time	2.55	3.55	4.53	5.50	6.47	7.44	8.40	9.41	10.41	11.44	12.60	/ 1			
reaction time		interval	1.00	0.98	0.97	0.97	0.97	0.96	1.01	1.00	1.03	1.16			2.95	2.90	3.04
wind	1.2 m/s	velocity	5.10	8.50	8.67	8.76	8.76	8.76	8.85	8.42	8.50	8.25	9.05	7.94	8.64	8.79	8.39

FINAL - 2003 IAAF World Championships (Paris, FRA)														<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>			
date	27-Aug-03	time	2.59	3.60	4.59	5.54	6.51	7.46	8.46	9.44	10.44	11.44	12.53	4 / 1			
reaction time	0.147	interval	1.01	0.99	0.95	0.97	0.95	1.00	0.98	1.00	1.00	1.09	NR		2.95	2.92	2.98
wind	-0.2 m/s	velocity	5.02	8.42	8.59	8.95	8.76	8.95	8.50	8.67	8.50	8.50	9.63	7.98	8.64	8.73	8.56

Feng Yun (CHN) (1976)																	
Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>			
date	27-Aug-99	time	2.52	3.53	4.52	5.53	6.52	7.51	8.53	9.57	10.62	11.68	12.98	5 / 8			
reaction time	0.150	interval	1.01	0.99	1.01	0.99	0.99	1.02	1.04	1.05	1.06	1.30			3.01	3.00	3.15
wind	1.9 m/s	velocity	5.16	8.42	8.59	8.42	8.59	8.59	8.33	8.17	8.10	8.02	8.08	7.70	8.47	8.50	8.10

Ferga, Linda (FRA) (1976)																	
Heat 5 - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>			
date	08-Aug-02	time	2.66	3.70	4.74	5.74	6.76	7.75	8.78	9.80	10.82	11.88	13.03	/ 2			
reaction time	0.179	interval	1.04	1.04	1.00	1.02	0.99	1.03	1.02	1.02	1.06	1.15			3.08	3.04	3.10
wind	1.1 m/s	velocity	4.89	8.17	8.17	8.50	8.33	8.59	8.25	8.33	8.33	8.02	9.13	7.67	8.28	8.39	8.23

FINAL - 2001 European Cup (Bremen, GER)														<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>			
date	24-Jun-01	time	2.69	3.75	4.75	5.80	6.76	7.78	8.80	9.83	10.91	11.94	13.10	/ 2			
reaction time	0.249	interval	1.06	1.00	1.05	0.96	1.02	1.02	1.03	1.08	1.03	1.16			3.11	3.00	3.14
wind	0.6 m/s	velocity	4.83	8.02	8.50	8.10	8.85	8.33	8.33	8.25	7.87	8.25	9.05	7.63	8.20	8.50	8.12

FINAL - 1998 European Championships (Budapest, HUN)														<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>			
date	23-Aug-98	time	2.70	3.71	4.75	5.77	6.78	7.77	8.83	9.87	10.92	11.99	13.22	7 / 8			
reaction time		interval	1.01	1.04	1.02	1.01	0.99	1.06	1.04	1.05	1.07	1.23			3.07	3.06	3.16
wind	1.5 m/s	velocity	4.81	8.42	8.17	8.33	8.42	8.59	8.02	8.17	8.10	7.94	8.54	7.56	8.31	8.33	8.07

Ferguen, Amina (ALG) (1989)																	
FINAL - 2014 Sparkassen Gala (Regensburg, GER)														<i>Buckwitz (2014) - OSP Berlin / DLV frauen hürden report</i>			
date	07-Jun-14	time	2.68	3.74	4.80	5.82	6.86	7.90	8.96	10.02	11.10	12.20	13.47	6 / 4			
reaction time		interval	1.06	1.06	1.02	1.04	1.04	1.06	1.06	1.08	1.10	1.27			3.14	3.14	3.24
wind	0.1 m/s	velocity	4.85	8.02	8.02	8.33	8.17	8.17	8.02	8.02	7.87	7.73	8.27	7.42	8.12	8.12	7.87

Heat 1 - 2014 Sparkassen Gala (Regensburg, GER)														<i>Buckwitz (2014) - OSP Berlin / DLV frauen hürden report</i>			
date	07-Jun-14	time	2.66	3.76	4.84	5.90	6.96	8.04	9.10	10.22	11.28	12.44	13.70	/ 2			
reaction time		interval	1.10	1.08	1.06	1.06	1.08	1.06	1.12	1.06	1.16	1.26			3.24	3.20	3.34
wind	-1.6 m/s	velocity	4.89	7.73	7.87	8.02	8.02	7.87	8.02	7.59	8.02	7.33	8.33	7.30	7.87	7.97	7.63

Fiadanantsoa, Sidonie (MAD) (1999)																	
Repechage 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	08-Aug-24	time	2.47	3.52	4.53	5.53	6.54	7.55	8.57	9.63	10.70	11.81	13.12	7 / 6			
reaction time	0.144	interval	1.05	1.01	1.00	1.01	1.01	1.02	1.06	1.07	1.11	1.31			3.06	3.04	3.24
wind	-0.2 m/s	velocity	5.26	8.10	8.42	8.50	8.42	8.42	8.33	8.02	7.94	7.66	7.67	7.62	8.33	8.39	7.87

Heat 1 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	07-Aug-24	time	2.48	3.52	4.53	5.53	6.52	7.52	8.54	9.58	10.63	11.67	12.92	3 / 5			

reaction time	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
wind	-0.1 m/s	velocity	5.24	8.17	8.42	8.50	8.59	8.50	8.33	8.17	8.10	8.17	8.04	7.74	8.36	8.47	8.15
Fitzgerald, Benita (USA) (1961)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1981 USSR vs. USA (Leningrad, URS)	<i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>																
date	11-Jul-81	time	2.66	3.70	4.71	5.74	6.83	7.90	8.93	9.94	11.02	12.09	13.24	1/3			
reaction time		interval	1.04	1.01	1.03	1.09	1.07	1.03	1.01	1.08	1.07	1.15			3.08	3.19	3.16
wind	0.3 m/s	velocity	4.89	8.17	8.42	8.25	7.80	7.94	8.25	8.42	7.87	7.94	9.13	7.55	8.28	7.99	8.07
Fleischer, Caroline (NOR) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL 2 - 2017 Windsprint (Sundsvall, SWE)	<i>(2017) - www.windsprint/Splittider/</i>																
date	30-Jul-17	time	2.86	4.04	5.21	6.39	7.90	8.82			12.56	13.86	15.42	1/2			
reaction time		interval	1.18	1.17	1.18	1.51	0.92			3.74	1.30	1.56			3.53		
wind	1.0 m/s	velocity	4.55	7.20	7.26	7.20	5.63	9.24			6.82	6.54	6.73	6.49	7.22		
FINAL - 2017 Windsprint (Sundsvall, SWE)	<i>(2017) - www.windsprint/Splittider/</i>																
date	30-Jul-17	time	2.85	4.04	5.22	6.42	7.58	8.80	10.04	11.40	12.70	14.02	15.56	1/2			
reaction time		interval	1.19	1.18	1.20	1.16	1.22	1.24	1.36	1.30	1.32	1.54			3.57	3.62	3.98
wind	0.8 m/s	velocity	4.56	7.14	7.20	7.08	7.33	6.97	6.85	6.25	6.54	6.44	6.82	6.43	7.14	7.04	6.41
Forster, Viktória (SVK) (2002)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat A - 2024 Kamila Skolimowska Memorial (Silesia, POL)	<i>Omega Timing (2024) - diamond league race analysis</i>																
date	25-Aug-24	time	2.47	3.56	4.63	5.68	6.69	7.73	8.76	9.82	10.88	11.94	13.26	2/8			
reaction time	0.150	interval	1.09	1.07	1.05	1.01	1.04	1.03	1.06	1.06	1.06	1.32			3.21	3.08	3.18
wind	-0.3 m/s	velocity	5.26	7.80	7.94	8.10	8.42	8.17	8.25	8.02	8.02	8.02	7.61	7.54	7.94	8.28	8.02
Repechage 1 - 2024 Olympic Games (Paris, FRA)	<i>Paris 2024 Olympic Games - Results Book (2024)</i>																
date	08-Aug-24	time	2.46	3.53	4.56	5.57	6.57	7.57	8.56	9.58	10.59	11.62	12.88	2/3			
reaction time	0.156	interval	1.07	1.03	1.01	1.00	1.00	0.99	1.02	1.01	1.03	1.26			3.11	2.99	3.06
wind	0.1 m/s	velocity	5.28	7.94	8.25	8.42	8.50	8.50	8.59	8.33	8.42	8.25	7.98	7.76	8.20	8.53	8.33
Heat 5 - 2024 Olympic Games (Paris, FRA)	<i>Paris 2024 Olympic Games - Results Book (2024)</i>																
date	07-Aug-24	time	2.48	3.57	4.60	5.62	6.63	7.65	8.67	9.70	10.73	11.79	13.08	7/6			
reaction time	0.156	interval	1.09	1.03	1.02	1.01	1.02	1.02	1.03	1.03	1.06	1.29			3.14	3.05	3.12
wind	-0.6 m/s	velocity	5.24	7.80	8.25	8.33	8.42	8.33	8.33	8.25	8.25	8.02	7.79	7.65	8.12	8.36	8.17
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)	<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																
date	08-Jun-24	time	2.66	3.73	4.76	5.76	6.74	7.73	8.86	9.90	10.95	12.06	13.25	2/8			
reaction time	0.173	interval	1.07	1.03	1.00	0.98	0.99	1.13	1.04	1.05	1.11	1.19			3.10	3.10	3.20
wind	0.8 m/s	velocity	4.89	7.94	8.25	8.50	8.67	8.59	7.52	8.17	8.10	7.66	8.45	7.55	8.23	8.23	7.97
Heat 3 - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)	<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>																
date	03-Mar-24	time	2.60	3.70	4.70	5.74	6.76						8.10	4/4			
reaction time	0.145	interval	1.10	1.00	1.04	1.02						1.34			3.14		
		velocity	5.00	7.73	8.50	8.17	8.33					9.70	7.41		8.12		
Foster, Ebony (USA) (1983)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2006 USATF National Championships (Indianapolis, IN)	<i>USATF Women's Hurdle Development (2006)</i>																
date	24-Jun-06	time	2.65	3.74	4.77	5.81	6.79	7.77	8.81	9.84	10.86	11.95	13.12	1/8			
reaction time		interval	1.09	1.03	1.04	0.98	0.98	1.04	1.03	1.02	1.09	1.17			3.16	3.00	3.14
wind	-0.4 m/s	velocity	4.91	7.80	8.25	8.17	8.67	8.67	8.17	8.25	8.33	7.80	8.97	7.62	8.07	8.50	8.12
Foster-Hylton, Brigitte (JAM) (1974)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2009 IAAF World Championships (Berlin, GER)	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																
date	19-Aug-09	time	2.60	3.60	4.59	5.56	6.51	7.46	8.43	9.41	10.39	11.40	12.51	4/1			
reaction time	0.157	interval	1.00	0.99	0.97	0.95	0.95	0.97	0.98	0.98	1.01	1.11			2.96	2.87	2.97
wind	0.2 m/s	velocity	5.00	8.50	8.59	8.76	8.95	8.95	8.76	8.67	8.67	8.42	9.46	7.99	8.61	8.89	8.59
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																
date	19-Aug-09	time	2.58	3.60	4.59	5.56	6.52	7.48	8.44	9.44	10.44	11.46	12.54	5/1			
reaction time	0.108	interval	1.02	0.99	0.97	0.96	0.96	0.96	1.00	1.00	1.02	1.08			2.98	2.88	3.02
wind	0.1 m/s	velocity	5.04	8.33	8.59	8.76	8.85	8.85	8.85	8.50	8.50	8.33	9.72	7.97	8.56	8.85	8.44
Heat 5 - 2009 IAAF World Championships (Berlin, GER)	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																
date	18-Aug-09	time	2.58	3.59	4.57	5.53	6.49	7.46	8.43	9.43	10.45	11.51	12.67	5/1			
reaction time	0.134	interval	1.01	0.98	0.96	0.96	0.97	0.97	1.00	1.02	1.06	1.16			2.95	2.90	3.08
wind	0.1 m/s	velocity	5.04	8.42	8.67	8.85	8.85	8.76	8.76	8.50	8.33	8.02	9.05	7.89	8.64	8.79	8.28
FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																
date	13-Sep-08	time	2.63	3.66	4.65	5.63	6.62	7.60	8.58	9.58	10.61	11.63	12.76	3/5-4			
reaction time	0.137	interval	1.03	0.99	0.98	0.99	0.98	0.98	1.00	1.03	1.02	1.13			3.00	2.95	3.05
wind	0.3 m/s	velocity	4.94	8.25	8.59	8.67	8.59	8.67	8.67	8.50	8.25	8.33	9.29	7.84	8.50	8.64	8.36

FINAL - 2008 Olympic Games (Beijing, CHN)

date	19-Aug-08	time	2.61	3.63	4.63	5.61	6.59	7.54	8.54	9.52	10.53	11.56	12.66	9 / 6			
reaction time	0.167	interval		1.02	1.00	0.98	0.98	0.95	1.00	0.98	1.01	1.03	1.10		3.00	2.93	3.02
wind	0.1 m/s	velocity	4.98	8.33	8.50	8.67	8.67	8.95	8.50	8.67	8.42	8.25	9.55	7.90	8.50	8.70	8.44

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

date	18-Aug-08	time	2.61	3.65	4.66	5.66	6.61	7.59	8.59	9.60	10.62	11.66	12.76	4 / 3			
reaction time	0.162	interval		1.04	1.01	1.00	0.95	0.98	1.00	1.01	1.02	1.04	1.10		3.05	2.93	3.07
wind	0.2 m/s	velocity	4.98	8.17	8.42	8.50	8.95	8.67	8.50	8.42	8.33	8.17	9.55	7.84	8.36	8.70	8.31

*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance***FINAL - 2002 IAAF World Cup (Madrid, ESP)**

date	21-Sep-02	time	2.49	3.49	4.50	5.49	6.49	7.49	8.49	9.50	10.54	11.60	12.82	9 / 2			
reaction time	0.144	interval		1.00	1.01	0.99	1.00	1.00	1.00	1.01	1.04	1.06	1.22		3.00	3.00	3.11
wind	1.5 m/s	velocity	5.22	8.50	8.42	8.59	8.50	8.50	8.50	8.42	8.17	8.02	8.61	7.80	8.50	8.50	8.20

*Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas***Fountain, Hyleas (USA) (1981)**

date	23-Sep-09	time	2.48	3.55	4.57	5.59	6.61	7.63	8.67	9.71	10.77	11.84	13.15	1 / 2			
reaction time		interval		1.07	1.02	1.02	1.02	1.02	1.04	1.04	1.06	1.07	1.31		3.11	3.08	3.17
wind	0.3 m/s	velocity	5.24	7.94	8.33	8.33	8.33	8.33	8.17	8.17	8.02	7.94	8.02	7.60	8.20	8.28	8.04

*Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season***FINAL - 2008 Seiko Super Grand Prix (Kawasaki, JPN)**

date	23-Sep-08	time	2.45	3.52	4.54	5.57	6.59	7.62	8.67	9.73	10.80	11.89	13.22	1 / 3			
reaction time		interval		1.07	1.02	1.03	1.02	1.03	1.05	1.06	1.07	1.09	1.33		3.12	3.10	3.22
wind	0.1 m/s	velocity	5.31	7.94	8.33	8.25	8.33	8.25	8.10	8.02	7.94	7.80	7.89	7.56	8.17	8.23	7.92

*Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles***Fourie, Marione (RSA) (2002)**

date	09-Aug-24	time	2.44	3.49	4.50	5.48	6.47	7.44	8.42	9.43	10.48	11.64	13.01	9 / 6			
reaction time	0.140	interval		1.05	1.01	0.98	0.99	0.97	0.98	1.01	1.05	1.16	1.37		3.04	2.94	3.22
wind	-0.7 m/s	velocity	5.33	8.10	8.42	8.67	8.59	8.76	8.67	8.42	8.10	7.33	7.34	7.69	8.39	8.67	7.92

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

date	08-Aug-24	time	2.44	3.49	4.51	5.50	6.49	7.49	8.49	9.49	10.51	11.54	12.79	4 / 1			
reaction time	0.154	interval		1.05	1.02	0.99	0.99	1.00	1.00	1.00	1.02	1.03	1.25		3.06	2.99	3.05
wind	0.1 m/s	velocity	5.33	8.10	8.33	8.59	8.59	8.50	8.50	8.50	8.33	8.25	8.04	7.82	8.33	8.53	8.36

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

date	07-Aug-24	time	2.48	3.55	4.58	5.59	6.59	7.58	8.57	9.57	10.59	11.62	12.91	4 / 4			
reaction time	0.157	interval		1.07	1.03	1.01	1.00	0.99	0.99	1.00	1.02	1.03	1.29		3.11	2.98	3.05
wind	0.0 m/s	velocity	5.24	7.94	8.25	8.42	8.50	8.59	8.59	8.50	8.33	8.25	7.79	7.75	8.20	8.56	8.36

*Paris 2024 Olympic Games - Results Book (2024)***A FINAL - 2024 Resisprint International (La Chaux-de-Fonds, SUI) (TV Analysis)**

date	14-Jul-24	time	2.56	3.60	4.58	5.58	6.56	7.53	8.48	9.45	10.43	11.43	12.50	3 / 3			
reaction time		interval		1.04	0.98	1.00	0.98	0.97	0.95	0.97	0.98	1.00	1.07		3.02	2.90	2.95
wind	1.6 m/s	velocity	5.08	8.17	8.67	8.50	8.67	8.76	8.95	8.76	8.67	8.50	9.39	8.00	8.44	8.79	8.64

*Henson (2024) - Athlete First: 2024 year end hurdle report***FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis)**

date	07-Jul-24	time	2.55	3.55	4.53	5.48	6.45	7.42	8.37	9.35	10.34	11.36	12.49	7 / 3			
reaction time	0.163	interval		1.00	0.98	0.95	0.97	0.97	0.95	0.98	0.99	1.02	1.13	NR PB	2.93	2.89	2.99
wind	1.6 m/s	velocity	5.10	8.50	8.67	8.95	8.76	8.76	8.95	8.67	8.59	8.33	8.89	8.01	8.70	8.82	8.53

*Henson (2024) - Athlete First: 2024 year end hurdle report***Heat 2 - 2024 FBK Games (Hengelo, NED)**

date	07-Jul-24	time	2.39	3.46	4.45	5.41	6.39	7.38	8.38	9.36	10.36	11.37	12.60	4 / 1			
reaction time	0.140	interval		1.07	0.99	0.96	0.98	0.99	1.00	0.98	1.00	1.01	1.23		3.02	2.97	2.99
wind	0.3 m/s	velocity	5.44	7.94	8.59	8.85	8.67	8.59	8.50	8.67	8.50	8.42	8.17	7.94	8.44	8.59	8.53

*Omega Timing (2024) - continental tour gold race analysis***Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)**

date	23-Aug-23	time	2.60	3.62	4.64	5.64	6.64	7.62	8.64	9.64	10.67	11.74	12.89	8 / 6			
reaction time	0.158	interval		1.02	1.02	1.00	1.00	0.98	1.02	1.00	1.03	1.07	1.15		3.04	3.00	3.10
wind	-0.4 m/s	velocity	5.00	8.33	8.33	8.50	8.50	8.67	8.33	8.50	8.25	7.94	8.74	7.76	8.39	8.50	8.23

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

date	22-Aug-23	time	2.56	3.57	4.58	5.56	6.56	7.55	8.53	9.53	10.53	11.56	12.71	2 / 3			
reaction time	0.164	interval		1.01	1.01	0.98	1.00	0.99	0.98	1.00	1.00	1.03	1.15		3.00	2.97	3.03
wind	0.0 m/s	velocity	5.08	8.42	8.42	8.67	8.50	8.59	8.67	8.50	8.50	8.25	8.74	7.87	8.50	8.59	8.42

*Henson (2023) - Athlete First: 2023 year end hurdle report***FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)**

date	16-Jul-23	time	2.44	3.49	4.51	5.50	6.47	7.45	8.43	9.43	10.44	11.47	12.73	1 / 9			
reaction time	0.148	interval		1.05	1.02	0.99	0.97	0.98	0.98	1.00	1.01	1.03	1.26		3.06	2.93	3.04
wind	0.9 m/s	velocity	5.33	8.10	8.33	8.59	8.76	8.67	8.67	8.50	8.42	8.25	7.98	7.86	8.33	8.70	8.39

*Omega Timing (2023) - diamond league race analysis***FINAL - 2023 FBK Games (Hengelo, NED)***Omega Timing (2023) - continental tour race analysis*

date	04-Jun-23	time	2.43	3.48	4.50	5.50	6.49	7.50	8.50	9.52	10.54	11.57		12.86	8 / 4			
reaction time	0.143	interval		1.05	1.02	1.00	0.99	1.01	1.00	1.02	1.02	1.03	1.29	=PB		3.07	3.00	3.07
wind	0.2 m/s	velocity	5.35	8.10	8.33	8.50	8.59	8.42	8.50	8.33	8.33	8.25	7.79	7.78		8.31	8.50	8.31
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	24-Jul-22	time	2.50	3.54	4.62	5.62	6.60	7.58	8.58	9.62	10.64	11.68		12.93	7 / 5			
reaction time	0.128	interval		1.04	1.08	1.00	0.98	0.98	1.00	1.04	1.02	1.04	1.25	PB		3.12	2.96	3.10
wind	-0.1 m/s	velocity	5.20	8.17	7.87	8.50	8.67	8.67	8.50	8.17	8.33	8.17	8.04	7.73		8.17	8.61	8.23
Heat 5 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	23-Jul-22	time	2.56	3.63	4.66	5.66	6.66	7.66	8.66	9.68	10.72	11.74		12.94	6 / 3			
reaction time	0.140	interval		1.07	1.03	1.00	1.00	1.00	1.00	1.02	1.04	1.02	1.20			3.10	3.00	3.08
wind	0.5 m/s	velocity	5.08	7.94	8.25	8.50	8.50	8.50	8.50	8.33	8.17	8.33	8.38	7.73		8.23	8.50	8.28
Fraguas, Raquel (ESP) (1976)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)														<i>Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas</i>				
date	01-Aug-98	time	2.65	3.74	4.83	5.95	7.05	8.18	9.36	10.51	11.65	12.85		14.15	6 / 5			
reaction time		interval		1.09	1.09	1.12	1.10	1.13	1.18	1.15	1.14	1.20	1.30			3.30	3.41	3.49
wind	0.0 m/s	velocity	4.91	7.80	7.80	7.59	7.73	7.52	7.20	7.39	7.46	7.08	8.08	7.07		7.73	7.48	7.31
Freeman, Michelle (JAM) (1969)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1997 IAAF World Championships (Athens, GRE)														<i>Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>				
date	10-Aug-97	time	2.52	3.53	4.52	5.48	6.46	7.43	8.42	9.42	10.43	11.57	12.73		12.61	4 / 3		
reaction time	0.145	interval		1.01	0.99	0.96	0.98	0.97	0.99	1.00	1.02	1.04	1.13			2.96	2.94	3.06
wind	-0.3 m/s	velocity	5.16	8.42	8.59	8.85	8.67	8.76	8.59	8.50	8.33	8.17	9.29	7.93		8.61	8.67	8.33
FINAL - 1996 Olympic Games (Atlanta, GA)														<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>				
date	31-Jul-96	time	2.44	3.46	4.44	5.44	6.40	7.39	8.38	9.42	10.45	11.49		12.76	4 / 6			
reaction time	0.181	interval		1.02	0.98	1.00	0.96	0.99	0.99	1.04	1.03	1.04	1.27			3.00	2.94	3.11
wind	0.2 m/s	velocity	5.33	8.33	8.67	8.50	8.85	8.59	8.59	8.17	8.25	8.17	8.27	7.84		8.50	8.67	8.20
Fujimori, Kanna (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Japanese National High School Championships (Okayama, CHN)														<i>Kota (2016) - 69th high school championships: JAF scientific committee- biomechanics data</i>				
date	02-Aug-16	time	2.71	3.81	4.90	6.01	7.10	8.18	9.31	10.43	11.57	12.73		13.98	9 / 8			
reaction time	0.142	interval		1.10	1.09	1.11	1.09	1.08	1.13	1.12	1.14	1.16	1.25	=PB		3.30	3.30	3.42
wind	1.5 m/s	velocity	4.80	7.73	7.80	7.66	7.80	7.87	7.52	7.59	7.46	7.33	8.40	7.15		7.73	7.73	7.46
Fujimori, Nana (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)														<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>				
date	29-Apr-22	time	2.72	3.81	4.87	5.93	6.98	8.04	9.13	10.26	11.37	12.50		13.65	6 / 2			
reaction time	0.164	interval		1.09	1.06	1.06	1.05	1.06	1.09	1.13	1.11	1.13	1.15			3.21	3.20	3.37
wind	0.3 m/s	velocity	4.78	7.80	8.02	8.02	8.10	8.02	7.80	7.52	7.66	7.52	8.74	7.33		7.94	7.97	7.57
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)														<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>				
date	24-Oct-20	time	2.71	3.81	4.89	5.94	7.03	8.10	9.21	10.31	11.43	12.54		13.42	2 / 2			
reaction time		interval		1.10	1.08	1.05	1.09	1.07	1.11	1.10	1.12	1.11	0.88			3.23	3.27	3.33
wind	-1.4 m/s	velocity	4.80	7.73	7.87	8.10	7.80	7.94	7.66	7.73	7.59	7.66	11.42	7.45		7.89	7.80	7.66
FINAL - 2020 Japanese National Championships (Niigata, JPN)														<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>				
date	03-Oct-20	time	2.68	3.75	4.77	5.82	6.84	7.90	8.94	10.02	11.10	12.22		13.33	5 / 3			
reaction time	0.140	interval		1.07	1.02	1.05	1.02	1.06	1.04	1.08	1.08	1.12	1.11			3.14	3.12	3.28
wind	-0.1 m/s	velocity	4.85	7.94	8.33	8.10	8.33	8.02	8.17	7.87	7.87	7.59	9.05	7.50		8.12	8.17	7.77
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)														<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>				
date	20-Sep-20	time	2.69	3.76	4.81	5.84	6.89	7.95	9.00	10.08	11.17	12.29		13.43	4 / 4			
reaction time	0.131	interval		1.07	1.05	1.03	1.05	1.06	1.05	1.08	1.09	1.12	1.14			3.15	3.16	3.29
wind	0.0 m/s	velocity	4.83	7.94	8.10	8.25	8.10	8.02	8.10	7.87	7.80	7.59	8.82	7.45		8.10	8.07	7.75
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)														<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>				
date	23-Aug-20	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		
wind	0.3 m/s	velocity	4.78	7.94	8.17	8.17	8.10	7.80						7.13		8.10		
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)														<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>				
date	01-Sep-19	time	2.70	3.77	4.81	5.85	6.88	7.94	9.00	10.07	11.15	12.25		13.40	7 / 6			
reaction time		interval		1.07	1.04	1.04	1.03	1.06	1.06	1.07	1.08	1.10	1.15			3.15	3.15	3.25
wind	1.2 m/s	velocity	4.81	7.94	8.17	8.17	8.25	8.02	8.02	7.94	7.87	7.73	9.13	7.46		8.10	8.10	7.85
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)														<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>				
date	29-Jun-19	time	2.71	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
wind	0.6 m/s	velocity	4.80	8.02	8.10	8.25	8.10	8.17	7.94	7.94	7.87	7.66	9.21	7.46		8.12	8.07	7.82

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

date	06-May-19	time	2.69	3.77	4.83	5.88	6.93	7.97	9.03	10.08	11.14	12.26	13.39	2 / 6			
reaction time		interval		1.08	1.06	1.05	1.05	1.04	1.06	1.05	1.06	1.12	1.13	PB	3.19	3.15	3.23
wind	0.6 m/s	velocity	4.83	7.87	8.02	8.10	8.10	8.17	8.02	8.10	8.02	7.59	9.29	7.47	7.99	8.10	7.89

A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)*Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

date	28-Apr-19	time	2.69	3.78	4.84	5.89	6.94	7.97	9.05	10.12	11.22	12.34	13.49	8 / 5			
reaction time		interval		1.09	1.06	1.05	1.05	1.03	1.08	1.07	1.10	1.12	1.15	PB	3.20	3.16	3.29
wind	0.6 m/s	velocity	4.83	7.80	8.02	8.10	8.10	8.25	7.87	7.94	7.73	7.59	9.13	7.41	7.97	8.07	7.75

FINAL - 2018 Fuse Sprint (Tottori, JPN)*Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	03-Jun-18	time	2.68	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
wind	0.6 m/s	velocity	4.85	7.80	7.94	8.02	8.10	7.87	7.94	7.73	7.66	7.52	8.61	7.32	7.92	7.97	7.63

FINAL - 2017 Fuse Sprint (Tottori, JPN)*(2017) - tfdata-store.com/2017/06/04/post-848/*

date	04-Jun-17	time	2.74	3.81	4.89	5.95	6.99	8.04	9.11	10.18	11.27	12.40	13.59	9 / 5			
reaction time		interval		1.07	1.08	1.06	1.04	1.05	1.07	1.07	1.09	1.13	1.19		3.21	3.16	3.29
wind	3.7 m/s	velocity	4.74	7.94	7.87	8.02	8.17	8.10	7.94	7.94	7.80	7.52	8.82	7.36	7.94	8.07	7.75

Heat 3 - 2017 Fuse Sprint (Tottori, JPN)*(2017) - tfdata-store.com/2017/06/04/post-848/*

date	04-Jun-17	time	2.75	3.85	4.94	6.01	7.09	8.19	9.29	10.41	11.56	12.69	13.89	2 / 5			
reaction time		interval		1.10	1.09	1.07	1.08	1.10	1.10	1.12	1.15	1.13	1.20		3.26	3.28	3.40
wind	1.3 m/s	velocity	4.73	7.73	7.80	7.94	7.87	7.73	7.73	7.59	7.39	7.52	8.75	7.20	7.82	7.77	7.50

Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)*(2017) - tfdata-store.com/2017/05/08/post-413/*

date	07-May-17	time	2.71	3.82	4.89	5.95	7.02	8.09	9.19	10.29	11.40	12.53	13.73	8 / 5			
reaction time		interval		1.11	1.07	1.06	1.07	1.07	1.10	1.10	1.11	1.13	1.20		3.24	3.24	3.34
wind	-0.2 m/s	velocity	4.80	7.66	7.94	8.02	7.94	7.94	7.73	7.73	7.66	7.52	8.75	7.28	7.87	7.87	7.63

FINAL - 2017 Michitaka Memorial (Osaka, JPN)*(2017) - tfdata-store.com/2017/05/08/post-413/*

date	07-May-17	time	2.77	3.87	4.97	6.04	7.12	8.21	9.30	10.41	11.53	12.69	13.96	1 / 6			
reaction time		interval		1.10	1.10	1.07	1.08	1.09	1.09	1.11	1.12	1.16	1.27		3.27	3.26	3.39
wind	-0.6 m/s	velocity	4.69	7.73	7.73	7.94	7.87	7.80	7.80	7.66	7.59	7.33	8.27	7.16	7.80	7.82	7.52

Semi-Final 2 - 2016 Japanese National Junior Championships (Mizuho, JPN)*(2016.10.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.69	3.77	4.84	5.91	6.99	8.08	9.16	10.25	11.36	12.51	13.72	4 / 1			
reaction time		interval		1.08	1.07	1.07	1.08	1.09	1.08	1.09	1.11	1.15	1.21		3.22	3.25	3.35
wind	1.0 m/s	velocity	4.83	7.87	7.94	7.94	7.87	7.80	7.87	7.80	7.66	7.39	8.68	7.29	7.92	7.85	7.61

Heat 1 - 2016 Japanese National Junior Championships (Mizuho, JPN)*(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.76	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
wind	1.7 m/s	velocity	4.71	7.80	7.87	8.02	7.94	7.87	7.87	7.73	7.52	7.52	8.47	7.24	7.89	7.89	7.59

FINAL - 2016 Kanto Student Championships (Sagamihara, JPN)*(2016.09.17) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	17-Sep-16	time	2.71	3.81	4.88	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
wind	3.2 m/s	velocity	4.80	7.73	7.94	8.02	8.10	8.02	7.94	7.73	7.73	7.73	8.61	7.33	7.89	8.02	7.73

FINAL - 2014 Japanese National High School Championships (Kofu, JPN)*Yanagiya (2014) - research on athlete performance and technique- 2014 data book*

date	03-Aug-14	time	2.70	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
wind	-0.9 m/s	velocity	4.81	7.52	7.87	8.02	7.87	7.94	7.80	7.66	7.46	7.39	8.27	7.20	7.80	7.87	7.50

Fujimori, Shiori (JPN)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 1 - 2016 Japanese National Junior Championships (Mizuho, JPN)***(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.72	3.92	5.05	6.16	7.28	8.40	9.52	10.63	11.78	12.94	14.18	7 / 3			
reaction time		interval		1.20	1.13	1.11	1.12	1.12	1.12	1.11	1.15	1.16	1.24		3.44	3.36	3.42
wind	1.7 m/s	velocity	4.78	7.08	7.52	7.66	7.59	7.59	7.59	7.66	7.39	7.33	8.47	7.05	7.41	7.59	7.46

Fujiwara, Karen (JPN) (2004)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2022 Japanese National High School Championships (Naruto, JPN)***Kishima (2022) - national high school championships biomechanics data collection*

date	07-Aug-22	time	2.69	3.79	4.88	5.97	7.07	8.15	9.25	10.37	11.52	12.69	14.00	3 / 5			
reaction time	0.173	interval		1.10	1.09	1.09	1.10	1.08	1.10	1.12	1.15	1.17	1.31		3.28	3.28	3.44
wind	-1.5 m/s	velocity	4.83	7.73	7.80	7.80	7.73	7.87	7.73	7.59	7.39	7.26	7.67	7.14	7.77	7.77	7.41

FiNAL - 2021 Japanese High School National Championships (Fukui, JPN)*Shibayama (2021) - national high school and U20 national championships*

date	01-Aug-21	time	2.67	3.76	4.85	5.91	6.99	8.05	9.12	10.20	11.30	12.41	13.66	3 / 4			
reaction time	0.185	interval		1.09	1.09	1.06	1.08	1.06	1.07	1.08	1.10	1.11	1.25		3.24	3.21	3.29
wind	1.8 m/s	velocity	4.87	7.80	7.80	8.02	7.87	8.02	7.94	7.87	7.73	7.66	8.04	7.32	7.87	7.94	7.75

FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	26-Jun-21	time	2.66	3.78	4.86	5.92	6.99	8.06	9.13	10.26	11.39	12.53		13.83	4 / 3			
reaction time	0.177	interval		1.12	1.08	1.06	1.07	1.07	1.07	1.13	1.13	1.14	1.30	PB		3.26	3.21	3.40
wind	0.2 m/s	velocity	4.89	7.59	7.87	8.02	7.94	7.94	7.94	7.52	7.52	7.46	7.73	7.23		7.82	7.94	7.50
U18 FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (76cm)			<i>Enomoto (2019) - research on athlete performance and technique- 2019 data book</i>															
date	06-Oct-19	time	2.63	3.73	4.81	5.89	6.96	8.03	9.13	10.23	11.35	12.48		13.81	5 / 3			
reaction time	0.147	interval		1.10	1.08	1.08	1.07	1.07	1.10	1.10	1.12	1.13	1.33			3.26	3.24	3.35
wind	1.6 m/s	velocity	4.94	7.73	7.87	7.87	7.94	7.94	7.73	7.73	7.59	7.52	7.89	7.24		7.82	7.87	7.61
Fujiwara, Miku (JPN) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese National Championships (Osaka, JPN)			<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>															
date	27-Jun-21	time	2.67	3.74	4.82	5.88	6.94	8.00	9.07	10.15	11.24	12.36		13.58	2 / 7			
reaction time	0.140	interval		1.07	1.08	1.06	1.06	1.06	1.07	1.08	1.09	1.12	1.22			3.21	3.19	3.29
wind	0.0 m/s	velocity	4.87	7.94	7.87	8.02	8.02	8.02	7.94	7.87	7.80	7.59	8.24	7.36		7.94	7.99	7.75
FINAL - 2021 Fuse Sprint (Tottori, JPN)			<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>															
date	06-Jun-21	time	2.64	3.68	4.73	5.74	6.77	7.80	8.83	9.88	10.95	12.05		13.26	2 / 7			
reaction time	0.134	interval		1.04	1.05	1.01	1.03	1.03	1.03	1.05	1.07	1.10	1.21			3.10	3.09	3.22
wind	1.8 m/s	velocity	4.92	8.17	8.10	8.42	8.25	8.25	8.25	8.10	7.94	7.73	8.31	7.54		8.23	8.25	7.92
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)			<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>															
date	01-Jun-21	time	2.67	3.70	4.76	5.79	6.84	7.87	8.94	10.01	11.09	12.18		13.37	3 / 5			
reaction time	0.146	interval		1.03	1.06	1.03	1.05	1.03	1.07	1.07	1.08	1.09	1.19			3.12	3.15	3.24
wind	0.3 m/s	velocity	4.87	8.25	8.02	8.25	8.10	8.25	7.94	7.94	7.87	7.80	8.45	7.48		8.17	8.10	7.87
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>															
date	24-Oct-20	time	2.63	3.70	4.75	5.79	6.82	7.87	8.92	9.99	11.04	12.11		13.65	8 / 5			
reaction time		interval		1.07	1.05	1.04	1.03	1.05	1.05	1.07	1.05	1.07	1.54			3.16	3.13	3.19
wind	-1.4 m/s	velocity	4.94	7.94	8.10	8.17	8.25	8.10	8.10	7.94	8.10	7.94	6.53	7.33		8.07	8.15	7.99
FINAL - 2020 Japanese National Championships (Niigata, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>															
date	03-Oct-20	time	2.67	3.74	4.81	5.88	6.94	8.01	9.09	10.19	11.30	12.42		13.66	2 / 8			
reaction time	0.134	interval		1.07	1.07	1.07	1.06	1.07	1.08	1.10	1.11	1.12	1.24			3.21	3.21	3.33
wind	-0.1 m/s	velocity	4.87	7.94	7.94	7.94	8.02	7.94	7.87	7.73	7.66	7.59	8.10	7.32		7.94	7.94	7.66
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>															
date	20-Sep-20	time	2.71	3.81	4.87	5.93	6.99	8.04	9.11	10.21	11.33	12.47		13.46	2 / 5			
reaction time	0.124	interval		1.10	1.06	1.06	1.06	1.05	1.07	1.10	1.12	1.14	0.99			3.22	3.18	3.36
wind	0.0 m/s	velocity	4.80	7.73	8.02	8.02	8.02	8.10	7.94	7.73	7.59	7.46	10.15	7.43		7.92	8.02	7.59
Race 2 - 2020 World Athletics Trials (Fuji, JPN)			<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>															
date	06-Sep-20	time	2.65	3.73	4.77	5.82	6.84	7.89	8.94	9.98	11.07	12.16		13.36	1 / 1			
reaction time		interval		1.08	1.04	1.05	1.02	1.05	1.05	1.04	1.09	1.09	1.20	PB		3.17	3.12	3.22
wind	1.3 m/s	velocity	4.91	7.87	8.17	8.10	8.33	8.10	8.10	8.17	7.80	7.80	8.38	7.49		8.04	8.17	7.92
B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)			<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>															
date	28-Apr-19	time	2.74	3.85	4.94	6.02	7.08	8.17	9.26	10.36	11.48	12.61		13.82	1 / 4			
reaction time		interval		1.11	1.09	1.08	1.06	1.09	1.09	1.10	1.12	1.13	1.21			3.28	3.24	3.35
wind	1.3 m/s	velocity	4.74	7.66	7.80	7.87	8.02	7.80	7.80	7.73	7.59	7.52	8.68	7.24		7.77	7.87	7.61
FINAL - 2017 Fuse Sprint (Tottori, JPN)			<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>															
date	04-Jun-17	time	2.74	3.85	4.94	6.03	7.12	8.20	9.30	10.39	11.49	12.60		13.77	7 / 6			
reaction time		interval		1.11	1.09	1.09	1.09	1.08	1.10	1.09	1.10	1.11	1.17			3.29	3.27	3.30
wind	3.7 m/s	velocity	4.74	7.66	7.80	7.80	7.80	7.87	7.73	7.80	7.73	7.66	8.97	7.26		7.75	7.80	7.73
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>															
date	07-May-17	time	2.77	3.89	5.00	6.10	7.21	8.31	9.41	10.53	11.65	12.77		13.97	3 / 6			
reaction time		interval		1.12	1.11	1.10	1.11	1.10	1.10	1.12	1.12	1.12	1.20			3.33	3.31	3.36
wind	-0.2 m/s	velocity	4.69	7.59	7.66	7.73	7.66	7.73	7.73	7.59	7.59	7.59	8.75	7.16		7.66	7.70	7.59
FINAL - 2017 Michitaka Memorial (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>															
date	07-May-17	time	2.78	3.92	5.03	6.15	7.26	8.38	9.50	10.65	11.78	12.95		14.19	2 / 9			
reaction time		interval		1.14	1.11	1.12	1.11	1.12	1.12	1.15	1.13	1.17	1.24			3.37	3.35	3.45
wind	-0.6 m/s	velocity	4.68	7.46	7.66	7.59	7.66	7.59	7.59	7.39	7.52	7.26	8.47	7.05		7.57	7.61	7.39
FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)			<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>															
date	29-Apr-16	time	2.72	3.83	4.93	6.02	7.09	8.17	9.23	10.31	11.37	12.45		13.63	2 / 4			
reaction time		interval		1.11	1.10	1.09	1.07	1.08	1.06	1.08	1.06	1.08	1.18			3.30	3.21	3.22
wind	1.1 m/s	velocity	4.78	7.66	7.73	7.80	7.94	7.87	8.02	7.87	8.02	7.87	8.90	7.34		7.73	7.94	7.92
FINAL - 2015 Japanese National Championships (Niigata, JPN)			<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>															
date	27-Jun-15	time	2.65	3.73	4.80	5.86	6.92	7.98	9.03	10.10	11.18	12.29		13.46	8 / 4			
reaction time	0.133	interval		1.08	1.07	1.06	1.06	1.06	1.05	1.07	1.08	1.11	1.17			3.21	3.17	3.26

wind -0.2 m/s velocity 4.91 7.87 7.94 8.02 8.02 8.02 8.10 7.94 7.87 7.66 8.97 7.43 7.94 8.04 7.82

		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)																	
FINAL - 2016 Tokai Student Autumn Championships (Gifu, JPN)		<i>(2016.10.10) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>															
date	09-Oct-16	time	2.75	3.88	4.99	6.09	7.17	8.28	9.41	10.53	11.67	12.84	14.18	6 / 1			
reaction time		interval		1.13	1.11	1.10	1.08	1.11	1.13	1.12	1.14	1.17	1.34		3.34	3.32	3.43
wind	1.3 m/s	velocity	4.73	7.52	7.66	7.73	7.87	7.66	7.52	7.59	7.46	7.26	7.84	7.05	7.63	7.68	7.43
Fujiwara, Rui (JPN) (1998)																	
Heat 5 - 2016 Japanese National Junior Championships (Mizuho, JPN)		<i>(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>															
date	21-Oct-16	time	2.78	3.89	4.99	6.10	7.21	8.33	9.46	10.62	11.78	12.97	14.28	2 / 2			
reaction time		interval		1.11	1.10	1.11	1.11	1.12	1.13	1.16	1.16	1.19	1.31		3.32	3.36	3.51
wind	0.9 m/s	velocity	4.68	7.66	7.73	7.66	7.66	7.59	7.52	7.33	7.33	7.14	8.02	7.00	7.68	7.59	7.26
FINAL - 2016 Japanese National High School Championships (Okayama, JPN)		<i>Kota (2016) - 69th high school championships: JAF scientific committee- biomechanics data</i>															
date	02-Aug-16	time	2.73	3.82	4.88	5.95	7.03	8.09	9.16	10.25	11.33	12.45	13.68	8 / 3			
reaction time		interval		1.09	1.06	1.07	1.08	1.06	1.07	1.09	1.08	1.12	1.23	PB	3.22	3.21	3.29
wind	1.5 m/s	velocity	4.76	7.80	8.02	7.94	7.87	8.02	7.94	7.80	7.87	7.59	8.54	7.31	7.92	7.94	7.75
Fukube, Mako (JPN) (1995)																	
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)		<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	09-Aug-24	time	2.39	3.44	4.46	5.46	6.46	7.46	8.47	9.50	10.54	11.60	12.89	3 / 5			
reaction time		interval		1.05	1.02	1.00	1.00	1.00	1.01	1.03	1.04	1.06	1.29		3.07	3.01	3.13
wind	-0.7 m/s	velocity	5.44	8.10	8.33	8.50	8.50	8.50	8.42	8.25	8.17	8.02	7.79	7.76	8.31	8.47	8.15
Heat 1 - 2024 Olympic Games (Paris, FRA)		<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	07-Aug-24	time	2.43	3.49	4.50	5.49	6.49	7.49	8.49	9.52	10.55	11.59	12.85	2 / 4			
reaction time		interval		1.06	1.01	0.99	1.00	1.00	1.00	1.03	1.03	1.04	1.26		3.06	3.00	3.10
wind	-0.1 m/s	velocity	5.35	8.02	8.42	8.59	8.50	8.50	8.50	8.25	8.25	8.17	7.98	7.78	8.33	8.50	8.23
FINAL - 2023 Japanese National Championships (Osaka, JPN)		<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>															
date	03-Jun-23	time	2.62	3.66	4.69	5.67	6.68	7.68	8.70	9.73	10.79	11.84	12.99	7 / 4			
reaction time		interval		1.04	1.03	0.98	1.01	1.00	1.02	1.03	1.06	1.05	1.15		3.05	3.03	3.14
wind	-1.2 m/s	velocity	4.96	8.17	8.25	8.67	8.42	8.50	8.33	8.25	8.02	8.10	8.74	7.70	8.36	8.42	8.12
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)		<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>															
date	21-May-23	time	2.56	3.61	4.63	5.64	6.66	7.67	8.67	9.70	10.73	11.78	12.91	5 / 3			
reaction time		interval		1.05	1.02	1.01	1.02	1.01	1.00	1.03	1.03	1.05	1.13		3.08	3.03	3.11
wind	0.4 m/s	velocity	5.08	8.10	8.33	8.42	8.33	8.42	8.50	8.25	8.25	8.10	8.89	7.75	8.28	8.42	8.20
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)		<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>															
date	29-Apr-23	time	2.61	3.67	4.70	5.71	6.73	7.74	8.77	9.79	10.83	11.88	13.02	6 / 3			
reaction time		interval		1.06	1.03	1.01	1.02	1.01	1.03	1.02	1.04	1.05	1.14		3.10	3.06	3.11
wind	0.6 m/s	velocity	4.98	8.02	8.25	8.42	8.33	8.42	8.25	8.33	8.17	8.10	8.82	7.68	8.23	8.33	8.20
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)		<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>															
date	24-Jul-22	time	2.61	3.64	4.64	5.63	6.63	7.62	8.63	9.64	10.66	11.70	12.82	1 / 8			
reaction time		interval		1.03	1.00	0.99	1.00	0.99	1.01	1.01	1.02	1.04	1.12	NR PB	3.02	3.00	3.07
wind	0.9 m/s	velocity	4.98	8.25	8.50	8.59	8.50	8.59	8.42	8.42	8.33	8.17	8.97	7.80	8.44	8.50	8.31
Heat 5 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)		<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	23-Jul-22	time	2.53	3.56	4.60	5.60	6.60	7.60	8.63	9.66	10.70	11.76	12.96	7 / 4			
reaction time		interval		1.03	1.04	1.00	1.00	1.00	1.03	1.03	1.04	1.06	1.20		3.07	3.03	3.13
wind	0.7 m/s	velocity	5.14	8.25	8.17	8.50	8.50	8.50	8.25	8.25	8.17	8.02	8.37	7.72	8.31	8.42	8.15
FINAL - 2022 Japanese National Championships (Osaka, JPN)		<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>															
date	11-Jun-22	time	2.63	3.70	4.77	5.78	6.79	7.82	8.83	9.86	10.90	11.95	13.10	4 / 1			
reaction time		interval		1.07	1.07	1.01	1.01	1.03	1.01	1.03	1.04	1.05	1.15		3.15	3.05	3.12
wind	0.8 m/s	velocity	4.94	7.94	7.94	8.42	8.42	8.25	8.42	8.25	8.17	8.10	8.74	7.63	8.10	8.36	8.17
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)		<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>															
date	08-May-22	time	2.59	3.65	4.67	5.68	6.69	7.72	8.74	9.78	10.84	11.91	13.05	7 / 2			
reaction time		interval		1.06	1.02	1.01	1.01	1.03	1.02	1.04	1.06	1.07	1.14	PB	3.09	3.06	3.17
wind	-0.1 m/s	velocity	5.02	8.02	8.33	8.42	8.42	8.25	8.33	8.17	8.02	7.94	8.82	7.66	8.25	8.33	8.04
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)		<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>															
date	29-Apr-22	time	2.62	3.69	4.74	5.78	6.81	7.85	8.92	9.98	11.04	12.10	13.21	5 / 2			
reaction time		interval		1.07	1.05	1.04	1.03	1.04	1.07	1.06	1.06	1.06	1.11		3.16	3.14	3.18
wind	-2.8 m/s	velocity	4.96	7.94	8.10	8.17	8.25	8.17	7.94	8.02	8.02	8.02	9.05	7.57	8.07	8.12	8.02
FINAL - 2020 Athlete Night Games (Fukui, JPN)		<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>															
date	29-Aug-20	time	2.67	3.75	4.82	5.86	6.87	7.92	8.96	10.03	11.10	12.19	13.36	/ 6			
reaction time		interval		1.08	1.07	1.04	1.01	1.05	1.04	1.07	1.07	1.09	1.17		3.19	3.10	3.23

wind	2.1 m/s	velocity	4.87	7.87	7.94	8.17	8.42	8.10	8.17	7.94	7.94	7.80	8.59	7.49	7.99	8.23	7.89	
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)															<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>			
date	23-Aug-20	time	2.67	3.73	4.78	5.81	6.83	7.89	8.94	10.00	11.07	12.16	13.33	9 / 6				
reaction time	0.123	interval	1.06	1.05	1.03	1.02	1.06	1.05	1.06	1.07	1.09	1.17			3.14	3.13	3.22	
wind	0.3 m/s	velocity	4.87	8.02	8.10	8.25	8.33	8.02	8.10	8.02	7.94	7.80	8.59	7.50	8.12	8.15	7.92	
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)															<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>			
date	01-Sep-19	time	2.59	3.62	4.65	5.67	6.68	7.70	8.72	9.80	10.87	11.95	13.15	6 / 2				
reaction time		interval	1.03	1.03	1.02	1.01	1.02	1.02	1.02	1.08	1.07	1.08	1.20		3.08	3.05	3.23	
wind	1.2 m/s	velocity	5.02	8.25	8.25	8.33	8.42	8.33	8.33	7.87	7.94	7.87	8.75	7.60	8.28	8.36	7.89	
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)															<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>			
date	29-Jun-19	time	2.64	3.69	4.70	5.78	6.83	7.85	8.90	9.96	11.03	12.11	13.30	4 / 6				
reaction time	0.150	interval	1.05	1.01	1.08	1.05	1.02	1.05	1.06	1.07	1.08	1.19			3.14	3.12	3.21	
wind	0.6 m/s	velocity	4.92	8.10	8.42	7.87	8.10	8.33	8.10	8.02	7.94	7.87	8.82	7.52	8.12	8.17	7.94	
FINAL - 2019 Fuse Sprint (Tottori, JPN)															<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>			
date	02-Jun-19	time	2.60	3.65	4.68	5.70	6.72	7.75	8.78	9.83	10.91	12.00	13.19	7 / 4				
reaction time	0.139	interval	1.05	1.03	1.02	1.02	1.03	1.03	1.05	1.08	1.09	1.19			3.10	3.08	3.22	
wind	3.5 m/s	velocity	5.00	8.10	8.25	8.33	8.33	8.25	8.25	8.10	7.87	7.80	8.82	7.58	8.23	8.28	7.92	
FINAL - 2019 Kinami Memorial (Osaka, JPN)															<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>			
date	06-May-19	time	2.64	3.71	4.75	5.78	6.82	7.86	8.90	9.96	11.03	12.11	13.31	9 / 4				
reaction time		interval	1.07	1.04	1.03	1.04	1.04	1.04	1.06	1.07	1.08	1.20	PB		3.14	3.12	3.21	
wind	0.6 m/s	velocity	4.92	7.94	8.17	8.25	8.17	8.17	8.02	7.94	7.87	8.75	7.51		8.12	8.17	7.94	
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)															<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>			
date	28-Apr-19	time	2.66	3.75	4.80	5.84	6.89	7.94	8.99	10.06	11.14	12.25	13.47	7 / 4				
reaction time		interval	1.09	1.05	1.04	1.05	1.05	1.05	1.07	1.08	1.11	1.22			3.18	3.15	3.26	
wind	0.6 m/s	velocity	4.89	7.80	8.10	8.17	8.10	8.10	7.94	7.87	7.66	8.61	7.42		8.02	8.10	7.82	
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)															<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	24-Jun-18	time	2.70	3.78	4.87	5.94	6.98	8.03	9.08	10.15	11.25	12.36	13.56	9 / 7				
reaction time	0.144	interval	1.08	1.09	1.07	1.04	1.05	1.05	1.07	1.10	1.11	1.20			3.24	3.14	3.28	
wind	1.1 m/s	velocity	4.81	7.87	7.80	7.94	8.17	8.10	8.10	7.94	7.73	7.66	8.75	7.37	7.87	8.12	7.77	
FINAL - 2018 Fuse Sprint (Tottori, JPN)															<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	03-Jun-18	time	2.66	3.73	4.78	5.83	6.87	7.90	8.95	10.00	11.07	12.13	13.34	1 / 3				
reaction time		interval	1.07	1.05	1.05	1.04	1.03	1.05	1.05	1.07	1.07	1.06	1.21	PB		3.17	3.12	3.18
wind	0.6 m/s	velocity	4.89	7.94	8.10	8.10	8.17	8.25	8.10	8.10	7.94	8.02	8.68	7.50	8.04	8.17	8.02	
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)															<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	29-Apr-18	time	2.64	3.68	4.72	5.73	6.76	7.80	8.83	9.85	10.91	11.99	13.16	2 / 4				
reaction time		interval	1.04	1.04	1.01	1.03	1.04	1.03	1.02	1.06	1.08	1.17			3.09	3.10	3.16	
wind	3.6 m/s	velocity	4.92	8.17	8.17	8.42	8.25	8.17	8.25	8.33	8.02	7.87	8.97	7.60	8.25	8.23	8.07	
FINAL - 2017 Japanese National Championships (Osaka, JPN)															<i>(2017) - tfdata-store.com/2017/07/19/post-1068/</i>			
date	25-Jun-17	time	2.68	3.74	4.80	5.86	6.91	7.95	9.01	10.08	11.15	12.25	13.45	7 / 4				
reaction time	0.140	interval	1.06	1.06	1.06	1.05	1.04	1.06	1.07	1.07	1.10	1.20			3.18	3.15	3.24	
wind	0.4 m/s	velocity	4.85	8.02	8.02	8.02	8.10	8.17	8.02	7.94	7.94	7.73	8.75	7.43	8.02	8.10	7.87	
Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)															<i>(2017) - tfdata-store.com/2017/06/08/post-920/</i>			
date	26-May-17	time	2.70	3.78	4.83	5.87	6.91	7.94	9.00	10.07	11.15	12.25	13.46	7 / 1				
reaction time	0.151	interval	1.08	1.05	1.04	1.04	1.03	1.06	1.07	1.08	1.10	1.21	PB		3.17	3.13	3.25	
wind	1.9 m/s	velocity	4.81	7.87	8.10	8.17	8.17	8.25	8.02	7.94	7.87	7.73	8.68	7.43	8.04	8.15	7.85	
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)															<i>(2017) - tfdata-store.com/2017/05/01/458/</i>			
date	29-Apr-17	time	2.72	3.81	4.87	5.92	6.98	8.06	9.14	10.21	11.29	12.40	13.58	6 / 3				
reaction time		interval	1.09	1.06	1.05	1.06	1.08	1.08	1.07	1.08	1.11	1.18			3.20	3.22	3.26	
wind	4.1 m/s	velocity	4.78	7.80	8.02	8.10	8.02	7.87	7.87	7.94	7.87	7.66	8.90	7.36	7.97	7.92	7.82	
FINAL - 2016 Japanese University Championships (Kumagaya, JPN)															<i>(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>			
date	04-Sep-16	time	2.72	3.79	4.85	5.91	6.95	8.01	9.08	10.17	11.27	12.39	13.59	5 / 3				
reaction time	0.146	interval	1.07	1.06	1.06	1.04	1.06	1.07	1.09	1.10	1.12	1.20			3.19	3.17	3.31	
wind	-0.2 m/s	velocity	4.78	7.94	8.02	8.02	8.17	8.02	7.94	7.80	7.73	7.59	8.75	7.36	7.99	8.04	7.70	
Funck, Annette (GER) (1977)															<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>			
FINAL - 2007 European Cup (Munich, GER)																		
date	24-Jun-07	time	2.60	3.63	4.66	5.68	6.69	7.73	8.77	9.83	10.89	11.96	13.14	1 / 4				
reaction time	0.111	interval	1.03	1.03	1.02	1.01	1.04	1.04	1.06	1.06	1.07	1.18	PB		3.08	3.09	3.19	
wind	0.9 m/s	velocity	5.00	8.25	8.25	8.33	8.42	8.17	8.17	8.02	8.02	7.94	8.90	7.61	8.28	8.25	7.99	
<i>Thimm, Annette (GER) (1977)</i>																		

FINAL - 2002 German National Indoor Championships (Sindelfingen, GER)

date	16-Feb-02	time	2.78	3.88	4.94	5.98	7.04
reaction time	0.199	interval		1.10	1.06	1.04	1.06
wind		velocity	4.68	7.73	8.02	8.17	8.02

Hücklekemkes (2002) - explosive starten vielfältig erlernen

	8.41	/ 6
	1.37	3.20
	9.49	7.13
		7.97

Fune, Hailey (USA) (1982)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)												<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	29-Jun-24	time	2.73	3.82	4.89	5.94	6.99	8.04	9.07	10.14	11.21	12.33	13.58	2 / 7			
reaction time		interval		1.09	1.07	1.05	1.05	1.05	1.03	1.07	1.07	1.12	1.25		3.21	3.13	3.26
wind	1.0 m/s	velocity	4.76	7.80	7.94	8.10	8.10	8.10	8.25	7.94	7.94	7.59	8.04	7.36	7.94	8.15	7.82

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

date	28-Jun-24	time	2.63	3.68	4.75	5.85	6.90	7.93	8.96	10.00	11.08	12.13	13.37	8 / 7			
reaction time		interval		1.05	1.07	1.10	1.05	1.03	1.03	1.04	1.08	1.05	1.24		3.22	3.11	3.17
wind	1.7 m/s	velocity	4.94	8.10	7.94	7.73	8.10	8.25	8.25	8.17	7.87	8.10	8.10	7.48	7.92	8.20	8.04

Furuhashi, Kana (JPN) (1999)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2016 Japanese National Junior Championships (Mizuho, JPN)												<i>(2016.10.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	21-Oct-16	time	2.73	3.82	4.90	6.00	7.09	8.19	9.26	10.35	11.48	12.64	13.89	3 / 2			
reaction time		interval		1.09	1.08	1.10	1.09	1.10	1.07	1.09	1.13	1.16	1.25		3.27	3.26	3.38
wind	1.0 m/s	velocity	4.76	7.80	7.87	7.73	7.80	7.73	7.94	7.80	7.52	7.33	8.40	7.20	7.80	7.82	7.54

Heat 2 - 2016 Japanese National Junior Championships (Mizuho, JPN)

date	21-Oct-16	time	2.70	3.81	4.90	6.00	7.11	8.19	9.29	10.42	11.56	12.73	13.96	2 / 1			
reaction time		interval		1.11	1.09	1.10	1.11	1.08	1.10	1.13	1.14	1.17	1.23		3.30	3.29	3.44
wind	1.3 m/s	velocity	4.81	7.66	7.80	7.73	7.66	7.87	7.73	7.52	7.46	7.26	8.54	7.16	7.73	7.75	7.41

FINAL - 2016 Japanese National High School Championships (Okayama, JPN)

date	02-Aug-16	time	2.75	3.87	4.98	6.08	7.15	8.20	9.31	10.41	11.52	12.66	13.88	2 / 5			
reaction time	0.150	interval		1.12	1.11	1.10	1.07	1.05	1.11	1.10	1.11	1.14	1.22		3.33	3.23	3.35
wind	1.5 m/s	velocity	4.73	7.59	7.66	7.73	7.94	8.10	7.66	7.73	7.66	7.46	8.61	7.20	7.66	7.89	7.61

FINAL - 2016 Tokai High School Meeting (Gifu, JPN)

date	18-Jun-16	time	2.69	3.81	4.91	6.00	7.09	8.20	9.31	10.43	11.56	12.69	13.91	4 / 1			
reaction time		interval		1.12	1.10	1.09	1.09	1.11	1.11	1.12	1.13	1.13	1.22		3.31	3.31	3.38
wind	0.9 m/s	velocity	4.83	7.59	7.73	7.80	7.80	7.66	7.66	7.59	7.52	7.52	8.61	7.19	7.70	7.70	7.54

FINAL - 2016 Aichi Prefecture High School Meeting (Nagoya, JPN)

date	20-May-16	time	2.75	3.85	4.98	6.10	7.21	8.33	9.45	10.58	11.72	12.89	14.11	3 / 1			
reaction time		interval		1.10	1.13	1.12	1.11	1.12	1.12	1.13	1.14	1.17	1.22		3.35	3.35	3.44
wind	-1.5 m/s	velocity	4.73	7.73	7.52	7.59	7.66	7.59	7.59	7.52	7.46	7.26	8.61	7.09	7.61	7.61	7.41

Fust, Katja (GER) (1974)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1993 European Junior Championships (San Sebastian, ESP)												<i>Hücklekemkes (1997) - geschwindigkeitstabellen vereinfachen die auswertung von hürdensprints</i>					
date	01-Aug-93	time	2.78	3.84	4.92	5.96	7.04	8.08	9.16	10.20	11.28	12.34	13.55	/ 2			
reaction time		interval		1.06	1.08	1.04	1.08	1.04	1.08	1.04	1.08	1.06	1.21		3.18	3.20	3.18
wind	1.3 m/s	velocity	4.68	8.02	7.87	8.17	7.87	8.17	7.87	8.17	7.87	8.02	8.68	7.38	8.02	7.97	8.02

Heat 2 - 1993 European Junior Championships (San Sebastian, ESP)

date	31-Jul-93	time	2.74	3.84	4.90	5.96	7.00	8.10	9.18	10.20	11.28	12.38	13.70	/ 2			
reaction time		interval		1.10	1.06	1.06	1.04	1.10	1.08	1.02	1.08	1.10	1.32		3.22	3.22	3.20
wind	0.4 m/s	velocity	4.74	7.73	8.02	8.02	8.17	7.73	7.87	8.33	7.87	7.73	7.95	7.30	7.92	7.92	7.97

Galertová, Alena (CZE) (1992)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)												<i>Fehér (2014) - Final report from the Czech Republic national championships</i>					
date	02-Aug-14	time	2.86	4.06	5.22	6.38	7.53	8.68	9.82	10.97	12.13	13.31	14.63	1 / 8			
reaction time	0.186	interval		1.20	1.16	1.16	1.15	1.15	1.14	1.15	1.16	1.18	1.32		3.52	3.44	3.49
wind	0.4 m/s	velocity	4.55	7.08	7.33	7.33	7.39	7.39	7.46	7.39	7.33	7.20	7.95	6.84	7.24	7.41	7.31

Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)

date	02-Aug-14	time	2.82	3.98	5.12	6.23	7.34	8.47	9.60	10.73	11.89	13.08	14.39	2 / 5			
reaction time	0.189	interval		1.16	1.14	1.11	1.11	1.13	1.13	1.13	1.16	1.19	1.31		3.41	3.37	3.48
wind	0.2 m/s	velocity	4.61	7.33	7.46	7.66	7.66	7.52	7.52	7.52	7.33	7.14	8.02	6.95	7.48	7.57	7.33

FINAL - 2013 Czech Republic National Championships (Tábor, CZE)

date	15-Jun-13	time	2.88	4.00	5.13	6.20	7.30	8.42	9.57	10.73	11.88	13.03	14.35	8 / 7			
reaction time	0.220	interval		1.12	1.13	1.07	1.10	1.12	1.15	1.16	1.15	1.15	1.32		3.32	3.37	3.46
wind	0.3 m/s	velocity	4.51	7.59	7.52	7.94	7.73	7.59	7.39	7.33	7.39	7.39	7.95	6.97	7.68	7.57	7.37

Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)

date	15-Jun-13	time	2.83	3.97	5.08	6.15	7.28	8.37	9.50	10.61	11.70	12.89	14.14	5 / 2			
reaction time	0.197	interval		1.14	1.11	1.07	1.13	1.09	1.13	1.11	1.09	1.19	1.25		3.32	3.35	3.39
wind	-1.8 m/s	velocity	4.59	7.46	7.66	7.94	7.52	7.80	7.52	7.66	7.80	7.14	8.40	7.07	7.68	7.61	7.52

Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)

date	25-Feb-12	time	2.88	4.05	5.21	6.35	7.53
reaction time	0.196	interval	1.17	1.16	1.14	1.18	
		velocity	4.51	7.26	7.33	7.46	7.20

Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles

							9.14	7 / 6
						1.61		3.47
						8.07	6.56	7.35

Gao Miao (CHN) (2001)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																		
<i>CAA Hurdle Development (2021)</i>																		
date	24-Jun-21	time	2.88	4.04	5.19	6.32	7.49	8.65	9.84	11.03	12.23	13.43		14.73	3 / 3			
reaction time	0.213	interval	1.16	1.15	1.13	1.17	1.16	1.19	1.19	1.20	1.20	1.20	1.30			3.44	3.52	3.59
wind	0.3 m/s	velocity	4.51	7.33	7.39	7.52	7.26	7.33	7.14	7.14	7.08	7.08	7.73	6.79		7.41	7.24	7.10

Heptathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

<i>CAA Hurdle Development (2019)</i>																		
date	23-Aug-19	time	2.87	3.99	5.11	6.24	7.41	8.56	9.73	10.93	12.13	13.36		14.62	5 / 4			
reaction time	0.218	interval	1.12	1.12	1.13	1.17	1.15	1.17	1.20	1.20	1.20	1.23	1.26			3.37	3.49	3.63
wind	?? m/s	velocity	4.53	7.59	7.59	7.52	7.26	7.39	7.26	7.08	7.08	6.91	8.33	6.84		7.57	7.31	7.02

Heptathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)

<i>CAA Hurdle Development (2019)</i>																		
date	08-Jul-19	time	2.75	3.91	5.04	6.17	7.32	8.44	9.61	10.79	11.98	13.19		14.48	1 / 2			
reaction time	0.154	interval	1.16	1.13	1.13	1.15	1.12	1.17	1.18	1.19	1.19	1.21	1.29			3.42	3.44	3.58
wind	0.8 m/s	velocity	4.73	7.33	7.52	7.52	7.39	7.59	7.26	7.20	7.14	7.02	8.14	6.91		7.46	7.41	7.12

Gao Yirong (CHN) (2004)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
National FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)																		
<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																		
date	02-Sep-23	time	2.67	3.74	4.80	5.87	6.94	7.98	9.07	10.17	11.27	12.44		13.70	8 / 6			
reaction time	0.161	interval	1.07	1.06	1.07	1.07	1.04	1.09	1.10	1.10	1.10	1.17	1.26			3.20	3.20	3.37
wind	0.1 m/s	velocity	4.87	7.94	8.02	7.94	7.94	8.17	7.80	7.73	7.73	7.26	7.98	7.30		7.97	7.97	7.57

Ge Ge (CHN) (2000)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)																		
<i>CAA Hurdle Development (2021)</i>																		
date	25-Jun-21	time	2.85	3.98	5.14	6.28	7.39	8.56	9.72	10.93	12.14	13.40		14.80	8 / 6			
reaction time	0.298	interval	1.13	1.16	1.14	1.11	1.17	1.16	1.21	1.21	1.21	1.26	1.40			3.43	3.44	3.68
wind	-1.6 m/s	velocity	4.56	7.52	7.33	7.46	7.66	7.26	7.33	7.02	7.02	6.75	7.18	6.76		7.43	7.41	6.93

U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)

<i>CAA Hurdle Development (2019)</i>																		
date	14-Aug-19	time	2.67	3.79	4.91	6.02	7.11	8.24	9.37	10.49	11.59	12.76		14.06	3 / 4			
reaction time	0.188	interval	1.12	1.12	1.11	1.09	1.13	1.13	1.12	1.10	1.10	1.17	1.30	PB		3.35	3.35	3.39
wind	-0.1 m/s	velocity	4.87	7.59	7.59	7.66	7.80	7.52	7.52	7.59	7.73	7.26	8.08	7.11		7.61	7.61	7.52

U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN)

<i>CAA Hurdle Development (2019)</i>																		
date	14-Aug-19	time	2.76	3.90	5.02	6.09	7.19	8.31	9.45	10.58	11.71	12.88		14.14	6 / 3			
reaction time	0.190	interval	1.14	1.12	1.07	1.10	1.12	1.14	1.13	1.13	1.13	1.17	1.26	PB		3.33	3.36	3.43
wind	-0.2 m/s	velocity	4.71	7.46	7.59	7.94	7.73	7.59	7.46	7.52	7.52	7.26	8.33	7.07		7.66	7.59	7.43

Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)

<i>CAA Hurdle Development (2019)</i>																		
date	02-Aug-19	time	2.79	3.92	5.07	6.22	7.34	8.47	9.64	10.81	11.98	13.21		14.56	5 / 8			
reaction time	0.215	interval	1.13	1.15	1.15	1.12	1.13	1.17	1.17	1.17	1.17	1.23	1.35			3.43	3.42	3.57
wind	0.2 m/s	velocity	4.66	7.52	7.39	7.39	7.59	7.52	7.26	7.26	7.26	6.91	7.78	6.87		7.43	7.46	7.14

Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)

<i>CAA Hurdle Development (2019)</i>																		
date	08-Jul-19	time	2.78	3.91	5.00	6.10	7.20	8.33	9.46	10.62	11.78	13.00		14.34	5 / 5			
reaction time	0.211	interval	1.13	1.09	1.10	1.10	1.13	1.13	1.16	1.16	1.16	1.22	1.34			3.32	3.36	3.54
wind	0.7 m/s	velocity	4.68	7.52	7.80	7.73	7.73	7.52	7.52	7.33	7.33	6.97	7.84	6.97		7.68	7.59	7.20

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

<i>CAA Hurdle Development (2019)</i>																		
date	24-Feb-19	time	2.72	3.83	4.94	6.04	7.16							8.65	2 / 2			
reaction time		interval	1.11	1.11	1.10	1.12							1.49	PB		3.32		
		velocity	4.78	7.66	7.66	7.73	7.59						8.72	6.94		7.68		

George, Phylcia (CAN) (1987)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)																		
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>																		
date	11-Aug-17	time	2.47	3.53	4.54	5.54	6.52	7.52	8.56	9.59	10.64	11.72		13.04	8 / 5			
reaction time	0.117	interval	1.06	1.01	1.00	0.98	1.00	1.04	1.03	1.05	1.08	1.32				3.07	3.02	3.16
wind	0.5 m/s	velocity	5.26	8.02	8.42	8.50	8.67	8.50	8.17	8.25	8.10	7.87	7.95	7.67		8.31	8.44	8.07

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

<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																		
date	05-May-17	time	2.60	3.66	4.70	5.70	6.70	7.72	8.74	9.78	10.82	11.90		13.14	1 / 6			
reaction time	0.162	interval	1.06	1.04	1.00	1.00	1.02	1.02	1.04	1.04	1.04	1.08	1.24			3.10	3.04	3.16
wind	-2.3 m/s	velocity	5.00	8.02	8.17	8.50	8.50	8.33	8.33	8.17	8.17	7.87	8.47	7.61		8.23	8.39	8.07

FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)

<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>																		
date	09-Sep-16	time	2.56	3.62	4.62	5.62	6.62	7.62	8.64	9.66	10.68	11.76		12.97	3 / 6			
reaction time	0.120	interval	1.06	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.02	1.08	1.21			3.06	3.02	3.12

wind	0.1 m/s	velocity	5.08	8.02	8.50	8.50	8.50	8.50	8.33	8.33	8.33	7.87	8.68	7.71		8.33	8.44	8.17	
FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	01-Sep-16	time	2.56	3.58	4.58	5.58	6.58	7.58	8.58	9.62	10.66	11.72		12.93		2 / 7			
reaction time	0.102	interval		1.02	1.00	1.00	1.00	1.00	1.00	1.04	1.04	1.06	1.21			3.02	3.00	3.14	
wind	0.4 m/s	velocity	5.08	8.33	8.50	8.50	8.50	8.50	8.50	8.17	8.17	8.02	8.68	7.73		8.44	8.50	8.12	

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	17-Aug-16	time	2.40	3.43	4.43	5.40	6.40	7.40	8.41	9.43	10.46	11.51		12.89		9 / 8			
reaction time	0.143	interval		1.03	1.00	0.97	1.00	1.00	1.01	1.02	1.03	1.05	1.38			3.00	3.01	3.10	
wind	0.0 m/s	velocity	5.42	8.25	8.50	8.76	8.50	8.50	8.42	8.33	8.25	8.10	7.61	7.76		8.50	8.47	8.23	

FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)														<i>Henson (2021) - Athlete First: major championships report</i>					
date	07-Aug-12	time	2.52	3.54	4.52	5.48	6.44	7.42	8.40	9.40	10.42	11.46		12.65		3 / 6 5			
reaction time	0.152	interval		1.02	0.98	0.96	0.96	0.98	0.98	1.00	1.02	1.04	1.19	=PB		2.96	2.92	3.06	
wind	-0.2 m/s	velocity	5.16	8.33	8.67	8.85	8.85	8.67	8.67	8.50	8.33	8.17	8.82	7.91		8.61	8.73	8.33	

Gerevini, Sveva (ITA) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	08-Aug-24	time	2.58	3.67	4.70	5.74	6.78	7.83	8.88	9.92	10.96	12.03		13.40		9 / 7		
reaction time	0.156	interval		1.09	1.03	1.04	1.04	1.05	1.05	1.04	1.04	1.07	1.37			3.16	3.14	3.15
wind	-0.1 m/s	velocity	5.04	7.80	8.25	8.17	8.17	8.10	8.10	8.17	8.17	7.94	7.34	7.46		8.07	8.12	8.10

Gilchrist, Danielle (USA) (1988)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2005 USATF National Junior Championships (Carson, CA)														<i>USATF Women's Sprint Development (2005)</i>				
date	23-Jun-05	time	2.75	3.87	4.95	6.10	7.21	8.33	9.44	10.58	11.70	12.85		14.17		2 / 5		
reaction time		interval		1.12	1.08	1.15	1.11	1.12	1.11	1.14	1.12	1.15	1.32	PB		3.35	3.34	3.41
wind	-0.7 m/s	velocity	4.73	7.59	7.87	7.39	7.66	7.59	7.66	7.46	7.59	7.39	7.95	7.06		7.61	7.63	7.48

Girard, Patricia (FRA) (1968)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	2.62	3.66	4.68	5.70	6.70	7.72	8.74	9.78	10.84	11.90		13.03		1 / 4		
reaction time	0.143	interval		1.04	1.02	1.02	1.00	1.02	1.02	1.04	1.06	1.06	1.13			3.08	3.04	3.16
wind	-0.7 m/s	velocity	4.96	8.17	8.33	8.33	8.50	8.33	8.33	8.17	8.02	8.02	9.29	7.67		8.28	8.39	8.07

Semi-Final 1 - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	2.59	3.63	4.66	5.64	6.63	7.64	8.64	9.64	10.67	11.72		12.82		1 / 1		
reaction time	0.139	interval		1.04	1.03	0.98	0.99	1.01	1.00	1.00	1.03	1.05	1.10			3.05	3.00	3.08
wind	0.0 m/s	velocity	5.02	8.17	8.25	8.67	8.59	8.42	8.50	8.50	8.25	8.10	9.55	7.80		8.36	8.50	8.28

Heat 1 - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	08-Aug-02	time	2.64	3.67	4.69	5.71	6.73	7.74	8.77	9.79	10.83	11.87		13.00		1 / 1		
reaction time	0.149	interval		1.03	1.02	1.02	1.02	1.01	1.03	1.02	1.04	1.04	1.13			3.07	3.06	3.10
wind	0.5 m/s	velocity	4.92	8.25	8.33	8.33	8.33	8.42	8.25	8.33	8.17	8.17	9.29	7.69		8.31	8.33	8.23

FINAL - 1999 IAAF World Championships (Sevilla, ESP)														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	28-Aug-99	time	2.59	3.60	4.61	5.60	6.58	7.59	8.61	9.63	10.68	11.75		12.97		1 / 8		
reaction time	0.154	interval		1.01	1.01	0.99	0.98	1.01	1.02	1.02	1.05	1.07	1.22			3.01	3.01	3.14
wind	0.7 m/s	velocity	5.02	8.42	8.42	8.59	8.67	8.42	8.33	8.33	8.10	7.94	8.61	7.71		8.47	8.47	8.12

Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	27-Aug-99	time	2.51	3.51	4.50	5.47	6.42	7.40	8.40	9.43	10.46	11.50		12.76		3 / 3		
reaction time	0.120	interval		1.00	0.99	0.97	0.95	0.98	1.00	1.03	1.03	1.04	1.26			2.96	2.93	3.10
wind	1.9 m/s	velocity	5.18	8.50	8.59	8.76	8.95	8.67	8.50	8.25	8.25	8.17	8.33	7.84		8.61	8.70	8.23

FINAL - 1998 European Championships (Budapest, HUN)														<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>				
date	23-Aug-98	time	2.58	3.59	4.58	5.59	6.60	7.58	8.56	9.57	10.60	11.64		12.89		1 / 5		
reaction time		interval		1.01	0.99	1.01	1.01	0.98	0.98	1.01	1.03	1.04	1.25			3.01	2.97	3.08
wind	1.5 m/s	velocity	5.04	8.42	8.59	8.42	8.42	8.67	8.67	8.42	8.25	8.17	8.40	7.76		8.47	8.59	8.28

FINAL - 1997 European Cup (Munich, GER)														<i>Jung (2003) - http://www.fgs.uni-halle.de</i>				
date	22-Jun-97	time	2.65	3.68	4.69	5.70	6.71	7.71	8.74	9.76	10.79	11.86		13.03		1 / 2		
reaction time		interval		1.03	1.01	1.01	1.01	1.00	1.03	1.02	1.03	1.07	1.17			3.05	3.04	3.12
wind	0.7 m/s	velocity	4.91	8.25	8.42	8.42	8.42	8.50	8.25	8.33	8.25	7.94	8.97	7.67		8.36	8.39	8.17

Girard-Leno, Patricia (FRA) (1968)														<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>				
FINAL - 1996 Olympic Games (Atlanta, GA)																		
date	31-Jul-96	time	2.36	3.40	4.39	5.39	6.38	7.37	8.37	9.35	10.40	11.44		12.65		5 / 3		
reaction time	0.133	interval		1.04	0.99	1.00	0.99	0.99	1.00	0.98	1.05	1.04	1.21			3.03	2.98	3.07
wind	0.2 m/s	velocity	5.51	8.17	8.59	8.50	8.59	8.59	8.50	8.67	8.10	8.17	8.68	7.91		8.42	8.56	8.31

Glasco, Alexis (USA) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	10-Jun-23	time	2.50	3.49	4.50	5.49	6.49	7.47	8.47	9.47	10.51	11.53		12.74		3 / 6		

reaction time	interval	0.99	1.01	0.99	1.00	0.98	1.00	1.00	1.00	1.04	1.02	1.21		2.99	2.98	3.06	
wind	3.8 m/s	velocity	5.20	8.59	8.42	8.59	8.50	8.67	8.50	8.50	8.17	8.33	8.31	7.85	8.53	8.56	8.33

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

date	29-Apr-23	time	2.63	3.63	4.63	5.66	6.64	7.62	8.62	9.63	10.64	11.72		12.83		3 / 4			
reaction time	0.144	interval	1.00	1.00	1.03	0.98	0.98	1.00	1.01	1.01	1.01	1.08	1.11				3.03	2.96	3.10
wind	3.2 m/s	velocity	4.94	8.50	8.50	8.25	8.67	8.67	8.50	8.42	8.42	7.87	9.05	7.79			8.42	8.61	8.23

Golding-Clarke, Lacena (JAM) (1975)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)***Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships*

date	13-Mar-10	time	2.60	3.63	4.65	5.65	6.64							8.02		8 / 7		
reaction time	0.159	interval		1.03	1.02	1.00	0.99						1.38				3.05	
		velocity	5.00	8.25	8.33	8.50	8.59						9.42	7.48			8.36	

Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.54	3.54	4.54	5.52	6.50	7.48	8.48	9.51	10.56	11.60		12.76		3 / 4			
reaction time	0.144	interval	1.00	1.00	0.98	0.98	0.98	1.00	1.03	1.05	1.04	1.16					2.98	2.96	3.12
wind	0.3 m/s	velocity	5.12	8.50	8.50	8.67	8.67	8.67	8.50	8.25	8.10	8.17	9.05	7.84			8.56	8.61	8.17

Heat 2 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	2.53	3.55	4.56	5.55	6.57	7.57	8.59	9.61	10.66	11.73		12.90		6 / 2			
reaction time	0.135	interval	1.02	1.01	0.99	1.02	1.00	1.02	1.02	1.02	1.05	1.07	1.17				3.02	3.04	3.14
wind	-0.3 m/s	velocity	5.14	8.33	8.42	8.59	8.33	8.50	8.33	8.33	8.10	7.94	8.97	7.75			8.44	8.39	8.12

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

date	14-Jun-09	time	2.58	3.60	4.63	5.62	6.64	7.65	8.67	9.71	10.76	11.84		13.00		/ 3			
reaction time	0.174	interval	1.02	1.03	0.99	1.02	1.01	1.02	1.04	1.05	1.08	1.16					3.04	3.05	3.17
wind	-0.1 m/s	velocity	5.04	8.33	8.25	8.59	8.33	8.42	8.33	8.17	8.10	7.87	9.05	7.69			8.39	8.36	8.04

FINAL - 2004 Olympic Games (Athens, GRE)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	24-Aug-04	time	2.54	3.54	4.53	5.49	6.48	7.45	8.45	9.45	10.49	11.54		12.73		2 / 5			
reaction time	0.195	interval		1.00	0.99	0.96	0.99	0.97	1.00	1.00	1.04	1.05	1.19				2.95	2.96	3.09
wind	0.3 m/s	velocity	5.12	8.50	8.59	8.85	8.59	8.76	8.50	8.50	8.17	8.10	8.82	7.86			8.64	8.61	8.25

Gomis, Sandra (FRA) (1983)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2016 Meeting Paris (Saint-Denis, FRA) (TV Analysis)***Henson (2020) - Athlete First: 2016 year end hurdle report*

date	27-Aug-16	time	2.54	3.60	4.64	5.64	6.64	7.70	8.74	9.82	10.86	11.98		13.18		9 / 8			
reaction time	0.161	interval		1.06	1.04	1.00	1.00	1.06	1.04	1.08	1.04	1.12	1.20				3.10	3.10	3.24
wind	0.2 m/s	velocity	5.12	8.02	8.17	8.50	8.50	8.02	8.17	7.87	8.17	7.59	8.75	7.59			8.23	8.23	7.87

Gong Qiudan (CHN) (2003)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)***CAA Hurdle Development (2021)*

date	25-Jun-21	time	2.75	3.90	5.10	6.24	7.39	8.54	9.69	10.88	12.04	13.20		14.52		7 / 5			
reaction time	0.198	interval		1.15	1.20	1.14	1.15	1.15	1.15	1.19	1.16	1.16	1.32				3.49	3.45	3.51
wind	-1.6 m/s	velocity	4.73	7.39	7.08	7.46	7.39	7.39	7.39	7.14	7.33	7.33	7.61	6.89			7.31	7.39	7.26

Heat 2 - 2021 National Grand Prix (Chengdu, CHN)*CAA Hurdle Development (2021)*

date	02-Apr-21	time	2.74	3.90	5.06	6.20	7.34	8.46	9.60	10.76	11.90	13.08		14.35		5 / 3			
reaction time	0.164	interval		1.16	1.16	1.14	1.14	1.12	1.14	1.16	1.14	1.18	1.27				3.46	3.40	3.48
wind	0.4 m/s	velocity	4.74	7.33	7.33	7.46	7.46	7.59	7.46	7.33	7.46	7.20	7.91	6.97			7.37	7.50	7.33

A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)*CAA Hurdle Development (2021)*

date	13-Mar-21	time	2.72	3.88	5.04	6.16	7.28							8.76		1 / 4		
reaction time	0.182	interval		1.16	1.16	1.12	1.12						1.48	PB			3.44	
		velocity	4.78	7.33	7.33	7.59	7.59						8.78	6.85			7.41	

Heat 1 - 2021 National Indoor Grand Prix (Chengdu, CHN)*CAA Hurdle Development (2021)*

date	13-Mar-21	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	

Gotou, Wakana (JPN) 2006)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)***Takashima (2024) - national high school sports festival - biomechanics data*

date	01-Aug-24	time	2.72	3.79	4.86	5.96	7.03	8.10	9.19	10.29	11.39	12.52		13.78		4 / 5			
reaction time	0.169	interval		1.07	1.07	1.10	1.07	1.07	1.09	1.10	1.10	1.13	1.26				3.24	3.23	3.33
wind	1.0 m/s	velocity	4.78	7.94	7.94	7.73	7.94	7.94	7.80	7.73	7.73	7.52	7.98	7.26			7.87	7.89	7.66

Grabuste, Aiga (LAT) (1988)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	2.76	3.86	4.94	6.02	7.09	8.16	9.24	10.34	11.44	12.56		13.78		5 / 8			
reaction time	0.181	interval		1.10	1.08	1.08	1.07	1.07	1.08	1.10	1.10	1.12	1.22				3.26	3.22	3.32
wind	-0.4 m/s	velocity	4.71	7.73	7.87	7.87	7.94	7.94	7.87	7.73	7.73	7.59	8.61	7.26			7.82	7.92	7.68

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Graudyn, Yuliya (RUS) (1970)																		
Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)		<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>																
date	27-Aug-99	time	2.58	3.61	4.62	5.63	6.61	7.59	8.57	9.60	10.62	11.67		12.95	8 / 7			
reaction time	0.135	interval		1.03	1.01	1.01	0.98	0.98	0.98	1.03	1.02	1.05	1.28			3.05	2.94	3.10
wind	1.9 m/s	velocity	5.04	8.25	8.42	8.42	8.67	8.67	8.67	8.25	8.33	8.10	8.20	7.72		8.36	8.67	8.23
Gravvogel, Louisa (GER) (1996)																		
FINAL - 2019 ISTAF Indoor (Berlin, GER) (TV Analysis)		<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																
date	1-Feb-19	time	2.62	3.66	4.70	5.72	6.74							8.12	1 / 5			
reaction time	0.138	interval		1.04	1.04	1.02	1.02						1.38			3.10		
wind		velocity	4.96	8.17	8.17	8.33	8.33						9.42	7.39		8.23		
Graversgaard, Mette (DEN) (1995)																		
Heat 1 - 2024 FBK Games (Hengelo, NED)		<i>Omega Timing (2024) - continental tour gold race analysis</i>																
date	07-Jul-24	time	2.50	3.57	4.61	5.62	6.64	7.69	8.77	9.84	10.92	12.02		13.33	3 / 6			
reaction time	0.148	interval		1.07	1.04	1.01	1.02	1.05	1.08	1.07	1.08	1.10	1.31			3.12	3.15	3.25
wind	0.3 m/s	velocity	5.20	7.94	8.17	8.42	8.33	8.10	7.87	7.94	7.87	7.73	7.67	7.50		8.17	8.10	7.85
Heat 3 - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)		<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>																
date	03-Mar-24	time	2.58	3.64	4.66	5.66	6.70							8.10	5 / 3			
reaction time	0.152	interval		1.06	1.02	1.00	1.04						1.40			3.08		
wind		velocity	5.04	8.02	8.33	8.50	8.17						9.29	7.41		8.28		
FINAL - 2024 Villa de Madrid Indoor Meeting (Madrid, ESP) (TV Analysis)		<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>																
date	23-Feb-24	time	2.57	3.60	4.62	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		
wind		velocity	5.06	8.25	8.33	8.33	8.17						9.15	7.41		8.31		
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)		<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	23-Aug-23	time	2.60	3.64	4.66	5.64	6.66	7.66	8.65	9.66	10.70	11.78		12.94	9 / 7			
reaction time	0.163	interval		1.04	1.02	0.98	1.02	1.00	0.99	1.01	1.04	1.08	1.16			3.04	3.01	3.13
wind	-0.4 m/s	velocity	5.00	8.17	8.33	8.67	8.33	8.50	8.59	8.42	8.17	7.87	8.66	7.73		8.39	8.47	8.15
Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)		<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	22-Aug-23	time	2.60	3.63	4.65	5.65	6.63	7.62	8.62	9.63	10.65	11.67		12.87	5 / 5			
reaction time	0.166	interval		1.03	1.02	1.00	0.98	0.99	1.00	1.01	1.02	1.02	1.20			3.05	2.97	3.05
wind	0.1 m/s	velocity	5.00	8.25	8.33	8.50	8.67	8.59	8.50	8.42	8.33	8.33	8.38	7.77		8.36	8.59	8.36
FINAL - 2023 FBK Games (Hengelo, NED)		<i>Omega Timing (2023) - continental tour race analysis</i>																
date	04-Jun-23	time	2.48	3.55	4.58	5.61	6.63	7.65	8.69	9.73	10.79	11.86		13.18	3 / 9			
reaction time	0.132	interval		1.07	1.03	1.03	1.02	1.02	1.04	1.04	1.06	1.07	1.32			3.13	3.08	3.17
wind	0.2 m/s	velocity	5.24	7.94	8.25	8.25	8.33	8.33	8.17	8.17	8.02	7.94	7.61	7.59		8.15	8.28	8.04
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)		<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																
date	21-Aug-22	time	2.56	3.60	4.62	5.62	6.61	7.61	8.61	9.61	10.69	11.77		12.99	2 / 6			
reaction time	0.154	interval		1.04	1.02	1.00	0.99	1.00	1.00	1.00	1.08	1.08	1.22			3.06	2.99	3.16
wind	-0.1 m/s	velocity	5.08	8.17	8.33	8.50	8.59	8.50	8.50	8.50	7.87	7.87	8.24	7.70		8.33	8.53	8.07
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)		<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																
date	24-Jul-22	time	2.52	3.62	4.63	5.65	6.66	7.66	8.68	9.72	10.75	11.82		13.05	8 / 7			
reaction time	0.134	interval		1.10	1.01	1.02	1.01	1.00	1.02	1.04	1.03	1.07	1.23			3.13	3.03	3.14
wind	-0.1 m/s	velocity	5.16	7.73	8.42	8.33	8.42	8.50	8.33	8.17	8.25	7.94	8.17	7.66		8.15	8.42	8.12
Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)		<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																
date	23-Jul-22	time	2.56	3.63	4.63	5.65	6.67	7.67	8.67	9.70	10.78	11.83		13.04	3 / 3			
reaction time	0.130	interval		1.07	1.00	1.02	1.02	1.00	1.00	1.03	1.08	1.05	1.21			3.09	3.02	3.16
wind	-0.3 m/s	velocity	5.08	7.94	8.50	8.33	8.33	8.50	8.50	8.25	7.87	8.10	8.31	7.67		8.25	8.44	8.07
FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)		<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																
date	25-Sep-20	time	2.53	3.63	4.66	5.73	6.76	7.76	8.80	9.86	10.93	12.00		13.25	3 / 6			
reaction time	0.140	interval		1.10	1.03	1.07	1.03	1.00	1.04	1.06	1.07	1.07	1.25			3.20	3.07	3.20
wind	1.1 m/s	velocity	5.14	7.73	8.25	7.94	8.25	8.50	8.17	8.02	7.94	7.94	8.04	7.55		7.97	8.31	7.97
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)		<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																
date	17-Sep-20	time	2.62	3.66	4.70	5.72	6.74	7.78	8.82	9.86	10.94	12.06		13.30	1 / 8			
reaction time	0.160	interval		1.04	1.04	1.02	1.02	1.04	1.04	1.04	1.08	1.12	1.24			3.10	3.10	3.24
wind	0.1 m/s	velocity	4.96	8.17	8.17	8.33	8.33	8.17	8.17	8.17	7.87	7.59	8.10	7.52		8.23	8.23	7.87
FINAL - 2020 Memorial Van Damme (Brussels, BEL) (TV Analysis)		<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																
date	04-Sep-20	time	2.50	3.57	4.60	5.67	6.70	7.73	8.76	9.80	10.87	11.97		13.26	6 / 2			
reaction time	0.145	interval		1.07	1.03	1.07	1.03	1.03	1.03	1.04	1.07	1.10	1.29			3.17	3.09	3.21
wind	-0.2 m/s	velocity	5.20	7.94	8.25	7.94	8.25	8.25	8.25	8.17	7.94	7.73	7.79	7.54		8.04	8.25	7.94

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

date	23-Aug-20	time	2.57	3.63	4.67	5.70	6.73	7.73	8.77	9.77	10.86	11.93	13.13	3 / 3				
reaction time	0.145	interval		1.06	1.04	1.03	1.03	1.00	1.04	1.00	1.09	1.07	1.20	NR PB	3.13	3.07	3.16	
wind	1.4 m/s	velocity	5.06	8.02	8.17	8.25	8.25	8.50	8.17	8.50	7.80	7.94	8.37	7.62	8.15	8.31	8.07	

Grigoryeva, Natalya (URS) (1962)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 1991 IAAF World Championships (Tokyo, JPN)***Numazawa (1991) - analysis of time in the 3rd world athletics championships, women's 100m hurdles*

date	30-Aug-91	time	2.55	3.57	4.56	5.54	6.51	7.49	8.48	9.48	10.51	11.56	12.69	6 / 3				
reaction time	0.162	interval		1.02	0.99	0.98	0.97	0.98	0.99	1.00	1.03	1.05	1.13		2.99	2.94	3.08	
wind	-1.7 m/s	velocity	5.10	8.33	8.59	8.67	8.76	8.67	8.59	8.50	8.25	8.10	9.29	7.88	8.53	8.67	8.28	

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

date	30-Sep-88	time	2.59	3.61	4.61	5.59	6.57	7.57	8.56	9.57	10.58	11.62	12.79	8 / 4				
reaction time	0.179	interval		1.02	1.00	0.98	0.98	1.00	0.99	1.01	1.01	1.04	1.17		3.00	2.97	3.06	
wind	0.2 m/s	velocity	5.02	8.33	8.50	8.67	8.67	8.50	8.59	8.42	8.42	8.17	8.97	7.82	8.50	8.59	8.33	

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	2.65	3.67	4.67	5.67	6.65	7.63	8.63	9.63	10.63	11.71	12.81	3 / 3				
reaction time	0.176	interval		1.02	1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.08	1.10		3.02	2.96	3.08	
wind	0.4 m/s	velocity	4.91	8.33	8.50	8.50	8.67	8.67	8.50	8.50	8.50	7.87	9.55	7.81	8.44	8.61	8.28	

FINAL - 1987 European Cup (Prague, TCH)*Sušanka (1987) - hints on computer processing of biomechanical data*

date	28-Jun-87	time	2.68	3.73	4.72	5.72	6.75	7.76	8.76	9.80	10.88	11.92	13.11	6 / 4				
reaction time		interval		1.05	0.99	1.00	1.03	1.01	1.00	1.04	1.08	1.04	1.19		3.04	3.04	3.16	
wind	-0.9 m/s	velocity	4.85	8.10	8.59	8.50	8.25	8.42	8.50	8.17	7.87	8.17	8.82	7.63	8.39	8.39	8.07	

Grimont, Corinne (FRA) (1963)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)***Aubert (1986) - indoor - video - haies, etude des performances*

date	25-Jan-86	time	2.82	3.87	4.93	5.97	6.99						8.51	1 / 4				
reaction time		interval		1.05	1.06	1.04	1.02					1.52			3.15			
		velocity	4.61	8.10	8.02	8.17	8.33					8.55	7.05		8.10			

Heat ? - 1986 French National Indoor Championships (Lievin, FRA)*Aubert (1986) - indoor - video - haies, etude des performances*

date	25-Jan-86	time	2.73	3.80	4.88	5.92	6.98						8.38	1 / 4				
reaction time		interval		1.07	1.08	1.04	1.06					1.40			3.19			
		velocity	4.76	7.94	7.87	8.17	8.02					9.29	7.16		7.99			

Groot, Mira (NED) (1995)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 2 - 2024 FBK Games (Hengelo, NED)***Omega Timing (2024) - continental tour gold race analysis*

date	07-Jul-24	time	2.53	3.63	4.69	5.73	6.76	7.81	8.86	9.92	11.00	12.11	13.42	1 / 8				
reaction time	0.152	interval		1.10	1.06	1.04	1.03	1.05	1.05	1.06	1.08	1.11	1.31		3.20	3.13	3.25	
wind	0.3 m/s	velocity	5.14	7.73	8.02	8.17	8.25	8.10	8.10	8.02	7.87	7.66	7.67	7.45	7.97	8.15	7.85	

Gubina, Yekaterina (RUS) (1985)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2012 Windsprint (Sundsvall, SWE)***Blomkvist (2012) - www.sub13.se*

date	17-Jun-12	time	2.81	3.87	4.92	5.96	6.99	8.04	9.09	10.14	11.22	12.30	13.47	1 / 2				
reaction time		interval		1.06	1.05	1.04	1.03	1.05	1.05	1.05	1.08	1.08	1.17		3.15	3.13	3.21	
wind	0.8 m/s	velocity	4.63	8.02	8.10	8.17	8.25	8.10	8.10	8.10	7.87	7.87	8.97	7.42	8.10	8.15	7.94	

Gunnell, Sally (GBR) (1966)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)***Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	2.72	3.81	4.87	5.91	6.95	7.95	8.97	9.99	11.01	12.04	13.13	2 / 6				
reaction time	0.182	interval		1.09	1.06	1.04	1.04	1.00	1.02	1.02	1.02	1.03	1.09		3.19	3.06	3.07	
wind	0.4 m/s	velocity	4.78	7.80	8.02	8.17	8.17	8.50	8.33	8.33	8.33	8.25	9.63	7.62	7.99	8.33	8.31	

Guo Jinglei (CHN) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)***CAA Hurdle Development (2019)*

date	23-Aug-19	time	2.77	3.95	5.07	6.19	7.31	8.44	9.59	10.89	12.16	13.48	14.97	2 / 5				
reaction time	0.196	interval		1.18	1.12	1.12	1.12	1.13	1.15	1.30	1.27	1.32	1.49		3.42	3.40	3.89	
wind	0.2 m/s	velocity	4.69	7.20	7.59	7.59	7.59	7.52	7.39	6.54	6.69	6.44	7.05	6.68	7.46	7.50	6.56	

U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)*CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.62	3.72	4.81	5.87	6.94	8.02	9.09	10.19	11.32	12.43	13.76	7 / 2				
reaction time	0.161	interval		1.10	1.09	1.06	1.07	1.08	1.07	1.10	1.13	1.11	1.33		3.25	3.22	3.34	
wind	-0.1 m/s	velocity	4.96	7.73	7.80	8.02	7.94	7.87	7.94	7.73	7.52	7.66	7.89	7.27	7.85	7.92	7.63	

U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN)*CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.69	3.81	4.91	5.97	7.07	8.16	9.26	10.39	11.54	12.69	13.97	5 / 2				
reaction time	0.168	interval		1.12	1.10	1.06	1.10	1.09	1.10	1.13	1.15	1.15	1.28		3.28	3.29	3.43	
wind	-0.2 m/s	velocity	4.83	7.59	7.73	8.02	7.73	7.80	7.73	7.52	7.39	7.39	8.20	7.16	7.77	7.75	7.43	

Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	02-Aug-19	time	2.82	3.92	5.05	6.17	7.29	8.42	9.54	10.69	11.84	13.01	14.34	7 / 7				
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reaction time	0.172	interval	1.10	1.13	1.12	1.12	1.13	1.12	1.15	1.15	1.17	1.33			3.35	3.37	3.47
wind	-0.3 m/s	velocity	4.61	7.73	7.52	7.59	7.59	7.52	7.59	7.39	7.39	7.26	7.89	6.97	7.61	7.57	7.35

Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.80	3.92	5.02	6.10	7.18	8.28	9.40	10.52	11.66	12.82		14.14	3 / 4	3.30	3.30	3.42
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				7.73	7.73	7.46
wind	0.7 m/s	velocity	4.64	7.59	7.73	7.87	7.87	7.73	7.59	7.59	7.46	7.33	7.95	7.07				

CAA Hurdle Development (2019)

Heat 4 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)

date	13-Apr-19	time	2.73	3.85	4.94	6.02	7.13	8.22	9.34	10.48	11.63	12.80		14.17	8 / 2	3.29	3.32	3.46
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				7.75	7.68	7.37
wind	0.1 m/s	velocity	4.76	7.59	7.80	7.87	7.66	7.80	7.59	7.46	7.39	7.26	7.66	7.06				

CAA Hurdle Development (2019)

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

date	4-Mar-19	time	2.72	3.82	4.92	6.02	7.12							8.68	2 / 4	3.30		
reaction time		interval	1.10	1.10	1.10	1.10						1.56				7.73		
		velocity	4.78	7.73	7.73	7.73	7.73					8.33	6.91					

CAA Hurdle Development (2019)

Hall, Anna (USA) (2001)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)																	
date	08-Aug-24	time	2.54	3.61	4.64	5.67	6.70	7.76	8.82	9.88	10.95	12.04		13.36	7 / 6		
reaction time	0.186	interval	7 steps	1.07	1.03	1.03	1.03	1.06	1.06	1.06	1.07	1.09	1.32		3.13	3.15	3.22
wind	-0.1 m/s	velocity	5.12	7.94	8.25	8.25	8.25	8.02	8.02	8.02	7.94	7.80	7.61	7.49	8.15	8.10	7.92

Paris 2024 Olympic Games - Results Book (2024)

Hall, Dior (USA) (1996)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 NCAA Indoor Championships (Birmingham, AL) (TV Analysis)																
date	9-Mar-19	time	2.48	3.54	4.56	5.58	6.62						8.11	2 / 6		
reaction time	0.155	interval	1.06	1.02	1.02	1.04					1.49			3.10		
		velocity	5.24	8.02	8.33	8.33	8.17				8.72	7.40		8.23		

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

Hallin, Elinore (SWE) (1987)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pentathlon - Heat 1 - 2013 European Indoor Championships (Göteborg, SWE)																
date	01-Mar-13	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		

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

FINAL - 2011 Windsprint (Sundsvall, SWE)

date	31-Jul-11	time	2.81	3.95	5.03	6.14							14.06	1 / 6		
reaction time		interval	1.14	1.08	1.11										3.33	
wind	1.4 m/s	velocity	4.63	7.46	7.87	7.66						7.11			7.66	

Blomkvist (2011) - www.sub13.se

Hamáčková, Barbora (CZE) (1992)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)																	
date	02-Aug-14	time	2.77	3.89	4.96	6.03	7.09	8.18	9.24	10.33	11.44	12.57		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
wind	0.4 m/s	velocity	4.69	7.59	7.94	7.94	8.02	7.80	8.02	7.80	7.66	7.52	8.40	7.24	7.82	7.94	7.66

Feher (2014) - Final report from the Czech Republic national championships

Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)

date	02-Aug-14	time	2.76	3.88	4.96	6.01	7.07	8.13	9.21	10.27	11.38	12.51		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		=PB		3.25	3.20	3.30
wind	0.2 m/s	velocity	4.71	7.59	7.87	8.10	8.02	8.02	7.87	8.02	7.66	7.52	8.14	7.25		7.85	7.97	7.73

Feher (2014) - Final report from the Czech Republic national championships

FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)

date	25-Feb-12	time	2.82	4.02	5.13	6.25	7.41							8.98	1 / 7		
reaction time	0.190	interval	1.20	1.11	1.12	1.16					1.57				3.43		
		velocity	4.61	7.08	7.66	7.59	7.33				8.28	6.68			7.43		

Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles

Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)

date	25-Feb-12	time	2.85	4.02	5.17	6.28	7.40							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		

Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles

Han Zhirou (CHN) (2002)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (76cm)																	
date	14-Aug-19	time	2.73	3.82	4.92	6.01	7.11	8.24	9.35	10.50	11.68	12.86		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
wind	0.0 m/s	velocity	4.76	7.80	7.73	7.80	7.73	7.52	7.66	7.39	7.20	7.20	7.84	7.04	7.77	7.63	7.26

CAA Hurdle Development (2019)

Hao Ling (CHN) (1996)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)																	
date	15-Sep-18	time	2.80	3.94	5.02	6.10	7.19	8.31	9.43	10.58	11.76	12.98		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
wind	-0.6 m/s	velocity	4.64	7.46	7.87	7.87	7.80	7.59	7.59	7.39	7.20	6.97	7.72	6.97	7.73	7.66	7.18

Henson (2018) - coaching observations

Harala, Lotta (FIN) (1992)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)																					<i>Paris 2024 Olympic Games - Results Book (2024)</i>								
date	09-Aug-24	time	2.46	3.53	4.57	5.60	6.61	7.62	8.63	9.65	10.69	11.75		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											
wind	0.4 m/s	velocity	5.28	7.94	8.17	8.25	8.42	8.42	8.42	8.33	8.17	8.02	7.73	7.66		8.12	8.42	8.17											
Repechage 3 - 2024 Olympic Games (Paris, FRA)																					<i>Paris 2024 Olympic Games - Results Book (2024)</i>								
date	08-Aug-24	time	2.43	3.49	4.50	5.51	6.49	7.48	8.49	9.50	10.53	11.57		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											
wind	-0.2 m/s	velocity	5.35	8.02	8.42	8.42	8.67	8.59	8.42	8.42	8.25	8.17	7.79	7.78		8.28	8.56	8.28											
Heat 5 - 2024 Olympic Games (Paris, FRA)																					<i>Paris 2024 Olympic Games - Results Book (2024)</i>								
date	07-Aug-24	time	2.44	3.49	4.51	5.51	6.50	7.51	8.52	9.55	10.60	11.66		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											
wind	-0.6 m/s	velocity	5.33	8.10	8.33	8.50	8.59	8.42	8.42	8.25	8.10	8.02	7.67	7.71		8.31	8.47	8.12											
FINAL - 2020 Galà dei Castelli (Bellinzona, SUI) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>								
date	15-Sep-20	time	2.56	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											
wind	0.0 m/s	velocity	5.08	8.17	8.17	8.33	8.50	8.33	8.33	8.17	8.02	7.87	7.67	7.58		8.23	8.39	8.02											
FINAL - 2020 Bauhaus Galan (Stockholm, SWE) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>								
date	23-Aug-20	time	2.57	3.63	4.63	5.66	6.66	7.66	8.70	9.73	10.76	11.86		13.07	2 / 2														
reaction time	0.154	interval	1.06	1.00	1.03	1.00	1.00	1.04	1.03	1.03	1.10	1.21	=PB			3.09	3.04	3.16											
wind	1.4 m/s	velocity	5.06	8.02	8.50	8.25	8.50	8.50	8.17	8.25	8.25	7.73	8.31	7.65		8.25	8.39	8.07											
FINAL - 2020 Finnish National Championships (Turku, FIN) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>								
date	14-Aug-20	time	2.56	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											
wind	1.0 m/s	velocity	5.08	7.94	8.25	8.17	8.50	8.50	8.25	8.25	8.17	8.25	7.61	7.60		8.12	8.42	8.23											
FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>								
date	11-Aug-20	time	2.56	3.62	4.62	5.64	6.64	7.66	8.68	9.70	10.76	11.82		13.10	7 / 6														
reaction time	0.190	interval	1.06	1.00	1.02	1.00	1.02	1.02	1.02	1.06	1.06	1.28	PB			3.08	3.04	3.14											
wind	1.2 m/s	velocity	5.08	8.02	8.50	8.33	8.50	8.33	8.33	8.33	8.02	8.02	7.85	7.63		8.28	8.39	8.12											
FINAL - 2020 Motonet GP (Jyräskylä, FIN) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>								
date	08-Jul-20	time	2.56	3.66	4.70	5.73	6.76	7.80	8.83	9.86	10.93	12.03		13.29	3 / 4														
reaction time		interval	1.10	1.04	1.03	1.03	1.04	1.03	1.03	1.07	1.10	1.26				3.17	3.10	3.20											
wind	0.7 m/s	velocity	5.08	7.73	8.17	8.25	8.25	8.17	8.25	8.25	7.94	7.73	7.98	7.52		8.04	8.23	7.97											
Harper Nelson, Dawn (USA) (1984)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>								
date	31-Aug-18	time	2.54	3.58	4.56	5.56	6.56	7.58	8.59	9.62	10.70	11.78		13.08	1 / 8														
reaction time	0.154	interval	1.04	0.98	1.00	1.00	1.02	1.01	1.03	1.08	1.08	1.30				3.02	3.03	3.19											
wind	0.1 m/s	velocity	5.12	8.17	8.67	8.50	8.50	8.33	8.43	8.24	7.87	7.87	8.08	7.65		8.44	8.42	7.99											
FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>								
date	13-Jul-18	time	2.52	3.52	4.52	5.52	6.52	7.52	8.52	9.54	10.56	11.60		12.86	2 / 4														
reaction time	0.170	interval	1.00	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.26				3.00	3.00	3.08											
wind	0.1 m/s	velocity	5.16	8.50	8.50	8.50	8.50	8.50	8.50	8.33	8.33	8.17	8.33	7.78		8.50	8.50	8.28											
FINAL - 2018 USATF National Championships (Des Moines, IA) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>								
date	23-Jun-18	time	2.43	3.52	4.53	5.52	6.50	7.50	8.48	9.50	10.51	11.57		12.93	7 / 5														
reaction time		interval	1.09	1.01	0.99	0.98	1.00	0.98	1.02	1.01	1.06	1.36				3.09	2.96	3.09											
wind	-1.4 m/s	velocity	5.35	7.80	8.42	8.59	8.67	8.50	8.67	8.33	8.42	8.02	7.72	7.73		8.25	8.61	8.25											
FINAL - 2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>								
date	10-Jun-18	time	2.56	3.56	4.56	5.56	6.54	7.52	8.54	9.56	10.56	11.60		12.80	7 / 6														
reaction time	0.173	interval	1.00	1.00	1.00	0.98	0.98	1.02	1.02	1.00	1.04	1.20				3.00	2.98	3.06											
wind	1.3 m/s	velocity	5.08	8.50	8.50	8.50	8.67	8.67	8.33	8.33	8.50	8.17	8.75	7.81		8.50	8.56	8.33											
FINAL - 2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>								
date	31-May-18	time	2.60	3.66	4.68	5.70	6.72	7.72	8.72	9.76	10.80	11.84		13.09	7 / 6														
reaction time	0.177	interval	1.06	1.02	1.02	1.02	1.00	1.00	1.04	1.04	1.04	1.25				3.10	3.02	3.12											
wind	0.0 m/s	velocity	5.00	8.02	8.33	8.33	8.33	8.50	8.50	8.17	8.17	8.17	8.40	7.64		8.23	8.44	8.17											
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>								
date	12-May-18	time	2.52	3.56	4.60	5.60	6.60	7.60	8.62	9.62	10.66	11.70		12.94	8 / 8														
reaction time	0.140	interval	1.04	1.04	1.00	1.00	1.00	1.02	1.00	1.04	1.04	1.24				3.08	3.02	3.08											
wind	0.9 m/s	velocity	5.16	8.17	8.17	8.50	8.50	8.50	8.33	8.50	8.17	8.17	8.47	7.73		8.28	8.44	8.28											

FINAL - 2018 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	04-May-18	time	2.48	3.56	4.56	5.62	6.62	7.66	8.72	9.76	10.84	11.86	13.21	6 / 8			
reaction time	0.152	interval		1.08	1.00	1.06	1.00	1.04	1.06	1.04	1.08	1.02	1.35		3.14	3.10	3.14
wind	0.5 m/s	velocity	5.24	7.87	8.50	8.02	8.50	8.17	8.02	8.17	7.87	8.33	7.78	7.57	8.12	8.23	8.12

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

date	24-Aug-17	time	2.52	3.54	4.56	5.56	6.56	7.56	8.56	9.56	10.60	11.66	12.93	4 / 6			
reaction time	0.135	interval		1.02	1.02	1.00	1.00	1.00	1.00	1.00	1.04	1.06	1.27		3.04	3.00	3.10
wind	-0.3 m/s	velocity	5.16	8.33	8.33	8.50	8.50	8.50	8.50	8.50	8.17	8.02	8.27	7.73	8.39	8.50	8.23

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

date	12-Aug-17	time	2.47	3.51	4.51	5.49	6.47	7.45	8.40	9.39	10.39	11.41	12.63	6 / 2			
reaction time	0.167	interval		1.04	1.00	0.98	0.98	0.98	0.95	0.99	1.00	1.02	1.22		3.02	2.91	3.01
wind	0.1 m/s	velocity	5.26	8.17	8.50	8.67	8.67	8.67	8.95	8.59	8.50	8.33	8.61	7.92	8.44	8.76	8.47

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

date	11-Aug-17	time	2.42	3.47	4.48	5.46	6.44	7.41	8.37	9.36	10.36	11.38	12.63	7 / 1			
reaction time	0.109	interval		1.05	1.01	0.98	0.98	0.97	0.96	0.99	1.00	1.02	1.25		3.04	2.91	3.01
wind	0.2 m/s	velocity	5.37	8.10	8.42	8.67	8.67	8.76	8.85	8.59	8.50	8.33	8.40	7.92	8.39	8.76	8.47

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

date	06-Jul-17	time	2.46	3.50	4.50	5.50	6.50	7.50	8.48	9.48	10.50	11.50	12.75	1 / 6			
reaction time	0.116	interval		1.04	1.00	1.00	1.00	1.00	0.98	1.00	1.02	1.00	1.25		3.04	2.98	3.02
wind	-0.1 m/s	velocity	5.28	8.17	8.50	8.50	8.50	8.50	8.67	8.50	8.33	8.50	8.40	7.84	8.39	8.56	8.44

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

date	04-Jul-17	time	2.52	3.52	4.54	5.52	6.50	7.48	8.46	9.44	10.46	11.52	12.74	2 / 5			
reaction time	0.161	interval		1.00	1.02	0.98	0.98	0.98	0.98	0.98	1.02	1.06	1.22		3.00	2.94	3.06
wind	0.1 m/s	velocity	5.16	8.50	8.33	8.67	8.67	8.67	8.67	8.67	8.33	8.02	8.61	7.85	8.50	8.67	8.33

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

date	27-May-17	time	2.50	3.54	4.54	5.52	6.50	7.48	8.46	9.44	10.44	11.44	12.66	3 / 3			
reaction time	0.154	interval		1.04	1.00	0.98	0.98	0.98	0.98	0.98	1.00	1.00	1.22		3.02	2.94	2.98
wind	0.8 m/s	velocity	5.20	8.17	8.50	8.67	8.67	8.67	8.67	8.67	8.50	8.50	8.61	7.90	8.44	8.67	8.56

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

date	29-Apr-17	time	2.53	3.56	4.56	5.56	6.56	7.56	8.53	9.53	10.53	11.56	12.79	3 / 3			
reaction time		interval		1.03	1.00	1.00	1.00	1.00	0.97	1.00	1.00	1.03	1.23		3.03	2.97	3.03
wind	1.0 m/s	velocity	5.14	8.25	8.50	8.50	8.50	8.50	8.76	8.50	8.50	8.25	8.54	7.82	8.42	8.59	8.42

FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	01-Sep-16	time	2.48	3.48	4.52	5.50	6.50	7.48	8.46	9.44	10.44	11.48	12.73	7 / 3			
reaction time	0.148	interval		1.00	1.04	0.98	1.00	0.98	0.98	0.98	1.00	1.04	1.25		3.02	2.96	3.02
wind	0.4 m/s	velocity	5.24	8.50	8.17	8.67	8.50	8.67	8.67	8.67	8.50	8.17	8.40	7.86	8.44	8.61	8.44

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

date	27-Aug-16	time	2.52	3.52	4.52	5.52	6.50	7.48	8.46	9.44	10.46	11.46	12.65	3 / 2			
reaction time	0.132	interval		1.00	1.00	1.00	0.98	0.98	0.98	0.98	1.02	1.00	1.19		3.00	2.94	3.00
wind	0.2 m/s	velocity	5.16	8.50	8.50	8.50	8.67	8.67	8.67	8.67	8.33	8.50	8.82	7.91	8.50	8.67	8.50

FINAL - 2016 Athletissima (Luasanne, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	25-Aug-16	time	2.54	3.56	4.56	5.56	6.54	7.52	8.52	9.52	10.52	11.52	12.71	8 / 2			
reaction time	0.145	interval		1.02	1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.00	1.19		3.02	2.96	3.00
wind	0.7 m/s	velocity	5.12	8.33	8.50	8.50	8.67	8.67	8.50	8.50	8.50	8.50	8.82	7.87	8.44	8.61	8.50

FINAL - 2016 Bislett Games (Oslo, NOR) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	09-Jun-16	time	2.50	3.54	4.54	5.52	6.52	7.50	8.50	9.52	10.52	11.54	12.75	3 / 2			
reaction time	0.161	interval		1.04	1.00	0.98	1.00	0.98	1.00	1.02	1.00	1.02	1.21		3.02	2.98	3.04
wind	-0.4 m/s	velocity	5.20	8.17	8.50	8.67	8.50	8.67	8.50	8.33	8.50	8.33	8.68	7.84	8.44	8.56	8.39

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

date	05-Jun-16	time	2.50	3.53	4.53	5.56	6.53	7.53	8.50	9.48	10.50	11.53	12.78	2 / 4			
reaction time	0.151	interval		1.03	1.00	1.03	0.97	1.00	0.97	0.98	1.02	1.03	1.25		3.06	2.94	3.03
wind	-0.3 m/s	velocity	5.20	8.25	8.50	8.25	8.76	8.50	8.76	8.67	8.33	8.25	8.40	7.82	8.33	8.67	8.42

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

date	28-May-16	time	2.52	3.56	4.56	5.58	6.58	7.56	8.56	9.58	10.62	11.70	13.01	4 / 8			
reaction time		interval		1.04	1.00	1.02	1.00	0.98	1.00	1.02	1.04	1.08	1.31		3.06	2.98	3.14
wind	0.7 m/s	velocity	5.16	8.17	8.50	8.33	8.50	8.67	8.50	8.33	8.17	7.87	8.02	7.69	8.33	8.56	8.12

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

date	17-Aug-13	time	2.52	3.52	4.50	5.48	6.44	7.40	8.38	9.36	10.38	11.40	12.59	5 / 4			
reaction time	0.194	interval		1.00	0.98	0.98	0.96	0.96	0.98	0.98	1.02	1.02	1.19		2.96	2.90	3.02

wind	-0.6 m/s	velocity	5.16	8.50	8.67	8.67	8.85	8.85	8.67	8.67	8.33	8.33	8.82	7.94	8.61	8.79	8.44	
<i>Harper, Dawn (USA) (1984)</i>																		
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)															<i>Henson (2021) - Athlete First: major championships report</i>			
date	07-Aug-12	time	2.48	3.48	4.44	5.40	6.36	7.32	8.28	9.24	10.22	11.22	12.37	4 / 2				
reaction time	0.156	interval	1.00	0.96	0.96	0.96	0.96	0.96	0.96	0.98	1.00	1.15	PB		2.92	2.88	2.94	
wind	-0.2 m/s	velocity	5.24	8.50	8.85	8.85	8.85	8.85	8.85	8.85	8.67	8.50	9.13	8.08	8.73	8.85	8.67	
FINAL - 2011 IAAF World Championships (Daegu, KOR)															<i>KSSB (2011) - biomechanical analysis of women's 100m hurdle</i>			
date	03-Sep-11	time	2.60	3.60	4.57	5.52	6.47	7.43	8.41	9.39	10.37	11.37	12.47	8 / 3				
reaction time	0.164	interval	1.00	0.97	0.95	0.95	0.96	0.98	0.98	0.98	1.00	1.10	PB		2.92	2.89	2.96	
wind	1.1 m/s	velocity	5.00	8.50	8.76	8.95	8.95	8.85	8.67	8.67	8.67	8.50	9.55	8.02	8.73	8.82	8.61	
FINAL - 2009 IAAF World Championships (Berlin, GER)															<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>			
date	19-Aug-09	time	2.58	3.58	4.60	5.61	6.60	7.59	8.58	9.60	10.63	11.68	12.81	5 / 7				
reaction time	0.164	interval	1.00	1.02	1.01	0.99	0.99	0.99	1.02	1.03	1.05	1.13			3.03	2.97	3.10	
wind	0.2 m/s	velocity	5.04	8.50	8.33	8.42	8.59	8.59	8.59	8.33	8.25	8.10	9.29	7.81	8.42	8.59	8.23	
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)															<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>			
date	19-Aug-09	time	2.54	3.55	4.52	5.48	6.43	7.38	8.36	9.33	10.34	11.37	12.48	4 / 1				
reaction time	0.161	interval	1.01	0.97	0.96	0.95	0.95	0.98	0.97	1.01	1.03	1.11	PB		2.94	2.88	3.01	
wind	0.3 m/s	velocity	5.12	8.42	8.76	8.85	8.95	8.95	8.67	8.76	8.42	8.25	9.46	8.01	8.67	8.85	8.47	
Heat 1 - 2009 IAAF World Championships (Berlin, GER)															<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>			
date	18-Aug-09	time	2.58	3.59	4.58	5.58	6.56	7.54	8.54	9.55	10.55	11.58	12.70	1 / 1				
reaction time	0.143	interval	1.01	0.99	1.00	0.98	0.98	1.00	1.01	1.00	1.03	1.12			3.00	2.96	3.04	
wind	0.1 m/s	velocity	5.04	8.42	8.59	8.50	8.67	8.67	8.50	8.42	8.50	8.25	9.38	7.87	8.50	8.61	8.39	
FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)															<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>			
date	13-Sep-08	time	2.60	3.62	4.61	5.60	6.57	7.54	8.52	9.51	10.54	11.58	12.67	8 / 4 3				
reaction time	0.182	interval	1.02	0.99	0.99	0.97	0.97	0.98	0.99	1.03	1.04	1.09			3.00	2.92	3.06	
wind	0.3 m/s	velocity	5.00	8.33	8.59	8.59	8.76	8.76	8.67	8.59	8.25	8.17	9.63	7.89	8.50	8.73	8.33	
FINAL - 2008 Olympic Games (Beijing, CHN)															<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>			
date	19-Aug-08	time	2.55	3.59	4.53	5.51	6.50	7.46	8.45	9.44	10.43	11.44	12.54	6 / 1				
reaction time	0.193	interval	1.04	0.94	0.98	0.99	0.96	0.99	0.99	0.99	1.01	1.10	PB		2.96	2.94	2.99	
wind	0.1 m/s	velocity	5.10	8.17	9.04	8.67	8.59	8.85	8.59	8.59	8.59	8.42	9.55	7.97	8.61	8.67	8.53	
Semi-Final 2 - 2008 Olympic Games (Beijing, CHN)															<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>			
date	18-Aug-08	time	2.58	3.58	4.55	5.54	6.52	7.48	8.45	9.45	10.49	11.52	12.66	7 / 2				
reaction time	0.191	interval	1.00	0.97	0.99	0.98	0.96	0.97	1.00	1.04	1.03	1.14			2.96	2.91	3.07	
wind	0.2 m/s	velocity	5.04	8.50	8.76	8.59	8.67	8.85	8.76	8.50	8.17	8.25	9.21	7.90	8.61	8.76	8.31	
FINAL - 2008 USA Olympic Trials (Eugene, OR)															<i>USATF Hurdle Development (2008)</i>			
date	06-Jul-08	time	2.58	3.57	4.55	5.50	6.45	7.39	8.34	9.39	10.46	11.46	12.62	2 / 3				
reaction time		interval	0.99	0.98	0.95	0.95	0.94	0.95	1.05	1.07	1.00	1.16			2.92	2.84	3.12	
wind	3.8 m/s	velocity	5.04	8.59	8.67	8.95	8.95	9.04	8.95	8.10	7.94	8.50	9.05	7.92	8.73	8.98	8.17	
FINAL - 2007 USATF National Championships (Indianapolis, IN)															<i>USATF Men's Hurdle Development (2007)</i>			
date	23-Jun-07	time	2.65	3.69	4.70	5.71	6.72	7.74	8.79	9.81	10.86	11.95	13.07	1 / 8				
reaction time		interval	1.04	1.01	1.01	1.01	1.02	1.05	1.02	1.05	1.09	1.12			3.06	3.08	3.16	
wind	-1.3 m/s	velocity	4.91	8.17	8.42	8.42	8.33	8.10	8.33	8.10	7.80	9.37	7.65		8.33	8.28	8.07	
FINAL - 2006 USATF National Championships (Indianapolis, IN)															<i>USATF Women's Hurdle Development (2006)</i>			
date	24-Jun-06	time	2.67	3.69	4.72	5.72	6.72	7.71	8.74	9.75	10.78	11.88	13.02	7 / 7				
reaction time		interval	1.02	1.03	1.00	1.00	0.99	1.03	1.01	1.03	1.10	1.14			3.05	3.02	3.14	
wind	-0.4 m/s	velocity	4.87	8.33	8.25	8.50	8.50	8.59	8.25	8.42	8.25	7.73	9.21	7.68	8.36	8.44	8.12	
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)															<i>USATF Women's Sprint Development (2003)</i>			
date	22-Jun-03	time	2.60	3.69	4.72	5.76	6.79	7.81	8.86	9.91	10.98	12.03	13.28	5 / 1				
reaction time		interval	1.09	1.03	1.04	1.03	1.02	1.05	1.05	1.07	1.05	1.25			3.16	3.10	3.17	
wind	2.3 m/s	velocity	5.00	7.80	8.25	8.17	8.25	8.33	8.10	8.10	7.94	8.10	8.40	7.53	8.07	8.23	8.04	
Harrison, Kendra (Keni) (USA) (1992) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10																		
FINAL - 2024 Weltklasse (Zürich, SUI)															<i>Omega Timing (2024) - diamond league race analysis</i>			
date	05-Sep-24	time	2.45	3.51	4.49	5.46	6.42	7.37	8.34	9.32	10.32	11.33	12.57	1 / 7				
reaction time	0.147	interval	1.06	0.98	0.97	0.96	0.95	0.97	0.98	1.00	1.01	1.24			3.01	2.88	2.99	
wind	0.8 m/s	velocity	5.31	8.02	8.67	8.76	8.85	8.95	8.76	8.67	8.50	8.42	8.10	7.96	8.47	8.85	8.53	
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)															<i>Omega Timing (2024) - diamond league race analysis</i>			
date	30-Aug-24	time	2.48	3.53	4.50	5.49	6.45	7.43	8.41	9.40	10.40	11.43	12.70	9 / 6				
reaction time	0.161	interval	1.05	0.97	0.99	0.96	0.98	0.98	0.99	1.00	1.03	1.27			3.01	2.92	3.02	
wind	-0.4 m/s	velocity	5.24	8.10	8.76	8.59	8.85	8.67	8.67	8.59	8.50	8.25	7.91	7.87	8.47	8.73	8.44	

FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)

date	25-Aug-24	time	2.44	3.46	4.43	5.41	6.39	7.36	8.33	9.29	10.28	11.28		12.52	3 / 8			
reaction time	0.153	interval		1.02	0.97	0.98	0.98	0.97	0.97	0.96	0.99	1.00	1.24			2.97	2.92	2.95
wind	-0.5 m/s	velocity	5.33	8.33	8.76	8.67	8.67	8.76	8.76	8.85	8.59	8.50	8.10	7.99		8.59	8.73	8.64

Omega Timing (2024) - diamond league race analysis

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

date	25-Aug-24	time	2.44	3.46	4.43	5.41	6.37	7.34	8.31	9.28	10.25	11.25		12.49	7 / 3			
reaction time	0.186	interval		1.02	0.97	0.98	0.96	0.97	0.97	0.97	0.97	1.00	1.24			2.97	2.90	2.94
wind	-0.3 m/s	velocity	5.33	8.33	8.76	8.67	8.85	8.76	8.76	8.76	8.76	8.50	8.10	8.01		8.59	8.79	8.67

Omega Timing (2024) - diamond league race analysis

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

date	30-Jun-24	time	2.57	3.60	4.57	5.52	6.46	7.41	8.35	9.33	10.31	11.30		12.39	3 / 6			
reaction time		interval		1.03	0.97	0.95	0.94	0.95	0.94	0.98	0.98	0.99	1.09			2.95	2.83	2.95
wind	0.7 m/s	velocity	5.06	8.25	8.76	8.95	9.04	8.95	9.04	8.67	8.67	8.59	9.22	8.07		8.64	9.01	8.64

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

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

date	29-Jun-24	time	2.57	3.62	4.61	5.56	6.51	7.47	8.42	9.41	10.38	11.38		12.52	7 / 2			
reaction time		interval		1.05	0.99	0.95	0.95	0.96	0.95	0.99	0.97	1.00	1.14			2.99	2.86	2.96
wind	0.8 m/s	velocity	5.06	8.10	8.59	8.95	8.95	8.85	8.95	8.59	8.76	8.50	8.82	7.99		8.53	8.92	8.61

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

Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)

date	28-Jun-24	time	2.59	3.63	4.60	5.57	6.51	7.45	8.41	9.39	10.38	11.38		12.49	3 / 1			
reaction time		interval		1.04	0.97	0.97	0.94	0.94	0.96	0.98	0.99	1.00	1.11			2.98	2.84	2.97
wind	0.2 m/s	velocity	5.02	8.17	8.76	8.76	9.04	9.04	8.85	8.67	8.59	8.50	9.05	8.01		8.56	8.98	8.59

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

FINAL - 2023 Prefontaine Classic (Eugene, OR)

date	17-Sep-23	time	2.45	3.48	4.47	5.42	6.37	7.31	8.28	9.24	10.22	11.20		12.44	6 / 3			
reaction time	0.166	interval		1.03	0.99	0.95	0.95	0.94	0.97	0.96	0.98	0.98	1.24			2.97	2.86	2.92
wind	1.8 m/s	velocity	5.31	8.25	8.59	8.95	8.95	9.04	8.76	8.85	8.67	8.67	8.10	8.04		8.59	8.92	8.73

Omega Timing (2023) - diamond league race analysis

FINAL - 2023 Weltklasse (Zürich, SU)

date	31-Aug-23	time	2.42	3.46	4.46	5.44	6.40	7.36	8.33	9.32	10.33	11.34		12.59	5 / 3			
reaction time	0.145	interval		1.04	1.00	0.98	0.96	0.96	0.97	0.99	1.01	1.01	1.25			3.02	2.89	3.01
wind	-0.2 m/s	velocity	5.37	8.17	8.50	8.67	8.85	8.85	8.76	8.59	8.42	8.42	8.04	7.94		8.44	8.82	8.47

Omega Timing (2023) - diamond league race analysis

FINAL - 2023 World Athletics Championships (Budapest, HUN)

date	24-Aug-23	time	2.58	3.60	4.57	5.52	6.47	7.42	8.39	9.37	10.35	11.38		12.46	4 / 3			
reaction time	0.155	interval		1.02	0.97	0.95	0.95	0.95	0.97	0.98	0.98	1.03	1.08			2.94	2.87	2.99
wind	-0.2 m/s	velocity	5.04	8.33	8.76	8.95	8.95	8.95	8.76	8.67	8.67	8.25	9.31	8.03		8.67	8.89	8.53

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

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

date	23-Aug-23	time	2.50	3.48	4.45	5.39	6.32	7.25	8.21	9.18	10.15	11.15		12.33	7 / 1			
reaction time	0.142	interval		0.98	0.97	0.94	0.93	0.93	0.96	0.97	0.97	1.00	1.18			2.89	2.82	2.94
wind	0.5 m/s	velocity	5.20	8.67	8.76	9.04	9.14	9.14	8.85	8.76	8.76	8.50	8.52	8.11		8.82	9.04	8.67

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

Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

date	22-Aug-23	time	2.50	3.47	4.44	5.39	6.31	7.26	8.21	9.15	10.12	11.11		12.24	4 / 1			
reaction time	0.155	interval		0.97	0.97	0.95	0.92	0.95	0.95	0.94	0.97	0.99	1.13			2.89	2.82	2.90
wind	0.1 m/s	velocity	5.20	8.76	8.76	8.95	9.24	8.95	8.95	9.04	8.76	8.59	8.89	8.17		8.82	9.04	8.79

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

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

date	21-Jul-23	time	2.42	3.44	4.42	5.36	6.30	7.24	8.18	9.13	10.10	11.09		12.31	4 / 2			
reaction time	0.165	interval		1.02	0.98	0.94	0.94	0.94	0.94	0.95	0.97	0.99	1.22			2.94	2.82	2.91
wind	0.6 m/s	velocity	5.37	8.33	8.67	9.04	9.04	9.04	9.04	8.95	8.76	8.59	8.24	8.12		8.67	9.04	8.76

Omega Timing (2023) - diamond league race analysis

FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)

date	16-Jul-23	time	2.44	3.46	4.44	5.40	6.35	7.29	8.23	9.18	10.15	11.13		12.35	4 / 2			
reaction time	0.161	interval		1.02	0.98	0.96	0.95	0.94	0.94	0.95	0.97	0.98	1.22			2.96	2.83	2.90
wind	0.9 m/s	velocity	5.33	8.33	8.67	8.85	8.95	9.04	9.04	8.95	8.76	8.67	8.24	8.10		8.61	9.01	8.79

Omega Timing (2023) - diamond league race analysis

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

date	08-Jul-23	time	2.55	3.55	4.55	5.51	6.46	7.41	8.36	9.32	10.32	11.30		12.42	6 / 2			
reaction time		interval		1.00	1.00	0.96	0.95	0.95	0.95	0.96	1.00	0.98	1.12			2.96	2.85	2.94
wind	0.4 m/s	velocity	5.10	8.50	8.50	8.85	8.95	8.95	8.95	8.85	8.50	8.67	8.97	8.05		8.61	8.95	8.67

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

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

date	24-Jun-23	time	2.53	3.57	4.52	5.45	6.40	7.34	8.28	9.24	10.21	11.20		12.29	5 / 1			
reaction time	0.151	interval		1.04	0.95	0.93	0.95	0.94	0.94	0.96	0.97	0.99	1.09			2.92	2.83	2.92
wind	2.8 m/s	velocity	5.14	8.17	8.95	9.14	8.95	9.04	9.04	8.85	8.76	8.59	9.22	8.14		8.73	9.01	8.73

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

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

date	27-May-23	time	2.57	3.57	4.54	5.48	6.42	7.38	8.34	9.30	10.26	11.26		12.35	6 / 2			
reaction time	0.207	interval		1.00	0.97	0.94	0.94	0.96	0.96	0.96	0.96	1.00	1.09			2.91	2.86	2.92

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

wind	-0.2 m/s	velocity	5.06	8.50	8.76	9.04	9.04	8.85	8.85	8.85	8.85	8.50	9.22	8.10		8.76	8.92	8.73	
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	08-Sep-22	time	2.47	3.60	4.67	5.67	6.67	7.67	8.64	9.64	10.67	11.71		13.02		7 / 8			
reaction time	0.163	interval		1.13	1.07	1.00	1.00	1.00	0.97	1.00	1.03	1.04	1.31				3.20	2.97	3.07
wind	-0.3 m/s	velocity	5.26	7.52	7.94	8.50	8.50	8.50	8.76	8.50	8.25	8.17	7.67	7.68			7.97	8.59	8.31
FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	02-Sep-22	time	2.44	3.45	4.44	5.37	6.32	7.30	8.25	9.21	10.18	11.18		12.40		5 / 3			
reaction time	0.163	interval		1.01	0.99	0.93	0.95	0.98	0.95	0.96	0.97	1.00	1.22				2.93	2.88	2.93
wind	0.1 m/s	velocity	5.33	8.42	8.59	9.14	8.95	8.67	8.95	8.85	8.76	8.50	8.24	8.06			8.70	8.85	8.70
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	26-Aug-22	time	2.47	3.50	4.50	5.47	6.44	7.42	8.39	9.37	10.34	11.36		12.59		6 / 6			
reaction time	0.171	interval		1.03	1.00	0.97	0.97	0.98	0.97	0.98	0.97	1.02	1.23				3.00	2.92	2.97
wind	-0.9 m/s	velocity	5.26	8.25	8.50	8.76	8.76	8.67	8.76	8.67	8.76	8.33	8.17	7.94			8.50	8.73	8.59
FINAL - 2022 Gyulai István Memorial (Székesfehérvár, HUN) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	08-Aug-22	time	2.47	3.50	4.50	5.46	6.43	7.40	8.34	9.32	10.30	11.32		12.49		4 / 2			
reaction time	0.140	interval		1.03	1.00	0.96	0.97	0.97	0.94	0.98	0.98	1.02	1.17				2.99	2.88	2.98
wind	2.4 m/s	velocity	5.26	8.25	8.50	8.85	8.76	8.76	9.04	8.67	8.67	8.33	8.59	8.01			8.53	8.85	8.56
FINAL - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	24-Jul-22	time	2.45	3.47	4.47	5.40	6.36	7.30	8.26	9.27						dnf	3 / --		
reaction time	0.145	interval		1.02	1.00	0.93	0.96	0.94	0.96	1.01								2.95	2.86
wind	2.5 m/s	velocity	5.31	8.33	8.50	9.14	8.85	9.04	8.85	8.42								8.64	8.92
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	24-Jul-22	time	2.46	3.48	4.43	5.36	6.30	7.23	8.15	9.13	10.10	11.08		12.27		6 / 2			
reaction time	0.155	interval		1.02	0.95	0.93	0.94	0.93	0.92	0.98	0.97	0.98	1.19				2.90	2.79	2.93
wind	0.9 m/s	velocity	5.28	8.33	8.95	9.14	9.04	9.14	9.24	8.67	8.76	8.67	8.45	8.15			8.79	9.14	8.70
Heat 6 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	23-Jul-22	time	2.50	3.53	4.53	5.50	6.46	7.40	8.36	9.36	10.33	11.36		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
wind	-0.4 m/s	velocity	5.20	8.25	8.50	8.76	8.85	9.04	8.85	8.50	8.76	8.25	8.10	7.94			8.50	8.92	8.50
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	25-Jun-22	time	2.53	3.53	4.51	5.45	6.40	7.35	8.31	9.28	10.26	11.24		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
wind	-1.4 m/s	velocity	5.14	8.50	8.67	9.04	8.95	8.95	8.85	8.76	8.67	8.67	9.14	8.10			8.73	8.92	8.70
FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	28-May-22	time	2.50	3.53	4.51	5.52	6.52	7.50	8.52	9.52	10.53	11.57		12.78		6 / 8			
reaction time	0.144	interval		1.03	0.98	1.01	1.00	0.98	1.02	1.00	1.01	1.04	1.21				3.02	3.00	3.05
wind	-0.7 m/s	velocity	5.20	8.25	8.67	8.42	8.50	8.67	8.33	8.50	8.42	8.17	8.31	7.82			8.44	8.50	8.36
FINAL - 2022 Doha Diamond League (Doha, QAT) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	13-May-22	time	2.50	3.53	4.51	5.45	6.40	7.34	8.29	9.25	10.23	11.25		12.43		4 / 1			
reaction time	0.159	interval		1.03	0.98	0.94	0.95	0.94	0.95	0.96	0.98	1.02	1.18				2.95	2.84	2.96
wind	3.8 m/s	velocity	5.20	8.25	8.67	9.04	8.95	9.04	8.95	8.85	8.67	8.33	8.52	8.05			8.64	8.98	8.61
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)															<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>				
date	08-May-22	time	2.53	3.60	4.62	5.60	6.58	7.58	8.56	9.55	10.56	11.61		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
wind	-0.1 m/s	velocity	5.14	7.94	8.33	8.67	8.67	8.50	8.67	8.59	8.42	8.10	8.74	7.84			8.31	8.61	8.36
FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	22-Apr-22	time	2.50	3.54	4.54	5.50	6.46	7.42	8.38	9.36	10.38	11.38		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
wind	0.8 m/s	velocity	5.20	8.17	8.50	8.85	8.85	8.85	8.85	8.67	8.33	8.50	8.52	7.96			8.50	8.85	8.50
Invitational FINAL - 2022 Texas Relays (Austin, TX) (TV Analysis)															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	26-Mar-22	time	2.54	3.52	4.45	5.40	6.34	7.27	8.24	9.21	10.18	11.18		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
wind	3.9 m/s	velocity	5.12	8.67	9.14	8.95	9.04	9.14	8.76	8.76	8.76	8.50	8.82	8.12			8.92	8.98	8.67
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	02-Aug-21	time	2.44	3.48	4.46	5.42	6.38	7.36	8.30	9.28	10.26	11.28		12.52		4 / 2			
reaction time	0.158	interval		1.04	0.98	0.96	0.96	0.98	0.94	0.98	0.98	1.02	1.24				2.98	2.88	2.98
wind	-0.3 m/s	velocity	5.33	8.17	8.67	8.85	8.85	8.67	9.04	8.67	8.67	8.33	8.10	7.99			8.56	8.85	8.56
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				

date	20-Jun-21	time	2.45	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
wind	0.8 m/s	velocity	5.31	8.50	8.67	8.85	8.95	8.85	8.85	8.85	8.50	8.33	8.17	8.02		8.67	8.89	8.56
Semi Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	20-Jun-21	time	2.43	3.46	4.44	5.40	6.36	7.32	8.27	9.25	10.23	11.26		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
wind	1.3 m/s	velocity	5.35	8.25	8.67	8.85	8.85	8.85	8.95	8.67	8.67	8.25	8.10	8.00		8.59	8.89	8.53
Heat 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	19-Jun-21	time	2.56	3.58	4.54	5.50	6.46	7.42	8.38	9.36	10.36	11.39		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
wind	-0.3 m/s	velocity	5.08	8.33	8.85	8.85	8.85	8.85	8.85	8.67	8.50	8.25	9.14	8.01		8.67	8.85	8.47
FINAL - 2021 USATF Golden Games (Walnut, CA) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season</i>			
date	09-May-21	time	2.50	3.50	4.46	5.41	6.36	7.31	8.29	9.26	10.24	11.26		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
wind	2.0 m/s	velocity	5.20	8.50	8.85	8.95	8.95	8.95	8.67	8.76	8.67	8.33	8.24	8.01		8.76	8.85	8.59
FINAL - 2020 Millrose Games (New York, NY)															<i>PrimeTime Timing (2020) - http://results.nyrrmillrosegames.org/</i>			
date	08-Feb-20	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		
FINAL - 2019 IAAF World Championships (Doha, QAT)															<i>CAA Hurdle Development (2019)</i>			
date	06-Oct-19	time	2.41	3.46	4.44	5.39	6.38	7.32	8.29	9.26	10.25	11.25		12.46	6 / 2			
reaction time	0.140	interval		1.05	0.98	0.95	0.99	0.94	0.97	0.97	0.99	1.00	1.21			2.98	2.90	2.96
wind	0.3 m/s	velocity	5.39	8.10	8.67	8.95	8.59	9.04	8.76	8.76	8.59	8.50	8.31	8.03		8.56	8.79	8.61
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	06-Oct-19	time	2.38	3.38	4.36	5.34	6.30	7.26	8.24	9.22	10.22	11.26		12.58	5 / 1			
reaction time	0.155	interval		1.00	0.98	0.98	0.96	0.96	0.98	0.98	1.00	1.04	1.32			2.96	2.90	3.02
wind	0.8 m/s	velocity	5.46	8.50	8.67	8.67	8.85	8.85	8.67	8.67	8.50	8.17	7.61	7.95		8.61	8.79	8.44
Heat 4 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)															<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>			
date	05-Oct-19	time	2.36	3.36	4.34	5.30	6.26	7.22	8.20	9.20	10.22	11.26		12.55	4 / 1			
reaction time	0.131	interval		1.00	0.98	0.96	0.96	0.96	0.98	1.00	1.02	1.04	1.29			2.94	2.90	3.06
wind	0.3 m/s	velocity	5.51	8.50	8.67	8.85	8.85	8.85	8.67	8.50	8.33	8.17	7.79	7.97		8.67	8.79	8.33
FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	06-Sep-19	time	2.50	3.52	4.53	5.50	6.49	7.47	8.45	9.45	10.47	11.52		12.73	4 / 2			
reaction time	0.141	interval		1.02	1.01	0.97	0.99	0.98	0.98	1.00	1.02	1.05	1.21			3.00	2.95	3.07
wind	0.0 m/s	velocity	5.20	8.33	8.42	8.76	8.59	8.67	8.67	8.50	8.33	8.10	8.68	7.86		8.50	8.64	8.31
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	18-Aug-19	time	2.50	3.53	4.53	5.50	6.47	7.44	8.41	9.41	10.41	11.44		12.66	2 / 2			
reaction time	0.172	interval		1.03	1.00	0.97	0.97	0.97	0.97	1.00	1.00	1.03	1.22			3.00	2.91	3.03
wind	-0.2 m/s	velocity	5.20	8.25	8.50	8.76	8.76	8.76	8.76	8.50	8.50	8.25	8.61	7.90		8.50	8.76	8.42
FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	27-Jul-19	time	2.53	3.50	4.47	5.44	6.38	7.34	8.30	9.27	10.24	11.24		12.44	3 / 1			
reaction time		interval		0.97	0.97	0.97	0.94	0.96	0.96	0.97	0.97	1.00	1.20			2.91	2.86	2.94
wind	-1.2 m/s	velocity	5.14	8.76	8.76	8.76	9.04	8.85	8.85	8.76	8.76	8.50	8.75	8.04		8.76	8.92	8.67
FINAL - 2019 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	12-Jul-19	time	2.54	3.54	4.52	5.48	6.44	7.38	8.32	9.30	10.28	11.26		12.43	4 / 1			
reaction time	0.126	interval		1.00	0.98	0.96	0.96	0.94	0.94	0.98	0.98	0.98	1.17			2.94	2.84	2.94
wind	0.1 m/s	velocity	5.12	8.50	8.67	8.85	8.85	9.04	9.04	8.67	8.67	8.67	8.97	8.05		8.67	8.98	8.67
FINAL - 2019 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	30-May-19	time	2.52	3.54	4.52	5.48	6.46	7.44	8.42	9.40	10.38	11.38		12.52	5 / 1			
reaction time	0.137	interval		1.02	0.98	0.96	0.98	0.98	0.98	0.98	0.98	1.00	1.14			2.96	2.94	2.96
wind	1.3 m/s	velocity	5.16	8.33	8.67	8.85	8.67	8.67	8.67	8.67	8.67	8.50	9.21	7.99		8.61	8.67	8.61
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)															<i>Henson (2021) - Athlete First: 2018 year end hurdle report</i>			
date	08-Sep-18	time	2.44	3.46	4.44	5.40	6.36	7.34	8.30	9.28	10.26	11.28		12.52	3 / 2			
reaction time	0.174	interval		1.02	0.98	0.96	0.96	0.98	0.96	0.98	0.98	1.02	1.24			2.96	2.90	2.98
wind	-0.1 m/s	velocity	5.33	8.33	8.67	8.85	8.85	8.67	8.85	8.67	8.67	8.33	8.47	7.99		8.61	8.79	8.56
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)															<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	31-Aug-18	time	2.54	3.56	4.56	5.52	6.52	7.48	8.46	9.44	10.42	11.44		12.63	4 / 2			
reaction time	0.205	interval		1.02	1.00	0.96	1.00	0.96	0.98	0.98	0.98	1.02	1.19			2.98	2.94	2.98
wind	0.1 m/s	velocity	5.12	8.33	8.50	8.85	8.50	8.85	8.67	8.67	8.67	8.33	8.82	7.92		8.56	8.67	8.56

FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	22-Jul-18	time	2.44	3.46	4.44	5.40	6.36	7.28	8.24	9.20	10.18	11.18	12.36	6 / 1			
reaction time	0.169	interval		1.02	0.98	0.96	0.96	0.92	0.96	0.96	0.98	1.00	1.18		2.96	2.84	2.94
wind	0.6 m/s	velocity	5.33	8.33	8.67	8.85	8.85	9.24	8.85	8.85	8.67	8.50	8.90	8.09	8.61	8.98	8.67

FINAL - 2018 USATF National Championships (Des Moines, IA) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	23-Jun-18	time	2.40	3.40	4.38	5.37	6.34	7.31	8.24	9.21	10.16	11.16	12.46	5 / 1			
reaction time		interval		1.00	0.98	0.99	0.97	0.97	0.93	0.97	0.95	1.00	1.30		2.97	2.87	2.92
wind	-1.4 m/s	velocity	5.42	8.50	8.67	8.59	8.76	8.76	9.14	8.76	8.95	8.50	8.08	8.03	8.59	8.89	8.73

FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	12-May-18	time	2.44	3.46	4.44	5.40	6.36	7.32	8.30	9.34	10.36	11.34	12.56	5 / 3			
reaction time	0.152	interval		1.02	0.98	0.96	0.96	0.96	0.98	1.04	1.02	0.98	1.22		2.96	2.90	3.04
wind	0.9 m/s	velocity	5.33	8.33	8.67	8.85	8.85	8.85	8.67	8.17	8.33	8.67	8.61	7.96	8.61	8.79	8.39

FINAL - 2018 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	04-May-18	time	2.48	3.50	4.50	5.48	6.44	7.40	8.36	9.34	10.32	11.32	12.53	5 / 1			
reaction time	0.154	interval		1.02	1.00	0.98	0.96	0.96	0.96	0.98	0.98	1.00	1.21		3.00	2.88	2.96
wind	0.5 m/s	velocity	5.24	8.33	8.50	8.67	8.85	8.85	8.85	8.67	8.67	8.50	8.68	7.98	8.50	8.85	8.61

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

date	03-Mar-18	time	2.61	3.63	4.58	5.54	6.49						7.70	5 / 1			
reaction time	0.168	interval		1.02	0.95	0.96	0.95						1.21		2.93		
wind		velocity	4.98	8.33	8.95	8.85	8.95						10.74	12.99	8.70		

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

date	12-Aug-17	time	2.40	3.44	4.46	5.48	6.49	7.50	8.48	9.47	10.46	11.49	12.74	3 / 4			
reaction time	0.146	interval		1.04	1.02	1.02	1.01	1.01	0.98	0.99	0.99	1.03	1.25		3.08	3.00	3.01
wind	0.1 m/s	velocity	5.42	8.17	8.33	8.33	8.42	8.42	8.67	8.59	8.59	8.25	8.40	7.85	8.28	8.50	8.47

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

date	11-Aug-17	time	2.40	3.52	4.57	5.60	6.59	7.56	8.55	9.53	10.53	11.58	12.86	6 / 3			
reaction time	0.148	interval		1.12	1.05	1.03	0.99	0.97	0.99	0.98	1.00	1.05	1.28		3.20	2.95	3.03
wind	0.2 m/s	velocity	5.42	7.59	8.10	8.25	8.59	8.76	8.59	8.67	8.50	8.10	8.20	7.78	7.97	8.64	8.42

FINAL - 2017 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	21-Jul-17	time	2.52	3.56	4.54	5.50	6.46	7.44	8.40	9.38	10.38	11.40	12.51	4 / 1			
reaction time	0.161	interval		1.04	0.98	0.96	0.96	0.98	0.96	0.98	1.00	1.02	1.11		2.98	2.90	3.00
wind	-0.2 m/s	velocity	5.16	8.17	8.67	8.85	8.85	8.67	8.85	8.67	8.50	8.33	9.46	7.99	8.56	8.79	8.50

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

date	09-Jul-17	time	2.42	3.42	4.40	5.36	6.32	7.30	8.26	9.22	10.24	11.24	12.39	5 / 1			
reaction time	0.131	interval		1.00	0.98	0.96	0.96	0.98	0.96	0.96	1.02	1.00	1.15		2.94	2.90	2.98
wind	0.2 m/s	velocity	5.37	8.50	8.67	8.85	8.85	8.67	8.85	8.85	8.33	8.50	9.13	8.07	8.67	8.79	8.56

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

date	04-Jul-17	time	2.38	3.40	4.38	5.34	6.30	7.26	8.20	9.14	10.10	11.08	12.39	5 / 1			
reaction time	0.152	interval		1.02	0.98	0.96	0.96	0.96	0.94	0.94	0.96	0.98	1.31		2.96	2.86	2.88
wind	0.1 m/s	velocity	5.46	8.33	8.67	8.85	8.85	8.85	9.04	9.04	8.85	8.67	8.02	8.07	8.61	8.92	8.85

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

date	05-May-17	time	2.50	3.54	4.52	5.50	6.46	7.44	8.42	9.40	10.40	11.40	12.59	5 / 1			
reaction time	0.128	interval		1.04	0.98	0.98	0.96	0.98	0.98	0.98	1.00	1.00	1.19		3.00	2.92	2.98
wind	-2.3 m/s	velocity	5.20	8.17	8.67	8.67	8.85	8.67	8.67	8.67	8.50	8.50	8.82	7.94	8.50	8.73	8.56

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

date	29-Apr-17	time	2.50	3.55	4.53	5.53	6.50	7.45	8.41	9.37	10.35	11.35	12.56	4 / 1			
reaction time		interval		1.05	0.98	1.00	0.97	0.95	0.96	0.96	0.98	1.00	1.21		3.03	2.88	2.94
wind	1.0 m/s	velocity	5.20	8.10	8.67	8.50	8.76	8.95	8.85	8.85	8.67	8.50	8.68	7.96	8.42	8.85	8.67

FINAL - 2017 Karlsruhe Indoor (Karlsruhe, GER)*(2017.02.10) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	04-Feb-17	time	2.50	3.52	4.51	5.47	6.44						7.76	5 / 1			
reaction time	0.152	interval		1.02	0.99	0.96	0.97						1.32		2.97		
wind		velocity	5.20	8.33	8.59	8.85	8.76						9.85	12.89	8.59		

FINAL - 2017 Rod McCravy Memorial (Lexington, KY)*(2017.01.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Jan-17	time	2.58	3.57	4.52	5.48	6.42						7.75	5 / 1			
reaction time		interval		0.99	0.95	0.96	0.94						1.33		2.90		
wind		velocity	5.04	8.59	8.95	8.85	9.04						9.77	12.90	8.79		

FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	01-Sep-16	time	2.48	3.48	4.48	5.48	6.46	7.44	8.42	9.40	10.38	11.38	12.63	5 / 1			
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reaction time	0.168	interval	1.00	1.00	1.00	0.98	0.98	0.98	0.98	0.98	1.00	1.25			3.00	2.94	2.96
wind	0.4 m/s	velocity	5.24	8.50	8.50	8.50	8.67	8.67	8.67	8.67	8.67	8.50	8.40	7.92	8.50	8.67	8.61

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

date	27-Aug-16	time	2.46	3.48	4.48	5.44	6.40	7.36	8.32	9.28	10.26	11.24		12.44	5 / 1			
reaction time	0.178	interval	1.02	1.00	0.96	0.96	0.96	0.96	0.96	0.96	0.98	0.98	1.20			2.98	2.88	2.92
wind	0.2 m/s	velocity	5.28	8.33	8.50	8.85	8.85	8.85	8.85	8.85	8.67	8.67	8.75	8.04		8.56	8.85	8.73

FINAL - 2016 Athletissime (Luasanne, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	25-Aug-16	time	2.48	3.50	4.48	5.44	6.40	7.36	8.32	9.28	10.26	11.26		12.42	5 / 1			
reaction time	0.148	interval	1.02	0.98	0.96	0.96	0.96	0.96	0.96	0.96	0.98	1.00	1.16			2.96	2.88	2.94
wind	0.7 m/s	velocity	5.24	8.33	8.67	8.85	8.85	8.85	8.85	8.85	8.67	8.50	9.05	8.05		8.61	8.85	8.67

FINAL - 2016 London Anniversary Games (London, GBR)*Vazel (2016) - Analysis of Keni Harrison's World Record 100m Hurdles Race*

date	22-Jul-16	time	2.49	3.49	4.45	5.40	6.33	7.27	8.21	9.15	10.11	11.10		12.20	4 / 1			
reaction time	0.143	interval	1.00	0.96	0.95	0.93	0.94	0.94	0.94	0.94	0.96	0.99	1.10	WR		2.91	2.81	2.89
wind	0.3 m/s	velocity	5.22	8.50	8.85	8.95	9.14	9.04	9.04	9.04	8.85	8.59	9.55	8.20		8.76	9.07	8.82

Heat 2 - 2016 London Anniversary Games (London, GBR)*Brice (2017) - critical determinants of sprint hurdle performance*

date	22-Jul-16	time	2.55	3.56	4.55	5.53	6.47	7.42	8.38	9.34	10.33	11.33		12.40	/ 1			
reaction time	0.156	interval	1.01	0.99	0.98	0.94	0.95	0.96	0.96	0.96	0.99	1.00	1.07			2.98	2.85	2.95
wind	0.2 m/s	velocity	5.10	8.42	8.59	8.67	9.04	8.95	8.85	8.85	8.59	8.50	9.81	8.06		8.56	8.95	8.64

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

date	08-Jul-16	time	2.47	3.50	4.50	5.47	6.44	7.41	8.37	9.37	10.37	11.37		12.62	2 / 6			
reaction time	0.229	interval	1.03	1.00	0.97	0.97	0.97	0.97	0.96	1.00	1.00	1.00	1.25			3.00	2.90	3.00
wind	1.2 m/s	velocity	5.26	8.25	8.50	8.76	8.76	8.76	8.85	8.50	8.50	8.50	8.40	7.92		8.50	8.79	8.50

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

date	16-Jun-16	time	2.46	3.48	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	1.00	1.28			3.00	2.92	3.00
wind	-0.4 m/s	velocity	5.28	8.33	8.50	8.67	8.85	8.85	8.50	8.50	8.50	8.50	8.20	7.90		8.50	8.73	8.50

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

date	05-Jun-16	time	2.46	3.48	4.46	5.43	6.40	7.33	8.30	9.27	10.27	11.27		12.46	6 / 1			
reaction time	0.212	interval	1.02	0.98	0.97	0.97	0.97	0.93	0.97	0.97	1.00	1.00	1.19			2.97	2.87	2.97
wind	-0.3 m/s	velocity	5.28	8.33	8.67	8.76	8.76	9.14	8.76	8.76	8.50	8.50	8.82	8.03		8.59	8.89	8.59

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

date	28-May-16	time	2.42	3.42	4.38	5.32	6.26	7.22	8.14	9.10	10.06	11.02		12.24	6 / 1			
reaction time		interval	1.00	0.96	0.94	0.94	0.96	0.92	0.96	0.96	0.96	0.96	1.22	AR PB		2.90	2.82	2.88
wind	0.7 m/s	velocity	5.37	8.50	8.85	9.04	9.04	8.85	9.24	8.85	8.85	8.85	8.61	8.17		8.79	9.04	8.85

Harrison, Michelle (CAN) (1992)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Repechage 2 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.54	3.63	4.68	5.71	6.73	7.76	8.80	9.85	10.92	11.98		13.30	7 / 7			
reaction time	0.155	interval	1.09	1.05	1.03	1.02	1.03	1.04	1.05	1.07	1.06	1.32				3.17	3.09	3.18
wind	0.4 m/s	velocity	5.12	7.80	8.10	8.25	8.33	8.25	8.17	8.10	7.94	8.02	7.61	7.52		8.04	8.25	8.02

Heat 5 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	07-Aug-24	time	2.52	3.60	4.64	5.67	6.70	7.75	8.79	9.85	10.92	12.03		13.40	8 / 8			
reaction time	0.142	interval	1.08	1.04	1.03	1.03	1.05	1.04	1.06	1.07	1.11	1.37				3.15	3.12	3.24
wind	-0.6 m/s	velocity	5.16	7.87	8.17	8.25	8.25	8.10	8.17	8.02	7.94	7.66	7.34	7.46		8.10	8.17	7.87

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

date	23-Aug-23	time	2.67	3.67	4.69	5.70	6.70	7.72	8.72	9.74	10.78	11.82		13.05	2 / 8			
reaction time	0.158	interval	1.00	1.02	1.01	1.00	1.02	1.00	1.02	1.04	1.04	1.23				3.03	3.02	3.10
wind	-0.4 m/s	velocity	4.87	8.50	8.33	8.42	8.50	8.33	8.50	8.33	8.17	8.17	8.17	7.66		8.42	8.44	8.23

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

date	22-Aug-23	time	2.63	3.63	4.63	5.63	6.62	7.62	8.61	9.63	10.63	11.67		12.88	8 / 6			
reaction time	0.152	interval	1.00	1.00	1.00	0.99	1.00	0.99	1.02	1.00	1.04	1.21				3.00	2.98	3.06
wind	0.1 m/s	velocity	4.94	8.50	8.50	8.50	8.59	8.50	8.59	8.33	8.50	8.17	8.31	7.76		8.50	8.56	8.33

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

date	07-Aug-22	time	2.60	3.62	4.64	5.66	6.68	7.66	8.66	9.70	10.76	11.82		25.13	2 / 8			
reaction time	0.126	interval	1.02	1.02	1.02	1.02	0.98	1.00	1.04	1.06	1.06	13.31				3.06	3.00	3.16
wind	-0.2 m/s	velocity	5.00	8.33	8.33	8.33	8.33	8.67	8.50	8.17	8.02	8.02	0.76	3.98		8.33	8.50	8.07

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

date	05-Aug-22	time	2.60	3.63	4.63	5.60	6.60	7.60	8.58	9.60	10.63	11.67		12.85	6 / 3			
reaction time	0.137	interval	1.03	1.00	0.97	1.00	1.00	0.98	1.02	1.03	1.04	1.18				3.00	2.98	3.09
wind	2.4 m/s	velocity	5.00	8.25	8.50	8.76	8.50	8.50	8.67	8.33	8.25	8.17	8.52	7.78		8.50	8.56	8.25

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

date	24-Jul-22	time	2.60	3.60	4.60	5.56	6.53	7.53	8.53	9.53	10.53	11.57	12.74	4 / 4			
reaction time	0.106	interval		1.00	1.00	0.96	0.97	1.00	1.00	1.00	1.00	1.04	1.17	PB	2.96	2.97	3.04
wind	0.3 m/s	velocity	5.00	8.50	8.50	8.85	8.76	8.50	8.50	8.50	8.50	8.17	8.59	7.85	8.61	8.59	8.39

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

date	23-Jul-22	time	2.60	3.63	4.63	5.63	6.63	7.63	8.63	9.63	10.66	11.70	12.95	2 / 2			
reaction time	0.137	interval		1.03	1.00	1.00	1.00	1.00	1.00	1.00	1.03	1.04	1.25	3.03	3.00	3.07	
wind	-0.3 m/s	velocity	5.00	8.25	8.50	8.50	8.50	8.50	8.50	8.50	8.25	8.17	8.04	7.72	8.42	8.50	8.31

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

date	14-Feb-20	time	2.70	3.79	4.83	5.87	6.92						8.31	5 / 3	
reaction time		interval		1.09	1.04	1.04	1.05						1.39	3.17	
		velocity	4.81	7.80	8.17	8.17	8.10						9.35	7.22	8.04

Hatton, Lucy (GBR) (1994)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis)***Henson (2020) - Athlete First: 2016 year end hurdle report*

date	05-Jun-16	time	2.63	3.70	4.73	5.76	6.80	7.83	8.86	9.93	11.00	12.06	13.36	9 / 8			
reaction time	0.232	interval		1.07	1.03	1.03	1.04	1.03	1.03	1.07	1.07	1.06	1.30	3.13	3.10	3.20	
wind	-0.3 m/s	velocity	4.94	7.94	8.25	8.25	8.17	8.25	8.25	7.94	7.94	8.02	8.08	7.49	8.15	8.23	7.97

Hawkins, Chari (USA) (1991)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.49	3.56	4.59	5.64	6.69	7.71	8.74	9.76	10.81	11.87	13.16	8 / 5			
reaction time	0.155	interval		1.07	1.03	1.05	1.05	1.02	1.03	1.02	1.05	1.06	1.29	3.15	3.10	3.13	
wind	-0.1 m/s	velocity	5.22	7.94	8.25	8.10	8.10	8.33	8.25	8.33	8.10	8.02	7.79	7.60	8.10	8.23	8.15

Hayashi, Miki (JPN) (2005)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)***Takashima (2023) - national high school sports festival - biomechanics data*

date	06-Aug-23	time	2.67	3.72	4.76	5.78	6.82	7.88	8.93	10.03	11.14	12.28	13.53	6 / 1			
reaction time	0.194	interval		1.05	1.04	1.02	1.04	1.06	1.05	1.10	1.11	1.14	1.25	3.11	3.15	3.35	
wind	0.8 m/s	velocity	4.87	8.10	8.17	8.33	8.17	8.02	8.10	7.73	7.66	7.46	8.04	7.39	8.20	8.10	7.61

FINAL - 2022 Japanese National High School Championships (Naruto, JPN)*Kishima (2022) - national high school championships biomechanics data collection*

date	07-Aug-22	time	2.62	3.71	4.78	5.84	6.90	7.96	9.03	10.14	11.24	12.40	13.65	4 / 1			
reaction time	0.125	interval		1.09	1.07	1.06	1.06	1.06	1.07	1.11	1.10	1.16	1.25	3.22	3.19	3.37	
wind	-1.5 m/s	velocity	4.96	7.80	7.94	8.02	8.02	8.02	7.94	7.66	7.73	7.33	8.04	7.33	7.92	7.99	7.57

Hayes, Joanna (USA) (1976)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)***Graubner (2009) - http://www.fgs.uni-halle.de*

date	13-Sep-08	time	2.68	3.75	4.78	5.80	6.82	7.82	8.81	9.84	10.84	11.92	13.06	2 / 3 7			
reaction time	0.156	interval		1.07	1.03	1.02	1.02	1.00	0.99	1.03	1.00	1.08	1.14	3.12	3.01	3.11	
wind	0.3 m/s	velocity	4.85	7.94	8.25	8.33	8.33	8.50	8.59	8.25	8.50	7.87	9.21	7.66	8.17	8.47	8.20

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

date	22-Jun-03	time	2.61	3.60	4.55	5.48	6.47	7.57	8.60	9.64	10.71	11.79	12.96	7 / 7			
reaction time		interval		0.99	0.95	0.93	0.99	1.10	1.03	1.04	1.07	1.08	1.17	2.87	3.12	3.19	
wind	-0.1 m/s	velocity	4.98	8.59	8.95	9.14	8.59	7.73	8.25	8.17	7.94	7.87	8.97	7.72	8.89	8.17	7.99

FINAL - 2004 Olympic Games (Athens, GRE)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	24-Aug-04	time	2.52	3.53	4.50	5.45	6.42	7.36	8.32	9.29	10.27	11.28	12.37	4 / 1			
reaction time	0.169	interval		1.01	0.97	0.95	0.97	0.94	0.96	0.97	0.98	1.01	1.09	OR / PB	2.93	2.87	2.96
wind	0.3 m/s	velocity	5.16	8.42	8.76	8.95	8.76	9.04	8.85	8.76	8.67	8.42	9.63	8.08	8.70	8.89	8.61

Hazel, Louise (GBR) (1985)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	2.70	3.75	4.82	5.89	6.94	8.00	9.07	10.14	11.24	12.39	13.60	6 / 1			
reaction time	0.184	interval		1.05	1.07	1.07	1.05	1.06	1.07	1.07	1.10	1.15	1.21	3.19	3.18	3.32	
wind	-0.1 m/s	velocity	4.81	8.10	7.94	7.94	8.10	8.02	7.94	7.94	7.73	7.39	8.68	7.35	7.99	8.02	7.68

He Jiamin (CHN) (2001)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)***CAA Hurdle Development (2019)*

date	23-Aug-19	time	2.90	4.09	5.29	6.47	7.66	8.88	10.08	11.30	12.56	13.86	15.33	2 / 6			
reaction time	0.216	interval		1.19	1.20	1.18	1.19	1.22	1.20	1.22	1.26	1.30	1.47	3.57	3.61	3.78	
wind	-0.2 m/s	velocity	4.48	7.14	7.08	7.20	7.14	6.97	7.08	6.97	6.75	6.54	7.14	6.52	7.14	7.06	6.75

U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)*CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.74	3.89	5.00	6.13	7.24	8.39	9.53	10.67	11.83	13.00	14.33	2 / 6			
reaction time	0.164	interval		1.15	1.11	1.13	1.11	1.15	1.14	1.14	1.16	1.17	1.33	3.39	3.40	3.47	
wind	-0.1 m/s	velocity	4.74	7.39	7.66	7.52	7.66	7.39	7.46	7.46	7.33	7.26	7.89	6.98	7.52	7.50	7.35

U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN)*CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.74	3.87	5.00	6.12	7.23	8.34	9.47	10.58	11.74	12.93		14.20	6 / 3				
reaction time	0.190	interval		1.13	1.13	1.12	1.11	1.11	1.13	1.11	1.16	1.19	1.27	PB		3.38	3.35	3.46	
wind	0.0 m/s	velocity	4.74	7.52	7.52	7.59	7.66	7.66	7.52	7.66	7.33	7.14	8.27	7.04		7.54	7.61	7.37	
He Xinyi (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN)																<i>CAA Hurdle Development (2019)</i>			
date	14-Aug-19	time	2.75	3.89	5.01	6.16	7.29	8.46	9.64	10.87	12.10	13.37		14.79	3 / 5				
reaction time	0.179	interval		1.14	1.12	1.15	1.13	1.17	1.18	1.23	1.23	1.27	1.42	=PB		3.41	3.48	3.73	
wind	0.0 m/s	velocity	4.73	7.46	7.59	7.39	7.52	7.26	7.20	6.91	6.91	6.69	7.39	6.76		7.48	7.33	6.84	
Helsby, Ashley (GBR) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2010 Windsprint (Sundsvall, SWE)																<i>Blomkvist (2010) - 100/110m Hurdles: Development</i>			
date	08-Aug-10	time	2.67	3.75	4.81	5.86	6.90	7.95	9.04	10.14	11.28	12.49		14.01	/ 3				
reaction time		interval		1.08	1.06	1.05	1.04	1.05	1.09	1.10	1.14	1.21	1.52			3.19	3.18	3.45	
wind	0.6 m/s	velocity	4.87	7.87	8.02	8.10	8.17	8.10	7.80	7.73	7.46	7.02	6.91	7.14		7.99	8.02	7.39	
Hemphill, Megu (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 3 - 2022 Japanese Multi-Event National Championships (Akita, JPN)																<i>Takefu (2023) - performance analysis of heptathletes in the 2022 season</i>			
date	04-Jun-22	time	2.72	3.79	4.83	5.87	6.92	7.96	9.00	10.06	11.13	12.21		13.45	6 / 1				
reaction time		interval		1.07	1.04	1.04	1.05	1.04	1.04	1.06	1.07	1.08	1.24			3.15	3.13	3.21	
wind	0.4 m/s	velocity	4.78	7.94	8.17	8.17	8.10	8.17	8.17	8.02	7.94	7.87	8.10	7.43		8.10	8.15	7.94	
Heptathlon - Heat 1 - 2022 Michitaka Kinami Memorial (Osaka, JPN)																<i>Takefu (2023) - performance analysis of heptathletes in the 2022 season</i>			
date	30-Apr-22	time	2.75	3.85	4.92	5.97	7.03	8.08	9.15	10.23	11.34	12.47		13.76	3 / 1				
reaction time	0.159	interval		1.10	1.07	1.05	1.06	1.05	1.07	1.08	1.11	1.13	1.29			3.22	3.18	3.32	
wind	-0.6 m/s	velocity	4.73	7.73	7.94	8.10	8.02	8.10	7.94	7.87	7.66	7.52	7.79	7.27		7.92	8.02	7.68	
Heptathlon - Heat 3 - 2020 Japanese Multi-Event National Championships (Nagano, JPN)																<i>Matsubayashi (2020) - research athlete performance technique- 2020 databook</i>			
date	26-Sep-20	time	2.74	3.85	4.91	5.97	7.01	8.06	9.10	10.17	11.24	12.33		13.54	4 / 1				
reaction time		interval		1.11	1.06	1.06	1.04	1.05	1.04	1.07	1.07	1.09	1.21			3.23	3.13	3.23	
wind	0.1 m/s	velocity	4.74	7.66	8.02	8.02	8.17	8.10	8.17	7.94	7.94	7.80	8.31	7.39		7.89	8.15	7.89	
Race 2 - 2020 World Athletics Trials (Fuji, JPN)																<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>			
date	06-Sep-20	time	2.69	3.77	4.82	5.84	6.87	7.89	8.93	9.98	11.05	12.15		13.37	/ 2				
reaction time		interval		1.08	1.05	1.02	1.03	1.02	1.04	1.05	1.07	1.10	1.22			3.15	3.09	3.22	
wind	1.3 m/s	velocity	4.83	7.87	8.10	8.33	8.25	8.33	8.17	8.10	7.94	7.73	8.24	7.48		8.10	8.25	7.92	
FINAL - 2020 Athlete Night Games (Fukui, JPN)																<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>			
date	29-Aug-20	time	2.68	3.78	4.84	5.89	6.93	7.98	9.04	10.11	11.19	12.32		13.58	/ 7				
reaction time		interval		1.10	1.06	1.05	1.04	1.05	1.06	1.07	1.08	1.13	1.26			3.21	3.15	3.28	
wind	2.1 m/s	velocity	4.85	7.73	8.02	8.10	8.17	8.10	8.02	7.94	7.87	7.52	7.98	7.36		7.94	8.10	7.77	
Heptathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)																<i>Matsubayashi (2018) - research on athlete performance and technique</i>			
date	16-Jun-18	time	2.74	3.82	4.88	5.94	7.02	8.06	9.12	10.21	11.29	12.41		13.68	4 / 1				
reaction time		interval		1.08	1.06	1.06	1.08	1.04	1.06	1.09	1.08	1.12	1.27			3.20	3.18	3.29	
wind	1.6 m/s	velocity	4.74	7.87	8.02	8.02	7.87	8.17	8.02	7.80	7.87	7.59	8.27	7.31		7.97	8.02	7.75	
Heptathlon - Heat 3 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN)																<i>Matsubayashi (2018) - research on athlete performance and technique- 2018 data book</i>			
date	21-Apr-18	time	2.84	4.03	5.21	6.39	7.55	8.70	9.86	11.04	12.24	13.47		14.84	4 / 3				
reaction time		interval		1.19	1.18	1.18	1.16	1.15	1.16	1.18	1.20	1.23	1.37			3.55	3.47	3.61	
wind	-4.5 m/s	velocity	4.58	7.14	7.20	7.20	7.33	7.39	7.33	7.20	7.08	6.91	7.66	6.74		7.18	7.35	7.06	
Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)																<i>(2017) - tfdata-store.com/2017/06/08/post-920/</i>			
date	26-May-17	time	2.73	3.82	4.87	5.91	6.95	7.98	9.02	10.09	11.18	12.28		13.53	5 / 2				
reaction time	0.155	interval		1.09	1.05	1.04	1.04	1.03	1.04	1.07	1.09	1.10	1.25			3.18	3.11	3.26	
wind	1.9 m/s	velocity	4.76	7.80	8.10	8.17	8.17	8.25	8.17	7.94	7.80	7.73	8.40	7.39		8.02	8.20	7.82	
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)																<i>(2017) - tfdata-store.com/2017/05/01/458/</i>			
date	29-Apr-17	time	2.71	3.81	4.88	5.92	6.98	8.02	9.05	10.10	11.16	12.23		13.40	2 / 4				
reaction time		interval		1.10	1.07	1.04	1.06	1.04	1.03	1.05	1.06	1.07	1.17			3.21	3.13	3.18	
wind	2.0 m/s	velocity	4.80	7.73	7.94	8.17	8.02	8.17	8.25	8.10	8.02	7.94	8.97	7.46		7.94	8.15	8.02	
FINAL - 2016 National Sports Festival (Kitakami, JPN)																<i>(2016.11.14) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>			
date	10-Oct-16	time	2.69	3.76	4.80	5.84	6.87	7.90	8.92	9.97	11.04	12.13		13.35	7 / 1				
reaction time	0.129	interval		1.07	1.04	1.04	1.03	1.03	1.02	1.05	1.07	1.09	1.22			3.15	3.08	3.21	
wind	2.8 m/s	velocity	4.83	7.94	8.17	8.17	8.25	8.25	8.33	8.10	7.94	7.80	8.61	7.49		8.10	8.28	7.94	
FINAL - 2016 All-Star Night Athletics (Hiratsuka, JPN)																<i>(2016.07.23) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>			
date	23-Jul-16	time	2.69	3.77	4.81	5.86	6.88	7.91	8.96	10.01	11.08	12.17		13.38	2 / 1				
reaction time	0.138	interval		1.08	1.04	1.05	1.02	1.03	1.05	1.05	1.07	1.09	1.21	PB		3.17	3.10	3.21	
wind	1.1 m/s	velocity	4.83	7.87	8.17	8.10	8.33	8.25	8.10	8.10	7.94	7.80	8.68	7.47		8.04	8.23	7.94	
Division 1 FINAL - 2016 Kanto Collegiate Championships (Yokohama, JPN)																<i>(2016.05.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>			

date	20-May-16	time	2.73	3.82	4.88	5.93	6.99	8.05	9.10	10.17	11.25	12.33		13.53	4 / 1			
reaction time	0.146	interval		1.09	1.06	1.05	1.06	1.06	1.05	1.07	1.08	1.08	1.20			3.20	3.17	3.23
wind	-0.4 m/s	velocity	4.76	7.80	8.02	8.10	8.02	8.02	8.10	7.94	7.87	7.87	8.75	7.39		7.97	8.04	7.89
FINAL - 2015 Japanese National Championships (Niigata, JPN)			<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>															
date	27-Jun-15	time	2.69	3.77	4.81	5.85	6.89	7.93	8.98	10.05	11.14	12.26		13.52	3 / 5			
reaction time	0.145	interval		1.08	1.04	1.04	1.04	1.04	1.05	1.07	1.09	1.12	1.26			3.16	3.13	3.28
wind	-0.2 m/s	velocity	4.83	7.87	8.17	8.17	8.17	8.17	8.10	7.94	7.80	7.59	8.33	7.40		8.07	8.15	7.77
FINAL - 2014 Japanese National High School Championships (Kofu, JPN)			<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>															
date	03-Aug-14	time	2.75	3.87	4.95	6.00	7.07	8.12	9.19	10.27	11.35	12.46		13.72	6 / 1			
reaction time		interval		1.12	1.08	1.05	1.07	1.05	1.07	1.08	1.08	1.11	1.26			3.25	3.19	3.27
wind	-0.9 m/s	velocity	4.73	7.59	7.87	8.10	7.94	8.10	7.94	7.87	7.87	7.66	8.33	7.29		7.85	7.99	7.80
Hentschke, Nadine (GER) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 German National Indoor Championships (Sindelfingen, GER)			<i>Hücklekemkes (2002) - explosive starten vielfältig erlernen</i>															
date	16-Feb-02	time	2.62	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		
wind		velocity	4.96	8.02	8.33	8.25	8.33						9.70	7.42		8.20		
Herman, Elvira (BLR) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)			<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	06-Jul-21	time	2.58	3.60	4.58	5.57	6.54	7.51	8.49	9.47	10.47	11.49		12.67	3 / 2			
reaction time	0.152	interval		1.02	0.98	0.99	0.97	0.97	0.98	0.98	1.00	1.02	1.18			2.99	2.92	3.00
wind	0.2 m/s	velocity	5.04	8.33	8.67	8.59	8.76	8.76	8.67	8.67	8.50	8.33	8.52	7.89		8.53	8.73	8.50
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)			<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	10-Jun-21	time	2.60	3.66	4.64	5.64	6.62	7.60	8.60	9.60	10.62	11.64		12.85	3 / 3			
reaction time	0.132	interval		1.06	0.98	1.00	0.98	0.98	1.00	1.00	1.02	1.02	1.21			3.04	2.96	3.04
wind	-0.8 m/s	velocity	5.00	8.02	8.67	8.50	8.67	8.67	8.50	8.50	8.33	8.33	8.31	7.78		8.39	8.61	8.39
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)			<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	19-Aug-20	time	2.56	3.60	4.63	5.61	6.61	7.61	8.61	9.61	10.64	11.67		12.96	3 / 3			
reaction time	0.142	interval		1.04	1.03	0.98	1.00	1.00	1.00	1.00	1.03	1.03	1.29			3.05	3.00	3.06
wind	-0.2 m/s	velocity	5.08	8.17	8.25	8.67	8.50	8.50	8.50	8.50	8.25	8.25	7.79	7.72		8.36	8.50	8.33
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)			<i>CAA Hurdle Development (2019)</i>															
date	06-Oct-19	time	2.63	3.67	4.67	5.65	6.62	7.62	8.60	9.60	10.61	11.64		12.78	6 / 4			
reaction time	0.144	interval		1.04	1.00	0.98	0.97	1.00	0.98	1.00	1.01	1.03	1.14			3.02	2.95	3.04
wind	0.6 m/s	velocity	4.94	8.17	8.50	8.67	8.76	8.50	8.67	8.50	8.42	8.25	8.82	7.82		8.44	8.64	8.39
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	10-Sep-19	time	2.56	3.63	4.63	5.63	6.60	7.60	8.60	9.63	10.63	11.65		12.92	4 / 3			
reaction time	0.145	interval		1.07	1.00	1.00	0.97	1.00	1.00	1.03	1.00	1.02	1.27			3.07	2.97	3.05
wind	0.1 m/s	velocity	5.08	7.94	8.50	8.50	8.76	8.50	8.50	8.25	8.50	8.33	8.27	7.74		8.31	8.59	8.36
FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	06-Sep-19	time	2.63	3.70	4.72	5.72	6.74	7.74	8.77	9.79	10.82	11.87		13.12	7 / 7			
reaction time	0.119	interval		1.07	1.02	1.00	1.02	1.00	1.03	1.02	1.03	1.05	1.25			3.09	3.05	3.10
wind	0.0 m/s	velocity	4.94	7.94	8.33	8.50	8.33	8.50	8.25	8.33	8.25	8.10	8.40	7.62		8.25	8.36	8.23
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	20-Jul-19	time	2.60	3.66	4.68	5.68	6.66	7.66	8.68	9.72	10.76	11.80		13.02	1 / 7			
reaction time	0.129	interval		1.06	1.02	1.00	0.98	1.00	1.02	1.04	1.04	1.04	1.22			3.08	3.00	3.12
wind	0.8 m/s	velocity	5.00	8.02	8.33	8.50	8.67	8.50	8.33	8.17	8.17	8.17	8.61	7.68		8.28	8.50	8.17
FINAL - 2019 Bislett Games (Oslo, NOR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	13-Jun-19	time	2.64	3.68	4.68	5.68	6.68	7.66	8.64	9.64	10.66	11.68		12.84	6 / 3			
reaction time	0.145	interval		1.04	1.00	1.00	1.00	0.98	0.98	1.00	1.02	1.02	1.16			3.04	2.96	3.04
wind	1.1 m/s	velocity	4.92	8.17	8.50	8.50	8.50	8.67	8.67	8.50	8.33	8.33	9.05	7.79		8.39	8.61	8.39
FINAL - 2019 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	30-May-19	time	2.64	3.68	4.68	5.68	6.68	7.68	8.68	9.70	10.72	11.76		12.94	3 / 5			
reaction time	0.132	interval		1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.18			3.04	3.00	3.08
wind	1.3 m/s	velocity	4.92	8.17	8.50	8.50	8.50	8.50	8.50	8.33	8.33	8.17	8.90	7.73		8.39	8.50	8.28
FINAL - 2019 Doha Diamond League (Doha, QAT) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	03-May-19	time	2.58	3.62	4.64	5.64	6.58	7.58	8.58	9.60	10.62	11.66		12.88	3 / 6			
reaction time	0.136	interval		1.04	1.02	1.00	0.94	1.00	1.00	1.02	1.02	1.04	1.22			3.06	2.94	3.08
wind	0.9 m/s	velocity	5.04	8.17	8.33	8.50	9.04	8.50	8.50	8.33	8.33	8.17	8.61	7.76		8.33	8.67	8.28
FINAL - 2019 ISTAF Indoor (Berlin, GER) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	1-Feb-19	time	2.60	3.62	4.62	5.60	6.58							7.97	5 / 3			

reaction time 0.142 interval 1.02 1.00 0.98 0.98
velocity 5.00 8.33 8.50 8.67 8.67

1.39 =PB 3.00
9.35 7.53 8.50

FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)*Henson (2021) - Athlete First: 2018 year end hurdle report*

date 08-Sep-18 time 2.60 3.64 4.66 5.64 6.62 7.62 8.62 9.62 10.62 11.66 12.91 6 / 4
reaction time 0.173 interval 1.04 1.02 0.98 0.98 1.00 1.00 1.00 1.00 1.04 1.25 3.04 2.98 3.04
wind -0.1 m/s velocity 5.00 8.17 8.33 8.67 8.67 8.50 8.50 8.50 8.50 8.17 8.40 7.75 8.39 8.56 8.39

FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date 22-Jul-18 time 2.60 3.62 4.64 5.62 6.60 7.60 8.60 9.60 10.60 11.60 12.78 1 / 9
reaction time 0.147 interval 1.02 1.02 0.98 0.98 1.00 1.00 1.00 1.00 1.18 3.02 2.98 3.00
wind 0.6 m/s velocity 5.00 8.33 8.33 8.67 8.67 8.50 8.50 8.50 8.50 8.50 8.90 7.82 8.44 8.56 8.50

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

date 31-May-18 time 2.56 3.62 4.60 5.60 6.58 7.56 8.54 9.54 10.64 11.70 12.97 2 / 5
reaction time 0.155 interval 1.06 0.98 1.00 0.98 0.98 0.98 1.00 1.10 1.06 1.27 3.04 2.94 3.16
wind 0.0 m/s velocity 5.08 8.02 8.67 8.50 8.67 8.67 8.67 8.50 7.73 8.02 8.27 7.71 8.39 8.67 8.07

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

date 11-Aug-17 time 2.55 3.61 4.63 5.66 6.70 7.73 8.75 9.76 10.80 11.85 13.16 8 / 6
reaction time 0.129 interval 1.06 1.02 1.03 1.04 1.03 1.02 1.01 1.04 1.05 1.31 3.11 3.09 3.10
wind 0.5 m/s velocity 5.10 8.02 8.33 8.25 8.17 8.25 8.33 8.42 8.17 8.10 8.02 7.60 8.20 8.25 8.23

FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)*(2016.07.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date 24-Jul-16 time 2.66 3.69 4.69 5.67 6.65 7.63 8.64 9.63 10.66 11.68 12.85 4 / 1
reaction time 0.160 interval 1.03 1.00 0.98 0.98 0.98 1.01 0.99 1.03 1.02 1.17 AJR 3.01 2.97 3.04
wind 2.0 m/s velocity 4.89 8.25 8.50 8.67 8.67 8.67 8.42 8.59 8.25 8.33 8.97 7.78 8.47 8.59 8.39

Hicks, Jada (USA) (2000)

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

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

date 14-Feb-20 time 2.67 3.74 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

Higa, Kazuki (JPN) (1998)

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

Heat 4 - 2016 Japanese National Junior Championships (Mizuho, JPN)*(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date 21-Oct-16 time 2.80 3.93 5.03 6.13 7.24 8.35 9.45 10.57 11.73 12.87 14.09 6 / 3
reaction time interval 1.13 1.10 1.10 1.11 1.11 1.10 1.12 1.16 1.14 1.22 3.33 3.32 3.42
wind 1.5 m/s velocity 4.64 7.52 7.73 7.73 7.66 7.66 7.73 7.59 7.33 7.46 8.61 7.10 7.66 7.68 7.46

Hightower, Stephanie (USA) (1958)

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

FINAL - 1981 USSR vs. USA (Leningrad, URS)*Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies*

date 11-Jul-81 time 2.65 3.68 4.70 5.72 6.78 7.85 8.87 9.89 10.94 11.97 13.09 1 / 2
reaction time interval 1.03 1.02 1.02 1.06 1.07 1.02 1.02 1.05 1.03 1.12 3.07 3.15 3.10
wind 0.3 m/s velocity 4.91 8.25 8.33 8.33 8.02 7.94 8.33 8.33 8.10 8.25 9.38 7.64 8.31 8.10 8.23

Hildebrand, Nadine (GER) (1987)

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

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

date 15-Jun-17 time 2.54 3.56 4.60 5.64 6.66 7.66 8.68 9.68 10.76 11.82 13.01 2 / 7
reaction time 0.140 interval 1.02 1.04 1.04 1.02 1.00 1.02 1.00 1.08 1.06 1.19 3.10 3.04 3.14
wind 0.8 m/s velocity 5.12 8.33 8.17 8.17 8.33 8.50 8.33 8.50 7.87 8.02 8.82 7.69 8.23 8.39 8.12

FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)*Henson (2021) - Athlete First: 2016 year end hurdle report*

date 09-Sep-16 time 2.52 3.56 4.56 5.56 6.56 7.54 8.54 9.56 10.58 11.62 12.83 7 / 3
reaction time 0.141 interval 1.04 1.00 1.00 1.00 0.98 1.00 1.02 1.02 1.04 1.21 3.04 2.98 3.08
wind 0.1 m/s velocity 5.16 8.17 8.50 8.50 8.50 8.67 8.50 8.33 8.33 8.17 8.68 7.79 8.39 8.56 8.28

FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date 01-Sep-16 time 2.56 3.62 4.62 5.64 6.66 7.66 8.66 9.68 10.74 11.78 12.99 1 / 9
reaction time 0.149 interval 1.06 1.00 1.02 1.02 1.00 1.00 1.02 1.06 1.04 1.21 3.08 3.02 3.12
wind 0.4 m/s velocity 5.08 8.02 8.50 8.33 8.33 8.50 8.50 8.33 8.02 8.17 8.68 7.70 8.28 8.44 8.17

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

date 27-Aug-16 time 2.52 3.60 4.64 5.64 6.64 7.66 8.68 9.70 10.76 11.82 13.04 8 / 7
reaction time 0.142 interval 1.08 1.04 1.00 1.00 1.02 1.02 1.02 1.06 1.06 1.22 3.12 3.04 3.14
wind 0.2 m/s velocity 5.16 7.87 8.17 8.50 8.50 8.33 8.33 8.33 8.02 8.02 8.61 7.67 8.17 8.39 8.12

Hjørnevik, Martine (NOR) (2001)

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

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

date 04-Sep-22 time 2.76 3.84 4.92 5.96 7.00 8.08 9.12 10.24 11.32 12.44 13.70 2 / 8
reaction time 0.166 interval 1.08 1.08 1.04 1.04 1.08 1.04 1.12 1.08 1.12 1.26 3.20 3.16 3.32
wind -0.3 m/s velocity 4.71 7.87 7.87 8.17 8.17 7.87 8.17 7.59 7.87 7.59 7.98 7.30 7.97 8.07 7.68

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hlavatá, Karolina (CZE) (1994)																	
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)												<i>Feher (2014) - Final report from the Czech Republic national championships</i>					
date	02-Aug-14	time	2.74	3.80	4.87	5.97	7.05	8.12	9.23	10.32	11.44	12.61	13.82	8 / 5			
reaction time	0.186	interval		1.06	1.07	1.10	1.08	1.07	1.11	1.09	1.12	1.17	1.21		3.23	3.26	3.38
wind	0.4 m/s	velocity	4.74	8.02	7.94	7.73	7.87	7.94	7.66	7.80	7.59	7.26	8.68	7.24	7.89	7.82	7.54
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)																	
<i>Feher (2014) - Final report from the Czech Republic national championships</i>																	
date	02-Aug-14	time	2.82	3.95	5.09	6.22	7.35	8.47	9.59	10.71	11.88	13.07	14.29	5 / 3			
reaction time	0.148	interval		1.13	1.14	1.13	1.13	1.12	1.12	1.12	1.17	1.19	1.22		3.40	3.37	3.48
wind	-1.0 m/s	velocity	4.61	7.52	7.46	7.52	7.52	7.59	7.59	7.59	7.26	7.14	8.61	7.00	7.50	7.57	7.33
Hlavonová, Michaela (CZE) (1996)																	
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE)												<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.88	4.13	5.45	6.72	8.11	9.42	10.84	12.15	13.55	14.89	16.45	2 / 7			
reaction time	0.140	interval		1.25	1.32	1.27	1.39	1.31	1.42	1.31	1.40	1.34	1.56		3.84	4.12	4.05
wind	-4.5 m/s	velocity	4.51	6.80	6.44	6.69	6.12	6.49	5.99	6.49	6.07	6.34	6.73	6.08	6.64	6.19	6.30
Hofmann, Franziska (GER) (1994)																	
FINAL - 2014 Sparkassen Gala (Regensburg, GER)												<i>Buckwitz (2014) - OSP Berlin / DLV frauen hürden report</i>					
date	07-Jun-14	time	2.64	3.68	4.70	5.69	6.68	7.70	8.72	9.74	10.80	11.90	13.02	4 / 1			
reaction time		interval		1.04	1.02	0.99	0.99	1.02	1.02	1.02	1.06	1.10	1.12	PB	3.05	3.03	3.18
wind	0.1 m/s	velocity	4.92	8.17	8.33	8.59	8.59	8.33	8.33	8.33	8.02	7.73	9.38	7.68	8.36	8.42	8.02
Heat 2 - 2014 Sparkassen Gala (Regensburg, GER)																	
<i>Buckwitz (2014) - OSP Berlin / DLV frauen hürden report</i>																	
date	07-Jun-14	time	2.66	3.70	4.74	5.75	6.76	7.76	8.80	9.86	10.92	12.00	13.22	1 / 1			
reaction time		interval		1.04	1.04	1.01	1.01	1.00	1.04	1.06	1.06	1.08	1.22		3.09	3.05	3.20
wind	-0.5 m/s	velocity	4.89	8.17	8.17	8.42	8.42	8.50	8.17	8.02	8.02	7.87	8.61	7.56	8.25	8.36	7.97
Hofmanová, Martina (CZE) (1995)																	
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE)												<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.85	4.06	5.25	6.45	7.68	8.93	10.18	11.50	12.78	14.01	15.33	2 / 4			
reaction time	0.167	interval		1.21	1.19	1.20	1.23	1.25	1.25	1.32	1.28	1.23	1.32		3.60	3.73	3.83
wind	-3.9 m/s	velocity	4.56	7.02	7.14	7.08	6.91	6.80	6.80	6.44	6.64	6.91	7.95	6.52	7.08	6.84	6.66
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE)																	
<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																	
date	28-Jun-14	time	2.79	3.96	5.11	6.31	7.50	8.72	9.95	11.22	12.47	13.76	15.14	6 / 3			
reaction time	0.155	interval		1.17	1.15	1.20	1.19	1.22	1.23	1.27	1.25	1.29	1.38		3.52	3.64	3.81
wind	-1.5 m/s	velocity	4.66	7.26	7.39	7.08	7.14	6.97	6.91	6.69	6.80	6.59	7.61	6.61	7.24	7.01	6.69
Holder, Nikkita (CAN) (1987)																	
FINAL - 2011 IAAF World Championships (Daegu, KOR)												<i>KSSB (2011) - biomechanical analysis of women's 100m hurdle</i>					
date	03-Sep-11	time	2.65	3.68	4.74	5.72	6.74	7.72	8.73	9.75	10.77	11.81	12.93	2 / 6			
reaction time	0.172	interval		1.03	1.06	0.98	1.02	0.98	1.01	1.02	1.02	1.04	1.12		3.07	3.01	3.08
wind	1.1 m/s	velocity	4.91	8.25	8.02	8.67	8.33	8.67	8.42	8.33	8.33	8.17	9.38	7.73	8.31	8.47	8.28
Horiike, Kaho (JPN) (1996)																	
Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)												<i>(2017) - tfdata-store.com/2017/06/08/post-920/</i>					
date	26-May-17	time	2.72	3.80	4.89	5.93	7.01	8.07	9.13	10.18	11.27	12.37	13.59	6 / 3			
reaction time	0.173	interval		1.08	1.09	1.04	1.08	1.06	1.06	1.05	1.09	1.10	1.22		3.21	3.20	3.24
wind	1.9 m/s	velocity	4.78	7.87	7.80	8.17	7.87	8.02	8.02	8.10	7.80	7.73	8.61	7.36	7.94	7.97	7.87
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)																	
<i>(2017) - tfdata-store.com/2017/05/01/458/</i>																	
date	29-Apr-17	time	2.68	3.78	4.86	5.93	7.03	8.11	9.17	10.25	11.33	12.44	13.58	1 / 6			
reaction time		interval		1.10	1.08	1.07	1.10	1.08	1.06	1.08	1.08	1.11	1.14		3.25	3.24	3.27
wind	2.0 m/s	velocity	4.85	7.73	7.87	7.94	7.73	7.87	8.02	7.87	7.87	7.66	9.21	7.36	7.85	7.87	7.80
FINAL - 2016 Japanese University Championships (Kumagaya, JPN)																	
<i>(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																	
date	04-Sep-16	time	2.72	3.81	4.89	5.96	7.05	8.15	9.26	10.35	11.46	12.59	13.79	8 / 5			
reaction time	0.165	interval		1.09	1.08	1.07	1.09	1.10	1.11	1.09	1.11	1.13	1.20		3.24	3.30	3.33
wind	-0.2 m/s	velocity	4.78	7.80	7.87	7.94	7.80	7.73	7.66	7.80	7.66	7.52	8.75	7.25	7.87	7.73	7.66
Howell, Jackie (USA) (1996)																	
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)												<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.67	4.02									dnf	2 / --			
reaction time	0.141	interval		1.35													
		velocity	4.87	6.30													
Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)																	
<i>CAA Hurdle Development (2020)</i>																	
date	15-Feb-20	time	2.67	3.73	4.77	5.78	6.79						8.17	4 / 3			
reaction time	0.154	interval		1.06	1.04	1.01	1.01					1.38			3.11		
		velocity	4.87	8.02	8.17	8.42	8.42					9.42	7.34		8.20		
Hsieh His-En (TPE) (1994)																	

FINAL - 2019 Asian Athletics Championships (Doha, QAT)

date	24-Apr-19	time	2.64	3.68	4.74	5.78	6.81	7.86	8.89	9.96	11.02	12.13		13.37	8 / 6			
reaction time	0.146	interval		1.04	1.06	1.04	1.03	1.05	1.03	1.07	1.06	1.11	1.24	PB		3.14	3.11	3.24
wind	1.3 m/s	velocity	4.92	8.17	8.02	8.17	8.25	8.10	8.25	7.94	8.02	7.66	8.47	7.48		8.12	8.20	7.87

CAA Hurdle Development (2019)**Heat 1 - 2019 Asian Athletics Championships (Doha, QAT)**

date	23-Apr-19	time	3.74	4.77	5.81	6.86	7.89	8.95	9.99	11.07	12.16		13.39	3 / 3			
reaction time	0.157	interval		1.03	1.04	1.05	1.03	1.06	1.04	1.08	1.09	1.23	PB			3.14	3.21
wind	1.3 m/s	velocity		8.25	8.17	8.10	8.25	8.02	8.17	7.87	7.80	8.54	7.47			8.12	7.94

Hughes, Amber (USA) (1994)**FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis)**

date	07-Jul-24	time	2.65	3.68	4.70	5.68	6.67	7.66	8.68	9.70	10.73	11.78		12.98	1 / 8			
reaction time	0.169	interval		1.03	1.02	0.98	0.99	0.99	1.02	1.02	1.03	1.05	1.20			3.03	3.00	3.10
wind	1.6 m/s	velocity	4.91	8.25	8.33	8.67	8.59	8.59	8.33	8.33	8.25	8.10	8.37	7.70		8.42	8.50	8.23

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

Heat 1 - 2024 FBK Games (Hengelo, NED)

date	07-Jul-24	time	2.49	3.61	4.64	5.62	6.63	7.64	8.67	9.69	10.73	11.78		13.04	4 / 4			
reaction time	0.160	interval		1.12	1.03	0.98	1.01	1.01	1.03	1.02	1.04	1.05	1.26			3.13	3.05	3.11
wind	0.3 m/s	velocity	5.22	7.59	8.25	8.67	8.42	8.42	8.25	8.33	8.17	8.10	7.98	7.67		8.15	8.36	8.20

Omega Timing (2024) - continental tour gold race analysis

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

date	29-Jun-24	time	2.64	3.69	4.69	5.69	6.69	7.69	8.68	9.67	10.67	11.69		12.85	5 / 5			
reaction time		interval		1.05	1.00	1.00	1.00	1.00	0.99	0.99	1.00	1.02	1.16			3.05	2.99	3.01
wind	0.8 m/s	velocity	4.92	8.10	8.50	8.50	8.50	8.50	8.59	8.59	8.50	8.33	8.66	7.78		8.36	8.53	8.47

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

Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)

date	28-Jun-24	time	2.65	3.69	4.69	5.67	6.65	7.63	8.61	9.61	10.61	11.63		12.73	4 / 3			
reaction time		interval		1.04	1.00	0.98	0.98	0.98	0.98	1.00	1.00	1.02	1.10			3.02	2.94	3.02
wind	0.2 m/s	velocity	4.91	8.17	8.50	8.67	8.67	8.67	8.67	8.50	8.50	8.33	9.14	7.86		8.44	8.67	8.44

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

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

date	10-May-24	time	2.58	3.60	4.58	5.55	6.52	7.47	8.44	9.41	10.40	11.41		12.54	5 / 4			
reaction time	0.150	interval		1.02	0.98	0.97	0.97	0.95	0.97	0.97	0.99	1.01	1.13	PB		2.97	2.89	2.97
wind	1.7 m/s	velocity	5.04	8.33	8.67	8.76	8.76	8.95	8.76	8.76	8.59	8.42	8.89	7.97		8.59	8.82	8.59

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

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

date	16-Feb-24	time	2.65	3.69	4.67	5.64	6.61							7.99	1 / 5			
reaction time	0.164	interval		1.04	0.98	0.97	0.97						1.38			2.99		
wind		velocity	4.91	8.17	8.67	8.76	8.76						9.42	7.51		8.53		

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

Heat 2 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)

date	16-Feb-24	time	2.65	3.68	4.68	5.64	6.62							7.98	5 / 4			
reaction time	0.168	interval		1.03	1.00	0.96	0.98						1.36			2.99		
wind		velocity	4.91	8.25	8.50	8.85	8.67						9.56	7.52		8.53		

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

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

date	24-Jun-23	time	2.57	3.57	4.59	5.58	6.55	7.54	8.52	9.52	10.51	11.51		12.64	2 / 4			
reaction time	0.147	interval		1.00	1.02	0.99	0.97	0.99	0.98	1.00	0.99	1.00	1.13			3.01	2.94	2.99
wind	2.8 m/s	velocity	5.06	8.50	8.33	8.59	8.76	8.59	8.67	8.50	8.59	8.50	8.89	7.91		8.47	8.67	8.53

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

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

date	03-May-19	time	2.56	3.60	4.64	5.68	6.68	7.68	8.70	9.70	10.74	11.78		12.97	9 / 8			
reaction time	0.141	interval		1.04	1.04	1.04	1.00	1.00	1.02	1.00	1.04	1.04	1.19			3.12	3.02	3.08
wind	0.9 m/s	velocity	5.08	8.17	8.17	8.17	8.50	8.50	8.33	8.50	8.17	8.17	8.82	7.71		8.17	8.44	8.28

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

Humphrey, Brittley (USA) (1998)**FINAL - 2018 South Eastern Conference Championships (Knoxville, TN) (TV Analysis)**

date	13-May-18	time	2.46	3.53	4.56	5.56	6.56	7.60	8.60	9.63	10.66	11.73		13.02	1 / 5			
reaction time		interval		1.07	1.03	1.00	1.00	1.04	1.00	1.03	1.03	1.07	1.29	PB		3.10	3.04	3.13
wind	1.2 m/s	velocity	5.28	7.94	8.25	8.50	8.50	8.17	8.50	8.25	8.25	7.94	8.14	7.68		8.23	8.39	8.15

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

Humphrey, Jacqueline (USA) (1965)**Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)**

date	29-Sep-88	time	2.67	3.79	4.89	5.96	7.03	8.10	9.16	10.23	11.29	12.39		13.59	1 / 7			
reaction time	0.181	interval		1.12	1.10	1.07	1.07	1.07	1.06	1.07	1.06	1.10	1.20			3.29	3.20	3.23
wind	0.4 m/s	velocity	4.87	7.59	7.73	7.94	7.94	7.94	8.02	7.94	8.02	7.73	8.75	7.36		7.75	7.97	7.89

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

Huo Xuanyi (CHN) (1998)**Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)**

date	08-Jul-19	time	2.86	4.01	5.16	6.30	7.42	8.56	9.72	10.90	12.08	13.30		14.63	4 / 5			
reaction time	0.188	interval		1.15	1.15	1.14	1.12	1.14	1.16	1.18	1.18	1.22	1.33			3.44	3.42	3.58
wind	0.5 m/s	velocity	4.55	7.39	7.39	7.46	7.59	7.46	7.33	7.20	7.20	6.97	7.89	6.84		7.41	7.46	7.12

CAA Hurdle Development (2019)

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

CAA Hurdle Development (2019)

date	30-May-19	time	2.88	4.02	5.15	6.32	7.46	8.61	9.78	10.97	12.16	13.39		14.73	2 / 8			
reaction time	0.183	interval		1.14	1.13	1.17	1.14	1.15	1.17	1.19	1.19	1.23	1.34			3.44	3.46	3.61
wind	-0.1 m/s	velocity	4.51	7.46	7.52	7.26	7.46	7.39	7.26	7.14	7.14	6.91	7.84	6.79		7.41	7.37	7.06

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

CAA Hurdle Development (2019)

date	4-Mar-19	time	2.83	3.95	5.19	6.35	7.49							8.99	4 / 4			
reaction time		interval		1.12	1.24	1.16	1.14						1.50			3.52		
		velocity	4.59	7.59	6.85	7.33	7.46						8.67	6.67		7.24		

Hurske, Reetta (FIN) (1995)**Repechage 2 - 2024 Olympic Games (Paris, FRA)**

Paris 2024 Olympic Games - Results Book (2024)

date	08-Aug-24	time	2.45	3.50	4.50	5.50	6.48	7.48	8.48	9.49	10.52	11.56		12.83	6 / 3			
reaction time	0.145	interval		1.05	1.00	1.00	0.98	1.00	1.00	1.01	1.03	1.04	1.27			3.05	2.98	3.08
wind	0.4 m/s	velocity	5.31	8.10	8.50	8.50	8.67	8.50	8.50	8.42	8.25	8.17	7.91	7.79		8.36	8.56	8.28

Heat 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time	2.46	3.51	4.51	5.51	6.50	7.50	8.51	9.54	10.59	11.65		12.96	7 / 6			
reaction time	0.139	interval		1.05	1.00	1.00	0.99	1.00	1.01	1.03	1.05	1.06	1.31			3.05	3.00	3.14
wind	0.8 m/s	velocity	5.28	8.10	8.50	8.50	8.59	8.50	8.42	8.25	8.10	8.02	7.67	7.72		8.36	8.50	8.12

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

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

date	08-Jun-24	time	2.54	3.57	4.57	5.57	6.57	7.55	8.57	9.59	10.63	11.68		12.84	9 / 6			
reaction time	0.145	interval		1.03	1.00	1.00	1.00	0.98	1.02	1.02	1.04	1.05	1.16			3.03	3.00	3.11
wind	0.8 m/s	velocity	5.12	8.25	8.50	8.50	8.50	8.67	8.33	8.33	8.17	8.10	8.66	7.79		8.42	8.50	8.20

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

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

date	23-Feb-24	time	2.52	3.55	4.56	5.54	6.56							7.99	2 / 5			
reaction time	0.130	interval		1.03	1.01	0.98	1.02						1.43			3.02		
		velocity	5.16	8.25	8.42	8.67	8.33						9.09	7.51		8.44		

Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

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

date	23-Aug-23	time	2.53	3.57	4.59	5.61	6.61	7.64	8.67	9.70	10.74	11.82		13.05	9 / 7			
reaction time	0.137	interval		1.04	1.02	1.02	1.00	1.03	1.03	1.03	1.04	1.08	1.23			3.08	3.06	3.15
wind	-0.7 m/s	velocity	5.14	8.17	8.33	8.33	8.50	8.25	8.25	8.25	8.17	7.87	8.17	7.66		8.28	8.33	8.10

Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

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

date	22-Aug-23	time	2.53	3.54	4.56	5.57	6.56	7.56	8.57	9.60	10.64	11.71		12.92	1 / 5			
reaction time	0.140	interval		1.01	1.02	1.01	0.99	1.00	1.01	1.03	1.04	1.07	1.21			3.04	3.00	3.14
wind	0.1 m/s	velocity	5.14	8.42	8.33	8.42	8.59	8.50	8.42	8.25	8.17	7.94	8.31	7.74		8.39	8.50	8.12

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

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

date	05-May-23	time	2.54	3.56	4.56	5.54	6.52	7.58	8.60	9.64	10.68	11.74		12.92	6 / 6			
reaction time	0.132	interval		1.02	1.00	0.98	0.98	1.06	1.02	1.04	1.04	1.06	1.18			3.00	3.06	3.14
wind	1.1 m/s	velocity	5.12	8.33	8.50	8.67	8.67	8.02	8.33	8.17	8.17	8.02	8.52	7.74		8.50	8.33	8.12

Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

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

date	24-Jul-22	time	2.53	3.60	4.60	5.60	6.60	7.60	8.62	9.63	10.70	11.82		13.15	2 / 8			
reaction time	0.113	interval		1.07	1.00	1.00	1.00	1.00	1.02	1.01	1.07	1.12	1.33			3.07	3.02	3.20
wind	0.3 m/s	velocity	5.14	7.94	8.50	8.50	8.50	8.50	8.33	8.42	7.94	7.59	7.56	7.60		8.31	8.44	7.97

Heat 6 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

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

date	23-Jul-22	time	2.50	3.54	4.56	5.58	6.60	7.63	8.66	9.70	10.73	11.80		13.09	7 / 4			
reaction time	0.129	interval		1.04	1.02	1.02	1.02	1.03	1.03	1.04	1.03	1.07	1.29			3.08	3.08	3.14
wind	-0.4 m/s	velocity	5.20	8.17	8.33	8.33	8.33	8.25	8.25	8.17	8.25	7.94	7.79	7.64		8.28	8.28	8.12

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

Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season

date	14-Jun-22	time	2.54	3.58	4.60	5.60	6.60	7.60	8.62	9.64	10.68	11.74		13.01	8 / 5			
reaction time	0.169	interval		1.04	1.02	1.00	1.00	1.00	1.02	1.02	1.04	1.06	1.27			3.06	3.02	3.12
wind	0.2 m/s	velocity	5.12	8.17	8.33	8.50	8.50	8.50	8.33	8.33	8.17	8.02	7.91	7.69		8.33	8.44	8.17

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

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

date	14-Aug-20	time	2.56	3.60	4.63	5.66	6.66	7.66	8.66	9.70	10.73	11.80		13.02	3 / 3			
reaction time	0.175	interval		1.04	1.03	1.03	1.00	1.00	1.00	1.04	1.03	1.07	1.22			3.10	3.00	3.14
wind	1.0 m/s	velocity	5.08	8.17	8.25	8.25	8.50	8.50	8.50	8.17	8.25	7.94	8.24	7.68		8.23	8.50	8.12

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

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

date	11-Aug-20	time	2.54	3.58	4.62	5.66	6.66	7.66	8.70	9.72	10.78	11.86		13.11	2 / 7			
reaction time	0.168	interval		1.04	1.04	1.04	1.00	1.00	1.04	1.02	1.06	1.08	1.25			3.12	3.04	3.16
wind	1.2 m/s	velocity	5.12	8.17	8.17	8.17	8.50	8.50	8.17	8.33	8.02	7.87	8.04	7.63		8.17	8.39	8.07

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

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

date	08-Jul-20	time	2.56	3.60	4.63	5.63	6.63	7.63	8.63	9.66	10.70	11.73		12.91	6 / 2			
reaction time		interval		1.04	1.03	1.00	1.00	1.00	1.00	1.03	1.04	1.03	1.18			3.07	3.00	3.10
wind	0.7 m/s	velocity	5.08	8.17	8.25	8.50	8.50	8.50	8.50	8.25	8.17	8.25	8.52	7.75		8.31	8.50	8.23
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)															CAA Hurdle Development (2019)			
date	06-Oct-19	time	2.57	3.62	4.64	5.64	6.65	7.65	8.68	9.71	10.78	11.85		13.24	8 / 5			
reaction time	0.128	interval		1.05	1.02	1.00	1.01	1.00	1.03	1.03	1.07	1.07	1.39			3.07	3.04	3.17
wind	0.6 m/s	velocity	5.06	8.10	8.33	8.50	8.42	8.50	8.25	8.25	7.94	7.94	7.23	7.55		8.31	8.39	8.04
Huven, Destiny (USA) (2001)																		
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																		
date	28-Jun-24	time	2.58	3.63	4.63	5.62	6.60	7.58	8.59	9.61	10.61	11.63		12.77	7 / 4			
reaction time		interval		1.05	1.00	0.99	0.98	0.98	1.01	1.02	1.00	1.02	1.14	PB		3.04	2.97	3.04
wind	0.2 m/s	velocity	5.04	8.10	8.50	8.59	8.67	8.67	8.42	8.33	8.50	8.33	8.82	7.83		8.39	8.59	8.39
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)															Henson (2024) - Athlete First: 2024 year end hurdle report			
date	08-Jun-24	time	2.57	3.63	4.67	5.67	6.64	7.66	8.66	9.67	10.68	11.70		12.85	2 / 5			
reaction time		interval		1.06	1.04	1.00	0.97	1.02	1.00	1.01	1.01	1.02	1.15			3.10	2.99	3.04
wind	-0.5 m/s	velocity	5.06	8.02	8.17	8.50	8.76	8.33	8.50	8.42	8.42	8.33	8.74	7.78		8.23	8.53	8.39
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)															Henson (2022) - Athlete First: 2022 year end hurdle report			
date	11-Jun-22	time	2.52	3.57	4.60	5.60	6.61	7.60	8.59	9.61	10.63	11.66		12.92	2 / 6			
reaction time	0.243	interval		1.05	1.03	1.00	1.01	0.99	0.99	1.02	1.02	1.03	1.26			3.08	2.99	3.07
wind	-0.2 m/s	velocity	5.16	8.10	8.25	8.50	8.42	8.59	8.59	8.33	8.33	8.25	7.98	7.74		8.28	8.53	8.31
Hysková, Dominika (CZE) (1997)																		
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)																		
date	28-Jun-14	time	3.07	4.27	5.50	6.73	7.95	9.17	10.42	11.65	12.89	14.20		15.64	7 / 5			
reaction time		interval		1.20	1.23	1.23	1.22	1.22	1.25	1.23	1.24	1.31	1.44			3.66	3.69	3.78
wind	-1.8 m/s	velocity	4.23	7.08	6.91	6.91	6.97	6.97	6.80	6.91	6.85	6.49	7.29	6.39		6.97	6.91	6.75
Ibaraki, Rin (JPN) (2001)																		
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)																		
date	02-Aug-18	time	2.64	3.74	4.84	5.93	7.00	8.10	9.19	10.28	11.40	12.51		13.69	5 / 4			
reaction time		interval		1.10	1.10	1.09	1.07	1.10	1.09	1.09	1.12	1.11	1.18	PB		3.29	3.26	3.32
wind	-0.3 m/s	velocity	4.92	7.73	7.73	7.80	7.94	7.73	7.80	7.80	7.59	7.66	8.90	7.30		7.75	7.82	7.68
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)															Kota (2017) - 70th high school championships: JAF scientific committee- biomechanics data			
date	02-Aug-17	time	2.70	3.80	4.93	6.05	7.14	8.28	9.40	10.57	11.70	12.85		14.03	3 / 3			
reaction time	0.144	interval		1.10	1.13	1.12	1.09	1.14	1.12	1.17	1.13	1.15	1.18			3.35	3.35	3.45
wind	-2.9 m/s	velocity	4.81	7.73	7.52	7.59	7.80	7.46	7.59	7.26	7.52	7.39	8.90	7.13		7.61	7.61	7.39
Idlette, Lavonne (DOM) (1985)																		
FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)																		
date	10-May-15	time	2.65	3.72	4.75	5.77	6.76	7.76	8.78	9.81	10.84	11.90		13.05	1 / 5			
reaction time	0.194	interval		1.07	1.03	1.02	0.99	1.00	1.02	1.03	1.03	1.06	1.15			3.12	3.01	3.12
wind	0.9 m/s	velocity	4.91	7.94	8.25	8.33	8.59	8.50	8.33	8.25	8.25	8.02	9.13	7.66		8.17	8.47	8.17
Imura, Kumiko (JPN) (1981)																		
FINAL - 2008 Miko Oda Memorial (Hiroshima, JPN)																		
date	29-Apr-08	time	2.48	3.57	4.62	5.67	6.71	7.75	8.80	9.86	10.94	12.04		13.36	1 / 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
wind	-0.1 m/s	velocity	5.24	7.80	8.10	8.10	8.17	8.17	8.10	8.02	7.87	7.73	7.95	7.49		7.99	8.15	7.87
FINAL - 2007 Seiko Super Grand Prix (Yokohama, JPN)															Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles			
date	30-Sep-07	time	2.57	3.65	4.71	5.75	6.77	7.81	8.85	9.93	11.00	12.11		13.48	1 / 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
wind	-0.8 m/s	velocity	5.06	7.87	8.02	8.17	8.33	8.17	8.17	7.87	7.94	7.66	7.66	7.42		8.02	8.23	7.82
FINAL - 2007 Osaka Grand Prix (Osaka, JPN)															Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles			
date	05-May-07	time	2.50	3.57	4.62	5.68	6.73	7.79	8.87	9.95	11.04	12.15		13.50	1 / 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
wind	0.0 m/s	velocity	5.20	7.94	8.10	8.02	8.10	8.02	7.87	7.87	7.80	7.66	7.78	7.41		8.02	7.99	7.77
FINAL - 2007 Mikio Oda Memorial (Hiroshima, JPN)															Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles			
date	29-Apr-07	time	2.53	3.59	4.62	5.62	6.62	7.62	8.62	9.64	10.68	11.74		13.02	1 / 2			
reaction time		interval		1.06	1.03	1.00	1.00	1.00	1.00	1.02	1.04	1.06	1.28	PB		3.09	3.00	3.12
wind	1.4 m/s	velocity	5.14	8.02	8.25	8.50	8.50	8.50	8.50	8.33	8.17	8.02	8.20	7.68		8.25	8.50	8.17
FINAL - 2006 Mikio Oda Memorial (Hiroshima, JPN)															Akirabun (2007) - speed analysis of the 100m and hurdles with a laser system			
date	29-Apr-06	time	2.47	3.53	4.56	5.58	6.58	7.59	8.61	9.63	10.68	11.74		13.04	1 / 2			
reaction time		interval		1.06	1.03	1.02	1.00	1.01	1.02	1.02	1.05	1.06	1.30	PB		3.11	3.03	3.13
wind	1.9 m/s	velocity	5.26	8.02	8.25	8.33	8.50	8.42	8.33	8.33	8.10	8.02	8.08	7.67		8.20	8.42	8.15

Ingelmo, Sandra (ESP) (1978)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)												<i>Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas</i>					
date	01-Aug-98	time	2.64	3.72	4.82	5.89	6.98	8.08	9.25	10.38	11.54	12.70	14.04	3 / 3			
reaction time		interval	1.08	1.10	1.07	1.09	1.10	1.17	1.13	1.16	1.16	1.34			3.25	3.36	3.45
wind	0.0 m/s	velocity	4.92	7.87	7.73	7.94	7.80	7.73	7.26	7.52	7.33	7.33	7.84	7.12	7.85	7.59	7.39
Inoussa, Farydah (SWE) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Windsprint (Sundsvall, SWE)												<i>(2013) - www.ssg.se/windsprint/Splittider/</i>					
date	28-Jul-13	time	2.83	4.00	5.13	6.28	7.42	8.56	9.70	10.89	12.12	13.35	14.71	7 / 6			
reaction time		interval	1.17	1.13	1.15	1.14	1.14	1.14	1.19	1.23	1.23	1.36			3.45	3.42	3.65
wind	1.2 m/s	velocity	4.59	7.26	7.52	7.39	7.46	7.46	7.46	7.14	6.91	6.91	7.72	6.80	7.39	7.46	6.99
Ishino, Mami (JPN) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Japanese National Championships (Hiroshima, JPN)												<i>Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season</i>					
date	26-Jun-09	time	2.48	3.55	4.57	5.58	6.60	7.62	8.65	9.69	10.75	11.83	13.15	5 / 2			
reaction time		interval	1.07	1.02	1.01	1.02	1.02	1.03	1.04	1.06	1.08	1.32	PB		3.10	3.07	3.18
wind	1.9 m/s	velocity	5.24	7.94	8.33	8.42	8.33	8.33	8.25	8.17	8.02	7.87	7.95	7.60	8.23	8.31	8.02
FINAL - 2008 Seiko Super Grand Prix (Kawasaki, JPN)												<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>					
date	23-Sep-08	time	2.51	3.59	4.62	5.65	6.68	7.71	8.75	9.80	10.87	11.96	13.28	1 / 4			
reaction time		interval	1.08	1.03	1.03	1.03	1.03	1.04	1.05	1.07	1.09	1.32			3.14	3.10	3.21
wind	0.1 m/s	velocity	5.18	7.87	8.25	8.25	8.25	8.25	8.17	8.10	7.94	7.80	7.95	7.53	8.12	8.23	7.94
FINAL - 2008 Nambu Chuhei Memorial (Harodate, JPN)												<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>					
date	06-Jul-08	time	2.60	3.67	4.71	5.75	6.78	7.81	8.86	9.91	10.97	12.06	13.39	1 / 2			
reaction time		interval	1.07	1.04	1.04	1.03	1.03	1.05	1.05	1.06	1.09	1.33			3.15	3.11	3.20
wind	1.8 m/s	velocity	5.00	7.94	8.17	8.17	8.25	8.25	8.10	8.10	8.02	7.80	7.89	7.47	8.10	8.20	7.97
FINAL - 2008 Japanese National Championships (Kawasaki, JPN)												<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>					
date	28-Jun-08	time	2.53	3.63	4.70	5.77	6.82	7.87	8.94	10.01	11.11	12.22	13.59	1 / 3			
reaction time		interval	1.10	1.07	1.07	1.05	1.05	1.07	1.07	1.10	1.11	1.37			3.24	3.17	3.28
wind	-1.5 m/s	velocity	5.14	7.73	7.94	7.94	8.10	8.10	7.94	7.94	7.73	7.66	7.66	7.36	7.87	8.04	7.77
Heat 4 - 2007 IAAF World Championships (Osaka, JPN) <i>Kawakami (2010) - improving women's 100m hurdle of japanese hurdler- analysis of race patterns based on touchdown times</i>																	
date	27-Aug-07	time	2.71	3.74	4.76	5.79	6.82	7.84	8.89	9.94	11.01	12.09	13.29	3 / 8			
reaction time	0.172	interval	1.03	1.02	1.03	1.03	1.02	1.05	1.05	1.07	1.08	1.20			3.08	3.10	3.20
wind	0.4 m/s	velocity	4.80	8.25	8.33	8.25	8.25	8.33	8.10	8.10	7.94	7.87	8.75	7.52	8.28	8.23	7.97
FINAL - 2006 Japanese National Championships (Kobe, JPN)												<i>Akirabun (2007) - speed analysis of the 100m and hurdles with a laser system</i>					
date	01-Jul-06	time	2.52	3.59	4.63	5.67	6.70	7.72	8.77	9.84	10.91	11.99	13.30	1 / 1			
reaction time		interval	1.07	1.04	1.04	1.03	1.02	1.05	1.07	1.07	1.08	1.31			3.15	3.10	3.22
wind	0.3 m/s	velocity	5.16	7.94	8.17	8.17	8.25	8.33	8.10	7.94	7.94	7.87	8.02	7.52	8.10	8.23	7.92
Ito, Airi (JPN) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Japanese National Championships (Niigata, JPN)												<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>					
date	27-Jun-15	time	2.68	3.78	4.86	5.92	6.99	8.05	9.12	10.21	11.31	12.45	13.67	2 / 7			
reaction time	0.153	interval	1.10	1.08	1.06	1.07	1.06	1.07	1.09	1.10	1.14	1.22			3.24	3.20	3.33
wind	-0.2 m/s	velocity	4.85	7.73	7.87	8.02	7.94	8.02	7.94	7.80	7.73	7.46	8.61	7.32	7.87	7.97	7.66
FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)												<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>					
date	10-May-15	time	2.74	3.86	4.94	6.00	7.04	8.09	9.15	10.23	11.31	12.40	13.59	1 / 8			
reaction time	0.177	interval	1.12	1.08	1.06	1.04	1.05	1.06	1.08	1.08	1.09	1.19			3.26	3.15	3.25
wind	0.9 m/s	velocity	4.74	7.59	7.87	8.02	8.17	8.10	8.02	7.87	7.87	7.80	8.82	7.36	7.82	8.10	7.85
FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)												<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>					
date	03-May-15	time	2.70	3.79	4.86	5.92	6.96	8.01	9.08	10.18	11.25	12.33	13.58	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
wind	0.2 m/s	velocity	4.81	7.80	7.94	8.02	8.17	8.10	7.94	7.73	7.94	7.87	8.40	7.36	7.92	8.07	7.85
Ito, Ayaka (JPN) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)												<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>					
date	23-Aug-20	time	2.66	3.80	4.92	6.02	7.12	8.22	9.33	10.42	11.56	12.70	13.90	1 / 8			
reaction time	0.146	interval	1.14	1.12	1.10	1.10	1.10	1.11	1.09	1.14	1.14	1.20	PB		3.36	3.31	3.37
wind	0.3 m/s	velocity	4.89	7.46	7.59	7.73	7.73	7.73	7.66	7.80	7.46	7.46	8.37	7.19	7.59	7.70	7.57
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (76cm)												<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>					
date	18-Oct-19	time	2.59	3.69	4.76	5.83	6.88	7.92	9.00	10.10	11.20	12.30	13.56	5 / 1			
reaction time	0.153	interval	1.10	1.07	1.07	1.05	1.04	1.08	1.10	1.10	1.10	1.26			3.24	3.17	3.30
wind	-0.8m/s	velocity	5.02	7.73	7.94	7.94	8.10	8.17	7.87	7.73	7.73	7.73	8.33	7.37	7.87	8.04	7.73
U18 FINAL - 2018 National Sports Festival (Fukui, JPN) (76cm)												<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>					
date	07-Oct-18	time	2.62	3.71	4.80	5.87	6.95	8.03	9.12	10.23	11.34	12.52	13.85	4 / 7			

reaction time	0.177	interval	1.09	1.09	1.07	1.08	1.08	1.09	1.11	1.11	1.18	1.33			3.25	3.25	3.40
wind	2.0 m/s	velocity	4.96	7.80	7.80	7.94	7.87	7.87	7.80	7.66	7.66	7.20	7.89	7.22	7.85	7.85	7.50

Ivančević, Andrea (CRO) (1984)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)													<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>				
date	09-Sep-16	time	2.56	3.60	4.64	5.64	6.66	7.66	8.68	9.72	10.76	11.80	13.04	2 / 8			
reaction time	0.141	interval	1.04	1.04	1.00	1.02	1.00	1.02	1.04	1.04	1.04	1.24			3.08	3.04	3.12
wind	0.1 m/s	velocity	5.08	8.17	8.17	8.50	8.33	8.50	8.33	8.17	8.17	8.17	8.47	7.67	8.28	8.39	8.17

Iwasa, Mayuko (JPN) (2002)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)													<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>				
date	26-Jun-21	time	2.68	3.77	4.83	5.89	6.94	8.00	9.05	10.15	11.26	12.37	13.59	5 / 1			
reaction time	0.140	interval	1.09	1.06	1.06	1.05	1.06	1.05	1.10	1.11	1.11	1.22			3.21	3.16	3.32
wind	0.2 m/s	velocity	4.85	7.80	8.02	8.02	8.10	8.02	8.10	7.73	7.66	7.66	8.24	7.36	7.94	8.07	7.68

Iwasa, Mayuko (JPN) (2002)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U18 FINAL - 2018 National Sports Festival (Fukui, JPN) (76cm)													<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>				
date	07-Oct-18	time	2.72	3.83	4.90	5.98	7.04	8.11	9.20	10.26	11.35	12.46	13.71	6 / 1			
reaction time	0.149	interval	1.11	1.07	1.08	1.06	1.07	1.09	1.06	1.09	1.11	1.25			3.26	3.22	3.26
wind	2.0 m/s	velocity	4.78	7.66	7.94	7.87	8.02	7.94	7.80	8.02	7.80	7.66	8.40	7.29	7.82	7.92	7.82

Jahn, Bettine (GDR) (1958)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1983 IAAF World Championships (Helsinki, FIN)													<i>Knobe (1984) - the hurdles</i>				
date	13-Aug-83	time	2.52	3.51	4.55	5.43	6.40	7.30	8.24	9.20	10.25	11.19	12.35	1 / 1			
reaction time	0.154	interval	0.99	1.04	0.88	0.97	0.90	0.94	0.96	1.05	0.94	1.16			2.91	2.81	2.95
wind	2.4 m/s	velocity	5.16	8.59	8.17	9.66	8.76	9.44	9.04	8.85	8.10	9.04	9.05	8.10	8.76	9.07	8.64

FINAL - 1983 Olympischer Tag (Berlin, GDR)													<i>Graubner (2008) - http://www.fgs.uni-halle.de</i>				
date	08-Jun-83	time	2.55	3.55	4.53	5.48	6.44	7.40	8.35	9.32	10.31	11.32	12.42	1 / 1			
reaction time		interval	1.00	0.98	0.95	0.96	0.96	0.95	0.97	0.99	1.01	1.10	NR		2.93	2.87	2.97
wind	1.8 m/s	velocity	5.10	8.50	8.67	8.95	8.85	8.85	8.95	8.76	8.59	8.42	9.55	8.05	8.70	8.89	8.59

Gärtz, Bettine (GDR) (1958)													<i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>				
FINAL - 1981 USSR vs. GDR (Tbilisi, URS)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	26-Jun-81	time	2.48	3.52	4.52	5.65	6.66	7.72	8.76	9.78	10.85	11.92	13.17	1 / 4			
reaction time		interval	1.04	1.00	1.13	1.01	1.06	1.04	1.02	1.07	1.07	1.25			3.17	3.11	3.16
wind	0.0 m/s	velocity	5.24	8.17	8.50	7.52	8.42	8.02	8.17	8.33	7.94	7.94	8.40	7.59	8.04	8.20	8.07

James, Tiki (USA) (1986)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2005 USATF National Junior Championships (Carson, CA)													<i>USATF Women's Sprint Development (2005)</i>				
date	23-Jun-05	time	2.70	3.80	4.91	6.00	7.10	8.22	9.33	10.46	11.60	12.70	14.03	8 / 3			
reaction time		interval	1.10	1.11	1.09	1.10	1.12	1.11	1.13	1.14	1.10	1.33			3.30	3.33	3.37
wind	-0.7 m/s	velocity	4.81	7.73	7.66	7.80	7.73	7.59	7.66	7.52	7.46	7.73	7.89	7.13	7.73	7.66	7.57

FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)													<i>USATF Women's Sprint Development (2003)</i>				
date	22-Jun-03	time	2.58	3.70	4.74	5.81	6.89	7.96	9.04	10.13	11.20	12.31	13.65	9 / 4			
reaction time		interval	1.12	1.04	1.07	1.08	1.07	1.08	1.09	1.07	1.11	1.34			3.23	3.23	3.27
wind	2.3 m/s	velocity	5.04	7.59	8.17	7.94	7.87	7.94	7.87	7.80	7.94	7.66	7.84	7.33	7.89	7.89	7.80

Janičková, Veronika (CZE) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)													<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	2.79	3.94	5.07	6.18	7.31	8.42	9.54	10.68	11.84	13.01	14.28	3 / 5			
reaction time	0.186	interval	1.15	1.13	1.11	1.13	1.11	1.12	1.14	1.16	1.17	1.27			3.39	3.36	3.47
wind	-3.6 m/s	velocity	4.66	7.39	7.52	7.66	7.52	7.66	7.59	7.46	7.33	7.26	8.27	7.00	7.52	7.59	7.35

Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)													<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.80	3.91	5.02	6.12	7.24	8.36	9.48	10.64	11.77	12.93	14.19	7 / 2				
reaction time	0.212	interval	1.11	1.11	1.10	1.12	1.12	1.12	1.12	1.16	1.13	1.16	1.26			3.32	3.36	3.45
wind	-1.3 m/s	velocity	4.64	7.66	7.66	7.73	7.59	7.59	7.59	7.33	7.52	7.33	8.33	7.05	7.68	7.59	7.39	

Jarešová, Lucie (CZE) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)													<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	2.95	4.17	5.41	6.67	7.95	9.20	10.50	11.82	13.13	14.50	16.04	2 / 7			
reaction time	0.198	interval	1.22	1.24	1.26	1.28	1.25	1.30	1.32	1.31	1.37	1.54			3.72	3.83	4.00
wind	-1.8 m/s	velocity	4.41	6.97	6.85	6.75	6.64	6.80	6.54	6.44	6.49	6.20	6.82	6.23	6.85	6.66	6.38

Jedličková, Petra (CZE) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)													<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	2.96	4.16	5.38	6.62	7.82	9.06	10.30	11.55	12.80	14.09	15.52	8 / 8			
reaction time	0.209	interval	1.20	1.22	1.24	1.20	1.24	1.24	1.25	1.25	1.29	1.43			3.66	3.68	3.79
wind	-3.6 m/s	velocity	4.39	7.08	6.97	6.85	7.08	6.85	6.85	6.80	6.80	6.59	7.34	6.44	6.97	6.93	6.73

Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)													<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	3.00	4.18	5.37	6.56	7.75	8.94	10.14	11.35	12.56	13.81	15.18	6 / 3			

reaction time	0.225	interval	1.18	1.19	1.19	1.19	1.19	1.20	1.21	1.21	1.25	1.37			3.56	3.58	3.67
wind	-1.3 m/s	velocity	4.33	7.20	7.14	7.14	7.14	7.08	7.02	7.02	6.80	7.66	6.59		7.16	7.12	6.95

Jenneke, Michelle (AUS) (1993)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Repechage 1 - 2024 Olympic Games (Paris, FRA)																		
date	08-Aug-24	time	2.48	3.56	4.63	5.70	6.76	7.85	8.97	10.09	11.22	12.40		13.86	6 / 7			
reaction time	0.149	interval	1.08	1.07	1.07	1.06	1.09	1.12	1.12	1.13	1.18	1.46				3.22	3.27	3.43
wind	0.1 m/s	velocity	5.24	7.87	7.94	7.94	8.02	7.80	7.59	7.59	7.52	7.20	6.88	7.22		7.92	7.80	7.43
Heat 3 - 2024 Olympic Games (Paris, FRA)																		
date	07-Aug-24	time	2.42	3.46	4.48	9.12	11.15	12.71	14.24	15.77	17.32	18.91		20.85	4 / 8			
reaction time	0.140	interval	1.04	1.02	4.64	2.03	1.56	1.53	1.53	1.55	1.59	1.94				6.70	5.12	4.67
wind	0.8 m/s	velocity	5.37	8.17	8.33	1.83	4.19	5.45	5.56	5.56	5.48	5.35	5.18	4.80		3.81	4.98	5.46
FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis)																		
date	07-Jul-24	time	2.48	3.48	4.47	5.45	6.43	7.42	8.42	9.42	10.43	11.46		12.65	9 / 6			
reaction time	0.129	interval	1.00	0.99	0.98	0.98	0.99	1.00	1.00	1.01	1.03	1.19		PB		2.97	2.97	3.04
wind	1.6 m/s	velocity	5.24	8.50	8.59	8.67	8.67	8.59	8.50	8.50	8.42	8.25	8.45	7.91		8.59	8.59	8.39
Heat 2 - 2024 FBK Games (Hengelo, NED)																		
date	07-Jul-24	time	2.38	3.44	4.42	5.38	6.36	7.39	8.42	9.44	10.47	11.52		12.80	7 / 4			
reaction time	0.139	interval	1.06	0.98	0.96	0.98	0.98	1.03	1.03	1.02	1.03	1.05	1.28			3.00	3.04	3.10
wind	0.3 m/s	velocity	5.46	8.02	8.67	8.85	8.67	8.25	8.25	8.33	8.25	8.10	7.85	7.81		8.50	8.39	8.23
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																		
date	23-Aug-23	time	2.55	3.57	4.57	5.55	6.54	7.52	8.52	9.52	10.54	11.58		12.80	3 / 5			
reaction time	0.146	interval	1.02	1.00	0.98	0.99	0.98	1.00	1.00	1.02	1.04	1.22				3.00	2.97	3.06
wind	-0.4 m/s	velocity	5.10	8.33	8.50	8.67	8.59	8.67	8.50	8.50	8.33	8.17	8.24	7.81		8.50	8.59	8.33
Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																		
date	22-Aug-23	time	2.53	3.55	4.53	5.52	6.51	7.48	8.48	9.47	10.48	11.52		12.71	5 / 3			
reaction time	0.156	interval	1.02	0.98	0.99	0.99	0.97	1.00	0.99	1.01	1.04	1.19				2.99	2.96	3.04
wind	0.4 m/s	velocity	5.14	8.33	8.67	8.59	8.59	8.76	8.50	8.59	8.42	8.17	8.45	7.87		8.53	8.61	8.39
FINAL - 2023 Bauhaus Galan (Stockholm, SWE)																		
date	02-Jul-23	time	2.45	3.51	4.53	5.54	6.55	7.56	8.59	9.61	10.65	11.70		13.01	7 / 7			
reaction time	0.145	interval	1.06	1.02	1.01	1.01	1.01	1.03	1.02	1.04	1.05	1.31				3.09	3.05	3.11
wind	0.9 m/s	velocity	5.31	8.02	8.33	8.42	8.42	8.42	8.25	8.33	8.17	8.10	7.67	7.69		8.25	8.36	8.20
FINAL - 2023 Doha Diamond League (Doha, QAT) (TV Analysis)																		
date	05-May-23	time	2.58	3.60	4.62	5.60	6.60	7.60	8.62	9.64	10.68	11.74		13.00	1 / 7			
reaction time	0.154	interval	1.02	1.02	0.98	1.00	1.00	1.02	1.02	1.04	1.06	1.26				3.02	3.02	3.12
wind	1.1 m/s	velocity	5.04	8.33	8.33	8.67	8.50	8.50	8.33	8.33	8.17	8.02	7.98	7.69		8.44	8.44	8.17
FINAL - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)																		
date	07-Aug-22	time	2.48	3.48	4.48	5.44	6.42	7.40	8.38	9.40	10.40	11.46		12.68	6 / 5			
reaction time	0.154	interval	1.00	1.00	0.96	0.98	0.98	0.98	1.02	1.00	1.06	1.22				2.96	2.94	3.08
wind	-0.2 m/s	velocity	5.24	8.50	8.50	8.85	8.67	8.67	8.67	8.33	8.50	8.02	8.24	7.89		8.61	8.67	8.28
Heat 3 - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)																		
date	05-Aug-22	time	2.53	3.53	4.51	5.48	6.45	7.43	8.40	9.40	10.40	11.43		12.63	5 / 2			
reaction time	0.153	interval	1.00	0.98	0.97	0.97	0.98	0.97	1.00	1.00	1.03	1.20				2.95	2.92	3.03
wind	2.4 m/s	velocity	5.14	8.50	8.67	8.76	8.76	8.67	8.76	8.50	8.50	8.25	8.37	7.92		8.64	8.73	8.42
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																		
date	24-Jul-22	time	2.45	3.46	4.44	5.41	6.36	7.36	8.33	9.33	10.36	11.42		12.66	7 / 5			
reaction time	0.120	interval	1.01	0.98	0.97	0.95	1.00	0.97	1.00	1.03	1.06	1.24		PB		2.96	2.92	3.09
wind	0.9 m/s	velocity	5.31	8.42	8.67	8.76	8.95	8.50	8.76	8.50	8.25	8.02	8.10	7.90		8.61	8.73	8.25
Heat 6 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																		
date	23-Jul-22	time	2.45	3.47	4.47	5.47	6.45	7.40	8.43	9.46	10.50	11.53		12.84	3 / 3			
reaction time	0.131	interval	1.02	1.00	1.00	0.98	0.95	1.03	1.03	1.04	1.03	1.31				3.02	2.96	3.10
wind	-0.4 m/s	velocity	5.31	8.33	8.50	8.50	8.67	8.95	8.25	8.25	8.17	8.25	7.67	7.79		8.44	8.61	8.23
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)																		
date	06-Oct-19	time	2.50	3.54	4.56	5.56	6.56	7.58	8.60	9.62	10.68	11.74		13.09	2 / 7			
reaction time	0.159	interval	1.04	1.02	1.00	1.00	1.02	1.02	1.02	1.06	1.06	1.35				3.06	3.04	3.14
wind	1.0 m/s	velocity	5.20	8.17	8.33	8.50	8.50	8.33	8.33	8.33	8.02	8.02	7.44	7.64		8.33	8.39	8.12
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)																		
date	08-Sep-18	time	2.56	3.60	4.64	5.66	6.70	7.76	8.82	9.90	11.02	12.12		13.50	1 / 8			
reaction time	0.158	interval	1.04	1.04	1.02	1.04	1.06	1.06	1.08	1.12	1.10	1.38				3.10	3.16	3.30
wind	-0.1 m/s	velocity	5.08	8.17	8.17	8.33	8.17	8.02	8.02	7.87	7.59	7.73	7.61	7.41		8.23	8.07	7.73

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

date	11-Aug-17	time	2.51	3.58	4.60	5.63	6.65	7.65	8.68	9.73	10.80	11.89	13.25	3 / 7				
reaction time	0.145	interval		1.07	1.02	1.03	1.02	1.00	1.03	1.05	1.07	1.09	1.36		3.12	3.05	3.21	
wind	0.5 m/s	velocity	5.18	7.94	8.33	8.25	8.33	8.50	8.25	8.10	7.94	7.80	7.72	7.55		8.17	8.36	7.94

Jiang Liyunzhe (CHN) (2002)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****National FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)***Henson (2023) - Athlete First: 2023 year end hurdle report*

date	02-Sep-23	time	2.70	3.78	4.87	5.92	7.00	8.06	9.12	10.21	11.27	12.35	13.54	4 / 5				
reaction time	0.155	interval		1.08	1.09	1.05	1.08	1.06	1.06	1.09	1.06	1.08	1.19		3.22	3.20	3.23	
wind	0.1 m/s	velocity	4.81	7.87	7.80	8.10	7.87	8.02	8.02	7.80	8.02	7.87	8.45	7.39		7.92	7.97	7.89

Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)*CAA Hurdle Development (2021)*

date	24-Apr-21	time	2.75	3.89	5.00	6.09	7.17	8.26	9.34	10.47	11.60	12.71	13.96	3 / 5				
reaction time		interval		1.14	1.11	1.09	1.08	1.09	1.08	1.13	1.13	1.11	1.25		3.34	3.25	3.37	
wind	0.6 m/s	velocity	4.73	7.46	7.66	7.80	7.87	7.80	7.87	7.52	7.52	7.66	8.04	7.16		7.63	7.85	7.57

FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)*CAA Hurdle Development (2021)*

date	08-Apr-21	time	2.76	3.88	4.96	6.04	7.12	8.20	9.30	10.38	11.48	12.62	13.80	8 / 4				
reaction time		interval		1.12	1.08	1.08	1.08	1.08	1.10	1.08	1.10	1.14	1.18		3.28	3.26	3.32	
wind	-0.1 m/s	velocity	4.71	7.59	7.87	7.87	7.87	7.87	7.73	7.87	7.73	7.46	8.52	7.25		7.77	7.82	7.68

A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)*CAA Hurdle Development (2021)*

date	13-Mar-21	time	2.72	3.84	4.96	6.05	7.14						8.59	3 / 2				
reaction time	0.211	interval		1.12	1.12	1.09	1.09						1.45		PB		3.33	
		velocity	4.78	7.59	7.59	7.80	7.80						8.97	6.98			7.66	

Heat 1 - 2021 National Indoor Grand Prix (Chengdu, CHN)*CAA Hurdle Development (2021)*

date	13-Mar-21	time	2.77	3.90	5.02	6.10	7.21						8.65	2 / 3				
reaction time	0.197	interval		1.13	1.12	1.08	1.11						1.44		PB		3.33	
		velocity	4.69	7.52	7.59	7.87	7.66						9.03	6.94			7.66	

FINAL - 2020 Chinese National Championships (Shaoxing, CHN)*CAA Hurdle Development (2020)*

date	15-Sep-20	time	2.69	3.76	4.84	5.90	6.97	8.04	9.12	10.22	11.33	12.42	13.57	2 / 5				
reaction time	0.174	interval		1.07	1.08	1.06	1.07	1.07	1.08	1.10	1.11	1.09	1.15		PB		3.21	3.22
wind	-0.4 m/s	velocity	4.83	7.94	7.87	8.02	7.94	7.94	7.87	7.73	7.66	7.80	8.74	7.37			7.94	7.92

Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)*CAA Hurdle Development (2020)*

date	15-Sep-20	time	2.77	3.89	5.00	6.10	7.19	8.28	9.41	10.54	11.67	12.81	14.03	8 / 6				
reaction time	0.239	interval		1.12	1.11	1.10	1.09	1.09	1.13	1.13	1.13	1.14	1.22				3.33	3.31
wind	0.3 m/s	velocity	4.69	7.59	7.66	7.73	7.80	7.80	7.52	7.52	7.52	7.46	8.24	7.13			7.66	7.70

Heat 4 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)*CAA Hurdle Development (2019)*

date	13-Apr-19	time	2.70	3.84	4.96	6.10	7.18	8.28	9.41	10.56	11.72	12.87	14.17	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		PB		3.40	3.31
wind	0.1 m/s	velocity	4.81	7.46	7.59	7.46	7.87	7.73	7.52	7.39	7.33	7.39	8.08	7.06			7.50	7.70

B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)*CAA Hurdle Development (2019)*

date	20-Feb-19	time	2.77	3.90	5.04	6.17	7.30						8.77	5 / 4				
reaction time		interval		1.13	1.14	1.13	1.13						1.47		PB		3.40	
		velocity	4.69	7.52	7.46	7.52	7.52						8.84	6.84			7.50	

Jiang Minhong (CHN) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN)***CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.80	3.93	5.11	6.27	7.42	8.61	9.83	11.08	12.33	13.62	15.02	3 / 6				
reaction time	0.179	interval		1.13	1.18	1.16	1.15	1.19	1.22	1.25	1.25	1.40	6.66				3.47	3.56
wind	-0.2 m/s	velocity	4.64	7.52	7.20	7.33	7.39	7.14	6.97	6.80	6.80	6.59	7.50	6.66			7.35	7.16

Jie Zhimao (CHN) (1998)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)***CAA Hurdle Development (2019)*

date	08-Jul-19	time	2.76	3.92	5.04	6.11	7.24	8.34	9.46	10.60	11.77	12.94	14.21	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
wind	1.3 m/s	velocity	4.71	7.33	7.59	7.94	7.52	7.73	7.59	7.46	7.26	7.26	8.27	7.04			7.61	7.61

FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)*CAA Hurdle Development (2019)*

date	30-May-19	time	2.80	3.95	5.09	6.26	7.41	8.56	9.72	10.91	12.09	13.29	14.59	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
wind	-0.1 m/s	velocity	4.64	7.39	7.46	7.26	7.39	7.39	7.33	7.14	7.20	7.08	8.08	6.85			7.37	7.37

B-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)*CAA Hurdle Development (2019)*

date	28-Feb-19	time	2.68	3.82	4.92	6.01	7.09						8.47	4 / 1				
reaction time		interval		1.14	1.10	1.09	1.08						1.38		PB		3.33	
		velocity	4.85	7.46	7.73	7.80	7.87						9.42	7.08			7.66	

Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)*Henson (2018) - coaching observations*

date	15-Sep-18	time	2.78	3.95	5.03	6.17	7.29	8.44	9.58	10.74	11.93	13.18		14.49		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
wind	0.0 m/s	velocity	4.68	7.26	7.87	7.46	7.59	7.39	7.46	7.33	7.14	6.80	8.02	6.90			7.52	7.48	7.08

Jimoh, Funmilayo (USA) (1984)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)***USATF Women's Sprint Development (2003)*

date	22-Jun-03	time	2.65	3.79	4.94	6.06	7.12	8.22	9.37	10.49	11.65	12.85		14.23		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
wind	2.3 m/s	velocity	4.91	7.46	7.39	7.59	8.02	7.73	7.39	7.59	7.33	7.08	7.61	7.03			7.48	7.70	7.33

Jin Donghua (CHN) (1999)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)***CAA Hurdle Development (2021)*

date	24-Jun-21	time	2.77	3.94	5.10	6.25	7.42	8.62	9.81	11.04	12.24	13.51		14.83		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
wind	0.2 m/s	velocity	4.69	7.26	7.33	7.39	7.26	7.08	7.14	6.91	7.08	6.69	7.61	6.74			7.33	7.16	6.89

Heptathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)*CAA Hurdle Development (2019)*

date	23-Aug-19	time	2.94	4.10	5.34	6.52	7.72	8.91	10.13	11.35	12.53	13.83		15.20		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
wind	?? m/s	velocity	4.42	7.33	6.85	7.20	7.08	7.14	6.97	6.97	7.20	6.54	7.66	6.58			7.12	7.06	6.89

Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	08-Jul-19	time	2.93	4.09	5.27	6.42	7.59	8.77	9.94	11.14	12.34	13.58		14.85		6 / 3			
reaction time	0.261	interval		1.16	1.18	1.15	1.17	1.18	1.17	1.20	1.20	1.24	1.27	PB			3.49	3.52	3.64
wind	0.1 m/s	velocity	4.44	7.33	7.20	7.39	7.26	7.20	7.26	7.08	7.08	6.85	8.27	6.73			7.31	7.24	7.01

Jirmanová, Karolína (CZE) (1998)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)***Feher (2015) - Final report U18 & U20 Czech Republic indoor national championships*

date	14-Feb-15	time	2.80	3.94	5.06	6.22	7.34									8.82			
reaction time	0.475	interval		1.14	1.12	1.16	1.12						1.48						3.42
		velocity	4.64	7.46	7.59	7.33	7.59						8.78	6.80					7.46

Johnson, Alaysha (USA) (1996)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)***Omega Timing (2024) - diamond league race analysis*

date	30-Aug-24	time	2.45	3.50	4.49	5.47	6.44	7.42	8.40	9.39	10.40	11.43		12.66		2 / 5			
reaction time	0.147	interval		1.05	0.99	0.98	0.97	0.98	0.98	0.99	1.01	1.03	1.23				3.02	2.93	3.03
wind	-0.4 m/s	velocity	5.31	8.10	8.59	8.67	8.76	8.67	8.67	8.59	8.42	8.25	8.17	7.90			8.44	8.70	8.42

FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)*Omega Timing (2024) - diamond league race analysis*

date	25-Aug-24	time	2.44	3.47	4.45	5.40	6.35	7.28	8.26	9.23	10.23	11.22		12.42		6 / 5			
reaction time	0.155	interval		1.03	0.98	0.95	0.95	0.93	0.98	0.97	1.00	0.99	1.20				2.96	2.86	2.96
wind	-0.5 m/s	velocity	5.33	8.25	8.67	8.95	8.95	9.14	8.67	8.76	8.50	8.59	8.38	8.05			8.61	8.92	8.61

Heat B - 2024 Kamila Skolimowska Memorial (Silesia, POL)*Omega Timing (2024) - diamond league race analysis*

date	25-Aug-24	time	2.39	3.41	4.34	5.32	6.24	7.18	8.17	9.18	10.17	11.21		12.46		7 / 2			
reaction time	0.145	interval		1.02	0.93	0.98	0.92	0.94	0.99	1.01	0.99	1.04	1.25				2.93	2.85	3.04
wind	0.6 m/s	velocity	5.44	8.33	9.14	8.67	9.24	9.04	8.59	8.42	8.59	8.17	8.04	8.03			8.70	8.95	8.39

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

date	22-Aug-24	time	2.45	3.49	4.51	5.48	6.45	7.42	8.39	9.37	10.36	11.36		12.59		3 / 6			
reaction time	0.164	interval		1.04	1.02	0.97	0.97	0.97	0.97	0.98	0.99	1.00	1.23				3.03	2.91	2.97
wind	-0.9 m/s	velocity	5.31	8.17	8.33	8.76	8.76	8.76	8.76	8.67	8.59	8.50	8.17	7.94			8.42	8.76	8.59

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

date	10-Aug-24	time	2.41	3.45	4.45	5.51	6.59	7.61	8.60	9.58	10.56	11.59		12.93		6 / 7			
reaction time	0.151	interval		1.04	1.00	1.06	1.08	1.02	0.99	0.98	0.98	1.03	1.34				3.10	3.09	2.99
wind	-0.3 m/s	velocity	5.39	8.17	8.50	8.02	7.87	8.33	8.59	8.67	8.67	8.25	7.50	7.73			8.23	8.25	8.53

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

date	09-Aug-24	time	2.41	3.45	4.44	5.40	6.36	7.31	8.25	9.21	10.17	11.14		12.34		5 / 1			
reaction time	0.133	interval		1.04	0.99	0.96	0.96	0.95	0.94	0.96	0.96	0.97	1.20				2.99	2.85	2.89
wind	0.4 m/s	velocity	5.39	8.17	8.59	8.85	8.85	8.95	9.04	8.85	8.85	8.76	8.38	8.10			8.53	8.95	8.82

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

date	07-Aug-24	time	2.46	3.50	4.49	5.46	6.44	7.41	8.39	9.38	10.39	11.40		12.61		7 / 2			
reaction time	0.156	interval		1.04	0.99	0.97	0.98	0.97	0.98	0.99	1.01	1.01	1.21				3.00	2.93	3.01
wind	-0.1 m/s	velocity	5.28	8.17	8.59	8.76	8.67	8.76	8.67	8.59	8.42	8.42	8.31	7.93			8.50	8.70	8.47

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

date	30-Jun-24	time	2.56	3.57	4.53	5.48	6.42	7.38	8.34	9.28	10.25	11.21		12.31		5 / 2			
reaction time		interval		1.01	0.96	0.95	0.94	0.96	0.96	0.94	0.97	0.96	1.10	PB			2.92	2.86	2.87

wind	0.7 m/s	velocity	5.08	8.42	8.85	8.95	9.04	8.85	8.85	9.04	8.76	8.85	9.14	8.12	8.73	8.92	8.89	
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	29-Jun-24	time	2.54	3.57	4.54	5.50	6.44	7.37	8.32	9.29	10.25	11.24		12.36	4 / 1			
reaction time		interval		1.03	0.97	0.96	0.94	0.93	0.95	0.97	0.96	0.99	1.12			2.96	2.82	2.92
wind	1.0 m/s	velocity	5.12	8.25	8.76	8.85	9.04	9.14	8.95	8.76	8.85	8.59	8.97	8.09	8.61	9.04	8.73	
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	28-Jun-24	time	2.52	3.54	4.51	5.45	6.41	7.35	8.30	9.28	10.25	11.25		12.37	4 / 2			
reaction time		interval		1.02	0.97	0.94	0.96	0.94	0.95	0.98	0.97	1.00	1.12			2.93	2.85	2.95
wind	0.2 m/s	velocity	5.16	8.33	8.76	9.04	8.85	9.04	8.95	8.67	8.76	8.50	8.97	8.08	8.70	8.95	8.64	
FINAL - 2024 Prefontaine Classic (Eugene, OR)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	25-May-24	time	2.50	3.56	4.56	5.56	6.52	7.50	8.47	9.46	10.45	11.45		12.65	2 / 5			
reaction time	0.162	interval		1.06	1.00	1.00	0.96	0.98	0.97	0.99	0.99	1.00	1.20			3.06	2.91	2.98
wind	-0.9 m/s	velocity	5.20	8.02	8.50	8.50	8.85	8.67	8.76	8.59	8.59	8.50	8.37	7.91	8.33	8.76	8.56	
FINAL - 2024 Seashore Doha Meeting (Doha, QAT) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	10-May-24	time	2.64	3.90	5.07	6.17	7.24	8.27	9.27	10.27		12.34		13.55	4 / 6	<i>no official time given</i>		
reaction time	0.137	interval		1.26	1.17	1.10	1.07	1.03	1.00	1.00		2.07	1.21	DQ		3.53	3.10	3.07
wind	1.7 m/s	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
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	27-Apr-24	time	2.62	3.67	4.67	5.64	6.61	7.61	8.58	9.55	10.56	11.61		12.78	1 / 6 5			
reaction time	0.138	interval		1.05	1.00	0.97	0.97	1.00	0.97	0.97	1.01	1.05	1.17			3.02	2.94	3.03
wind	0.3 m/s	velocity	4.96	8.10	8.50	8.76	8.76	8.50	8.76	8.76	8.42	8.10	8.59	7.82		8.44	8.67	8.42
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	20-Apr-24	time	2.49	3.55	4.57	5.57	6.57	7.55	8.52	9.53	10.61	11.70		13.01	8 / 9			
reaction time	0.177	interval		1.06	1.02	1.00	1.00	0.98	0.97	1.01	1.08	1.09	1.31			3.08	2.95	3.18
wind	-0.2 m/s	velocity	5.22	8.02	8.33	8.50	8.50	8.67	8.76	8.42	7.87	7.80	7.67	7.69		8.28	8.64	8.02
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)														<i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>				
date	16-Feb-24	time	2.64	3.64	4.64	5.61	6.61								5 / --			
reaction time		interval		1.00	1.00	0.97	1.00							DQ		2.97		
		velocity	4.92	8.50	8.50	8.76	8.50									8.59		
FINAL - 2023 Prefontaine Classic (Eugene, OR)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	17-Sep-23	time	2.43	3.48	4.47	5.44	6.40	7.37	8.34	9.31	10.27	11.26		12.48	7 / 6			
reaction time	0.152	interval		1.05	0.99	0.97	0.96	0.97	0.97	0.97	0.96	0.99	1.22			3.01	2.90	2.92
wind	1.8 m/s	velocity	5.35	8.10	8.59	8.76	8.85	8.76	8.76	8.76	8.85	8.59	8.24	8.01		8.47	8.79	8.73
FINAL - 2023 Weltklasse (Zürich, SUI)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	31-Aug-23	time	2.46	3.51	4.50	5.46	6.42	7.38	8.35	9.35	10.35	11.36		12.58	7 / 2			
reaction time	0.151	interval		1.05	0.99	0.96	0.96	0.96	0.97	1.00	1.00	1.01	1.22			3.00	2.89	3.01
wind	-0.2 m/s	velocity	5.28	8.10	8.59	8.85	8.85	8.85	8.76	8.50	8.50	8.42	8.24	7.95		8.50	8.82	8.47
FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	21-Jul-23	time	2.46	3.50	4.51	5.47	6.43	7.38	8.33	9.28	10.24	11.22		12.39	2 / 3			
reaction time	0.172	interval		1.04	1.01	0.96	0.96	0.95	0.95	0.95	0.96	0.98	1.17			3.01	2.86	2.89
wind	0.6 m/s	velocity	5.28	8.17	8.42	8.85	8.85	8.95	8.95	8.95	8.85	8.67	8.59	8.07		8.47	8.92	8.82
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	16-Jul-23	time	2.44	3.49	4.49	5.48	6.47	7.44	8.41	9.39	10.37	11.36		12.58	3 / 7			
reaction time	0.151	interval		1.05	1.00	0.99	0.99	0.97	0.97	0.98	0.98	0.99	1.22			3.04	2.93	2.95
wind	0.9 m/s	velocity	5.33	8.10	8.50	8.59	8.59	8.76	8.76	8.67	8.67	8.59	8.24	7.95		8.39	8.70	8.64
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	08-Jul-23	time	2.57	3.59	4.57	5.54	6.48	7.44	8.40	9.36	10.32	11.34		12.46	3 / 4			
reaction time		interval		1.02	0.98	0.97	0.94	0.96	0.96	0.96	0.96	1.02	1.12			2.97	2.86	2.94
wind	0.4 m/s	velocity	5.06	8.33	8.67	8.76	9.04	8.85	8.85	8.85	8.85	8.33	8.97	8.03		8.59	8.92	8.67
FINAL - 2023 Athletissima (Lausanne, SUI)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	30-Jun-23	time	2.45	3.52	4.55	5.57	6.61	7.65	8.69	9.73	10.80	12.11		14.36	6 / 8			
reaction time	0.139	interval		1.07	1.03	1.02	1.04	1.04	1.04	1.04	1.07	1.31	2.25			3.12	3.12	3.42
wind	-1.4 m/s	velocity	5.31	7.94	8.25	8.33	8.17	8.17	8.17	8.17	7.94	6.49	4.47	6.96		8.17	8.17	7.46
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	24-Jun-23	time	2.55	3.57	4.53	5.47	6.42	7.34	8.29	9.27	10.24	11.22		12.30	4 / 2			
reaction time	0.206	interval		1.02	0.96	0.94	0.95	0.92	0.95	0.98	0.97	0.98	1.08			2.92	2.82	2.93
wind	2.8 m/s	velocity	5.10	8.33	8.85	9.04	8.95	9.24	8.95	8.67	8.76	8.67	9.31	8.13		8.73	9.04	8.70
FINAL - 2023 USATF Los Angeles Grand Prix (Westwood, CA) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				

date	27-May-23	time	2.57	3.60	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	0.98	1.10			3.01	2.90	2.94
wind	-0.2 m/s	velocity	5.06	8.25	8.50	8.67	8.85	8.85	8.67	8.67	8.67	8.67	9.14	7.99		8.47	8.79	8.67
FINAL - 2023 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	05-May-23	time	2.60	3.64	4.64	5.60	6.58	7.54	8.50	9.48	10.50	11.50		12.66	5 / 2			
reaction time	0.165	interval		1.04	1.00	0.96	0.98	0.96	0.96	0.98	1.02	1.00	1.16			3.00	2.90	3.00
wind	1.1 m/s	velocity	5.00	8.17	8.50	8.85	8.67	8.85	8.85	8.67	8.33	8.50	8.66	7.90		8.50	8.79	8.50
FINAL - 2022 Gyulai István Memorial (Székesfehérvár, HUN) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	08-Aug-22	time	2.60	3.65	4.63	5.66	6.66	7.63	8.60	9.57	10.53	11.50		12.62	7 / 4			
reaction time	0.173	interval		1.05	0.98	1.03	1.00	0.97	0.97	0.97	0.96	0.97	1.12			3.06	2.94	2.90
wind	2.4 m/s	velocity	5.00	8.10	8.67	8.25	8.50	8.76	8.76	8.76	8.85	8.76	8.97	7.92		8.33	8.67	8.79
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	25-Jun-22	time	2.57	3.60	4.60	5.57	6.52	7.46	8.42	9.39	10.34	11.31		12.35	7 / 2			
reaction time		interval		1.03	1.00	0.97	0.95	0.94	0.96	0.97	0.95	0.97	1.04	PB		3.00	2.85	2.89
wind	-1.4 m/s	velocity	5.06	8.25	8.50	8.76	8.95	9.04	8.85	8.76	8.95	8.76	9.66	8.10		8.50	8.95	8.82
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	12-Jun-22	time	2.50	3.50	4.50	5.47	6.43	7.40	8.35	9.30	10.28	11.28		12.40	4 / 1			
reaction time	0.153	interval		1.00	1.00	0.97	0.96	0.97	0.95	0.95	0.98	1.00	1.12	PB		2.97	2.88	2.93
wind	2.0 m/s	velocity	5.20	8.50	8.50	8.76	8.85	8.76	8.95	8.95	8.67	8.50	8.97	8.06		8.59	8.85	8.70
FINAL - 2022 Puerto Rico International Athletics Classic (Ponce, PUR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	12-May-22	time	2.52	3.54	4.53	5.50	6.45	7.40	8.37	9.34	10.36	11.34		12.50	2 / 1			
reaction time	0.155	interval		1.02	0.99	0.97	0.95	0.95	0.97	0.97	1.02	0.98	1.16	PB		2.98	2.87	2.97
wind	0.3 m/s	velocity	5.16	8.33	8.59	8.76	8.95	8.95	8.76	8.76	8.33	8.67	8.66	8.00		8.56	8.89	8.59
FINAL - 2018 USATF National Championships (Des Moines, IA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	23-Jun-18	time	2.60	3.70	4.75	5.80	6.80	7.77	8.77	9.77	10.81	11.89		13.23	8 / 7			
reaction time		interval		1.10	1.05	1.05	1.00	0.97	1.00	1.00	1.04	1.08	1.34			3.20	2.97	3.12
wind	-1.4 m/s	velocity	5.00	7.73	8.10	8.10	8.50	8.76	8.50	8.50	8.17	7.87	7.84	7.56		7.97	8.59	8.17
Johnson, Brandeé (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	29-Jun-24	time	2.61	3.67	4.74	5.79	6.83	7.86	8.89	9.92	10.98	12.04		13.25	2 / 9			
reaction time		interval		1.06	1.07	1.05	1.04	1.03	1.03	1.03	1.06	1.06	1.21			3.18	3.10	3.15
wind	0.8 m/s	velocity	4.98	8.02	7.94	8.10	8.17	8.25	8.25	8.25	8.02	8.02	8.31	7.55		8.02	8.23	8.10
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	28-Jun-24	time	2.66	3.71	4.75	5.77	6.77	7.87	8.91	9.98	11.04	12.11		13.31	8 / 6			
reaction time		interval		1.05	1.04	1.02	1.00	1.10	1.04	1.07	1.06	1.07	1.20			3.11	3.14	3.20
wind	0.1 m/s	velocity	4.89	8.10	8.17	8.33	8.50	7.73	8.17	7.94	8.02	7.94	8.37	7.51		8.20	8.12	7.97
Johnson-Thompson, Katarina (GBR)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	08-Aug-24	time	2.53	3.63	4.70	5.76	6.80	7.85	8.91	9.96	11.02	12.10		13.40	6 / 2			
reaction time	0.187	interval	7 steps	1.10	1.07	1.06	1.04	1.05	1.06	1.05	1.06	1.08	1.30			3.23	3.15	3.19
wind	0.1 m/s	velocity	5.14	7.73	7.94	8.02	8.17	8.10	8.02	8.10	8.02	7.87	7.73	7.46		7.89	8.10	7.99
FINAL - 2020 Memorial Van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	04-Sep-20	time	2.60	3.73	4.80	5.87	6.90	7.97	9.03	10.10	11.17	12.30		13.57	5 / 4			
reaction time	0.170	interval	7 steps	1.13	1.07	1.07	1.03	1.07	1.06	1.07	1.07	1.13	1.27			3.27	3.16	3.27
wind	-0.2 m/s	velocity	5.00	7.52	7.94	7.94	8.25	7.94	8.02	7.94	7.94	7.52	7.91	7.37		7.80	8.07	7.80
FINAL - 2020 Bauhaus Galan (Stockholm, SWE) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	23-Aug-20	time	2.63	3.77	4.83	5.93	7.00	8.10	9.17	10.20	11.30	12.43		13.94	6 / 6			
reaction time	0.155	interval	7 steps	1.14	1.06	1.10	1.07	1.10	1.07	1.03	1.10	1.13	1.51			3.30	3.24	3.26
wind	1.4 m/s	velocity	4.94	7.46	8.02	7.73	7.94	7.73	7.94	8.25	7.73	7.52	6.66	7.17		7.73	7.87	7.82
Jollivet, Lou-Anne (FRA) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	12-Sep-20	time	2.63	3.71	4.76	5.88	6.92	7.94	8.98	10.03	11.11	12.19		13.52	7 / 5			
reaction time	0.204	interval		1.08	1.05	1.12	1.04	1.02	1.04	1.05	1.08	1.08	1.33	PB		3.25	3.10	3.21
wind	1.5 m/s	velocity	4.94	7.87	8.10	7.59	8.17	8.33	8.17	8.10	7.87	7.87	7.56	7.40		7.85	8.23	7.94
Jones, Courtney (USA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Villa de Madrid Indoor Meeting (Madrid, ESP) (TV Analysis)														<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>				
date	23-Feb-24	time	2.70	3.72	4.74	5.74	6.76							8.19	1 / 8			
reaction time	0.151	interval		1.02	1.02	1.00	1.02						1.43			3.04		
		velocity	4.81	8.33	8.33	8.50	8.33						9.09	7.33		8.39		

FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis) <i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>															
date	16-Feb-24	time	2.67	3.71	4.72	5.74	6.74								8 / --
reaction time		interval		1.04	1.01	1.02	1.00							DQ	3.07
		velocity	4.87	8.17	8.42	8.33	8.50								8.31

Heat 2 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis) <i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>															
date	16-Feb-24	time	2.64	3.67	4.67	5.67	6.67								8.02 4 / 5
reaction time	0.143	interval		1.03	1.00	1.00	1.00							1.35	=PB 3.03
		velocity	4.92	8.25	8.50	8.50	8.50							9.63	7.48 8.42

FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude) <i>CAA Hurdle Development (2020)</i>															
date	15-Feb-20	time	2.65	3.67	4.68	5.69	6.69								8.10 7 / 4
reaction time	0.171	interval		1.02	1.01	1.01	1.00							1.41	3.04
		velocity	4.91	8.33	8.42	8.42	8.50							9.22	7.41 8.39

Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude) <i>CAA Hurdle Development (2020)</i>															
date	15-Feb-20	time	2.67	3.72	4.72	5.73	6.74								8.14 3 / 3
reaction time	0.175	interval		1.05	1.00	1.01	1.01							1.40	3.06
		velocity	4.87	8.10	8.50	8.42	8.42							9.29	7.37 8.33

FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis) <i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	08-Jun-19	time	2.56	3.60	4.60	5.56	6.56	7.53	8.56	9.53	10.56	11.60			12.81 7 / 6
reaction time	0.183	interval		1.04	1.00	0.96	1.00	0.97	1.03	0.97	1.03	1.04	1.21		3.00 3.00 3.04
wind	0.6 m/s	velocity	5.08	8.17	8.50	8.85	8.50	8.76	8.25	8.76	8.25	8.17	8.68	7.81	8.50 8.50 8.39

FINAL - 2018 IAAF World Junior Championships (Tampere, FIN) <i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>															
date	15-Jul-18	time	2.63	3.70	4.71	5.71	6.69	7.68	8.68	9.73	10.80	11.91			13.19 4 / 3
reaction time	0.156	interval		1.07	1.01	1.00	0.98	0.99	1.00	1.05	1.07	1.11	1.28		3.08 2.97 3.23
wind	-1.0 m/s	velocity	4.94	7.94	8.42	8.50	8.67	8.59	8.50	8.10	7.94	7.66	8.20	7.58	8.28 8.59 7.89

FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis) <i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	09-Jun-18	time	2.56	3.60	4.63	5.63	6.63	7.63	8.66	9.66	10.66	11.73			13.04 2 / 3
reaction time		interval		1.04	1.03	1.00	1.00	1.00	1.03	1.00	1.00	1.07	1.31		3.07 3.03 3.07
wind	0.9 m/s	velocity	5.08	8.17	8.25	8.50	8.50	8.25	8.50	8.50	8.50	7.94	8.02	7.67	8.31 8.42 8.31

Jones, Hannah (AUS) (1995)															
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN) <i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>															
date	21-May-23	time	2.64	3.70	4.72	5.71	6.72	7.72	8.73	9.75	10.77	11.81			12.97 3 / 7
reaction time	0.144	interval		1.06	1.02	0.99	1.01	1.00	1.01	1.02	1.02	1.04	1.16		3.07 3.02 3.08
wind	0.4 m/s	velocity	4.92	8.02	8.33	8.59	8.42	8.50	8.42	8.33	8.33	8.17	8.66	7.71	8.31 8.44 8.28

FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis) <i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	13-Jul-21	time	2.60	3.67	4.73	5.80	6.87	7.94	9.00	10.02	11.07	12.12			13.39 8 / 7
reaction time	0.175	interval		1.07	1.06	1.07	1.07	1.06	1.02	1.05	1.05	1.27			3.20 3.20 3.12
wind	1.5 m/s	velocity	5.00	7.94	8.02	7.94	7.94	7.94	8.02	8.33	8.10	8.10	7.91	7.47	7.97 7.97 8.17

Jones, Jasmine (USA) (2001)															
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis) <i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>															
date	08-Jun-24	time	2.50	3.53	4.54	5.51	6.48	7.47	8.47	9.47	10.48	11.50			12.64 3 / 4
reaction time		interval		7 steps	1.03	1.01	0.97	0.97	0.99	1.00	1.00	1.01	1.02	1.14	PB 3.01 2.96 3.03
wind	-0.5 m/s	velocity	5.20	8.25	8.42	8.76	8.76	8.59	8.50	8.50	8.42	8.33	8.82	7.91	8.47 8.61 8.42

FINAL - 2024 Oxy Invitational (Eagle Rock, CA) (TV Analysis) <i>Henson (2024) Athlete First: 2024 Sydney McLaughlin-Levrone 400m Hurdles World Record Season</i>															
date	04-May-24	time	2.50	3.53	4.52	5.52	6.53	7.53	8.53	9.55	10.58	11.61			12.86 5 / 2
reaction time		interval		7 steps	1.03	0.99	1.00	1.01	1.00	1.00	1.02	1.03	1.03	1.25	3.02 3.01 3.08
wind	-0.4 m/s	velocity	5.20	8.25	8.59	8.50	8.42	8.50	8.50	8.33	8.25	8.25	8.04	7.78	8.44 8.47 8.28

FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis) <i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>															
date	16-Feb-24	time	2.53	3.53	4.52	5.49	6.46								7.79 3 / 2
reaction time	0.156	interval		7 steps	1.00	0.99	0.97	0.97						1.33	PB 2.96
		velocity	5.14	8.50	8.59	8.76	8.76							9.77	7.70 8.61

Heat 2 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis) <i>Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record</i>															
date	16-Feb-24	time	2.55	3.57	4.56	5.54	6.52								7.82 3 / 2
reaction time	0.157	interval		7 steps	1.02	0.99	0.98	0.98						1.30	PB 2.99
		velocity	5.10	8.33	8.59	8.67	8.67							10.00	7.67 8.53

FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis) <i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	11-Jun-22	time	2.47	3.51	4.52	5.49	6.47	7.45	8.44	9.44	10.46	11.46			12.66 7 / 2
reaction time		interval		1.04	1.01	0.97	0.98	0.98	0.99	1.00	1.02	1.00	1.20		PB 3.02 2.95 3.02
wind	-0.2 m/s	velocity	5.26	8.17	8.42	8.76	8.67	8.67	8.59	8.50	8.33	8.50	8.38	7.90	8.44 8.64 8.44

Jones, Lolo (USA) (1982)																		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

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		
wind	-0.5 m/s	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

FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	10-Jun-23	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
wind	3.8 m/s	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

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

date	29-Apr-23	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	1.00	1.01	1.12			2.98	2.94	3.01
wind	3.2 m/s	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

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

date	11-Jun-22	time	2.48	3.52	4.57	5.59	6.62	7.64	8.67	9.69	10.74	11.81	13.04	9 / 8			
reaction time	interval	1.04	1.05	1.02	1.03	1.02	1.03	1.02	1.05	1.07	1.23	DQ			3.11	3.08	3.14
wind	-0.2 m/s	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

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

date	20-Jun-21	time	2.43	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
wind	1.3 m/s	velocity	5.35	8.33	8.33	8.50	8.85	8.76	8.50	8.50	8.50	8.02	8.24	7.89	8.39	8.70	8.33

Heat 3 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	19-Jun-21	time	2.43	3.45	4.46	5.46	6.43	7.43	8.40	9.40	10.40	11.43	12.64	2 / 2			
reaction time	0.142	interval	1.02	1.01	1.00	0.97	1.00	0.97	1.00	1.00	1.03	1.21	PB		3.03	2.94	3.03
wind	1.0 m/s	velocity	5.35	8.33	8.42	8.50	8.76	8.50	8.76	8.50	8.50	8.25	8.31	7.91	8.42	8.67	8.42

FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	12-Jun-21	time	2.50	3.54	4.54	5.54	6.54	7.54	8.55	9.54	10.57	11.61	12.82	2 / 2			
reaction time	0.138	interval	1.04	1.00	1.00	1.00	1.00	1.01	0.99	1.03	1.04	1.21			3.04	3.01	3.06
wind	0.4 m/s	velocity	5.20	8.17	8.50	8.50	8.50	8.50	8.42	8.59	8.25	8.17	8.31	7.80	8.39	8.47	8.33

Jones, Tenaya (USA) (1989)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)***Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	10-May-15	time	2.66	3.72	4.71	5.69	6.68	7.66	8.65	9.65	10.65	11.68	12.83	6 / 3			
reaction time	0.173	interval	1.06	0.99	0.98	0.99	0.98	0.99	1.00	1.00	1.03	1.15			3.03	2.96	3.03
wind	0.9 m/s	velocity	4.89	8.02	8.59	8.67	8.59	8.67	8.59	8.50	8.50	8.25	9.13	7.79	8.42	8.61	8.42

Jones, Tia (USA) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)***Henson (2024) - Athlete First: 2024 year end hurdle report*

date	28-Jun-24	time	2.60	3.63	4.63	5.62	6.63	7.62	8.62	9.63	10.65	11.70	12.90	2 / 4			
reaction time	interval	1.03	1.00	0.99	1.01	0.99	1.00	1.01	1.01	1.02	1.05	1.20			3.02	3.00	3.08
wind	1.7 m/s	velocity	5.00	8.25	8.50	8.59	8.42	8.59	8.50	8.42	8.33	8.10	8.37	7.75	8.44	8.50	8.28

FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)*Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record*

date	16-Feb-24	time	2.53	3.51	4.48	5.42	6.39						7.68	4 / 1			
reaction time	0.161	interval	0.98	0.97	0.94	0.97							1.29		2.89		
		velocity	5.14	8.67	8.76	9.04	8.76						10.08	7.81	8.82		

Heat 2 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)*Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record*

date	16-Feb-24	time	2.50	3.50	4.45	5.40	6.36						7.67	7 / 1			
reaction time	0.140	interval	1.00	0.95	0.95	0.96							1.31	=WR	2.90		
		velocity	5.20	8.50	8.95	8.95	8.85						9.92	7.82	8.79		

FINAL - 2024 Millrose Games (New York, NY) (TV Analysis)*Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date	11-Feb-24	time	2.50	3.50	4.52	5.48	6.44						7.79	6 / 3			
reaction time	0.181	interval	1.00	1.02	0.96	0.96							1.35		2.98		
		velocity	5.20	8.50	8.33	8.85	8.85						9.63	7.70	8.56		

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

date	04-Feb-24	time	2.50	3.50	4.48	5.46	6.42						7.72	3 / 1			
reaction time	0.153	interval	1.00	0.98	0.98	0.96							1.30	PB	2.96		
		velocity	5.20	8.50	8.67	8.67	8.85						10.00	7.77	8.61		

FINAL - 2024 Corky Classic (Lubbock, TX) (TV Analysis)*Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date	20-Jan-24	time	2.46	3.50	4.52	5.52	6.54						7.80	5 / 2			
reaction time	interval	1.04	1.02	1.00	1.02								1.26	PB	3.06		
	velocity	5.28	8.17	8.33	8.50	8.33							10.32	7.69	8.33		

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

date	17-Sep-23	time	2.45	3.49	4.49	5.47	6.44	7.41	8.39	9.39	10.40	11.42	12.82	8 / 9			
reaction time	0.140	interval	1.04	1.00	0.98	0.97	0.97	0.98	1.00	1.01	1.02	1.40			3.02	2.92	3.03

wind	1.8 m/s	velocity	5.31	8.17	8.50	8.67	8.76	8.76	8.67	8.50	8.42	8.33	7.18	7.80	8.44	8.73	8.42	
FINAL - 2023 Weltklasse (Zürich, SUI)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	31-Aug-23	time	2.47	3.51	4.49	5.46	6.42	7.38	8.35	9.34	10.35	11.36		12.62	6 / 4			
reaction time	0.150	interval	1.04	0.98	0.97	0.96	0.96	0.96	0.97	0.99	1.01	1.01	1.26			2.99	2.89	3.01
wind	-0.2 m/s	velocity	5.26	8.17	8.67	8.76	8.85	8.85	8.76	8.59	8.42	8.42	7.98	7.92		8.53	8.82	8.47
FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	21-Jul-23	time	2.43	3.45	4.43	5.38	6.33	7.28	8.24	9.20	10.17	11.17		12.39	7 / 4			
reaction time	0.156	interval	1.02	0.98	0.95	0.95	0.95	0.95	0.96	0.96	0.97	1.00	1.22			2.95	2.86	2.93
wind	0.6 m/s	velocity	5.35	8.33	8.67	8.95	8.95	8.95	8.85	8.85	8.76	8.50	8.24	8.07		8.64	8.92	8.70
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	16-Jul-23	time	2.48	3.52	4.51	5.49	6.45	7.42	8.38	9.35	10.34	11.34		12.57	2 / 6			
reaction time	0.175	interval	1.04	0.99	0.98	0.96	0.97	0.96	0.97	0.99	1.00	1.23				3.01	2.89	2.96
wind	0.9 m/s	velocity	5.24	8.17	8.59	8.67	8.85	8.76	8.85	8.76	8.59	8.50	8.17	7.96		8.47	8.82	8.61
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	08-Jul-23	time	2.55	3.57	4.55	5.53	6.48	7.44	8.41	9.38	10.36	11.35		12.50	7 / 5			
reaction time		interval	1.02	0.98	0.98	0.95	0.96	0.97	0.97	0.97	0.98	0.99	1.15			2.98	2.88	2.94
wind	0.4 m/s	velocity	5.10	8.33	8.67	8.67	8.95	8.85	8.76	8.76	8.67	8.59	8.74	8.00		8.56	8.85	8.67
FINAL - 2023 Athletissima (Lausanne, SUI)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	30-Jun-23	time	2.43	3.47	4.46	5.42	6.37	7.33	8.29	9.27	10.26	11.27		12.51	3 / 3			
reaction time	0.139	interval	1.04	0.99	0.96	0.95	0.96	0.96	0.98	0.99	1.01	1.24				2.99	2.87	2.98
wind	-1.4 m/s	velocity	5.35	8.17	8.59	8.85	8.95	8.85	8.85	8.67	8.59	8.42	8.10	7.99		8.53	8.89	8.56
FINAL - 2023 USATF Los Angeles Grand Prix (Westwood, CA) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	27-May-23	time	2.58	3.60	4.60	5.57	6.54	7.48	8.44	9.42	10.40	11.41		12.50	7 / 3			
reaction time	0.186	interval	1.02	1.00	0.97	0.97	0.94	0.96	0.98	0.98	1.01	1.09				2.99	2.87	2.97
wind	-0.2 m/s	velocity	5.04	8.33	8.50	8.76	8.76	9.04	8.85	8.67	8.67	8.42	9.22	8.00		8.53	8.89	8.59
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	08-Sep-22	time	2.48	3.48	4.44	5.40	6.36	7.31	8.26	9.21	10.20	11.19		12.40	8 / 2			
reaction time	0.173	interval	1.00	0.96	0.96	0.96	0.95	0.95	0.95	0.99	0.99	1.21				2.92	2.86	2.93
wind	-0.3 m/s	velocity	5.24	8.50	8.85	8.85	8.85	8.95	8.95	8.95	8.59	8.59	8.31	8.06		8.73	8.92	8.70
FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	04-Sep-22	time	2.54	3.56	4.58	5.54	6.52	7.50	8.46	9.46	10.44	11.44		12.58	5 / 2			
reaction time	0.151	interval	1.02	1.02	0.96	0.98	0.98	0.96	1.00	0.98	1.00	1.14				3.00	2.92	2.98
wind	-0.3 m/s	velocity	5.12	8.33	8.33	8.85	8.67	8.67	8.85	8.50	8.67	8.50	8.82	7.95		8.50	8.73	8.56
FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	02-Sep-22	time	2.50	3.50	4.47	5.44	6.38	7.32	8.28	9.24	10.21	11.21		12.38	3 / 2			
reaction time	0.165	interval	1.00	0.97	0.97	0.94	0.94	0.96	0.96	0.97	1.00	1.17		PB		2.94	2.84	2.93
wind	0.1 m/s	velocity	5.20	8.50	8.76	8.76	9.04	9.04	8.85	8.85	8.76	8.50	8.59	8.08		8.67	8.98	8.70
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	26-Aug-22	time	2.47	3.50	4.47	5.44	6.41	7.37	8.34	9.31	10.28	11.27		12.47	8 / 3			
reaction time	0.161	interval	1.03	0.97	0.97	0.97	0.96	0.97	0.97	0.97	0.99	1.20		PB		2.97	2.90	2.93
wind	-0.9 m/s	velocity	5.26	8.25	8.76	8.76	8.76	8.85	8.76	8.76	8.76	8.59	8.37	8.02		8.59	8.79	8.70
FINAL - 2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	30-Jun-22	time	2.53	3.56	4.56	5.63	6.66	7.66	8.66	9.66	10.70	11.73		12.98	3 / 8			
reaction time	0.166	interval	1.03	1.00	1.07	1.03	1.00	1.00	1.00	1.00	1.04	1.03	1.25			3.10	3.03	3.07
wind	-0.5 m/s	velocity	5.14	8.25	8.50	7.94	8.25	8.50	8.50	8.50	8.17	8.25	8.04	7.70		8.23	8.42	8.31
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	25-Jun-22	time	2.60	3.62	4.60	5.58	6.56	7.52	8.49	9.49	10.47	11.48		12.59	4 / 5			
reaction time		interval	1.02	0.98	0.98	0.98	0.96	0.97	1.00	0.98	1.01	1.11				2.98	2.91	2.99
wind	-1.4 m/s	velocity	5.00	8.33	8.67	8.67	8.67	8.85	8.76	8.50	8.67	8.42	9.05	7.94		8.56	8.76	8.53
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	12-Jun-22	time	2.53	3.53	4.53	5.50	6.47	7.43	8.40	9.35	10.33	11.35		12.53	6 / 2			
reaction time	0.161	interval	1.00	1.00	0.97	0.97	0.96	0.97	0.95	0.98	1.02	1.18		PB		2.97	2.90	2.95
wind	2.0 m/s	velocity	5.14	8.50	8.50	8.76	8.76	8.85	8.76	8.95	8.67	8.33	8.52	7.98		8.59	8.79	8.64
FINAL - 2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	03-Jun-22	time	2.56	3.60	4.60	5.58	6.54	7.52	8.52	9.52	10.56	11.60		12.79	5 / 1			
reaction time		interval	1.04	1.00	0.98	0.96	0.98	1.00	1.00	1.00	1.04	1.04	1.19			3.02	2.94	3.08
wind	0.2 m/s	velocity	5.08	8.17	8.50	8.67	8.85	8.67	8.50	8.50	8.17	8.17	8.45	7.82		8.44	8.67	8.28
FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				

date	22-Apr-22	time	2.58	3.63	4.63	5.61	6.57	7.54	8.51	9.47	10.47	11.47		12.59	9 / 3															
reaction time		interval		1.05	1.00	0.98	0.96	0.97	0.97	0.96	1.00	1.00	1.12	PB		3.03	2.90	2.96												
wind	0.8 m/s	velocity	5.04	8.10	8.50	8.67	8.85	8.76	8.76	8.85	8.50	8.50	8.97	7.94		8.42	8.79	8.61												
Heat 1 - 2020 USATF Indoor National Championships (Albuquerque, NM) (Altitude)															<i>CAA Hurdle Development (2020)</i>															
date	15-Feb-20	time	2.60	3.63	4.65	5.64	6.62							7.96	3 / 1															
reaction time	0.162	interval		1.03	1.02	0.99	0.98						1.34	PB		3.04														
		velocity	5.00	8.25	8.33	8.59	8.67						9.70	7.54		8.39														
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)															<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>															
date	15-Jul-18	time	2.59	3.64	4.67	5.67	6.66	7.67	8.69	9.71	10.76	11.83		13.01	5 / 1															
reaction time	0.161	interval		1.05	1.03	1.00	0.99	1.01	1.02	1.02	1.05	1.07	1.18			3.08	3.02	3.14												
wind	-1.0 m/s	velocity	5.02	8.10	8.25	8.50	8.59	8.42	8.33	8.33	8.10	7.94	8.90	7.69		8.28	8.44	8.12												
Joshiŕa, Rena (JPN) (1986)															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Japanese National Championships (Hiroshima, JPN)															<i>Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season</i>															
date	26-Jun-09	time	2.49	3.57	4.63	5.68	6.72	7.76	8.80	9.84	10.90	11.97		13.26	6 / 3															
reaction time		interval		1.08	1.06	1.05	1.04	1.04	1.04	1.04	1.06	1.07	1.29	PB		3.19	3.12	3.17												
wind	1.9 m/s	velocity	5.22	7.87	8.02	8.10	8.17	8.17	8.17	8.17	8.02	7.94	8.14	7.54		7.99	8.17	8.04												
FINAL - 2008 Japanese National Championships (Kawasaki, JPN)															<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>															
date	28-Jun-08	time	2.46	3.54	4.62	5.68	6.74	7.80	8.87	9.94	11.04	12.13		13.53	1 / 2															
reaction time		interval		1.08	1.08	1.06	1.06	1.06	1.07	1.07	1.10	1.09	1.40			3.22	3.19	3.26												
wind	-1.5 m/s	velocity	5.28	7.87	7.87	8.02	8.02	8.02	7.94	7.94	7.73	7.80	7.50	7.39		7.92	7.99	7.82												
Juhász, Fanni (HUN) (1981)															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Windsprint (Sundsvall, SWE)															<i>Blomkvist (2012) - www.sub13.se</i>															
date	17-Jun-12	time	2.77	3.90	4.98	6.07	7.16	8.27	9.40	10.55	11.72	12.91		14.25	1 / 5															
reaction time		interval		1.13	1.08	1.09	1.09	1.11	1.13	1.15	1.17	1.19	1.34			3.30	3.33	3.51												
wind	0.8 m/s	velocity	4.69	7.52	7.87	7.80	7.80	7.66	7.52	7.39	7.26	7.14	7.84	7.02		7.73	7.66	7.26												
Jung, Caren (GER) (1968)															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 1996 German National Championships (Köln, GER)															<i>Hommel (2007) - Sprinttechnik beobachten und analysieren! P.71 ????</i>															
date	23-Jun-96	time	2.60	3.62	4.64	5.64	6.66	7.68	8.70	9.74	10.82	11.88		13.05	1 / 1															
reaction time		interval		1.02	1.02	1.00	1.02	1.02	1.02	1.04	1.08	1.06	1.17	=PB ???		3.04	3.06	3.18												
wind	???	velocity	5.00	8.33	8.33	8.50	8.33	8.33	8.33	8.17	7.87	8.02	8.97	7.66		8.39	8.33	8.02												
Jung Hye-Lim (KOR) (1987)															H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Asian Athletics Championships (Doha, QAT)															<i>CAA Hurdle Development (2019)</i>															
date	24-Apr-19	time	2.62	3.69	4.73	5.77	6.82	7.89	8.96	10.04	11.14	12.24		13.50	2 / 7															
reaction time	0.136	interval		1.07	1.04	1.04	1.05	1.07	1.07	1.08	1.10	1.10	1.26			3.15	3.19	3.28												
wind	1.3 m/s	velocity	4.96	7.94	8.17	8.17	8.10	7.94	7.94	7.87	7.73	7.73	8.33	7.41		8.10	7.99	7.77												
FINAL - 2018 Fuse Sprint (Tottori, JPN)															<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>															
date	03-Jun-18	time	2.58	3.64	4.65	5.68	6.69	7.72	8.75	9.78	10.83	11.89		13.11	1 / 1															
reaction time		interval		1.06	1.01	1.03	1.01	1.03	1.03	1.03	1.05	1.06	1.22			3.10	3.07	3.14												
wind	0.6 m/s	velocity	5.04	8.02	8.42	8.25	8.42	8.25	8.25	8.25	8.10	8.02	8.61	7.63		8.23	8.31	8.12												
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)															<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>															
date	20-May-18	time	2.62	3.65	4.68	5.68	6.70	7.72	8.76	9.79	10.86	11.92		13.13	8 / 2															
reaction time	0.152	interval		1.03	1.03	1.00	1.02	1.02	1.04	1.03	1.07	1.06	1.21			3.06	3.08	3.16												
wind	-0.6 m/s	velocity	4.96	8.25	8.25	8.50	8.33	8.33	8.17	8.25	7.94	8.02	8.68	7.62		8.33	8.28	8.07												
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)															<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>															
date	06-May-18	time	2.67	3.71	4.75	5.77	6.81	7.84	8.88	9.93	11.00	12.09		13.23	4 / 1															
reaction time		interval		1.04	1.04	1.02	1.04	1.03	1.04	1.05	1.07	1.09	1.14			3.10	3.11	3.21												
wind	-0.5 m/s	velocity	4.87	8.17	8.17	8.33	8.17	8.25	8.17	8.10	7.94	7.80	9.21	7.56		8.23	8.20	7.94												
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)															<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>															
date	29-Apr-18	time	2.61	3.66	4.69	5.71	6.74	7.76	8.84	9.88	10.97	12.09		13.33	5 / 6															
reaction time		interval		1.05	1.03	1.02	1.03	1.02	1.08	1.04	1.09	1.12	1.24			3.10	3.13	3.25												
wind	3.6 m/s	velocity	4.98	8.10	8.25	8.33	8.25	8.33	7.87	8.17	7.80	7.59	8.47	7.50		8.23	8.15	7.85												
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)															<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>															
date	07-May-17	time	2.60	3.66	4.69	5.72	6.75	7.79	8.84	9.88	10.94	12.05		13.27	4 / 3															
reaction time		interval		1.06	1.03	1.03	1.03	1.04	1.05	1.04	1.06	1.11	1.22			3.12	3.12	3.21												
wind	-0.2 m/s	velocity	5.00	8.02	8.25	8.25	8.25	8.17	8.10	8.17	8.02	7.66	8.61	7.54		8.17	8.17	7.94												
FINAL - 2017 Michitaka Memorial (Osaka, JPN)															<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>															
date	07-May-17	time	2.62	3.67	4.70	5.73	6.75	7.77	8.81	9.88	10.95	12.04		13.24	6 / 1															
reaction time		interval		1.05	1.03	1.03	1.02	1.02	1.04	1.07	1.07	1.09	1.20			3.11	3.08	3.23												
wind	-0.6 m/s	velocity	4.96	8.10	8.25	8.25	8.33	8.33	8.17	7.94	7.94	7.80	8.75	7.55		8.20	8.28	7.89												

FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)(2017) - tfd-data-store.com/2017/05/01/458/

date	29-Apr-17	time	2.64	3.73	4.80	5.86	6.90	7.92	8.96	10.00	11.06	12.12		13.33		6 / 3			
reaction time		interval		1.09	1.07	1.06	1.04	1.02	1.04	1.04	1.06	1.06	1.21				3.22	3.10	3.16
wind	2.0 m/s	velocity	4.92	7.80	7.94	8.02	8.17	8.33	8.17	8.17	8.02	8.02	8.68	7.50			7.92	8.23	8.07

FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)

Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers

date	29-Apr-16	time	2.62	3.69	4.73	5.75	6.77	7.79	8.82	9.88	10.94	12.00		13.20		6 / 1			
reaction time		interval		1.07	1.04	1.02	1.02	1.02	1.03	1.06	1.06	1.06	1.20				3.13	3.07	3.18
wind	1.1 m/s	velocity	4.96	7.94	8.17	8.33	8.33	8.33	8.25	8.02	8.02	8.02	8.75	7.58			8.15	8.31	8.02

Heat 2 - 2011 IAAF World Championships (Daegu, KOR)

KSSB (2011) - biomechanical analysis of women's 100m hurdle

date	02-Sep-11	time	2.65	3.70	4.76	5.81	6.85	7.91	8.97	10.03	11.12	12.21		13.39		5 / 7			
reaction time	0.139	interval		1.05	1.06	1.05	1.04	1.06	1.06	1.06	1.09	1.09	1.18				3.16	3.16	3.24
wind	-0.6 m/s	velocity	4.91	8.10	8.02	8.10	8.17	8.02	8.02	8.02	7.80	7.80	8.90	7.47			8.07	8.07	7.87

Kabayashi, Sayaka (JPN) (1996)

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

B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)

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

date	28-Apr-19	time	2.72	3.84	4.93	6.01	7.09	8.17	9.26	10.37	11.49	12.63		13.91		6 / 5			
reaction time		interval		1.12	1.09	1.08	1.08	1.08	1.09	1.11	1.12	1.14	1.28				3.29	3.25	3.37
wind	1.3 m/s	velocity	4.78	7.59	7.80	7.87	7.87	7.87	7.80	7.66	7.59	7.46	8.20	7.19			7.75	7.85	7.57

Kaftandjan, Isabelle (FRA) (1964)

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

FINAL - 1986 French National Indoor Championships (Lievin, FRA)

Aubert (1986) - indoor - video - haies, etude des performances

date	26-Jan-86	time	2.66	3.72	4.78	5.81	6.84							8.24		1 / 4			
reaction time		interval		1.06	1.06	1.03	1.03						1.40				3.15		
		velocity	4.89	8.02	8.02	8.25	8.25						9.29	7.28			8.10		

Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)

Aubert (1986) - indoor - video - haies, etude des performances

date	25-Jan-86	time	2.69	3.76	4.83	5.85	6.90							8.30		1 / 1			
reaction time		interval		1.07	1.07	1.02	1.05						1.40				3.16		
		velocity	4.83	7.94	7.94	8.33	8.10						9.29	7.23			8.07		

Heat ? - 1986 French National Indoor Championships (Lievin, FRA)

Aubert (1986) - indoor - video - haies, etude des performances

date	25-Jan-86	time	2.68	3.77	4.78	5.83	6.87							8.30		1 / 1			
reaction time		interval		1.09	1.01	1.05	1.04						1.43				3.15		
		velocity	4.85	7.80	8.42	8.10	8.17						9.09	7.23			8.10		

Katek, Lucyna (POL) (1956)

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

FINAL - 1982 European Championships (Athens, GRE)

Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen im olympiazklus 1981/84

date	09-Sep-82	time	2.55		4.56		6.50		8.42		11.37		12.45		1 / 1				
reaction time		interval			2.01		1.94		1.92		2.95	1.08	CR						2.95
wind	1.5 m/s	velocity	5.10		8.46		8.76		8.85		8.64	9.72	8.03						8.64

FINAL - 1982 ASV Weltklasse (Köln, FRG)

Ballreich (1986) - biomechanik der sprintarten- Band 1- biomechanik der leichtathletik

date	22-Aug-82	time	2.60	3.62	4.59	5.55	6.52	7.49	8.45	9.44	10.42	11.44		12.55		1 / 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
wind	0.2 m/s	velocity	5.00	8.33	8.76	8.85	8.76	8.76	8.85	8.59	8.67	8.33	9.46	7.97			8.64	8.79	8.53

Kälin, Annik (SUI) (2000)

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

Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	08-Aug-24	time	2.46	3.52	4.54	5.54	6.53	7.53	8.53	9.55	10.57	11.61		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
wind	-0.1 m/s	velocity	5.28	8.02	8.33	8.50	8.59	8.50	8.50	8.33	8.33	8.17	7.98	7.77			8.28	8.53	8.28

Kallur, Susanna (SWE) (1981)

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

FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)

Henson (2021) - Athlete First: 2016 year end hurdle report

date	09-Sep-16	time	2.52	3.56	4.56	5.56	6.56	7.58	8.58	9.62	10.68	11.76		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
wind	0.1 m/s	velocity	5.16	8.17	8.50	8.50	8.50	8.33	8.50	8.17	8.02	7.87	8.33	7.68			8.39	8.44	8.02

FINAL - 2016 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)

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

date	16-Jun-16	time	2.48	3.50	4.53	5.50	6.50	7.50	8.52	9.54	10.57	11.64		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
wind	-0.4 m/s	velocity	5.24	8.33	8.25	8.76	8.50	8.50	8.33	8.33	8.25	7.94	7.72	7.69			8.44	8.44	8.17

FINAL - 2008 ISTAF (Berlin, GER) (TV Analysis)Graubner (2008) - <http://www.fgs.uni-halle.de>

date	01-Jun-08	time	2.58	3.57	4.55	5.52	6.49	7.46	8.42	9.40	10.41	11.44		12.54		1 / 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
wind	0.8 m/s	velocity	5.04	8.59	8.67	8.76	8.76	8.76	8.85	8.67	8.42	8.25	9.55	7.97			8.67	8.79	8.44

FINAL - 2008 BW-Bank (Karlsruhe, GER)Blomkvist (2010) - www.sub13.se

date	10-Feb-08	time	2.42	3.40	4.36	5.32	6.26							7.68		1 / 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
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FINAL - 2007 ISTAF (Berlin, GER) (TV Analysis)Graubner (2008) - <http://www.fgs.uni-halle.de>

date	16-Sep-07	time	2.51	3.51	4.49	5.46	6.42	7.37	8.33	9.32	10.33	11.35	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	PB	2.95	2.87	3.02
wind	0.9 m/s	velocity	5.18	8.50	8.67	8.76	8.85	8.95	8.85	8.59	8.42	8.33	9.21	8.01	8.64	8.89	8.44

FINAL - 2007 IAAF World Championships (Osaka, JPN) (TV Analysis)Graubner (2008) - <http://www.fgs.uni-halle.de>

date	29-Aug-07	time	2.54	3.53	4.50	5.48	6.43	7.40	8.36	9.34	10.34	11.38	12.51	5 / 4			
reaction time	0.142	interval		0.99	0.97	0.98	0.95	0.97	0.96	0.98	1.00	1.04	1.13	PB	2.94	2.88	3.02
wind	-0.1 m/s	velocity	5.12	8.59	8.76	8.67	8.95	8.76	8.85	8.67	8.50	8.17	9.29	7.99	8.67	8.85	8.44

FINAL - 2006 European Championships (Göteborg, SWE) (TV Analysis)Graubner (2008) - <http://www.fgs.uni-halle.de>

date	11-Aug-06	time	2.57	3.58	4.57	5.54	6.49	7.45	8.43	9.41	10.41	11.44	12.59	/ 1			
reaction time	0.171	interval		1.01	0.99	0.97	0.95	0.96	0.98	0.98	1.00	1.03	1.15		2.97	2.89	3.01
wind	0.5 m/s	velocity	5.06	8.42	8.59	8.76	8.95	8.85	8.67	8.67	8.50	8.25	9.13	7.94	8.59	8.82	8.47

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

date	09-Aug-02	time	2.64	3.70	4.72	5.72	6.74	7.76	8.80	9.84	10.90	11.98	13.09	/ 7			
reaction time	0.153	interval		1.06	1.02	1.00	1.02	1.02	1.04	1.04	1.06	1.08	1.11		3.08	3.08	3.18
wind	-0.7 m/s	velocity	4.92	8.02	8.33	8.50	8.33	8.33	8.17	8.17	8.02	7.87	9.46	7.64	8.28	8.28	8.02

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

date	08-Aug-02	time	2.68	3.72	4.74	5.77	6.77	7.79	8.81	9.83	10.85	11.91	13.01	/ 1			
reaction time	0.160	interval		1.04	1.02	1.03	1.00	1.02	1.02	1.02	1.02	1.06	1.10		3.09	3.04	3.10
wind	0.0 m/s	velocity	4.85	8.17	8.33	8.25	8.50	8.33	8.33	8.33	8.33	8.02	9.55	7.69	8.25	8.39	8.23

Kamada, Saki (JPN) (1997)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)

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

date	01-May-22	time	2.67	3.75	4.83	5.86	6.97	8.05	9.17	10.26	11.37	12.51	13.76	9 / 7			
reaction time	0.144	interval		1.08	1.08	1.03	1.11	1.08	1.12	1.09	1.11	1.14	1.25		3.19	3.31	3.34
wind	-0.6 m/s	velocity	4.87	7.87	7.87	8.25	7.66	7.87	7.59	7.80	7.66	7.46	8.04	7.27	7.99	7.70	7.63

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

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

date	06-Sep-20	time	2.70	3.80	4.90	5.98	7.03	8.11	9.20	10.29	11.41	12.54	13.80	/ 6			
reaction time		interval		1.10	1.10	1.08	1.05	1.08	1.09	1.09	1.12	1.13	1.26		3.28	3.22	3.34
wind	1.3 m/s	velocity	4.81	7.73	7.73	7.87	8.10	7.87	7.80	7.80	7.59	7.52	7.98	7.25	7.77	7.92	7.63

Heat 6 - 2016 Japanese National Junior Championships (Mizuho, JPN)(2016.11.03) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	21-Oct-16	time	2.73	3.86	4.98	6.07	7.17	8.25	9.36	10.48	11.61	12.76	14.04	3 / 4			
reaction time		interval		1.13	1.12	1.09	1.10	1.08	1.11	1.12	1.13	1.15	1.28		3.34	3.29	3.40
wind	2.1 m/s	velocity	4.76	7.08	7.14	7.34	7.27	7.41	7.21	7.14	7.08	6.96	11.72	7.12	7.19	7.29	7.06

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)

Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics data

date	02-Aug-15	time	2.75	3.86	4.97	6.06	7.14	8.24	9.34	10.43	11.59	12.74	13.98	3 / 3			
reaction time		interval		1.11	1.11	1.09	1.08	1.10	1.10	1.09	1.16	1.15	1.24		3.31	3.28	3.40
wind	0.9 m/s	velocity	4.73	7.66	7.66	7.80	7.87	7.73	7.73	7.80	7.33	7.39	8.47	7.15	7.70	7.77	7.50

Kamani, Nzingah (USA) (1978)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 1996 USATF National Junior Championships (Delaware, OH)

USATF Women's Sprint Development (1996)

date	29-Jun-96	time	2.67	3.80	4.98								dnf	1 / --			
reaction time		interval		1.13	1.18												
wind	-2.5 m/s	velocity	4.87	7.52	7.20												

Kambundji, Ditaji (SUI) (2002)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2024 Weltklasse (Zürich, SUI)

Omega Timing (2024) - diamond league race analysis

date	05-Sep-24	time	2.49	3.55	4.57	5.57	6.56	7.56	8.56	9.58	10.62	11.67	12.98	8 / 9	no official time given		
reaction time	0.097	interval		1.06	1.02	1.00	0.99	1.00	1.00	1.02	1.04	1.05	1.31	DQ	3.08	2.99	3.11
wind	0.8 m/s	velocity	5.22	8.02	8.33	8.50	8.59	8.50	8.50	8.33	8.17	8.10	7.67	7.70	8.28	8.53	8.20

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

Omega Timing (2024) - diamond league race analysis

date	30-Aug-24	time	2.43	3.47	4.48	5.48	6.45	7.43	8.43	9.44	10.47	11.50	12.78	8 / 7			
reaction time	0.119	interval		1.04	1.01	1.00	0.97	0.98	1.00	1.01	1.03	1.03	1.28		3.05	2.95	3.07
wind	-0.4 m/s	velocity	5.35	8.17	8.42	8.50	8.76	8.67	8.50	8.42	8.25	8.25	7.85	7.82	8.36	8.64	8.31

FINAL - 2024 Athletissima (Lausanne, SUI)

Omega Timing (2024) - diamond league race analysis

date	22-Aug-24	time	2.43	3.46	4.46	5.45	6.43	7.42	8.41	9.41	10.42	11.46	12.75	2 / 8			
reaction time	0.146	interval		1.03	1.00	0.99	0.98	0.99	0.99	1.00	1.01	1.04	1.29		3.02	2.96	3.05
wind	-0.9 m/s	velocity	5.35	8.25	8.50	8.59	8.67	8.59	8.59	8.50	8.42	8.17	7.79	7.84	8.44	8.61	8.36

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

Paris 2024 Olympic Games - Results Book (2024)

date	09-Aug-24	time	2.42	3.46	4.45	5.43	6.41	7.40	8.38	9.38	10.39	11.42	12.68	6 / 5			
reaction time	0.141	interval		1.04	0.99	0.98	0.98	0.99	0.98	1.00	1.01	1.03	1.26		3.01	2.95	3.04

wind	0.4 m/s	velocity	5.37	8.17	8.59	8.67	8.67	8.59	8.67	8.50	8.42	8.25	7.98	7.89	8.47	8.64	8.39
Heat 4 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	07-Aug-24	time	3.50	4.52	5.52	6.51	7.50	8.49	9.50	10.51	11.54	12.81	2 / 3				
reaction time	0.150	interval	1.02	1.00	0.99	0.99	0.99	1.01	1.01	1.03	1.27				2.97	3.05	
wind	0.0 m/s	velocity	6.14	8.33	8.50	8.59	8.59	8.59	8.42	8.42	8.25	7.91	7.81		8.59	8.36	
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	08-Jun-24	time	2.52	3.52	4.49	5.46	6.43	7.35	8.32	9.26	10.25	11.28	12.40	8 / 2			
reaction time	0.159	interval	1.00	0.97	0.97	0.97	0.92	0.97	0.94	0.99	1.03	1.12	NR PB		2.94	2.86	2.96
wind	0.8 m/s	velocity	5.16	8.50	8.76	8.76	8.76	9.24	8.76	9.04	8.59	8.25	8.97	8.06	8.67	8.92	8.61
FINAL - 2024 Seashore Doha Meeting (Doha, QAT) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	10-May-24	time	2.56	3.57	4.57	5.55	6.51	7.48	8.43	9.40	10.38	11.40	12.49	7 / 1			
reaction time	0.127	interval	1.01	1.00	0.98	0.96	0.97	0.95	0.97	0.98	1.02	1.09			2.99	2.88	2.97
wind	1.7 m/s	velocity	5.08	8.42	8.50	8.67	8.85	8.76	8.95	8.76	8.67	8.33	9.22	8.01	8.53	8.85	8.59
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	27-Apr-24	time	2.55	3.61	4.61	5.59	6.57	7.55	8.54	9.54	10.56	11.62	12.81	2 / 3-6			
reaction time	0.137	interval	1.06	1.00	0.98	0.98	0.98	0.99	1.00	1.02	1.06	1.19			3.04	2.95	3.08
wind	0.3 m/s	velocity	5.10	8.02	8.50	8.67	8.67	8.67	8.59	8.50	8.33	8.02	8.45	7.81	8.39	8.64	8.28
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	20-Apr-24	time	2.48	3.51	4.53	5.51	6.50	7.47	8.45	9.43	10.42	11.44	12.70	2 / 7			
reaction time	0.152	interval	1.03	1.02	0.98	0.99	0.97	0.98	0.98	0.99	1.02	1.26			3.03	2.94	2.99
wind	-0.2 m/s	velocity	5.24	8.25	8.33	8.67	8.59	8.76	8.67	8.67	8.59	8.33	7.98	7.87	8.42	8.67	8.53
FINAL - 2023 Weltklasse (Zürich, SUI)														<i>Omega Timing (2023) - diamond league race analysis</i>			
date	31-Aug-23	time	2.44	3.48	4.47	5.44	6.42	7.40	8.38	9.37	10.39	11.45	12.73	2 / 6			
reaction time	0.122	interval	1.04	0.99	0.97	0.98	0.98	0.98	0.99	1.02	1.06	1.28			3.00	2.94	3.07
wind	-0.2 m/s	velocity	5.33	8.17	8.59	8.76	8.67	8.67	8.67	8.59	8.33	8.02	7.85	7.86	8.50	8.67	8.31
FINAL - 2023 World Athletics Championships (Budapest, HUN)														<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>			
date	24-Aug-23	time	2.58	3.60	4.60	5.59	6.57	7.56	8.55	9.57	10.57	11.59	12.70	9 / 7			
reaction time	0.140	interval	1.02	1.00	0.99	0.98	0.99	0.99	1.02	1.00	1.02	1.11			3.01	2.96	3.04
wind	-0.2 m/s	velocity	5.04	8.33	8.50	8.59	8.67	8.59	8.59	8.33	8.50	8.33	9.05	7.87	8.47	8.61	8.39
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	23-Aug-23	time	2.53	3.53	4.51	5.47	6.45	7.42	8.40	9.37	10.35	11.37	12.50	3 / 3			
reaction time	0.141	interval	1.00	0.98	0.96	0.98	0.98	0.97	0.98	0.97	0.98	1.02	1.13		2.94	2.93	2.97
wind	0.5 m/s	velocity	5.14	8.50	8.67	8.85	8.67	8.76	8.67	8.76	8.67	8.33	8.89	8.00	8.67	8.70	8.59
Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	22-Aug-23	time	2.55	3.55	4.55	5.56	6.54	7.52	8.50	9.52	10.53	11.56	12.71	2 / 3			
reaction time	0.145	interval	1.00	1.00	1.01	0.98	0.98	0.98	1.02	1.01	1.03	1.15			3.01	2.94	3.06
wind	0.0 m/s	velocity	5.10	8.50	8.50	8.42	8.67	8.67	8.67	8.33	8.42	8.25	8.74	7.87	8.47	8.67	8.33
FINAL - 2023 Athletissima (Lausanne, SUI)														<i>Omega Timing (2023) - diamond league race analysis</i>			
date	30-Jun-23	time	2.43	3.47	4.48	5.47	6.46	7.45	8.44	9.45	10.47	11.50	12.83	7 / 5			
reaction time	0.142	interval	1.04	1.01	0.99	0.99	0.99	0.99	1.01	1.02	1.03	1.33			3.04	2.97	3.06
wind	-1.4 m/s	velocity	5.35	8.17	8.42	8.59	8.59	8.59	8.42	8.33	8.25	7.56	7.79		8.39	8.59	8.33
FINAL - 2023 FBK Games (Hengelo, NED)														<i>Omega Timing (2023) - continental tour race analysis</i>			
date	04-Jun-23	time	2.41	3.45	4.45	5.44	6.42	7.41	8.40	9.40	10.43	11.47	12.78	7 / 3			
reaction time	0.134	interval	1.04	1.00	0.99	0.98	0.99	0.99	1.00	1.03	1.04	1.31			3.03	2.96	3.07
wind	0.2 m/s	velocity	5.39	8.17	8.50	8.59	8.67	8.59	8.59	8.50	8.25	8.17	7.67	7.82	8.42	8.61	8.31
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	08-Sep-22	time	2.57	3.60	4.64	5.67	6.67	7.67	8.67	9.71	10.81	11.94	13.22	1 / 9			
reaction time	0.161	interval	1.03	1.04	1.03	1.00	1.00	1.00	1.04	1.10	1.13	1.28			3.10	3.00	3.27
wind	-0.3 m/s	velocity	5.06	8.25	8.17	8.25	8.50	8.50	8.50	8.17	7.73	7.52	7.85	7.56	8.23	8.50	7.80
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	26-Aug-22	time	2.50	3.50	4.50	5.50	6.51	7.51	8.51	9.54	10.57	11.63	12.83	2 / 8			
reaction time	0.129	interval	1.00	1.00	1.00	1.01	1.00	1.00	1.03	1.03	1.06	1.20			3.00	3.01	3.12
wind	-0.9 m/s	velocity	5.20	8.50	8.50	8.50	8.42	8.50	8.50	8.25	8.25	8.02	8.38	7.79	8.50	8.47	8.17
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	21-Aug-22	time	2.56	3.58	4.57	5.56	6.55	7.54	8.53	9.52	10.52	11.57	12.74	8 / 3			
reaction time	0.169	interval	1.02	0.99	0.99	0.99	0.99	0.99	0.99	1.00	1.05	1.17			3.00	2.97	3.04
wind	-0.1 m/s	velocity	5.08	8.33	8.59	8.59	8.59	8.59	8.59	8.59	8.50	8.10	8.59	7.85	8.50	8.59	8.39
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			

date	24-Jul-22	time	2.52	3.52	4.50	5.48	6.48	7.48	8.45	9.45	10.48	11.53		12.70	2 / 6														
reaction time	0.134	interval		1.00	0.98	0.98	1.00	1.00	0.97	1.00	1.03	1.05	1.17	PB		2.96	2.97	3.08											
wind	0.9 m/s	velocity	5.16	8.50	8.67	8.67	8.50	8.50	8.76	8.50	8.25	8.10	8.59	7.87		8.61	8.59	8.28											
Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	23-Jul-22	time	2.50	3.53	4.55	5.57	6.63	7.66	8.66	9.70	10.83	11.90		13.12	7 / 5														
reaction time	0.137	interval		1.03	1.02	1.02	1.06	1.03	1.00	1.04	1.13	1.07	1.22			3.07	3.09	3.24											
wind	1.5 m/s	velocity	5.20	8.25	8.33	8.33	8.02	8.25	8.50	8.17	7.52	7.94	8.24	7.62		8.31	8.25	7.87											
FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	18-Jun-22	time	2.48	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											
wind	-0.4 m/s	velocity	5.24	8.17	8.33	8.50	8.42	8.33	8.42	8.25	8.25	8.17	8.24	7.75		8.33	8.39	8.23											
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	19-Mar-22	time	2.44	3.46										dnf	8 / --														
reaction time	0.108	interval		1.02																									
		velocity	5.33	8.33																									
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	09-Sep-21	time	2.50	3.54	4.58	5.58	6.60	7.60	8.60	9.66	10.70	11.74		13.01	9 / 8														
reaction time	0.142	interval		1.04	1.04	1.00	1.02	1.00	1.00	1.06	1.04	1.04	1.27			3.08	3.02	3.14											
wind	0.4 m/s	velocity	5.20	8.17	8.17	8.50	8.33	8.50	8.50	8.02	8.17	8.17	7.91	7.69		8.28	8.44	8.12											
FINAL - 2020 Galà dei Castelli (Bellinzona, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	15-Sep-20	time	2.64	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											
wind	0.0 m/s	velocity	4.92	8.02	8.02	8.17	8.17	8.33	8.17	8.02	7.73	7.73	8.38	7.49		8.07	8.23	7.82											
Kamizono, Miyu (JPN) (2007)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)														<i>Takashima (2024) - national high school sports festival - biomechanics data</i>															
date	01-Aug-24	time	2.62	3.70	4.77	5.83	6.89	7.96	9.02	10.11	11.20	12.33		13.53	8 / 2														
reaction time	0.141	interval		1.08	1.07	1.06	1.06	1.07	1.06	1.09	1.09	1.13	1.20	PB		3.21	3.19	3.31											
wind	1.0 m/s	velocity	4.96	7.87	7.94	8.02	8.02	7.94	8.02	7.80	7.80	7.52	8.38	7.39		7.94	7.99	7.70											
Kanai, Marumi (JPN) (1997)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)														<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>															
date	24-Oct-20	time	2.64	3.74	4.81	5.88	6.97	8.07	9.17	10.27	11.37	12.47		13.63	5 / 4														
reaction time		interval		1.10	1.07	1.07	1.09	1.10	1.10	1.10	1.10	1.10	1.16			3.24	3.29	3.30											
wind	-1.4 m/s	velocity	4.92	7.73	7.94	7.94	7.80	7.73	7.73	7.73	7.73	7.73	8.66	7.34		7.87	7.75	7.73											
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)														<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>															
date	20-Sep-20	time	2.70	3.80	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											
wind	0.0 m/s	velocity	4.81	7.73	7.73	7.87	8.10	7.87	7.80	7.80	7.59	7.52	9.66	7.36		7.77	7.92	7.63											
FINAL - 2019 Kinami Memorial (Osaka, JPN)														<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>															
date	06-May-19	time	2.75	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											
wind	0.6 m/s	velocity	4.73	7.73	7.66	7.87	7.94	7.87	7.87	7.80	7.66	7.66	9.05	7.28		7.75	7.89	7.70											
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)														<i>Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics data</i>															
date	02-Aug-15	time	2.71	3.85	4.97	6.09	7.20	8.29	9.42	10.54	11.67	12.81		14.03	8 / 5														
reaction time		interval		1.14	1.12	1.12	1.11	1.09	1.13	1.12	1.13	1.14	1.22	PB		3.38	3.33	3.39											
wind	0.9 m/s	velocity	4.80	7.46	7.59	7.59	7.66	7.80	7.52	7.59	7.52	7.46	8.61	7.13		7.54	7.66	7.52											
Kanazawa, Yvonne (JPN) (1974)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 IAAF World Cup (Madrid, ESP)														<i>Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas</i>															
date	21-Sep-02	time	2.65	3.70	4.75	5.78	6.81	7.87	8.94	10.01	11.10	12.25		13.59	6 / 9														
reaction time	0.177	interval		1.05	1.05	1.03	1.03	1.06	1.07	1.07	1.09	1.15	1.34			3.13	3.16	3.31											
wind	1.5 m/s	velocity	4.91	8.10	8.10	8.25	8.25	8.02	7.94	7.94	7.80	7.39	7.84	7.36		8.15	8.07	7.70											
Kang Ya (CHN) (1990)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Chinese National Games (Tianjin, CHN)														<i>Henson (2017) - coaching observations</i>															
date	04-Sep-17	time	2.70	3.75	4.80	5.82	6.85	7.89	8.94	9.98	11.05	12.15		13.37	5 / 4														
reaction time		interval		1.05	1.05	1.02	1.03	1.04	1.05	1.04	1.07	1.10	1.22			3.12	3.12	3.21											
wind	-0.2 m/s	velocity	4.81	8.10	8.10	8.33	8.25	8.17	8.10	8.17	7.94	7.73	8.61	7.48		8.17	8.17	7.94											
Kariya, Ayu (JPN) (2006)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)														<i>Takashima (2024) - national high school sports festival - biomechanics data</i>															
date	01-Aug-24	time	2.65	3.70	4.75	5.81	6.87	7.93	9.01	10.12	11.26	12.40		13.70	7 / 4														
reaction time	0.146	interval		1.05	1.05	1.06	1.06	1.06	1.08	1.11	1.14	1.14	1.30			3.16	3.20	3.39											
wind	1.0 m/s	velocity	4.91	8.10	8.10	8.02	8.02	8.02	7.87	7.66	7.46	7.46	7.73	7.30		8.07	7.97	7.52											

Karlsson, Lovisa (SWE) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Bauhaus Galan (Stockholm, SWE) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	23-Aug-20	time	2.70	3.77	4.83	5.90	6.97	8.03	9.13	10.23	11.37	12.50		13.76	5 / 5			
reaction time	0.152	interval		1.07	1.06	1.07	1.06	1.07	1.10	1.10	1.14	1.13	1.26			3.20	3.23	3.37
wind	1.4 m/s	velocity	4.81	7.94	8.02	7.94	7.94	8.02	7.73	7.73	7.46	7.52	7.98	7.27		7.97	7.89	7.57
Kasahara, Riko (JPN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)													<i>(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	21-Oct-16	time	2.74	3.86	4.95	6.05	7.14	8.25	9.35	10.47	11.61	12.76		13.98	6 / 2			
reaction time		interval		1.12	1.09	1.10	1.09	1.11	1.10	1.12	1.14	1.15	1.22			3.31	3.30	3.41
wind	0.4 m/s	velocity	4.74	7.14	7.34	7.27	7.34	7.21	7.27	7.14	7.02	6.96	12.30	7.15		7.25	7.27	7.04
Kasova, Yana (BUL) (1981)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2002 European Championships (Munich, GER)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
date	09-Aug-02	time	2.69	3.72	4.74	5.74	6.72	7.72	8.72	9.74	10.76	11.80		12.91	1 / 3			
reaction time	0.169	interval		1.03	1.02	1.00	0.98	1.00	1.00	1.02	1.02	1.04	1.11			3.05	2.98	3.08
wind	-0.7 m/s	velocity	4.83	8.25	8.33	8.50	8.67	8.50	8.50	8.33	8.33	8.17	9.46	7.75		8.36	8.56	8.28
Heat 3 - 2002 European Championships (Munich, GER)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
date	08-Aug-02	time	2.73	3.74	4.78	5.79	6.80	7.82	8.83	9.85	10.89	11.94		13.07	1 / 2			
reaction time	0.174	interval		1.01	1.04	1.01	1.01	1.02	1.01	1.02	1.04	1.05	1.13			3.06	3.04	3.11
wind	-0.3 m/s	velocity	4.76	8.42	8.17	8.42	8.42	8.33	8.42	8.33	8.17	8.10	9.29	7.65		8.33	8.39	8.20
Kataoka, Saki (JPN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)													<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>					
date	06-May-18	time	2.79	3.94	5.06	6.14	7.22	8.30	9.41	10.54	11.68	12.83		14.05	8 / 8			
reaction time		interval		1.15	1.12	1.08	1.08	1.08	1.11	1.13	1.14	1.15	1.22			3.35	3.27	3.42
wind	-0.5 m/s	velocity	4.66	7.39	7.59	7.87	7.87	7.87	7.66	7.52	7.46	7.39	8.61	7.12		7.61	7.80	7.46
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)													<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>					
date	11-May-17	time	2.74	3.88	5.00		7.22	8.33	9.43	10.54	11.67	12.79		14.00	8 / 5			
reaction time		interval		1.14	1.12		2.22	1.11	1.10	1.11	1.13	1.12	1.21					3.36
wind	-1.2 m/s	velocity	4.74	7.46	7.59		7.66	7.66	7.73	7.66	7.52	7.59	8.68	7.14				7.59
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)													<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>					
date	06-Apr-17	time	2.72	3.85	4.98	6.09	7.19	8.28	9.41	10.54	11.66	12.82		14.07	5 / 2			
reaction time		interval		1.13	1.13	1.11	1.10	1.09	1.13	1.13	1.12	1.16	1.25			3.37	3.32	3.41
wind	-1.8 m/s	velocity	4.78	7.52	7.52	7.66	7.73	7.80	7.52	7.52	7.59	7.33	8.40	7.11		7.57	7.68	7.48
Katayama, Kokona (JPN) (2005)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Japanese U20 National Championships (Osaka, JPN)													<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>					
date	03-Jun-23	time	2.69	3.77	4.83	5.89	6.93	8.00	9.08	10.16	11.26	12.36		13.58	4 / 1			
reaction time	0.178	interval		1.08	1.06	1.06	1.04	1.07	1.08	1.08	1.10	1.10	1.22			3.20	3.19	3.28
wind	-1.4 m/s	velocity	4.83	7.87	8.02	8.02	8.17	7.94	7.87	7.87	7.73	7.73	8.24	7.36		7.97	7.99	7.77
Kato, Saaya (JPN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)													<i>Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics data</i>					
date	02-Aug-15	time	2.72	3.84	4.97	6.10	7.21	8.35	9.48	10.62	11.78	12.95		14.25	2 / 9			
reaction time		interval		1.12	1.13	1.13	1.11	1.14	1.13	1.14	1.16	1.17	1.30			3.38	3.38	3.47
wind	0.9 m/s	velocity	4.78	7.59	7.52	7.52	7.66	7.46	7.52	7.46	7.33	7.26	8.08	7.02		7.54	7.54	7.35
Kawafune, Manami (JPN) (1988)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
B FINAL - 2008 Miko Oda Memorial (Hiroshima, JPN)													<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>					
date	29-Apr-08	time	2.57	3.72	4.84	5.94	7.05	8.17	9.30	10.44	11.59	12.75		14.15	1 / 2			
reaction time		interval		1.15	1.12	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.40			3.37	3.36	3.45
wind	-0.9 m/s	velocity	5.06	7.39	7.59	7.73	7.66	7.59	7.52	7.46	7.39	7.33	7.50	7.07		7.57	7.59	7.39
Kemenchzhi, Mariya (URS) (1959)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1981 USSR vs. GDR (Tbilisi, URS)													<i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>					
date	26-Jun-81	time	2.52	3.56	4.57	5.58	6.64	7.69	8.74	9.75	10.78	11.82		12.96	1 / 3			
reaction time		interval		1.04	1.01	1.01	1.06	1.05	1.05	1.01	1.03	1.04	1.14			3.06	3.16	3.08
wind	0.0 m/s	velocity	5.16	8.17	8.42	8.42	8.02	8.10	8.10	8.42	8.25	8.17	9.21	7.72		8.33	8.07	8.28
Kerekes, Gréta (HUN) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Repechage 1 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	08-Aug-24	time	2.48	3.56	4.60	5.62	6.64	7.67	8.70	9.75	10.81	11.89		13.20	7 / 5			
reaction time	0.123	interval		1.08	1.04	1.02	1.02	1.03	1.03	1.05	1.06	1.08	1.31			3.14	3.08	3.19
wind	0.1 m/s	velocity	5.24	7.87	8.17	8.33	8.33	8.25	8.25	8.10	8.02	7.87	7.67	7.58		8.12	8.28	7.99
Heat 3 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	07-Aug-24	time	2.50	3.59	4.63	5.72	6.80	7.85	8.90	9.98	11.05	12.15		13.50	5 / 7			
reaction time	0.136	interval		1.09	1.04	1.09	1.08	1.05	1.05	1.08	1.07	1.10	1.35			3.22	3.18	3.25

wind	0.8 m/s	velocity	5.20	7.80	8.17	7.80	7.87	8.10	8.10	7.87	7.94	7.73	7.44	7.41		7.92	8.02	7.85
FINAL - 2022 Gyulai István Memorial (Székesfehérvár, HUN) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	08-Aug-22	time	2.66	3.73	4.83	5.86	6.93	8.00	9.06	10.13	11.23	12.35		13.60	8 / 7			
reaction time	0.140	interval	1.07	1.10	1.03	1.07	1.07	1.06	1.07	1.10	1.12	1.25				3.20	3.20	3.29
wind	2.4 m/s	velocity	4.89	7.94	7.73	8.25	7.94	7.94	8.02	7.94	7.73	7.59	8.04	7.35		7.97	7.97	7.75
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	19-Aug-20	time	2.53	3.57	4.64	5.67	6.71	7.74	8.80	9.84	10.88	11.94		13.27	2 / 7			
reaction time	0.121	interval	1.04	1.07	1.03	1.04	1.03	1.06	1.04	1.04	1.06	1.33				3.14	3.13	3.14
wind	-0.2 m/s	velocity	5.14	8.17	7.94	8.25	8.17	8.25	8.02	8.17	8.17	8.02	7.56	7.54		8.12	8.15	8.12
Keskitalo, Saara (FIN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Finnish National Championships (Turku, FIN) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	14-Aug-20	time	2.73	3.86	4.93	6.00	7.06	8.20	9.26	10.36	11.46	12.60		13.87	7 / 8			
reaction time	0.171	interval	1.13	1.07	1.07	1.06	1.14	1.06	1.10	1.10	1.14	1.27				3.27	3.26	3.34
wind	1.0 m/s	velocity	4.76	7.52	7.94	7.94	8.02	7.46	8.02	7.73	7.73	7.46	7.91	7.21		7.80	7.82	7.63
Kiepura, Monika (POL) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	03-Jun-22	time	2.56	3.62	4.66	5.68	6.70	7.74	8.80	9.86	10.90	11.98		13.24	3 / 7			
reaction time		interval	1.06	1.04	1.04	1.02	1.02	1.04	1.06	1.06	1.04	1.08	1.26			3.12	3.12	3.18
wind	0.2 m/s	velocity	5.08	8.02	8.17	8.33	8.33	8.17	8.02	8.02	8.17	7.87	7.98	7.55		8.17	8.17	8.02
Kikuchi, Aika (JPN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (76cm)														<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>				
date	18-Oct-19	time	2.73	3.83	4.89	5.95	7.03	8.10	9.17	10.28	11.38	12.51		13.73	4 / 2			
reaction time	0.152	interval	1.10	1.06	1.06	1.06	1.08	1.07	1.07	1.11	1.10	1.13	1.22			3.22	3.22	3.34
wind	-0.8 m/s	velocity	4.76	7.73	8.02	8.02	7.87	7.94	7.94	7.66	7.73	7.52	8.61	7.28		7.92	7.92	7.63
Kilborn-Ryan, Pam (AUS) (1939)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1972 Olympic Games (Munich, FRG)														<i>Kay (1972) - BAAB Munich Technical Report</i>				
date	08-Sep-72	time	2.6	3.6	4.6	5.6	6.6	7.7	8.7	9.7	10.7	11.9		12.98	3 / 4			
reaction time		interval	1.00	1.00	1.00	1.00	1.10	1.00	1.00	1.00	1.00	1.20	1.08			3.00	3.10	3.20
wind	0.6 m/s	velocity	5.00	8.50	8.50	8.50	8.50	7.73	8.50	8.50	8.50	7.08	9.72	7.70		8.50	8.23	7.97
Kilborn, Pam (AUS) (1939)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles)														<i>Breitschaft (1965) - die leichtathletik wettkampfe der 1964 olympischen sommerspielen - 80m hürdenlauf</i>				
date	19-Oct-64	time			4.2			7.1						10.6	1 / 1			
reaction time		interval						2.90					3.50	=OR	(10.69)			
wind	???	velocity			6.67			8.28					6.86	9.43				
Kimura, Ayako (JPN) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Fuse Sprint (Tottori, JPN)														<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>				
date	06-Jun-21	time	2.59	3.65	4.67	5.68	6.70	7.71	8.74	9.81	10.88	11.97		13.18	5 / 4			
reaction time	0.148	interval	1.06	1.02	1.01	1.02	1.01	1.03	1.07	1.07	1.07	1.09	1.21			3.09	3.06	3.23
wind	1.8 m/s	velocity	5.02	8.02	8.33	8.42	8.33	8.42	8.25	7.94	7.94	7.80	8.31	7.59		8.25	8.33	7.89
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)														<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>				
date	01-Jun-21	time	2.62	3.67	4.70	5.71	6.74	7.77	8.81	9.86	10.93	12.04		13.29	4 / 4			
reaction time	0.174	interval	1.05	1.03	1.01	1.03	1.03	1.04	1.05	1.07	1.11	1.25				3.09	3.10	3.23
wind	0.3 m/s	velocity	4.96	8.10	8.25	8.42	8.25	8.25	8.17	8.10	7.94	7.66	8.04	7.52		8.25	8.23	7.89
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)														<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>				
date	09-May-21	time	2.61	3.65	4.68	5.68	6.72	7.75	8.79	9.84	10.92	12.00		13.22	1 / 3			
reaction time	0.143	interval	1.04	1.03	1.00	1.04	1.03	1.04	1.05	1.08	1.08	1.22				3.07	3.11	3.21
wind	-0.8 m/s	velocity	4.98	8.17	8.25	8.50	8.17	8.25	8.17	8.10	7.87	7.87	8.24	7.56		8.31	8.20	7.94
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)														<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>				
date	29-Jun-19	time	2.60	3.63	4.65	5.68	6.69	7.71	8.74	9.78	10.84	11.92		13.14	7 / 1			
reaction time	0.150	interval	1.03	1.02	1.03	1.01	1.02	1.03	1.04	1.06	1.08	1.22				3.08	3.06	3.18
wind	0.6 m/s	velocity	5.00	8.25	8.33	8.25	8.42	8.33	8.25	8.17	8.02	7.87	8.61	7.61		8.28	8.33	8.02
FINAL - 2019 Fuse Sprint (Tottori, JPN)														<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>				
date	02-Jun-19	time	2.60	3.63	4.63	5.63	6.64	7.64	8.65	9.69	10.75	11.82		13.01	4 / 1			
reaction time	0.160	interval	1.03	1.00	1.00	1.01	1.00	1.01	1.04	1.06	1.07	1.19				3.03	3.02	3.17
wind	3.5 m/s	velocity	5.00	8.25	8.50	8.50	8.42	8.50	8.42	8.17	8.02	7.94	8.82	7.69		8.42	8.44	8.04
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)														<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>				
date	19-May-19	time	2.58	3.65	4.66	5.66	6.67	7.69	8.70	9.74	10.81	11.90		13.11	6 / 6			
reaction time	0.156	interval	1.07	1.01	1.00	1.01	1.02	1.01	1.04	1.07	1.09	1.21				3.08	3.04	3.20
wind	0.4 m/s	velocity	5.04	7.94	8.42	8.50	8.42	8.33	8.42	8.17	7.94	7.80	8.68	7.63		8.28	8.39	7.97
FINAL - 2019 Asian Athletics Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>				

date	24-Apr-19	time	2.56	3.61	4.63	5.64	6.65	7.68	8.71	9.76	10.82	11.89	13.13	4 / 1			
reaction time	0.148	interval		1.05	1.02	1.01	1.01	1.03	1.03	1.05	1.06	1.07	1.24		3.08	3.07	3.18
wind	1.3 m/s	velocity	5.08	8.10	8.33	8.42	8.42	8.25	8.25	8.10	8.02	7.94	8.47	7.62	8.28	8.31	8.02
Heat 2 - 2019 Asian Athletics Championships (Doha, QAT)														CAA Hurdle Development (2019)			
date	23-Apr-19	time	2.62	3.65	4.65	5.67	6.67	7.70	8.72	9.77	10.86		13.19	2 / 1			
reaction time	0.158	interval		1.03	1.00	1.02	1.00	1.03	1.02	1.05	1.09				3.05	3.05	
wind	1.9 m/s	velocity	4.96	8.25	8.50	8.33	8.50	8.25	8.33	8.10	7.80		7.58		8.36	8.36	
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)														Henson (2021) - Athlete First: 2018 year end hurdle report			
date	08-Sep-18	time	2.52	3.56	4.60	5.64	6.66	7.70	8.74	9.82	10.88	12.02	13.39	5 / 6			
reaction time	0.166	interval		1.04	1.04	1.04	1.02	1.04	1.04	1.08	1.06	1.14	1.37		3.12	3.10	3.28
wind	-0.1 m/s	velocity	5.16	8.17	8.17	8.17	8.33	8.17	8.17	7.87	8.02	7.46	7.66	7.47	8.17	8.23	7.77
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)														Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad			
date	24-Jun-18	time	2.61	3.62	4.65	5.66	6.67	7.68	8.73	9.78	10.86	11.96	13.21	4 / 3			
reaction time	0.164	interval		1.01	1.03	1.01	1.01	1.01	1.05	1.05	1.08	1.10	1.25		3.05	3.07	3.23
wind	1.1 m/s	velocity	4.98	8.42	8.25	8.42	8.42	8.42	8.10	8.10	7.87	7.73	8.40	7.57	8.36	8.31	7.89
FINAL - 2018 Fuse Sprint (Tottori, JPN)														Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad			
date	03-Jun-18	time	2.65	3.73	4.79	5.83	6.84	7.87	8.91	9.97	11.05	12.13	13.41	4 / 4			
reaction time		interval		1.08	1.06	1.04	1.01	1.03	1.04	1.06	1.08	1.08	1.28		3.18	3.08	3.22
wind	0.6 m/s	velocity	4.91	7.87	8.02	8.17	8.42	8.25	8.17	8.02	7.87	7.87	8.20	7.46	8.02	8.28	7.92
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)														Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad			
date	20-May-18	time	2.64	3.70	4.73	5.76	6.79	7.82	8.87	9.92	10.99	12.07	13.28	5 / 4			
reaction time	0.160	interval		1.06	1.03	1.03	1.03	1.03	1.05	1.05	1.07	1.08	1.21		3.12	3.11	3.20
wind	-0.6 m/s	velocity	4.92	8.02	8.25	8.25	8.25	8.25	8.10	8.10	7.94	7.87	8.68	7.53	8.17	8.20	7.97
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)														Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles			
date	11-Aug-17	time	2.48	3.55	4.59	5.63	6.66	7.69	8.72	9.77	10.84	11.93	13.29	2 / 8			
reaction time	0.163	interval		1.07	1.04	1.04	1.03	1.03	1.03	1.05	1.07	1.09	1.36		3.15	3.09	3.21
wind	0.5 m/s	velocity	5.24	7.94	8.17	8.17	8.25	8.25	8.25	8.10	7.94	7.80	7.72	7.52	8.10	8.25	7.94
FINAL - 2017 Japanese National Championships (Osaka, JPN)														(2017) - tfdata-store.com/2017/07/19/post-1068/			
date	25-Jun-17	time	2.61	3.65	4.66	5.67	6.67	7.69	8.72	9.76	10.82	11.90	13.12	5 / 1			
reaction time	0.163	interval		1.04	1.01	1.01	1.00	1.02	1.03	1.04	1.06	1.08	1.22		3.06	3.05	3.18
wind	0.4 m/s	velocity	4.98	8.17	8.42	8.42	8.50	8.33	8.25	8.17	8.02	7.87	8.61	7.62	8.33	8.36	8.02
Semi-Final 1 - 2017 Japanese National Championships (Osaka, JPN)														(2017.06.24) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en			
date	24-Jun-17	time	2.59	3.64	4.66	5.67	6.69	7.69	8.73	9.76	10.81	11.87	13.03	4 / 1			
reaction time	0.161	interval		1.05	1.02	1.01	1.02	1.00	1.04	1.03	1.05	1.06	1.16		3.08	3.06	3.14
wind	0.4 m/s	velocity	5.02	8.10	8.33	8.42	8.33	8.50	8.17	8.25	8.10	8.02	9.05	7.67	8.28	8.33	8.12
FINAL - 2017 Fuse Sprint (Tottori, JPN)														(2017) - tfdata-store.com/2017/06/04/post-848/			
date	04-Jun-17	time	2.59	3.61	4.63	5.64	6.65	7.65	8.67	9.69	10.75	11.79	12.99	6 / 1			
reaction time		interval		1.02	1.02	1.01	1.01	1.00	1.02	1.02	1.06	1.04	1.20		3.05	3.03	3.12
wind	3.7 m/s	velocity	5.02	8.33	8.33	8.42	8.42	8.50	8.33	8.33	8.02	8.17	8.75	7.70	8.36	8.42	8.17
Heat 3 - 2017 Fuse Sprint (Tottori, JPN)														(2017) - tfdata-store.com/2017/06/04/post-848/			
date	04-Jun-17	time	2.63	3.68	4.70	5.73	6.75	7.78	8.83	9.89	10.94	12.01	13.23	6 / 1			
reaction time		interval		1.05	1.02	1.03	1.02	1.03	1.05	1.06	1.05	1.07	1.22		3.10	3.10	3.18
wind	1.3 m/s	velocity	4.94	8.10	8.33	8.25	8.33	8.25	8.10	8.02	8.10	7.94	8.61	7.56	8.23	8.23	8.02
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)														(2017) - tfdata-store.com/2017/05/22/post-599/			
date	21-May-17	time	2.61	3.65	4.68	5.70	6.71	7.73	8.75	9.80	10.86	11.92	13.10	2 / 4			
reaction time	0.167	interval		1.04	1.03	1.02	1.01	1.02	1.02	1.05	1.06	1.06	1.18		3.09	3.05	3.17
wind	0.0 m/s	velocity	4.98	8.17	8.25	8.33	8.42	8.33	8.33	8.10	8.02	8.02	8.90	7.63	8.25	8.36	8.04
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)														(2017) - tfdata-store.com/2017/05/08/post-413/			
date	07-May-17	time	2.65	3.71	4.75	5.76	6.80	7.81	8.86	9.90	10.94	12.01	13.21	6 / 1			
reaction time		interval		1.06	1.04	1.01	1.04	1.01	1.05	1.04	1.04	1.07	1.20		3.11	3.10	3.15
wind	-0.2 m/s	velocity	4.91	8.02	8.17	8.42	8.17	8.42	8.10	8.17	8.17	7.94	8.75	7.57	8.20	8.23	8.10
FINAL - 2017 Michitaka Memorial (Osaka, JPN)														(2017) - tfdata-store.com/2017/05/08/post-413/			
date	07-May-17	time	2.62	3.68	4.71	5.73	6.76	7.78	8.83	9.88	10.95	12.04	13.25	4 / 2			
reaction time		interval		1.06	1.03	1.02	1.03	1.02	1.05	1.05	1.07	1.09	1.21		3.11	3.10	3.21
wind	-0.6 m/s	velocity	4.96	8.02	8.25	8.33	8.25	8.33	8.10	8.10	7.94	7.80	8.68	7.55	8.20	8.23	7.94
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)														(2017) - tfdata-store.com/2017/05/01/458/			
date	29-Apr-17	time	2.63	3.69	4.74	5.77	6.82	7.85	8.90	9.93	10.98	12.05	13.21	7 / 2			
reaction time		interval		1.06	1.05	1.03	1.05	1.03	1.05	1.03	1.05	1.07	1.16		3.14	3.13	3.15
wind	2.0 m/s	velocity	4.94	8.02	8.10	8.25	8.10	8.25	8.10	8.25	8.10	7.94	9.05	7.57	8.12	8.15	8.10

FINAL - 2016 Japanese National Championships (Nagoya, JPN)*Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers*

date	26-Jun-16	time	2.62	3.65	4.68	5.70	6.71	7.74	8.79	9.86	10.94	12.02	13.23	5 / 1				
reaction time	0.159	interval		1.03	1.03	1.02	1.01	1.03	1.05	1.07	1.08	1.08	1.21		3.08	3.09	3.23	
wind	2.1 m/s	velocity	4.96	8.25	8.25	8.33	8.42	8.25	8.10	7.94	7.87	7.87	8.68	7.56		8.28	8.25	7.89

FINAL - 2016 Fuse Sprint (Tottori, JPN)*(2016.06.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	05-Jun-16	time	2.59	3.63	4.67	5.70	6.74	7.76	8.80	9.86	10.91	12.00	13.19	7 / 1				
reaction time		interval		1.04	1.04	1.03	1.04	1.02	1.04	1.06	1.05	1.09	1.19		3.11	3.10	3.20	
wind	2.2 m/s	velocity	5.02	8.17	8.17	8.25	8.17	8.33	8.17	8.02	8.10	7.80	8.82	7.58		8.20	8.23	7.97

Heat 3 - 2016 Fuse Sprint (Tottori, JPN)*(2016.06.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	05-Jun-16	time	2.66	3.72	4.77	5.79	6.81	7.85	8.89	9.95	11.02	12.12	13.31	5 / 1				
reaction time		interval		1.06	1.05	1.02	1.02	1.04	1.04	1.06	1.07	1.10	1.19		3.13	3.10	3.23	
wind	2.2 m/s	velocity	4.89	8.02	8.10	8.33	8.33	8.17	8.17	8.02	7.94	7.73	8.82	7.51		8.15	8.23	7.89

FINAL - 2016 Kinan Memorial (Osaka, JPN)*(2016.05.11) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	08-May-16	time	2.62	3.67	4.72	5.73	6.76	7.80	8.83	9.86	10.94	12.03	13.25	6 / 1				
reaction time		interval		1.05	1.05	1.01	1.03	1.04	1.03	1.03	1.08	1.09	1.22		3.11	3.10	3.20	
wind	0.6 m/s	velocity	4.96	8.10	8.10	8.42	8.25	8.17	8.25	8.25	7.87	7.80	8.61	7.55		8.20	8.23	7.97

FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)*Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers*

date	29-Apr-16	time	2.65	3.72	4.75	5.77	6.82	7.85	8.90	9.94	11.00	12.08	13.27	5 / 3				
reaction time		interval		1.07	1.03	1.02	1.05	1.03	1.05	1.04	1.06	1.08	1.19		3.12	3.13	3.18	
wind	1.1 m/s	velocity	4.91	7.94	8.25	8.33	8.10	8.25	8.10	8.17	8.02	7.87	8.82	7.54		8.17	8.15	8.02

FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	10-May-15	time	2.63	3.68	4.69	5.71	6.74	7.74	8.78	9.82	10.87	11.93	13.13	2 / 6				
reaction time	0.172	interval		1.05	1.01	1.02	1.03	1.00	1.04	1.04	1.05	1.06	1.20		3.08	3.07	3.15	
wind	0.9 m/s	velocity	4.94	8.10	8.42	8.33	8.25	8.50	8.17	8.17	8.10	8.02	8.75	7.62		8.28	8.31	8.10

FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	03-May-15	time	2.65	3.71	4.75	5.78	6.82	7.84	8.89	9.93	10.98	12.07	13.27	1 / 1				
reaction time		interval		1.06	1.04	1.03	1.04	1.02	1.05	1.04	1.05	1.09	1.20		3.13	3.11	3.18	
wind	0.2 m/s	velocity	4.91	8.02	8.17	8.25	8.17	8.33	8.10	8.17	8.10	7.80	8.75	7.54		8.15	8.20	8.02

Heat 1 - 2012 Olympic Games (London, GBR)*(2016.10.31) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	06-Aug-12	time	2.64	3.66	4.69	5.70	6.71						13.75	5 / 7			
reaction time	0.169	interval		1.02	1.03	1.01	1.01								3.06		
wind	0.6 m/s	velocity	4.92	8.33	8.25	8.42	8.42						7.27		8.33		

Heat 5 - 2009 Japanese National Championships (Hiroshima, JPN)*Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season*

date	25-Jun-09	time	2.56	3.67	4.75	5.82	6.89	7.97	9.06	10.15	11.26	12.39	13.76	5 / 2				
reaction time		interval		1.11	1.08	1.07	1.07	1.08	1.09	1.09	1.11	1.13	1.37		PB	3.26	3.24	3.33
wind	1.5 m/s	velocity	5.08	7.66	7.87	7.94	7.94	7.87	7.80	7.80	7.66	7.52	7.66	7.27		7.82	7.87	7.66

Kinashi, Mitsuna (JPN)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)***Takashima (2023) - national high school sports festival - biomechanics data*

date	06-Aug-23	time	2.74	3.86	4.95	6.00	7.07	8.15	9.22	10.33	11.44	12.58	13.79	3 / 4				
reaction time	0.166	interval		1.12	1.09	1.05	1.07	1.08	1.07	1.11	1.11	1.14	1.21		3.26	3.22	3.36	
wind	0.8 m/s	velocity	4.74	7.59	7.80	8.10	7.94	7.87	7.94	7.66	7.66	7.46	8.31	7.25		7.82	7.92	7.59

Kinsahi, Hina (JPN) (2006)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2023 Japanese U20 National Championships (Osaka, JPN)***Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date	03-Jun-23	time	2.73	3.83	4.93	6.02	7.12	8.25	9.38	10.48	11.63	12.78	14.00	2 / 5				
reaction time	0.169	interval		1.10	1.10	1.09	1.10	1.13	1.13	1.10	1.15	1.15	1.22		PB	3.29	3.36	3.40
wind	-1.4 m/s	velocity	4.76	7.73	7.73	7.80	7.73	7.52	7.52	7.73	7.39	7.39	8.24	7.14		7.75	7.59	7.50

Kiryama, Chie (JPN) (1991)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)***Matsubayashi (2018) - research on athlete performance and technique*

date	16-Jun-18	time	2.72	3.78	4.84	5.90	6.97	8.04	9.12	10.22	11.34	12.49	13.71	6 / 2				
reaction time		interval		1.06	1.06	1.06	1.07	1.07	1.08	1.10	1.12	1.15	1.22		3.18	3.22	3.37	
wind	1.6 m/s	velocity	4.78	8.02	8.02	8.02	7.94	7.94	7.87	7.73	7.59	7.39	8.61	7.29		8.02	7.92	7.57

Heptathlon - Heat 3 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN)*Matsubayashi (2018) - research on athlete performance and technique- 2018 data book*

date	21-Apr-18	time	2.79	3.92	5.06	6.17	7.30	8.41	9.55	10.70	11.89	13.12	14.45	5 / 1				
reaction time		interval		1.13	1.14	1.11	1.13	1.11	1.14	1.15	1.19	1.23	1.33		3.38	3.38	3.57	
wind	-4.5 m/s	velocity	4.66	7.52	7.46	7.66	7.52	7.66	7.46	7.39	7.14	6.91	7.89	6.92		7.54	7.54	7.14

B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)*(2017) - tfdata-store.com/2017/05/01/458/*

date	29-Apr-17	time	2.72	3.80	4.87	5.92	6.98	8.07	9.16	10.27	11.39	12.54	13.74	1 / 7				
reaction time		interval		1.08	1.07	1.05	1.06	1.09	1.09	1.11	1.12	1.15	1.20		3.20	3.24	3.38	
wind	4.1 m/s	velocity	4.78	7.87	7.94	8.10	8.02	7.80	7.80	7.66	7.59	7.39	8.75	7.28		7.97	7.87	7.54

Kirkland, Anjanette (USA) (1974)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2006 USATF National Championships (Indianapolis, IN)																	
<i>USATF Women's Hurdle Development (2006)</i>																	
date	24-Jun-06	time	2.67	3.70	4.67	5.67	6.62	7.64	8.63	9.64	10.66	11.71		12.87	8 / 6		
reaction time		interval		1.03	0.97	1.00	0.95	1.02	0.99	1.01	1.02	1.05	1.16		3.00	2.96	3.08
wind	-0.4 m/s	velocity	4.87	8.25	8.76	8.50	8.95	8.33	8.59	8.42	8.33	8.10	9.05	7.77	8.50	8.61	8.28
FINAL - 2001 IAAF World Championships (Edmonton, CAN)																	
<i>Winckler (2009) - UK Athletics- National Coaching Conference</i>																	
date	11-Aug-01	time	2.60	3.60	4.60	5.56	6.52	7.48	8.41	9.37	10.33	11.33		12.42	1 / 1		
reaction time	0.123	interval		1.00	1.00	0.96	0.96	0.96	0.93	0.96	0.96	1.00	1.09	PB	2.96	2.85	2.92
wind	2.0 m/s	velocity	5.00	8.50	8.50	8.85	8.85	8.85	9.14	8.85	8.85	8.50	9.63	8.05	8.61	8.95	8.73
Kita, Ayane (JPN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)																	
<i>(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																	
date	21-Oct-16	time	2.85	3.98	5.07	6.17	7.25	8.36	9.44	10.54	11.65	12.80		14.07	2 / 4		
reaction time		interval		1.13	1.09	1.10	1.08	1.11	1.08	1.10	1.11	1.15	1.27		3.32	3.27	3.36
wind	1.6 m/s	velocity	4.56	7.08	7.34	7.27	7.41	7.21	7.41	7.27	7.21	6.96	11.81	7.11	7.23	7.34	7.14
Kiyoyama, Chisato (JPN) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Japanese National Championships (Osaka, JPN)																	
<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>																	
date	03-Jun-23	time	2.65	3.70	4.72	5.73	6.73	7.74	8.79	9.84	10.93	12.05		13.28	9 / 5		
reaction time	0.166	interval		1.05	1.02	1.01	1.00	1.01	1.05	1.05	1.09	1.12	1.23		3.08	3.06	3.26
wind	-1.2 m/s	velocity	4.91	8.10	8.33	8.42	8.50	8.42	8.10	8.10	7.80	7.59	8.17	7.53	8.28	8.33	7.82
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)																	
<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>																	
date	21-May-23	time	2.64	3.67	4.69	5.69	6.68	7.69	8.69	9.70	10.74	11.80		12.96	2 / 6		
reaction time	0.145	interval		1.03	1.02	1.00	0.99	1.01	1.00	1.01	1.04	1.06	1.16	PB	3.05	3.00	3.11
wind	0.4 m/s	velocity	4.92	8.25	8.33	8.50	8.59	8.42	8.50	8.42	8.17	8.02	8.66	7.72	8.36	8.50	8.20
FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)																	
<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>																	
date	07-May-23	time	2.65	3.71	4.73	5.73	6.73	7.73	8.75	9.78	10.83	11.89		13.05	5 / 3		
reaction time	0.146	interval		1.06	1.02	1.00	1.00	1.00	1.02	1.03	1.05	1.06	1.16		3.08	3.02	3.14
wind	0.7 m/s	velocity	4.91	8.02	8.33	8.50	8.50	8.50	8.33	8.25	8.10	8.02	8.66	7.66	8.28	8.44	8.12
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)																	
<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>																	
date	29-Apr-23	time	2.67	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
wind	0.6 m/s	velocity	4.87	7.94	8.33	8.17	8.42	8.33	8.17	8.17	7.94	7.87	8.52	7.55	8.15	8.31	7.99
FINAL - 2022 Japanese National Championships (Osaka, JPN)																	
<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>																	
date	11-Jun-22	time	2.69	3.78	4.85	5.88	6.91	7.95	9.00	10.05	11.13	12.22		13.37	5 / 5		
reaction time	0.146	interval		1.09	1.07	1.03	1.03	1.04	1.05	1.05	1.08	1.09	1.15		3.19	3.12	3.22
wind	0.8 m/s	velocity	4.83	7.80	7.94	8.25	8.25	8.17	8.10	8.10	7.87	7.80	8.74	7.48	7.99	8.17	7.92
B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)																	
<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>																	
date	29-Apr-22	time	2.74	3.84	4.91	5.96	7.02	8.07	9.14	10.21	11.31	12.40		13.63	5 / 1		
reaction time	0.162	interval		1.10	1.07	1.05	1.06	1.05	1.07	1.07	1.10	1.09	1.23		3.22	3.18	3.26
wind	0.3 m/s	velocity	4.74	7.73	7.94	8.10	8.02	8.10	7.94	7.94	7.73	7.80	8.17	7.34	7.92	8.02	7.82
FINAL - 2021 Japanese National Championships (Osaka, JPN)																	
<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																	
date	27-Jun-21	time	2.69	3.75	4.80	5.81	6.82	7.85	8.87	9.91	10.98	12.05		13.22	7 / 2		
reaction time	0.146	interval		1.06	1.05	1.01	1.01	1.03	1.02	1.04	1.07	1.07	1.17		3.12	3.06	3.18
wind	0.0 m/s	velocity	4.83	8.02	8.10	8.42	8.42	8.25	8.33	8.17	7.94	7.94	8.59	7.56	8.17	8.33	8.02
FINAL - 2021 Fuse Sprint (Tottori, JPN)																	
<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																	
date	06-Jun-21	time	2.69	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
wind	1.8 m/s	velocity	4.83	8.02	8.33	8.42	8.25	8.42	8.25	8.10	7.94	8.02	8.59	7.58	8.25	8.31	8.02
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)																	
<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																	
date	01-Jun-21	time	2.74	3.83	4.86	5.89	6.92	7.95	9.00	10.06	11.12	12.21		13.39	9 / 6		
reaction time	0.190	interval		1.09	1.03	1.03	1.03	1.03	1.05	1.06	1.06	1.09	1.18		3.15	3.11	3.21
wind	0.3 m/s	velocity	4.74	7.80	8.25	8.25	8.25	8.25	8.10	8.02	8.02	7.80	8.52	7.47	8.10	8.20	7.94
FINAL - 2020 Athlete Night Games (Fukui, JPN)																	
<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>																	
date	29-Aug-20	time	2.66	3.73	4.75	5.76	6.78	7.79	8.83	9.85	10.89	11.98		13.10	/ 3		
reaction time		interval		1.07	1.02	1.01	1.02	1.01	1.04	1.02	1.04	1.09	1.12		3.10	3.07	3.15
wind	2.1 m/s	velocity	4.89	7.94	8.33	8.42	8.33	8.42	8.17	8.33	8.17	7.80	8.97	7.63	8.23	8.31	8.10
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)																	
<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>																	
date	23-Aug-20	time	2.67	3.75	4.77	5.77	6.80	7.82	8.85	9.88	10.94	12.02		13.19	6 / 3		
reaction time	0.139	interval		1.08	1.02	1.00	1.03	1.02	1.03	1.03	1.06	1.08	1.17		3.10	3.08	3.17
wind	0.3 m/s	velocity	4.87	7.87	8.33	8.50	8.25	8.33	8.25	8.25	8.02	7.87	8.59	7.58	8.23	8.28	8.04

FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)														<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>			
date	01-Sep-19	time	2.64	3.73	4.76	5.78	6.79	7.83	8.87	9.92	10.99	12.07	13.25	5 / 3			
reaction time		interval		1.09	1.03	1.02	1.01	1.04	1.04	1.05	1.07	1.08	1.18		3.14	3.09	3.20
wind	1.2 m/s	velocity	4.92	7.80	8.25	8.33	8.42	8.17	8.17	8.10	7.94	7.87	8.90	7.55	8.12	8.25	7.97
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)														<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>			
date	29-Jun-19	time	2.67	3.75	4.79	5.83	6.85	7.87	8.90	9.96	11.01	12.08	13.24	2 / 5			
reaction time	0.161	interval		1.08	1.04	1.04	1.02	1.02	1.03	1.06	1.05	1.07	1.16	PB	3.16	3.07	3.18
wind	0.6 m/s	velocity	4.87	7.87	8.17	8.17	8.33	8.33	8.25	8.02	8.10	7.94	9.05	7.55	8.07	8.31	8.02
FINAL - 2019 Fuse Sprint (Tottori, JPN)														<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>			
date	02-Jun-19	time	2.64	3.71	4.73	5.76	6.77	7.77	8.80	9.81	10.89	11.92	13.10	5 / 2			
reaction time	0.137	interval		1.07	1.02	1.03	1.01	1.00	1.03	1.01	1.08	1.03	1.18		3.12	3.04	3.12
wind	3.5 m/s	velocity	4.92	7.94	8.33	8.25	8.42	8.50	8.25	8.42	7.87	8.25	8.90	7.63	8.17	8.39	8.17
FINAL - 2019 Kinami Memorial (Osaka, JPN)														<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>			
date	06-May-19	time	2.69	3.78	4.86	5.91	6.96	7.99	9.03	10.09	11.16	12.24	13.43	5 / 7			
reaction time		interval		1.09	1.08	1.05	1.05	1.03	1.04	1.06	1.07	1.08	1.19		3.22	3.12	3.21
wind	0.6 m/s	velocity	4.83	7.80	7.87	8.10	8.10	8.25	8.17	8.02	7.94	7.87	8.82	7.45	7.92	8.17	7.94
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)														<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>			
date	28-Apr-19	time	2.72	3.84	4.89	5.94	6.99	8.03	9.08	10.14	11.22	12.32	13.49	6 / 6			
reaction time		interval		1.12	1.05	1.05	1.05	1.04	1.05	1.06	1.08	1.10	1.17		3.22	3.14	3.24
wind	0.6 m/s	velocity	4.78	7.59	8.10	8.10	8.10	8.17	8.10	8.02	7.87	7.73	8.97	7.41	7.92	8.12	7.87
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	24-Jun-18	time	2.69	3.78	4.84	5.86	6.89	7.92	8.94	10.00	11.05	12.13	13.31	2 / 4			
reaction time	0.183	interval		1.09	1.06	1.02	1.03	1.03	1.02	1.06	1.05	1.08	1.18	PB	3.17	3.08	3.19
wind	1.1 m/s	velocity	4.83	7.80	8.02	8.33	8.25	8.25	8.33	8.02	8.10	7.87	8.90	7.51	8.04	8.28	7.99
FINAL - 2018 Fuse Sprint (Tottori, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	03-Jun-18	time	2.67	3.73	4.80	5.84	6.88	7.91	8.95	9.99	11.08	12.21	13.44	1 / 5			
reaction time		interval		1.06	1.07	1.04	1.04	1.03	1.04	1.04	1.09	1.13	1.23		3.17	3.11	3.26
wind	0.6 m/s	velocity	4.87	8.02	7.94	8.17	8.17	8.25	8.17	8.17	7.80	7.52	8.54	7.44	8.04	8.20	7.82
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	06-May-18	time	2.74	3.81	4.86	5.88	6.92	7.96	9.00	10.06	11.12	12.22	13.35	6 / 3			
reaction time		interval		1.07	1.05	1.02	1.04	1.04	1.04	1.06	1.06	1.10	1.13	=PB	3.14	3.12	3.22
wind	-0.5 m/s	velocity	4.74	7.94	8.10	8.33	8.17	8.17	8.17	8.02	8.02	7.73	9.29	7.49	8.12	8.17	7.92
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)														<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>			
date	29-Apr-18	time	2.67	3.74	4.77	5.80	6.82	7.82	8.85	9.89	10.92	11.98	13.14	1 / 2			
reaction time		interval		1.07	1.03	1.03	1.02	1.00	1.03	1.04	1.03	1.06	1.16		3.13	3.05	3.13
wind	3.6 m/s	velocity	4.87	7.94	8.25	8.25	8.33	8.50	8.25	8.17	8.25	8.02	9.05	7.61	8.15	8.36	8.15
FINAL - 2017 Japanese National Championships (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/07/19/post-1068/</i>			
date	25-Jun-17	time	2.75	3.85	4.93	6.00	7.06	8.12	9.20	10.28	11.38	12.49	13.71	3 / 6			
reaction time	0.167	interval		1.10	1.08	1.07	1.06	1.06	1.08	1.08	1.10	1.11	1.22		3.25	3.20	3.29
wind	0.4 m/s	velocity	4.73	7.73	7.87	7.94	8.02	8.02	7.87	7.87	7.73	7.66	8.61	7.29	7.85	7.97	7.75
FINAL - 2017 Fuse Sprint (Tottori, JPN)														<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>			
date	04-Jun-17	time	2.70	3.77	4.83	5.85	6.87	7.91	8.98	10.01	11.09	12.19	13.39	4 / 3			
reaction time		interval		1.07	1.06	1.02	1.02	1.04	1.07	1.03	1.08	1.10	1.20		3.15	3.13	3.21
wind	3.7 m/s	velocity	4.81	7.94	8.02	8.33	8.33	8.17	7.94	8.25	7.87	7.73	8.75	7.47	8.10	8.15	7.94
Heat 3 - 2017 Fuse Sprint (Tottori, JPN)														<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>			
date	04-Jun-17	time	2.72	3.82	4.90	5.96	7.01	8.06	9.14	10.21	11.31	12.43	13.66	8 / 4			
reaction time		interval		1.10	1.08	1.06	1.05	1.05	1.08	1.07	1.10	1.12	1.23		3.24	3.18	3.29
wind	1.3 m/s	velocity	4.78	7.73	7.87	8.02	8.10	8.10	7.87	7.94	7.73	7.59	8.54	7.32	7.87	8.02	7.75
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>			
date	07-May-17	time	2.74	3.83	4.89	5.94	6.97	8.00	9.05	10.11	11.18	12.28	13.47	9 / 4			
reaction time		interval		1.09	1.06	1.05	1.03	1.03	1.05	1.06	1.07	1.10	1.19		3.20	3.11	3.23
wind	-0.2 m/s	velocity	4.74	7.80	8.02	8.10	8.25	8.25	8.10	8.02	7.94	7.73	8.82	7.42	7.97	8.20	7.89
FINAL - 2017 Michitaka Memorial (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>			
date	07-May-17	time	2.72	3.80	4.85	5.87	6.89	7.92	8.97	10.01	11.08	12.18	13.35	8 / 3			
reaction time		interval		1.08	1.05	1.02	1.02	1.03	1.05	1.04	1.07	1.10	1.17	PB	3.15	3.10	3.21
wind	-0.6 m/s	velocity	4.78	7.87	8.10	8.33	8.33	8.25	8.10	8.17	7.94	7.73	8.97	7.49	8.10	8.23	7.94
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)														<i>(2017) - tfdata-store.com/2017/05/01/458/</i>			
date	29-Apr-17	time	2.71	3.79	4.85	5.87	6.90	7.92	8.96	9.98	11.05	12.13	13.29	5 / 1			

reaction time	interval	1.08	1.06	1.02	1.03	1.02	1.04	1.02	1.07	1.08	1.16		3.16	3.09	3.17		
wind	4.1 m/s	velocity	4.80	7.87	8.02	8.33	8.25	8.33	8.17	8.33	7.94	7.87	9.05	7.52	8.07	8.25	8.04

FINAL - 2016 National Sports Festival (Kitakami, JPN)(2016.11.14) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en

date	10-Oct-16	time	2.72	3.80	4.86	5.90	6.93	7.99	9.05	10.12	11.23	12.34	13.53	2 / 3			
reaction time	0.145	interval	1.08	1.06	1.04	1.03	1.06	1.06	1.07	1.11	1.11	1.19			3.18	3.15	3.29
wind	2.8 m/s	velocity	4.78	7.87	8.02	8.17	8.25	8.02	8.02	7.94	7.66	7.66	8.82	7.39	8.02	8.10	7.75

FINAL - 2016 Japanese National Corporate Championships (Osaka, JPN)(2016.09.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en

date	25-Sep-16	time	2.69	3.77	4.83	5.88	6.92	7.97	9.03	10.11	11.20	12.30	13.50	5 / 3			
reaction time	0.118	interval	1.08	1.06	1.05	1.04	1.05	1.06	1.08	1.09	1.10	1.20			3.19	3.15	3.27
wind	1.0 m/s	velocity	4.83	7.87	8.02	8.10	8.17	8.10	8.02	7.87	7.80	7.73	8.75	7.41	7.99	8.10	7.80

FINAL - 2016 Japanese National Championships (Nagoya, JPN)Kota (2016) - *race analysis of japanese top-ranked men 110m and women 100m hurdlers*

date	26-Jun-16	time	2.71	3.80	4.87	5.91	6.97	8.02	9.09	10.17	11.26	12.40	13.65	1 / 8			
reaction time	0.158	interval	1.09	1.07	1.04	1.06	1.05	1.07	1.08	1.09	1.14	1.25			3.20	3.18	3.31
wind	2.1 m/s	velocity	4.80	7.80	7.94	8.17	8.02	8.10	7.94	7.87	7.80	7.46	8.40	7.33	7.97	8.02	7.70

FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)Kota (2016) - *race analysis of japanese top-ranked men 110m and women 100m hurdlers*

date	29-Apr-16	time	2.76	3.90	4.98	6.04	7.12	8.19	9.25	10.35	11.43	12.56	13.79	1 / 7			
reaction time	interval	1.14	1.08	1.06	1.08	1.07	1.06	1.10	1.08	1.13	1.23				3.28	3.21	3.31
wind	1.1 m/s	velocity	4.71	7.46	7.87	8.02	7.87	7.94	8.02	7.73	7.87	7.52	8.54	7.25	7.77	7.94	7.70

FINAL - 2015 Japanese National Championships (Niigata, JPN)Takashima (2015) - *race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	27-Jun-15	time	2.69	3.77	4.82	5.88	6.93	7.97	9.02	10.11	11.22	12.35	13.57	4 / 6			
reaction time	0.159	interval	1.08	1.05	1.06	1.05	1.04	1.05	1.09	1.11	1.13	1.22			3.19	3.14	3.33
wind	-0.2 m/s	velocity	4.83	7.87	8.10	8.02	8.10	8.17	8.10	7.80	7.66	7.52	8.61	7.37	7.99	8.12	7.66

Klaup-McColl, Mari (EST) (1990)

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

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

date	23-Aug-20	time	2.73	3.83	4.93	6.00	7.13	8.23	9.33	10.43	11.53	12.67	13.98	8 / 7			
reaction time	0.185	interval	1.10	1.10	1.07	1.13	1.10	1.10	1.10	1.10	1.14	1.31			3.27	3.33	3.34
wind	1.4 m/s	velocity	4.76	7.73	7.73	7.94	7.52	7.73	7.73	7.73	7.73	7.46	7.67	7.15	7.80	7.66	7.63

Klučinová, Eliška (CZE) (1988)

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

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

date	02-Aug-14	time	2.89	4.05	5.16	6.28	7.41	8.53	9.64	10.80	11.96	13.21	14.43	3 / 4			
reaction time	0.151	interval	1.16	1.11	1.12	1.13	1.12	1.11	1.16	1.16	1.25	1.22			3.39	3.36	3.57
wind	-1.0 m/s	velocity	4.50	7.33	7.66	7.59	7.52	7.59	7.66	7.33	7.33	6.80	8.61	6.93	7.52	7.59	7.14

FINAL - 2013 Czech Republic National Championships (Tábor, CZE)Feher (2013) - *Final report from the men's & women's Czech Republic national championships*

date	15-Jun-13	time	2.81	3.96	5.09	6.19	7.29	8.38	9.48	10.60	11.77	12.88	14.08	7 / 5			
reaction time	0.161	interval	1.15	1.13	1.10	1.10	1.09	1.10	1.12	1.17	1.11	1.20			3.38	3.29	3.40
wind	0.3 m/s	velocity	4.63	7.39	7.52	7.73	7.73	7.80	7.73	7.59	7.26	7.66	8.75	7.10	7.54	7.75	7.50

Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)Feher (2013) - *Final report from the men's & women's Czech Republic national championships*

date	15-Jun-13	time	2.84	3.98	5.08	6.19	7.29	8.40	9.53	10.65	11.78	12.93	14.13	5 / 2			
reaction time	0.153	interval	1.14	1.10	1.11	1.10	1.11	1.13	1.12	1.13	1.15	1.20			3.35	3.34	3.40
wind	-0.9 m/s	velocity	4.58	7.46	7.73	7.66	7.73	7.66	7.52	7.59	7.52	7.39	8.75	7.08	7.61	7.63	7.50

Klüft, Carolina (SWE) (1983)

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

FINAL - 2011 Landskamp FIN-SWE-NOR (Tammefors, FIN)Blomkvist (2011) - www.sub13.se

date	05-Feb-11	time	2.48	3.62	4.64	5.68	6.72						8.26	/ 2			
reaction time	interval	1.14	1.02	1.04	1.04							1.54			3.20		
	velocity	5.24	7.46	8.33	8.17	8.17						8.44	7.26		7.97		

Knabe, Kerstin (GDR) (1959)

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

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

date	29-Sep-88	time	2.64	3.73	4.73	5.75	6.75	7.76	8.77	9.78	10.80	11.81	12.93	4 / 5			
reaction time	0.133	interval	1.09	1.00	1.02	1.00	1.01	1.01	1.01	1.01	1.02	1.01	1.12		3.11	3.02	3.04
wind	0.5 m/s	velocity	4.92	7.80	8.50	8.33	8.50	8.42	8.42	8.42	8.33	8.42	9.38	7.73	8.20	8.44	8.39

FINAL - 1986 East German National Championships (Jena, GDR)Aubert (1987) - *mesures et observations biomecaniques a propos des courses de haies hautes*

date	27-Jun-86	time	2.58	3.62	4.60	5.60	6.58	7.54	8.52	9.51	10.52	11.54	12.64	/ 3			
reaction time	interval	1.04	0.98	1.00	0.98	0.96	0.98	0.99	1.01	1.02	1.10				3.02	2.92	3.02
wind	1.4 m/s	velocity	5.04	8.17	8.67	8.50	8.67	8.85	8.67	8.59	8.42	8.33	9.55	7.91	8.44	8.73	8.44

FINAL - 1983 IAAF World Championships (Helsinki, FIN)Knobe (1984) - *the hurdles*

date	13-Aug-83	time	2.66	3.63	4.65	5.66	6.54	7.46	8.42	9.42	10.29	11.37	12.42	4 / 2			
reaction time	0.115	interval	0.97	1.02	1.01	0.88	0.92	0.96	1.00	0.87	1.08	1.05			3.00	2.76	2.95
wind	2.4 m/s	velocity	4.89	8.76	8.33	8.42	9.66	9.24	8.85	8.50	9.77	7.87	10.00	8.05	8.50	9.24	8.64

FINAL - 1981 USSR vs. GDR (Tbilisi, URS)Chanon (1987) - *analyse comparee des caracteristiques des courses de 100m haies et 110m haies*

date	26-Jun-81	time	2.56	3.59	4.61	5.63	6.65	7.66	8.67	9.67	10.69	11.72		12.85	/ 2			
reaction time		interval		1.03	1.02	1.02	1.02	1.01	1.01	1.00	1.02	1.03	1.13			3.07	3.04	3.05
wind	0.0 m/s	velocity	5.08	8.25	8.33	8.33	8.33	8.42	8.42	8.50	8.33	8.25	9.29	7.78		8.31	8.39	8.36
Koala, Martha Yasmine (BUR) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)													<i>Henson (2021) - Athlete First: 2018 year end hurdle report</i>					
date	08-Sep-18	time	2.64	3.72	4.76	5.80	6.80	7.84	8.88	9.92	11.02	12.10		13.42	8 / 7			
reaction time	0.157	interval		1.08	1.04	1.04	1.00	1.04	1.04	1.04	1.10	1.08	1.32			3.16	3.08	3.22
wind	-0.1 m/s	velocity	4.92	7.87	8.17	8.17	8.50	8.17	8.17	8.17	7.73	7.87	7.95	7.45		8.07	8.28	7.92
Kobayashi, Ayumi (JPN) (2001)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2020 Athlete Night Games (Fukui, JPN)													<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>					
date	29-Aug-20	time	2.69	3.79	4.86	5.91	6.94	8.00	9.06	10.14	11.22	12.33		13.58	/ 8			
reaction time		interval		1.10	1.07	1.05	1.03	1.06	1.06	1.08	1.08	1.11	1.25			3.22	3.15	3.27
wind	2.1 m/s	velocity	4.83	7.73	7.94	8.10	8.25	8.02	8.02	7.87	7.87	7.66	8.04	7.36		7.92	8.10	7.80
U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)													<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>					
date	18-Oct-19	time	2.72	3.79	4.86	5.90	6.98	8.04	9.11	10.21	11.35	12.49		13.79	5 / 3			
reaction time	0.133	interval		1.07	1.07	1.04	1.08	1.06	1.07	1.10	1.14	1.14	1.30			3.18	3.21	3.38
wind	-0.5 m/s	velocity	4.78	7.94	7.94	8.17	7.87	8.02	7.94	7.73	7.46	7.46	8.08	7.25		8.02	7.94	7.54
FINAL - 2019 Fuse Sprint (Tottori, JPN)													<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>					
date	02-Jun-19	time	2.69	3.76	4.80	5.85	6.89	7.92	8.96	10.01	11.08	12.16		13.35	8 / 5			
reaction time	0.133	interval		1.07	1.04	1.05	1.04	1.03	1.04	1.05	1.07	1.08	1.19			3.16	3.11	3.20
wind	3.5 m/s	velocity	4.83	7.94	8.17	8.10	8.17	8.25	8.17	8.10	7.94	7.87	8.82	7.49		8.07	8.20	7.97
B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)													<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>					
date	28-Apr-19	time	2.70	3.79	4.87	5.91	6.96	8.03	9.10	10.19	11.28	12.38		13.59	4 / 1			
reaction time		interval		1.09	1.08	1.04	1.05	1.07	1.07	1.09	1.09	1.10	1.21			3.21	3.19	3.28
wind	1.3 m/s	velocity	4.81	7.80	7.87	8.17	8.10	7.94	7.94	7.80	7.80	7.73	8.68	7.36		7.94	7.99	7.77
A FINAL - 2018 National Sports Festival (Fukui, JPN)													<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>					
date	08-Oct-18	time	2.70	3.75	4.80	5.83	6.83	7.86	8.88	9.89	10.93	11.96		13.13	5 / 1			
reaction time	0.140	interval		1.05	1.05	1.03	1.00	1.03	1.02	1.01	1.04	1.03	1.17			3.13	3.05	3.08
wind	2.5 m/s	velocity	4.81	8.10	8.10	8.25	8.50	8.25	8.33	8.42	8.17	8.25	8.97	7.62		8.15	8.36	8.28
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)													<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data</i>					
date	02-Aug-18	time	2.66	3.73	4.78	5.83	6.87	7.90	8.95	10.01	11.07	12.15		13.34	7 / 1			
reaction time		interval		1.07	1.05	1.05	1.04	1.03	1.05	1.06	1.06	1.08	1.19	PB		3.17	3.12	3.20
wind	-0.3 m/s	velocity	4.89	7.94	8.10	8.10	8.17	8.25	8.10	8.02	8.02	7.87	8.82	7.50		8.04	8.17	7.97
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)													<i>Kota (2017) - 70th high school championships: JAF scientific committee- biomechanics data</i>					
date	02-Aug-17	time	2.78	3.91	5.04	6.16	7.27	8.38	9.50	10.66	11.82	12.99		14.23	5 / 6			
reaction time	0.174	interval		1.13	1.13	1.12	1.11	1.11	1.12	1.16	1.16	1.17	1.24			3.38	3.34	3.49
wind	-2.9 m/s	velocity	4.68	7.52	7.52	7.59	7.66	7.66	7.59	7.33	7.33	7.26	8.47	7.03		7.54	7.63	7.31
Kobayashi, Sayaka (JPN) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Japanese National Championships (Osaka, JPN)													<i>(2017) - tfdata-store.com/2017/07/19/post-1068/</i>					
date	25-Jun-17	time	2.67	3.77	4.86	5.94	7.01	8.07	9.14	10.26	11.39	12.50		13.72	9 / 8			
reaction time	0.134	interval		1.10	1.09	1.08	1.07	1.06	1.07	1.12	1.13	1.11	1.22			3.27	3.20	3.36
wind	0.4 m/s	velocity	4.87	7.73	7.80	7.87	7.94	8.02	7.94	7.59	7.52	7.66	8.61	7.29		7.80	7.97	7.59
FINAL - 2017 Michitaka Memorial (Osaka, JPN)													<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>					
date	07-May-17	time	2.75	3.88	4.98	6.07	7.19	8.30	9.39	10.51	11.66	12.80		14.02	9 / 7			
reaction time		interval		1.13	1.10	1.09	1.12	1.11	1.09	1.12	1.15	1.14	1.22			3.32	3.32	3.41
wind	-0.6 m/s	velocity	4.73	7.52	7.73	7.80	7.59	7.66	7.80	7.59	7.39	7.46	8.61	7.13		7.68	7.68	7.48
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)													<i>(2017) - tfdata-store.com/2017/05/01/458/</i>					
date	29-Apr-17	time	2.68	3.77	4.86	5.94	7.01	8.08	9.15	10.24	11.35	12.46		13.68	2 / 5			
reaction time		interval		1.09	1.09	1.08	1.07	1.07	1.07	1.09	1.11	1.11	1.22			3.26	3.21	3.31
wind	4.1 m/s	velocity	4.85	7.80	7.80	7.87	7.94	7.94	7.94	7.80	7.66	7.66	8.61	7.31		7.82	7.94	7.70
FINAL - 2016 National Sports Festival (Kitakami, JPN)													<i>(2016.11.14) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	10-Oct-16	time	2.65	3.72	4.78	5.83	6.87	7.91	8.95	10.04	11.11	12.23		13.46	4 / 2			
reaction time	0.153	interval		1.07	1.06	1.05	1.04	1.04	1.04	1.09	1.07	1.12	1.23			3.18	3.12	3.28
wind	2.8 m/s	velocity	4.91	7.94	8.02	8.10	8.17	8.17	8.17	7.80	7.94	7.59	8.54	7.43		8.02	8.17	7.77
FINAL - 2016 Japanese University Championships (Kumagaya, JPN)													<i>(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	04-Sep-16	time	2.68	3.75	4.82	5.88	6.92	7.98	9.06	10.13	11.21	12.31		13.50	6 / 1			
reaction time	0.185	interval		1.07	1.07	1.06	1.04	1.06	1.08	1.07	1.08	1.10	1.19	PB		3.20	3.18	3.25
wind	-0.2 m/s	velocity	4.85	7.94	7.94	8.02	8.17	8.02	7.87	7.94	7.87	7.73	8.82	7.41		7.97	8.02	7.85
FINAL - 2016 Japanese National Championships (Nagoya, JPN)													<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>					

date	26-Jun-16	time	2.66	3.75	4.83	5.91	6.97	8.02	9.08	10.14	11.22	12.31		13.49	8 / 7			
reaction time	0.141	interval		1.09	1.08	1.08	1.06	1.05	1.06	1.06	1.08	1.09	1.18			3.25	3.17	3.23
wind	2.1 m/s	velocity	4.89	7.80	7.87	7.87	8.02	8.10	8.02	8.02	7.87	7.80	8.90	7.41		7.85	8.04	7.89
FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)			<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>															
date	29-Apr-16	time	2.72	3.85	4.95	6.05	7.14	8.20	9.26	10.35	11.42	12.53		13.68	3 / 6			
reaction time		interval		1.13	1.10	1.10	1.09	1.06	1.06	1.09	1.07	1.11	1.15			3.33	3.21	3.27
wind	1.1 m/s	velocity	4.78	7.52	7.73	7.73	7.80	8.02	8.02	7.80	7.94	7.66	9.13	7.31		7.66	7.94	7.80
FINAL - 2014 Japanese National High School Championships (Kofu, JPN)			<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>															
date	03-Aug-14	time	2.77	3.88	4.98	6.07	7.14	8.22	9.30	10.39	11.47	12.59		13.83	3 / 2			
reaction time		interval		1.11	1.10	1.09	1.07	1.08	1.08	1.09	1.08	1.12	1.24	PB		3.30	3.23	3.29
wind	-0.9 m/s	velocity	4.69	7.66	7.73	7.80	7.94	7.87	7.87	7.80	7.87	7.59	8.47	7.23		7.73	7.89	7.75
Kocielnik, Joanna (POL) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 European Cup (Munich, GER)			<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>															
date	24-Jun-07	time	2.78	3.84	4.90	5.96	7.00	8.02	9.06	10.10	11.16	12.24		13.35	1 / 7			
reaction time	0.249	interval		1.06	1.06	1.06	1.04	1.02	1.04	1.04	1.06	1.08	1.11			3.18	3.10	3.18
wind	0.9 m/s	velocity	4.68	8.02	8.02	8.02	8.17	8.33	8.17	8.17	8.02	7.87	9.46	7.49		8.02	8.23	8.02
Kodera, Saki (JPN) (2005)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Japanese U20 National Championships (Osaka, JPN)			<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>															
date	03-Jun-23	time	2.69	3.83	4.93	6.00	7.08	8.18	9.29	10.41	11.53	12.68		13.93	5 / 4			
reaction time	0.176	interval		1.14	1.10	1.07	1.08	1.10	1.11	1.12	1.12	1.15	1.25	PB		3.31	3.29	3.39
wind	-1.4 m/s	velocity	4.83	7.46	7.73	7.94	7.87	7.73	7.66	7.59	7.59	7.39	8.04	7.18		7.70	7.75	7.52
Kokkonen, Tanja (FIN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Motonet GP (Jyräskylä, FIN) (TV Analysis)			<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	08-Jul-20	time	2.70	3.83	4.96	6.06	7.16	8.26	9.36	10.50	11.66	12.86		14.21	1 / 7			
reaction time		interval		1.13	1.13	1.10	1.10	1.10	1.10	1.14	1.16	1.20	1.35			3.36	3.30	3.50
wind	0.7 m/s	velocity	4.81	7.52	7.52	7.73	7.73	7.73	7.73	7.46	7.33	7.08	7.44	7.04		7.59	7.73	7.29
Koleczek, Karolina (POL) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	06-Oct-19	time	2.44	3.48	4.48	5.46	6.46	7.50	8.50	9.50	10.52	11.56		12.86	8 / 4			
reaction time	0.134	interval		1.04	1.00	0.98	1.00	1.04	1.00	1.00	1.02	1.04	1.30			3.02	3.04	3.06
wind	0.8 m/s	velocity	5.33	8.17	8.50	8.67	8.50	8.17	8.50	8.50	8.33	8.17	7.73	7.78		8.44	8.39	8.33
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	10-Sep-19	time	2.56	3.60	4.60	5.60	6.60	7.60	8.60	9.60	10.63	11.63		12.86	2 / 2			
reaction time	0.166	interval		1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.03	1.00	1.23			3.04	3.00	3.03
wind	0.1 m/s	velocity	5.08	8.17	8.50	8.50	8.50	8.50	8.50	8.50	8.25	8.50	8.54	7.78		8.39	8.50	8.42
FINAL - 2019 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	12-Jul-19	time	2.56	3.64	4.64	5.66	6.66	7.68	8.68	9.70	10.74	11.78		12.93	8 / 6			
reaction time	0.130	interval		1.08	1.00	1.02	1.00	1.02	1.00	1.02	1.04	1.04	1.15			3.10	3.02	3.10
wind	0.1 m/s	velocity	5.08	7.87	8.50	8.33	8.50	8.33	8.50	8.33	8.17	8.17	9.13	7.73		8.23	8.44	8.23
Komisova, Vera (URS) (1953)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1980 Olympic Games (Moscow, URS)			<i>McFarlane (1988) - the science of hurdling</i>															
date	28-Jul-80	time	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5	11.5		12.56	5 / 1			
reaction time	0.135	interval		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.06	OR / PB		3.00	3.00	3.00
wind	1.0 m/s	velocity	5.20	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	9.91	7.96		8.50	8.50	8.50
A FINAL - 1979 VII USSR Spartakiade (Moscow, URS)			<i>Balachničiv (1981) - Periodisierung & Zyklisierung des Trainings 78/79 Hürdenläuferinnen der Spitzenklasse der UdSSR</i>															
date	25-Jul-79	time	2.50	3.56	4.60	5.63	6.64	7.63	8.61	9.65	10.68	11.74		12.94	1 / 2			
reaction time		interval		1.06	1.04	1.03	1.01	0.99	0.98	1.04	1.03	1.06	1.20			3.13	2.98	3.13
wind	???	velocity	5.20	8.02	8.17	8.25	8.42	8.59	8.67	8.17	8.25	8.02	8.75	7.73		8.15	8.56	8.15
Komoll, Jennifer (GER) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 German National Indoor Championships (Sindelfingen, GER)			<i>Hücklekemkes (2002) - explosive starten vielfältig erlernen</i>															
date	16-Feb-02	time	2.64	3.76	4.78	5.82	6.89							8.33	1 / 5			
reaction time	0.119	interval		1.12	1.02	1.04	1.07						1.44			3.18		
wind		velocity	4.92	7.59	8.33	8.17	7.94						9.03	7.20		8.02		
Komrsková, Aneta (CZE) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)			<i>Feher (2014) - Final report from the Czech Republic national championships</i>															
date	02-Aug-14	time	2.90	4.06	5.20	6.35	7.49	8.61	9.77	10.94	12.13	13.38		14.69	2 / 6			
reaction time	0.213	interval		1.16	1.14	1.15	1.14	1.12	1.16	1.17	1.19	1.25	1.31			3.45	3.42	3.61
wind	-1.0 m/s	velocity	4.48	7.33	7.46	7.39	7.46	7.59	7.33	7.26	7.14	6.80	8.02	6.81		7.39	7.46	7.06
FINAL - 2013 Czech Republic National Championships (Tábor, CZE)			<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>															
date	15-Jun-13	time	2.80	3.94	5.05	6.15	7.24	8.35	9.44	10.56	11.72	12.85		14.14	1 / 6			

reaction time	0.203	interval	1.14	1.11	1.10	1.09	1.11	1.09	1.12	1.16	1.13	1.29		3.35	3.29	3.41	
wind	0.3 m/s	velocity	4.64	7.46	7.66	7.73	7.80	7.66	7.80	7.59	7.33	7.52	8.14	7.07	7.61	7.75	7.48

Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE) *Feher (2013) - Final report from the men's & women's Czech Republic national championships*

date	15-Jun-13	time	2.18	3.94	5.08	6.20	7.32	8.42	9.55	10.69	11.81	12.98	14.31	3 / 4			
reaction time	0.188	interval	1.76	1.14	1.12	1.12	1.10	1.13	1.14	1.12	1.17	1.33		4.02	3.35	3.43	
wind	-0.9 m/s	velocity	5.96	4.83	7.46	7.59	7.59	7.73	7.52	7.46	7.59	7.26	7.89	6.99	6.34	7.61	7.43

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

date	25-Feb-12	time	2.79	3.99	5.14	6.26	7.41						9.01	8 / 8			
reaction time	0.153	interval	1.20	1.15	1.12	1.15							1.60		3.47		
		velocity	4.66	7.08	7.39	7.59	7.39						8.13	6.66	7.35		

Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE) *Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles*

date	25-Feb-12	time	2.79	3.98	5.11	6.25	7.38						9.00	2 / 3			
reaction time	0.145	interval	1.19	1.13	1.14	1.13							1.62		3.46		
		velocity	4.66	7.14	7.52	7.46	7.52						8.02	6.67	7.37		

Kondakova, Yuliya (RUS) (1981)**FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)** *Henson (2021) - Athlete First: major championships report*

date	17-Aug-13	time	2.56	3.60	4.62	5.60	6.60	7.60	8.60	9.62	10.64	11.68	12.86	8 / 8			
reaction time	0.206	interval	1.04	1.02	0.98	1.00	1.00	1.00	1.02	1.02	1.04	1.18			3.04	3.00	3.08
wind	-0.6 m/s	velocity	5.08	8.17	8.33	8.67	8.50	8.50	8.50	8.33	8.33	8.17	8.90	7.78	8.39	8.50	8.28

FINAL - 2013 European Indoor Championships (Göteborg, SWE) *Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx*

date	01-Mar-13	time	2.58	3.64	4.65	5.64	6.65						7.99	6 / 4			
reaction time	0.159	interval	1.06	1.01	0.99	1.01							1.34		3.06		
		velocity	5.04	8.02	8.42	8.59	8.42						9.70	7.51	8.33		

Heat 3 - 2009 IAAF World Championships (Berlin, GER) *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	2.65	3.71	4.72	5.71	6.71	7.70	8.71	9.71	10.72	11.76	12.88	3 / 3			
reaction time	0.145	interval	1.06	1.01	0.99	1.00	0.99	1.01	1.00	1.01	1.04	1.12			3.06	3.00	3.05
wind	0.1 m/s	velocity	4.91	8.02	8.42	8.59	8.50	8.59	8.42	8.50	8.42	8.17	9.37	7.76	8.33	8.50	8.36

Kong Rui (CHN) (2001)**Heptathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)** *CAA Hurdle Development (2021)*

date	24-Jun-21	time	3.02	4.19	5.37	6.52	7.67	8.88	10.01	11.18	12.40	13.58	14.86	3 / 4			
reaction time	0.266	interval	1.17	1.18	1.15	1.15	1.21	1.13	1.17	1.22	1.18	1.28			3.50	3.49	3.57
wind	0.6 m/s	velocity	4.30	7.26	7.20	7.39	7.39	7.01	7.54	7.26	6.97	7.20	7.85	6.73	7.29	7.31	7.14

Heat 1 - 2021 National Grand Prix (Chengdu, CHN) *CAA Hurdle Development (2021)*

date	02-Apr-21	time	2.98	4.16	5.32	6.46	7.60	8.76	9.90	11.06	12.24	13.44	14.71	3 / 4			
reaction time	0.216	interval	1.18	1.16	1.14	1.14	1.16	1.14	1.16	1.18	1.20	1.27			3.48	3.44	3.54
wind	1.0 m/s	velocity	4.36	7.20	7.33	7.46	7.46	7.33	7.46	7.33	7.20	7.08	7.91	6.80	7.33	7.41	7.20

Heat 1 - 2021 National Indoor Grand Prix (Chengdu, CHN) *CAA Hurdle Development (2021)*

date	13-Mar-21	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		3.50		
		velocity	4.45	7.26	7.20	7.39	7.26						8.50	6.58	7.29		

Kononova, Lyubov (URS) (1948)**FINAL - 1975 International "Pravda" Sportfest (Sotschi, URS)** *Artyschenko (1977) - zwischen den hürden geht es um die sekunde, teil 2*

date	29-May-75	time	2.3	3.5	4.6	5.7	6.7	7.7	8.7	9.8	10.8	11.9	13.1	1 / 1			
reaction time	???	interval	1.20	1.11	1.04	1.02	1.02	1.02	1.03	1.04	1.08	1.22			3.35	3.06	3.15
wind	???	velocity	5.60	7.08	7.66	8.17	8.33	8.33	8.33	8.25	8.17	7.87	8.61	7.63	7.61	8.33	8.10

Kopečná, Kristyna (CZE) (1998)**Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)** *Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.90	4.08	5.27	6.50	7.75	9.00	10.30	11.60	12.88	14.15	15.59	8 / 6			
reaction time	0.181	interval	1.18	1.19	1.23	1.25	1.25	1.30	1.30	1.28	1.27	1.44			3.60	3.80	3.85
wind	-1.3 m/s	velocity	4.48	7.20	7.14	6.91	6.80	6.80	6.54	6.54	6.64	6.69	7.29	6.41	7.08	6.71	6.62

Korešová, Jana (CZE) (1981)**FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)** *Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles*

date	25-Feb-12	time	2.69	3.80	4.87	5.94	6.99						8.42	4 / 1			
reaction time	0.148	interval	1.11	1.07	1.07	1.05							1.43		3.25		
		velocity	4.83	7.66	7.94	7.94	8.10						9.09	7.13	7.85		

Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE) *Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles*

date	25-Feb-12	time	2.72	3.84	4.90	5.98	7.03						8.49	4 / 1			
reaction time	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		

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Koroteyeva, Mariya (RUS) (1981)																	
FINAL - 2004 Olympic Games (Athens, GRE)		<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>															
date	24-Aug-04	time	2.61	3.64	4.63	5.64	6.61	7.57	8.56	9.57	10.58	11.61	12.72	8 / 4			
reaction time	0.195	interval		1.03	0.99	1.01	0.97	0.96	0.99	1.01	1.01	1.03	1.11		3.03	2.92	3.05
wind	0.3 m/s	velocity	4.98	8.25	8.59	8.42	8.76	8.85	8.59	8.42	8.42	8.25	9.46	7.86	8.42	8.73	8.36
Koroty, Irina (RUS) (1975)																	
FINAL - 2001 European Cup (Bremen, GER)		<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>															
date	24-Jun-01	time	2.68	3.73	4.76	5.80	6.78	7.82	8.84	9.83	10.91	11.94	13.06	/ 1			
reaction time	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
wind	0.6 m/s	velocity	4.85	8.10	8.25	8.17	8.67	8.17	8.33	8.59	7.87	8.25	9.37	7.66	8.17	8.39	8.23
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)		<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>															
date	27-Aug-99	time	2.62	3.65	4.64	5.62	6.60	7.60	8.59	9.61	10.62	11.65	12.86	8 / 6			
reaction time	0.148	interval		1.03	0.99	0.98	0.98	1.00	0.99	1.02	1.01	1.03	1.21		3.00	2.97	3.06
wind	1.0 m/s	velocity	4.96	8.25	8.59	8.67	8.67	8.50	8.59	8.33	8.42	8.25	8.68	7.78	8.50	8.59	8.33
FINAL - 1998 European Championships (Budapest, HUN)		<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>															
date	23-Aug-98	time	2.61	3.66	4.68	5.67	6.66	7.63	8.65	9.68	10.70	11.75	12.85	3 / 3			
reaction time		interval		1.05	1.02	0.99	0.99	0.97	1.02	1.03	1.02	1.05	1.10		3.06	2.98	3.10
wind	1.5 m/s	velocity	4.98	8.10	8.33	8.59	8.59	8.76	8.33	8.25	8.33	8.10	9.55	7.78	8.33	8.56	8.23
Korshunova, Nadezhda (URS) (1961)																	
FINAL - 1984 USSR National Championships (Kiev, URS)		<i>Breiser (1985) - over the hurdles with vera akimova and nadezdha korshunova</i>															
date	22-Jun-84	time	2.54	3.60	4.60	5.60	6.60	7.60	8.60	9.60	10.64	11.70	12.72	/ 2			
reaction time	0.170	interval		1.06	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.06	1.02		3.06	3.00	3.10
wind	-0.5 m/s	velocity	5.12	8.02	8.50	8.50	8.50	8.50	8.50	8.50	8.17	8.02	10.29	7.86	8.33	8.50	8.23
Korte, Annamari (FIN) (1988)																	
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)		<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	17-Sep-20	time	2.56	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
wind	0.1 m/s	velocity	5.08	7.87	8.17	8.17	8.17	8.17	8.02	8.02	8.02	7.87	7.85	7.50	8.07	8.12	7.97
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)		<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	19-Aug-20	time	2.54	3.57	4.62	5.61	6.64	7.64	8.64	9.67	10.71	11.81	13.09	7 / 5			
reaction time	0.148	interval		1.03	1.05	0.99	1.03	1.00	1.00	1.03	1.04	1.10	1.28		3.07	3.03	3.17
wind	-0.2 m/s	velocity	5.12	8.25	8.10	8.59	8.25	8.50	8.50	8.25	8.17	7.73	7.85	7.64	8.31	8.42	8.04
FINAL - 2020 Finnish National Championships (Turku, FIN) (TV Analysis)		<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	14-Aug-20	time	2.60	3.66	4.66	5.63	6.60	7.60	8.60	9.57	10.57	11.60	12.79	4 / 1			
reaction time	0.197	interval		1.06	1.00	0.97	0.97	1.00	1.00	0.97	1.00	1.03	1.19		3.03	2.97	3.00
wind	1.0 m/s	velocity	5.00	8.02	8.50	8.76	8.76	8.50	8.50	8.76	8.50	8.25	8.45	7.82	8.42	8.59	8.50
FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)		<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	11-Aug-20	time	2.62	3.64	4.64	5.64	6.64	7.62	8.62	9.64	10.66	11.68	12.89	3 / 4			
reaction time	0.225	interval		1.02	1.00	1.00	1.00	0.98	1.00	1.02	1.02	1.02	1.21		3.02	2.98	3.06
wind	1.2 m/s	velocity	4.96	8.33	8.50	8.50	8.50	8.67	8.50	8.33	8.33	8.33	8.31	7.76	8.44	8.56	8.33
FINAL - 2020 Motonet GP (Jyräskylä, FIN) (TV Analysis)		<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	08-Jul-20	time	2.60	3.63	4.66	5.66	6.63	7.60	8.60	9.60	10.60	11.63	12.76	4 / 1			
reaction time		interval		1.03	1.03	1.00	0.97	0.97	1.00	1.00	1.00	1.03	1.13		3.06	2.94	3.03
wind	0.7 m/s	velocity	5.00	8.25	8.25	8.50	8.76	8.76	8.50	8.50	8.50	8.25	8.89	7.84	8.33	8.67	8.42
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)		<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	06-Oct-19	time	2.54	3.58	4.58	5.58	6.60	7.58	8.58	9.60	10.64	11.68	12.97	9 / 6			
reaction time	0.176	interval		1.04	1.00	1.00	1.02	0.98	1.00	1.02	1.04	1.04	1.29		3.04	3.00	3.10
wind	1.0 m/s	velocity	5.12	8.17	8.50	8.50	8.33	8.67	8.50	8.33	8.17	8.17	7.79	7.71	8.39	8.50	8.23
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	10-Sep-19	time	2.56	3.63	4.66	5.66	6.66	7.66	8.66	9.68	10.70	11.75	12.98	6 / 5			
reaction time	0.140	interval		1.07	1.03	1.00	1.00	1.00	1.00	1.02	1.02	1.05	1.23		3.10	3.00	3.09
wind	0.1 m/s	velocity	5.08	7.94	8.25	8.50	8.50	8.50	8.50	8.33	8.33	8.10	8.54	7.70	8.23	8.50	8.25
Koto, Koenoson (JPN)																	
FINAL - 2016 Miyazaki Prefecture High School Championships (Miyazaki, JPN)		<i>(2016.10.26) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>															
date	16-Sep-16	time	2.71	3.88	5.05	6.21	7.37	8.55	9.75	10.95	12.18	13.45	14.82	4 / 1			
reaction time		interval		1.17	1.17	1.16	1.16	1.18	1.20	1.20	1.23	1.27	1.37		3.50	3.54	3.70
wind	-0.4 m/s	velocity	4.80	7.26	7.26	7.33	7.33	7.20	7.08	7.08	6.91	6.69	7.66	6.75	7.29	7.20	6.89
Koudelová, Lucie (CZE) (1994)																	
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)		<i>Fehér (2014) - Final report from the Czech Republic national championships</i>															
date	02-Aug-14	time	2.68	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	PB	3.11	3.03	3.14					
wind	0.4 m/s	velocity	4.85	8.17	8.02	8.42	8.42	8.42	8.10	8.25	8.02	8.82	7.60	8.20	8.42	8.12					
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)													<i>Feher (2014) - Final report from the Czech Republic national championships</i>								
date	02-Aug-14	time	2.77	3.90	4.98	6.03	7.08	8.13	9.18	10.25	11.31	12.40	13.51	4 / 1							
reaction time	0.135	interval	1.13	1.08	1.05	1.05	1.05	1.05	1.07	1.06	1.09	1.11		3.26	3.15	3.22					
wind	-1.0 m/s	velocity	4.69	7.52	7.87	8.10	8.10	8.10	8.10	7.94	8.02	7.80	9.46	7.40	7.82	8.10	7.92				
FINAL - 2013 Czech Republic National Championships (Tábor, CZE)													<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>								
date	15-Jun-13	time	2.78	3.92	5.00	6.09	7.16	8.23	9.31	10.40	11.49	12.61	13.79	6 / 4							
reaction time	0.171	interval	1.14	1.08	1.09	1.07	1.07	1.07	1.08	1.09	1.12	1.18		3.31	3.22	3.30					
wind	0.3 m/s	velocity	4.68	7.46	7.87	7.80	7.94	7.94	7.87	7.80	7.80	7.59	8.90	7.25	7.70	7.92	7.73				
Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)													<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>								
date	15-Jun-13	time	2.78	3.89	5.00	6.08	7.16	8.24	9.33	10.44	11.54	12.68	13.94	5 / 2							
reaction time	0.143	interval	1.11	1.11	1.08	1.08	1.08	1.09	1.11	1.10	1.14	1.26		3.30	3.25	3.35					
wind	-1.0 m/s	velocity	4.68	7.66	7.66	7.87	7.87	7.87	7.80	7.66	7.73	7.46	8.33	7.17	7.73	7.85	7.61				
Kozák, Luca (HUN) (1996)																					
Repechage 3 - 2024 Olympic Games (Paris, FRA)																	<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	08-Aug-24	time	2.48	3.55	4.57	5.58	6.57	7.57	8.58	9.60	10.64	11.69	12.96	2 / 3							
reaction time	0.147	interval	1.07	1.02	1.01	0.99	1.00	1.01	1.02	1.04	1.05	1.27		3.10	3.00	3.11					
wind	-0.2 m/s	velocity	5.24	7.94	8.33	8.42	8.59	8.50	8.42	8.33	8.17	8.10	7.91	7.72	8.23	8.50	8.20				
Heat 4 - 2024 Olympic Games (Paris, FRA)																	<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.53	3.62	4.64	5.67	6.68	7.68	8.71	9.74	10.79	11.84	13.11	5 / 6							
reaction time	0.168	interval	1.09	1.02	1.03	1.01	1.00	1.03	1.03	1.05	1.05	1.27		3.14	3.04	3.13					
wind	0.0 m/s	velocity	5.14	7.80	8.33	8.25	8.42	8.50	8.25	8.25	8.10	8.10	7.91	7.63	8.12	8.39	8.15				
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)																	<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>				
date	03-Mar-24	time	2.62	3.67	4.68	5.70	6.68						8.01	1 / 8							
reaction time	0.150	interval	1.05	1.01	1.02	0.98						1.33		3.08							
		velocity	4.96	8.10	8.42	8.33	8.67					9.77	7.49	8.28							
FINAL - 2024 Villa de Madrid Indoor Meeting (Madrid, ESP) (TV Analysis)																	<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>				
date	23-Feb-24	time	2.57	3.60	4.62	5.62	6.62						8.06	7 / 6							
reaction time	0.148	interval	1.03	1.02	1.00	1.00						1.44		3.05							
		velocity	5.06	8.25	8.33	8.50	8.50					9.03	7.44	8.36							
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	23-Aug-23	time	2.53	3.57	4.57	5.55	6.53	7.51	8.51	9.49	10.51	11.54	12.73	3 / 4							
reaction time	0.142	interval	1.04	1.00	0.98	0.98	0.98	1.00	0.98	1.02	1.03	1.19		3.02	2.96	3.03					
wind	-0.7 m/s	velocity	5.14	8.17	8.50	8.67	8.67	8.67	8.50	8.67	8.33	8.25	8.45	7.86	8.44	8.61	8.42				
Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	22-Aug-23	time	2.58	3.62	4.61	5.61	6.58	7.58	8.56	9.54	10.55	11.58	12.71	6 / 3							
reaction time	0.149	interval	1.04	0.99	1.00	0.97	1.00	0.98	0.98	1.01	1.03	1.13		3.03	2.95	3.02					
wind	0.0 m/s	velocity	5.04	8.17	8.59	8.50	8.76	8.50	8.67	8.67	8.42	8.25	8.89	7.87	8.42	8.64	8.44				
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)																	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	21-Aug-22	time	2.56	3.56	4.56	5.54	6.50	7.48	8.46	9.45	10.45	11.47	12.69	5 / 2							
reaction time	0.155	interval	1.00	1.00	0.98	0.96	0.98	0.98	0.99	1.00	1.02	1.22	=NR=PB	2.98	2.92	3.01					
wind	-0.1 m/s	velocity	5.08	8.50	8.50	8.67	8.85	8.67	8.67	8.59	8.50	8.33	8.24	7.88	8.56	8.73	8.47				
FINAL - 2022 Gyulai István Memorial (Székesfehérvár, HUN) (TV Analysis)																	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	08-Aug-22	time	2.58	3.63	4.63	5.60	6.60	7.60	8.60	9.60				3 / --							
reaction time	0.165	interval	1.05	1.00	0.97	1.00	1.00	1.00	1.00	1.00			DQ	3.02	3.00						
wind	2.4 m/s	velocity	5.04	8.10	8.50	8.76	8.50	8.50	8.50	8.50				8.44	8.50						
FINAL - 2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)																	<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	14-Jun-22	time	2.60	3.68	4.70	5.72	6.72	7.74	8.76	9.78	10.80	11.82	13.05	1 / 7							
reaction time	0.147	interval	1.08	1.02	1.02	1.00	1.02	1.02	1.02	1.02	1.02	1.23		3.12	3.04	3.06					
wind	0.2 m/s	velocity	5.00	7.87	8.33	8.33	8.50	8.33	8.33	8.33	8.33	8.33	8.17	7.66	8.17	8.39	8.33				
FINAL - 2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)																	<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	03-Jun-22	time	2.60	3.66	4.68	5.70	6.70	7.70	8.74	9.76	10.78	11.82	13.05	9 / 5							
reaction time		interval	1.06	1.02	1.02	1.00	1.00	1.04	1.02	1.02	1.04	1.23		3.10	3.04	3.08					
wind	0.2 m/s	velocity	5.00	8.02	8.33	8.33	8.50	8.50	8.17	8.33	8.33	8.17	8.17	7.66	8.23	8.39	8.28				
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)																	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	09-Sep-21	time	2.56	3.60	4.58	5.58	6.56	7.58	8.58	9.58	10.60	11.64	12.90	8 / 7							
reaction time	0.187	interval	1.04	0.98	1.00	0.98	1.02	1.00	1.00	1.02	1.04	1.26		3.02	3.00	3.06					
wind	0.4 m/s	velocity	5.08	8.17	8.67	8.50	8.67	8.33	8.50	8.50	8.33	8.17	7.98	7.75	8.44	8.50	8.33				

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

date	06-Jul-21	time	2.50	3.54	4.57	5.54	6.54	7.54	8.54	9.54	10.57	11.64	12.85	6 / 7				
reaction time	0.150	interval		1.04	1.03	0.97	1.00	1.00	1.00	1.00	1.03	1.07	1.21		3.04	3.00	3.10	
wind	0.2 m/s	velocity	5.20	8.17	8.25	8.76	8.50	8.50	8.50	8.50	8.25	7.94	8.31	7.78	8.39	8.50	8.23	

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

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

date	23-May-21	time	2.60	3.70	4.74	5.78	6.82	7.84	8.90	9.94	11.00	12.08	13.37	6 / 2				
reaction time	0.161	interval		1.10	1.04	1.04	1.04	1.02	1.06	1.04	1.06	1.08	1.29		3.18	3.12	3.18	
wind	-3.9 m/s	velocity	5.00	7.73	8.17	8.17	8.17	8.33	8.02	8.17	8.02	7.87	7.79	7.48	8.02	8.17	8.02	

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

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

date	07-Mar-21	time	2.54	3.56	4.58	5.58	6.58						8.01	1 / 8				
reaction time	0.195	interval		1.02	1.02	1.00	1.00						1.43		3.04			
		velocity	5.12	8.33	8.33	8.50	8.50						9.09	7.49	8.39			

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

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

date	19-Aug-20	time	2.47	3.50	4.50	5.47	6.44	7.44	8.44	9.44	10.44	11.44	12.71	6 / 2				
reaction time	0.168	interval		1.03	1.00	0.97	0.97	1.00	1.00	1.00	1.00	1.00	1.27	NR PB	3.00	2.97	3.00	
wind	-0.2 m/s	velocity	5.26	8.25	8.50	8.76	8.76	8.50	8.50	8.50	8.50	8.50	7.91	7.87	8.50	8.59	8.50	

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

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

date	11-Aug-20	time	2.56	3.60	4.62	5.60	6.58	7.58	8.56	9.54	10.58	11.60	12.83	8 / 3				
reaction time	0.174	interval		1.04	1.02	0.98	0.98	1.00	0.98	0.98	1.04	1.02	1.23	PB	3.04	2.96	3.04	
wind	1.2 m/s	velocity	5.08	8.17	8.33	8.67	8.67	8.50	8.67	8.67	8.17	8.33	8.17	7.79	8.39	8.61	8.39	

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

Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)

date	06-Oct-19	time	2.52	3.56	4.58	5.56	6.56	7.54	8.54	9.56	10.58	11.62	12.87	8 / 5				
reaction time	0.187	interval		1.04	1.02	0.98	1.00	0.98	1.00	1.02	1.02	1.04	1.25		3.04	2.98	3.08	
wind	1.0 m/s	velocity	5.16	8.17	8.33	8.67	8.50	8.67	8.50	8.33	8.33	8.17	8.04	7.77	8.39	8.56	8.28	

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

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

date	09-Jul-18	time	2.68											dnf	8 / 8			
reaction time		interval																
wind	0.9 m/s	velocity	4.85															

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

Králová, Adéla (CZE) (1996)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 ISTAF Indoor (Berlin, GER) (TV Analysis)																		
date	1-Feb-19	time	2.60	3.62	4.66	5.68	6.68							8.07	2 / 4			
reaction time	0.153	interval		1.02	1.04	1.02	1.00						1.39	=PB		3.08		
		velocity	5.00	8.33	8.17	8.33	8.50						9.35	7.43		8.28		

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

FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE)

date	28-Jun-14	time	2.99	4.22	5.47	6.69	7.96	9.20	10.56	11.93	13.37	14.94	16.68	8 / 7				
reaction time	0.220	interval		1.23	1.25	1.22	1.27	1.24	1.36	1.37	1.44	1.57	1.74		3.70	3.87	4.38	
wind	-3.9 m/s	velocity	4.35	6.91	6.80	6.97	6.69	6.85	6.25	6.20	5.90	5.41	6.03	6.00	6.89	6.59	5.82	

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE)

date	28-Jun-14	time	2.92	4.17	5.35	6.59	7.82	9.07	10.37	11.63	12.94	14.23	15.68	6 / 5				
reaction time	0.178	interval		1.25	1.18	1.24	1.23	1.25	1.30	1.26	1.31	1.29	1.45		3.67	3.78	3.86	
wind	-4.5 m/s	velocity	4.45	6.80	7.20	6.85	6.91	6.80	6.54	6.75	6.49	6.59	7.24	6.38	6.95	6.75	6.61	

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

Krasovska, Olena (UKR) (1976)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2004 Olympic Games (Athens, GRE)																		
date	24-Aug-04	time	2.55	3.55	4.55	5.51	6.48	7.45	8.41	9.39	10.37	11.36	12.45	1 / 2				
reaction time	0.151	interval		1.00	1.00	0.96	0.97	0.97	0.96	0.98	0.98	0.99	1.09	PB		2.96	2.90	2.95
wind	0.3 m/s	velocity	5.10	8.50	8.50	8.85	8.76	8.76	8.85	8.67	8.67	8.59	9.63	8.03	8.61	8.79	8.64	

Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance

FINAL - 2002 IAAF World Cup (Madrid, ESP)

date	21-Sep-02	time	2.51	3.52	4.52	5.54	6.55	7.57	8.58	9.61	10.63	11.68	13.07	3 / 4				
reaction time	0.146	interval		1.01	1.00	1.02	1.01	1.02	1.01	1.03	1.02	1.05	1.39		3.03	3.04	3.10	
wind	1.5 m/s	velocity	5.18	8.42	8.50	8.33	8.42	8.33	8.42	8.25	8.33	8.10	7.55	7.65	8.42	8.39	8.23	

Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas

FINAL - 2002 European Championships (Munich, GER)

date	09-Aug-02	time	2.62	3.66	4.68	5.68	6.68	7.66	8.68	9.70	10.72	11.77	12.88	1 / 2				
reaction time	0.145	interval		1.04	1.02	1.00	1.00	0.98	1.02	1.02	1.02	1.05	1.11		3.06	3.00	3.09	
wind	-0.7 m/s	velocity	4.96	8.17	8.33	8.50	8.50	8.67	8.33	8.33	8.33	8.10	9.46	7.76	8.33	8.50	8.25	

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

Semi-Final 1 - 2002 European Championships (Munich, GER)

date	09-Aug-02	time	2.64	3.70	4.72	5.72	6.72	7.70	8.70	9.72	10.76	11.80	12.88	1 / 2				
reaction time	0.131	interval		1.06	1.02	1.00	1.00	0.98	1.00	1.02	1.04	1.04	1.08		3.08	2.98	3.10	
wind	0.0 m/s	velocity	4.92	8.02	8.33	8.50	8.50	8.67	8.50	8.33	8.17	8.17	9.72	7.76	8.28	8.56	8.23	

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

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

date	08-Aug-02	time	2.70	3.76	4.78	5.80	6.80	7.81	8.82	9.84	10.86	11.91		13.04	/ 2			
reaction time	0.157	interval		1.06	1.02	1.02	1.00	1.01	1.01	1.02	1.02	1.05	1.13			3.10	3.02	3.09
wind	0.3 m/s	velocity	4.81	8.02	8.33	8.33	8.50	8.42	8.42	8.33	8.33	8.10	9.29	7.67		8.23	8.44	8.25

Krizsán, Xénia (HUN) (1993)

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

Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	08-Aug-24	time	2.60	3.71	4.77	5.82	6.86	7.91	8.98	10.04	11.14	12.25		13.61	5 / 5			
reaction time	0.169	interval		1.11	1.06	1.05	1.04	1.05	1.07	1.06	1.10	1.11	1.36			3.22	3.16	3.27
wind	0.1 m/s	velocity	5.00	7.66	8.02	8.10	8.17	8.10	7.94	8.02	7.73	7.66	7.39	7.35		7.92	8.07	7.80

Kuchma, Oksana (UKR) (1973)

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

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

date	22-Jun-97	time	2.69	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
wind	0.7 m/s	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

Kulawansa-Fonseka, Sriyani (SRI) (19

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

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

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

date	27-Aug-99	time	2.57	3.61	4.64	5.64	6.65	7.65	8.67	9.69	10.72	11.77		12.98	7 / 8			
reaction time	0.142	interval		1.04	1.03	1.00	1.01	1.00	1.02	1.02	1.03	1.05	1.21			3.07	3.03	3.10
wind	1.0 m/s	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

Kumagai, Fumiko (JPN) (1984)

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

Semi-Final 2 - 2009 Japanese National Championships (Hiroshima, JPN)

Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season

date	25-Jun-09	time	2.50	3.60	4.67	5.72	6.77	7.82	8.89	9.96	11.05	12.15		13.50	6 / 2			
reaction time		interval		1.10	1.07	1.05	1.05	1.05	1.07	1.07	1.09	1.10	1.35	PB		3.22	3.17	3.26
wind	1.0 m/s	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

FINAL - 2008 Nambu Chuhei Memorial (Harodate, JPN)

Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles

date	06-Jul-08	time	2.58	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
wind	1.8 m/s	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

FINAL - 2008 Japanese National Championships (Kawasaki, JPN)

Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles

date	28-Jun-08	time	2.50	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
wind	-1.5 m/s	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

Kuroiwa, Kyoka (JPN) (1999)

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

FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)

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

date	02-Aug-17	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
wind	-2.9 m/s	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

Kurokawa, Sane (JPN) (2002)

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

U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (76cm)

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

date	18-Oct-19	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
wind	-0.8 m/s	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

Lamalle, Adrianna (FRA) (1982)

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

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

date	24-Jun-07	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
wind	0.9 m/s	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

Landová, Barbora (CZE) (1989)

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

Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)

Feher (2014) - Final report from the Czech Republic national championships

date	02-Aug-14	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
wind	-1.0 m/s	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

LaPlante, Deby (USA) (1953)

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

FINAL - 1979 Pan American Games (San Juan, PUR)

Lyle (1979) - coaching observations

date	13-Jul-79	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
wind	3.9 m/s	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

Semi-Final 1 - 1979 Pan American Games (San Juan, PUR)

Lyle (1979) - coaching observations

date	12-Jul-79	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
wind	3.4 m/s	velocity	5.75	8.33	8.10	8.25	9.14	8.50	8.59	8.76	8.33	7.26	6.86	7.71		8.23	8.73	8.07

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Latos, Barbara (POL) (1965)																	
FINAL - 1987 European Cup (Prague, TCH)												<i>Sušanka (1987) - hints on computer processing of biomechanical data</i>					
date	28-Jun-87	time	2.71	3.78	4.88	5.92	7.04	8.12	9.24	10.32	11.44	12.57	13.72	4 / 8			
reaction time		interval	1.07	1.10	1.04	1.12	1.08	1.12	1.08	1.12	1.13	1.15			3.21	3.32	3.33
wind	-0.9m/s	velocity	4.80	7.94	7.73	8.17	7.59	7.87	7.59	7.87	7.59	7.52	9.13	7.29	7.94	7.68	7.66
Laukhova, Svetlana (RUS) (1973)																	
FINAL - 2002 IAAF World Cup (Madrid, ESP)												<i>Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas</i>					
date	21-Sep-02	time	2.52	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	1.02	1.05	1.05	1.42		3.05	3.03	3.12
wind	1.5 m/s	velocity	5.16	8.33	8.33	8.42	8.42	8.50	8.33	8.33	8.10	8.10	7.39	7.61	8.36	8.42	8.17
Heat 3 - 2002 European Championships (Munich, GER)												<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
date	08-Aug-02	time	2.64	3.68	4.70	5.72	6.72	7.75	8.76	9.79	10.82	11.91	13.02	1 / 1			
reaction time	0.121	interval	1.04	1.02	1.02	1.00	1.03	1.01	1.03	1.03	1.03	1.09	1.11		3.08	3.04	3.15
wind	-0.3 m/s	velocity	4.92	8.17	8.33	8.33	8.50	8.25	8.42	8.25	8.25	7.80	9.46	7.68	8.28	8.39	8.10
FINAL - 1997 IAAF World Championships (Athens, GRE)												<i>Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>					
date	10-Aug-97	time	2.58	3.62	4.64	5.64	6.64	7.64	8.67	9.70	10.72	11.80	12.89	7 / 7			
reaction time	0.135	interval	1.04	1.02	1.00	1.00	1.00	1.03	1.03	1.02	1.08	1.09			3.06	3.03	3.13
wind	-0.3 m/s	velocity	5.04	8.17	8.33	8.50	8.50	8.50	8.25	8.25	8.33	7.87	9.63	7.76	8.33	8.42	8.15
Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)												<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>					
date	27-Aug-99	time	2.53	3.55	4.54	5.53	6.54	7.52	8.52	9.54	10.57	11.61	12.86	2 / 6			
reaction time	0.133	interval	1.02	0.99	0.99	1.01	0.98	1.00	1.02	1.03	1.04	1.25			3.00	2.99	3.09
wind	1.9 m/s	velocity	5.14	8.33	8.59	8.59	8.42	8.67	8.50	8.33	8.25	8.17	8.40	7.78	8.50	8.53	8.25
FINAL - 1997 European Cup (Munich, GER)												<i>Jung (2003) - http://www.fgs.uni-halle.de</i>					
date	22-Jun-97	time	2.65	3.69	4.68	5.69	6.68	7.69	8.69	9.71	10.74	11.81	12.94	1 / 1			
reaction time		interval	1.04	0.99	1.01	0.99	1.01	1.00	1.02	1.03	1.07	1.13			3.04	3.00	3.12
wind	0.7 m/s	velocity	4.91	8.17	8.59	8.42	8.59	8.42	8.50	8.33	8.25	7.94	9.29	7.73	8.39	8.50	8.17
Laurencin, Aasia (USA) (2002)																	
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)												<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	28-Jun-24	time	2.64	3.67	4.65	5.65	6.65	7.65	8.65	9.67	10.68	11.71	12.84	2 / 3			
reaction time		interval	1.03	0.98	1.00	1.00	1.00	1.00	1.02	1.01	1.03	1.13			3.01	3.00	3.06
wind	0.1 m/s	velocity	4.92	8.25	8.67	8.50	8.50	8.50	8.50	8.33	8.42	8.25	8.89	7.79	8.47	8.50	8.33
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)												<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	08-Jun-24	time	2.62	3.68	4.69	5.70	6.68	7.67	8.67	9.67	10.69	11.72	12.86	5 / 6			
reaction time		interval	1.06	1.01	1.01	0.98	0.99	1.00	1.00	1.02	1.03	1.14			3.08	2.97	3.05
wind	-0.5 m/s	velocity	4.96	8.02	8.42	8.42	8.67	8.59	8.50	8.50	8.33	8.25	8.82	7.78	8.28	8.59	8.36
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)												<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	10-Jun-23	time	2.54	3.62	4.67	5.70	6.69	7.66	8.63	9.61	10.59	11.61	12.82	9 / 7			
reaction time		interval	1.08	1.05	1.03	0.99	0.97	0.97	0.98	0.98	1.02	1.21			3.16	2.93	2.98
wind	3.8 m/s	velocity	5.12	7.87	8.10	8.25	8.59	8.76	8.76	8.67	8.67	8.33	8.31	7.80	8.07	8.70	8.56
Lavin, Sarah (IRL) (1994)																	
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)												<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	09-Aug-24	time	2.46	3.50	4.49	5.48	6.45	7.42	8.40	9.38	10.39	11.43	12.69	4 / 6			
reaction time	0.139	interval	1.04	0.99	0.99	0.97	0.97	0.98	0.98	1.01	1.04	1.26			3.02	2.92	3.03
wind	0.4 m/s	velocity	5.28	8.17	8.59	8.59	8.76	8.76	8.67	8.67	8.42	8.17	7.98	7.88	8.44	8.73	8.42
Heat 4 - 2024 Olympic Games (Paris, FRA)												<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	07-Aug-24	time	2.48	3.52	4.52	5.51	6.49	7.47	8.46	9.46	10.47	11.48	12.73	6 / 2			
reaction time	0.153	interval	1.04	1.00	0.99	0.98	0.98	0.99	1.00	1.01	1.01	1.25			3.03	2.95	3.02
wind	0.0 m/s	velocity	5.24	8.17	8.50	8.59	8.67	8.67	8.59	8.50	8.42	8.42	8.04	7.86	8.42	8.64	8.44
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)												<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	08-Jun-24	time	2.57	3.67	4.73	5.75	6.75	7.75	8.75	9.75	10.76	11.77	12.94	4 / 7			
reaction time	0.141	interval	1.10	1.06	1.02	1.00	1.00	1.00	1.00	1.01	1.01	1.17			3.18	3.00	3.02
wind	0.8 m/s	velocity	5.06	7.73	8.02	8.33	8.50	8.50	8.50	8.50	8.42	8.42	8.59	7.73	8.02	8.50	8.44
FINAL - 2024 Seashore Doha Meeting (Doha, QAT) (TV Analysis)												<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	10-May-24	time	2.60	3.62	4.62	5.60	6.57	7.56	8.56	9.54	10.57	11.60	12.73	2 / 5			
reaction time	0.127	interval	1.02	1.00	0.98	0.97	0.99	1.00	0.98	1.03	1.03	1.13			3.00	2.96	3.04
wind	1.7 m/s	velocity	5.00	8.33	8.50	8.67	8.76	8.59	8.50	8.67	8.25	8.25	8.89	7.86	8.50	8.61	8.39
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)												<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>					
date	03-Mar-24	time	2.63	3.65	4.65	5.64	6.64						7.91	7 / 5			
reaction time	0.129	interval	1.02	1.00	0.99	1.00						1.27			3.01		

														Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lazraq-Khlass, Auriana (FRA) (1999)																			
Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)																			
<i>Paris 2024 Olympic Games - Results Book (2024)</i>																			
date	08-Aug-24	time	2.57	3.66	4.71	5.74	6.77	7.78	8.82	9.91	11.06	12.19		13.54	6 / 8				
reaction time	0.155	interval		1.09	1.05	1.03	1.03	1.01	1.04	1.09	1.15	1.13	1.35			3.17	3.08	3.37	
wind	-0.1 m/s	velocity	5.06	7.80	8.10	8.25	8.25	8.42	8.17	7.80	7.39	7.52	7.44	7.39		8.04	8.28	7.57	
Lebedeva, Natalya (URS) (1949)																			
A FINAL - 1979 VII USSR Spartakiade (Moscow, URS)																			
<i>Balachničiv (1981) - Periodisierung & Zyklisierung des Trainings 78/79 Hürdenläuferinnen der Spitzenklasse der UdSSR</i>																			
date	25-Jul-79	time	2.58	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	
wind	???	velocity	5.04	7.87	7.87	7.94	8.59	8.76	8.42	7.94	8.10	8.02	8.82	7.60		7.89	8.59	8.02	
FINAL - 1976 Olympic Games (Montreal, CAN)																			
<i>Ilyin (1979) - successes of women hurdlers</i>																			
date	29-Jul-76	time	2.60	3.66	4.68	5.66	6.64	7.62	8.60	9.60	10.60	11.62		12.80	8 / 3				
reaction time		interval		1.06	1.02	0.98	0.98	0.98	0.98	1.00	1.00	1.02	1.18	PB		3.06	2.94	3.02	
wind	0.0 m/s	velocity	5.00	8.02	8.33	8.67	8.67	8.67	8.50	8.50	8.33	8.90	7.81			8.33	8.67	8.44	
FINAL - 1975 International "Pravda" Sportfest (Sotschi, URS)																			
<i>Artyschenko (1977) - zwischen den hürden geht es um die sekunde, teil 2</i>																			
date	29-May-75	time	2.4	3.6	4.7	5.8	6.9	7.9	9.0	10.0	11.1	12.1		13.4	/ 2				
reaction time		interval		1.27	1.11	1.09	1.04	1.06	1.03	1.05	1.05	1.01	1.31			3.47	3.13	3.11	
wind	???	velocity	5.51	6.69	7.66	7.80	8.17	8.02	8.25	8.10	8.10	8.42	8.02	7.47		7.35	8.15	8.20	
Lee Yeon-Kyoung (KOR) (1981)																			
FINAL - 2004 Busan International Athletics Meeting (Busan, KOR)																			
<i>Lee (2007) - the kinematic analysis of horizontal velocity and records from start to finish on elite women 100m hurdler</i>																			
date	24-Sep-04	time	2.74	3.83	4.90	5.94	7.01	8.05	9.10	10.17	11.24	12.32		13.47	/ 1				
reaction time		interval		1.09	1.07	1.04	1.07	1.04	1.05	1.07	1.07	1.08	1.15	NR		3.20	3.16	3.22	
wind	0.7 m/s	velocity	4.74	7.80	7.94	8.17	7.94	8.17	8.10	7.94	7.94	7.87	9.13	7.42		7.97	8.07	7.92	
Lenskiy, Irina (ISR) (1971)																			
Heat 4 - 2002 European Championships (Munich, GER)																			
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																			
date	08-Aug-02	time	2.70	3.73	4.76	5.76	6.77	7.78	8.80	9.83	10.85	11.91		13.04	/ 3				
reaction time	0.121	interval		1.03	1.03	1.00	1.01	1.01	1.02	1.03	1.02	1.06	1.13			3.06	3.04	3.11	
wind	0.3 m/s	velocity	4.81	8.25	8.25	8.50	8.42	8.42	8.33	8.25	8.33	8.02	9.29	7.67		8.33	8.39	8.20	
Leng Xiping (CHN) (2001)																			
Heat 2 - 2021 National Grand Prix (Chengdu, CHN)																			
<i>CAA Hurdle Development (2021)</i>																			
date	02-Apr-21	time	2.80	3.96	5.12	6.24	7.38	8.52	9.66	10.82	12.00	13.16		14.48	2 / 4				
reaction time	0.449	interval		1.16	1.16	1.12	1.14	1.14	1.14	1.16	1.18	1.16	1.32			3.44	3.42	3.50	
wind	0.4 m/s	velocity	4.64	7.33	7.33	7.59	7.46	7.46	7.46	7.33	7.20	7.33	7.61	6.91		7.41	7.46	7.29	
Lewis, Yvette (USA) (1985)																			
FINAL - 2009 ISTAF (Berlin, GER)																			
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																			
date	14-Jun-09	time	2.62	3.65	4.68	5.71	6.73	7.75	8.77	9.82	10.86	11.93		13.07	/ 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	
wind	-0.1 m/s	velocity	4.96	8.25	8.25	8.25	8.33	8.33	8.33	8.10	8.17	7.94	9.21	7.65		8.25	8.33	8.07	
Li Danyang (CHN) (1997)																			
B-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)																			
<i>CAA Hurdle Development (2019)</i>																			
date	4-Mar-19	time	2.78	3.90	5.02	6.14	7.31												
reaction time		interval		1.12	1.12	1.12	1.17						1.52			3.36			
		velocity	4.68	7.59	7.59	7.59	7.26						8.55	6.80		7.59			
B-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)																			
<i>CAA Hurdle Development (2019)</i>																			
date	28-Feb-19	time	2.77	3.90	5.02	6.14	7.26												
reaction time		interval		1.13	1.12	1.12	1.12						1.39			3.37			
		velocity	4.69	7.52	7.59	7.59	7.59						9.35	6.94		7.57			
Li Jinghua (CHN) (1996)																			
Heptathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																			
<i>CAA Hurdle Development (2019)</i>																			
date	23-Aug-19	time	2.92	4.10	5.29	6.47	7.65	8.83	10.06	11.28	12.53	13.80		15.16	9 / 5				
reaction time	0.195	interval		1.18	1.19	1.18	1.18	1.18	1.23	1.22	1.25	1.27	1.36			3.55	3.59	3.74	
wind	?? m/s	velocity	4.45	7.20	7.14	7.20	7.20	7.20	6.91	6.97	6.80	6.69	7.72	6.60		7.18	7.10	6.82	
Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)																			
<i>CAA Hurdle Development (2019)</i>																			
date	08-Jul-19	time	2.88	4.04	5.20	6.35	7.52	8.71	9.91	11.12	12.36	13.61		14.98	7 / 5				
reaction time	0.214	interval		1.16	1.16	1.15	1.17	1.19	1.20	1.21	1.24	1.25	1.37			3.47	3.56	3.70	
wind	0.1 m/s	velocity	4.51	7.33	7.33	7.39	7.26	7.14	7.08	7.02	6.85	6.80	7.66	6.68		7.35	7.16	6.89	
Li Jinyu (CHN) (1999)																			
Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)																			
<i>CAA Hurdle Development (2019)</i>																			
date	02-Aug-19	time	2.77	3.87	5.00	6.09	7.21	8.33	9.44	10.59	11.74	12.93		14.18	3 / 6				
reaction time	0.189	interval		1.10	1.13	1.09	1.12	1.12	1.11	1.15	1.15	1.19	1.25			3.32	3.35	3.49	
wind	-0.3 m/s	velocity	4.69	7.73	7.52	7.80	7.59	7.59	7.66	7.39	7.39	7.14	8.40	7.05		7.68	7.61	7.31	

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

CAA Hurdle Development (2019)

date	24-Feb-19	time	2.80	3.93	5.05	6.19	7.34							8.80	5 / 3			
reaction time		interval		1.13	1.12	1.14	1.15					1.46						3.39
		velocity	4.64	7.52	7.59	7.46	7.39					8.90	6.82					7.52

Li Mengyu (CHN) (2002)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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B-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)

CAA Hurdle Development (2019)

date	4-Mar-19	time	2.77	3.93	5.09	6.24	7.36							8.89	5 / 3			
reaction time		interval		1.16	1.16	1.15	1.12					1.53						3.47
		velocity	4.69	7.33	7.33	7.39	7.59					8.50	6.75					7.35

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

CAA Hurdle Development (2019)

date	28-Feb-19	time	2.76	3.92	5.08	6.22	7.36							8.80	5 / 3			
reaction time		interval		1.16	1.16	1.14	1.14					1.44						3.46
		velocity	4.71	7.33	7.33	7.46	7.46					9.03	6.82					7.37

Li Shiyu (CHN) (2005)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 2 - 2021 National Grand Prix (Chengdu, CHN)

CAA Hurdle Development (2021)

date	02-Apr-21	time	2.90	4.12	5.32	6.54	7.72	8.92	10.12	11.32	12.54	13.76		15.10	6 / 5			
reaction time	0.178	interval		1.22	1.20	1.22	1.18	1.20	1.20	1.20	1.22	1.22	1.34					3.64
wind	0.4 m/s	velocity	4.48	6.97	7.08	6.97	7.20	7.08	7.08	7.08	6.97	6.97	7.50	6.62				7.01

Li Xiangrong (CHN) (2002)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 3 - 2021 National Indoor Grand Prix (Chengdu, CHN)

CAA Hurdle Development (2021)

date	13-Mar-21	time	2.83	4.03	5.20	6.35	7.52							9.10	3 / 5			
reaction time	0.196	interval		1.20	1.17	1.15	1.17						1.58	PB				3.52
		velocity	4.59	7.08	7.26	7.39	7.26						8.23	6.59				7.24

Li Yuansu (CHN) (2003)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (76cm)

CAA Hurdle Development (2019)

date	14-Aug-19	time	2.80	3.97	5.10	6.26	7.39	8.54	9.68	10.83	12.00	13.16		14.45	6 / 3			
reaction time	0.184	interval		1.17	1.13	1.16	1.13	1.15	1.14	1.15	1.17	1.16	1.29					3.46
wind	0.0 m/s	velocity	4.64	7.26	7.52	7.33	7.52	7.39	7.46	7.39	7.26	7.33	8.14	6.92				7.37

Lin Yuqian (CHN) (2003)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.75	3.85	4.94	6.00	7.07	8.12	9.22	10.31	11.43	12.56		13.77	3 / 4			
reaction time	0.201	interval		1.10	1.09	1.06	1.07	1.05	1.10	1.09	1.12	1.13	1.21					3.25
wind	-0.3 m/s	velocity	4.73	7.73	7.80	8.02	7.94	8.10	7.73	7.80	7.59	7.52	8.31	7.26				7.85

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

CAA Hurdle Development (2021)

date	12-Jun-21	time	2.62	3.70	4.78	5.86	6.92	8.01	9.11	10.23	11.33	12.50		13.83	7 / 6			
reaction time	0.196	interval		1.08	1.08	1.08	1.06	1.09	1.10	1.12	1.10	1.17	1.33					3.24
wind	-0.2 m/s	velocity	4.96	7.87	7.87	7.87	8.02	7.80	7.73	7.59	7.73	7.26	7.56	7.23				7.87

FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)

CAA Hurdle Development (2021)

date	19-May-21	time	2.75	3.84	4.92	6.00	7.06	8.14	9.23	10.32	11.44	12.56		13.75	1 / 3			
reaction time	0.206	interval		1.09	1.08	1.08	1.06	1.08	1.09	1.09	1.12	1.12	1.19	PB				3.25
wind	0.2 m/s	velocity	4.73	7.80	7.87	7.87	8.02	7.87	7.80	7.80	7.59	7.59	8.45	7.27				7.85

Lin Yuwei (CHN) (1999)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Repechage 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	08-Aug-24	time	2.48	3.56	4.61	5.63	6.65	7.66	8.69	9.72	10.77	11.82		13.13	5 / 6			
reaction time	0.150	interval		1.08	1.05	1.02	1.02	1.01	1.03	1.03	1.05	1.05	1.31					3.15
wind	0.4 m/s	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

Heat 5 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time	2.49	3.56	4.61	5.64	6.66	7.68	8.70	9.75	10.81	11.89		13.24	6 / 7			
reaction time	0.147	interval		1.07	1.05	1.03	1.02	1.02	1.02	1.05	1.06	1.08	1.35					3.15
wind	-0.6 m/s	velocity	5.22	7.94	8.10	8.25	8.33	8.33	8.33	8.10	8.02	7.87	7.44	7.55				8.10

Heat 2 - 2024 FBK Games (Hengelo, NED)

Omega Timing (2024) - continental tour gold race analysis

date	07-Jul-24	time	2.49	3.58	4.59	5.60	6.63	7.71	8.84	9.95	11.04	12.14		13.47	8 / 9			
reaction time	0.158	interval		1.09	1.01	1.01	1.03	1.08	1.13	1.11	1.09	1.10	1.33					3.11
wind	0.3 m/s	velocity	5.22	7.80	8.42	8.42	8.25	7.87	7.52	7.66	7.80	7.73	7.56	7.42				8.20

National FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)

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

date	02-Sep-23	time	2.60	3.64	4.67	5.67	6.67	7.66	8.68	9.70	10.75	11.82		13.00	5 / 1			
reaction time	0.139	interval		1.04	1.03	1.00	1.00	0.99	1.02	1.02	1.05	1.07	1.18					3.07
wind	0.1 m/s	velocity	5.00	8.17	8.25	8.50	8.50	8.59	8.33	8.33	8.10	7.94	8.52	7.69				8.31

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

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

date	29-Apr-23	time	2.60	3.65	4.65	5.67	6.67	7.67	8.69	9.69	10.70	11.73		12.82	4 / 3			
reaction time		interval		1.05	1.00	1.02	1.00	1.00	1.02	1.00	1.01	1.03	1.09			3.07	3.02	3.04
wind	3.2 m/s	velocity	5.00	8.10	8.50	8.33	8.50	8.50	8.33	8.50	8.42	8.25	9.22	7.80		8.31	8.44	8.39
FINAL - 2021 Chinese National Games (Xi'an, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	22-Sep-21	time	2.50	3.53	4.56	5.56	6.56	7.56	8.58	9.60	10.63	11.67		12.88	6 / 1			
reaction time	0.146	interval		1.03	1.03	1.00	1.00	1.00	1.02	1.02	1.03	1.04	1.21			3.06	3.02	3.09
wind	0.1 m/s	velocity	5.20	8.25	8.25	8.50	8.50	8.50	8.33	8.33	8.25	8.17	8.31	7.76		8.33	8.44	8.25
Semi-Final 3 - 2021 Chinese National Games (Xi'an, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	21-Sep-21	time	2.49	3.51	4.51	5.52	6.50	7.49	8.49	9.51	10.53	11.60		12.85	6 / 1			
reaction time	0.147	interval		1.02	1.00	1.01	0.98	0.99	1.00	1.02	1.02	1.07	1.25	PB		3.03	2.97	3.11
wind	0.1 m/s	velocity	5.22	8.33	8.50	8.42	8.67	8.59	8.50	8.33	8.33	7.94	8.04	7.78		8.42	8.59	8.20
FINAL - 2021 Chinese Student Games (Qingdao, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	14-Jul-21	time	2.53	3.60	4.63	5.67	6.68	7.67	8.70	9.70	10.75	11.79		12.93	5 / 1			
reaction time		interval		1.07	1.03	1.04	1.01	0.99	1.03	1.00	1.05	1.04	1.14	PB		3.14	3.03	3.09
wind	-0.7 m/s	velocity	5.14	7.94	8.25	8.17	8.42	8.59	8.25	8.50	8.10	8.17	8.82	7.73		8.12	8.42	8.25
FINAL - 2021 Flavour Hangzhou Athletics Meeting (Hangzhou, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	09-Jul-21	time	2.62	3.67	4.74	5.77	6.81	7.82	8.86	9.91	10.96	12.05		13.24	4 / 1			
reaction time	0.142	interval		1.05	1.07	1.03	1.04	1.01	1.04	1.05	1.05	1.09	1.19			3.15	3.09	3.19
wind	-0.3 m/s	velocity	4.96	8.10	7.94	8.25	8.17	8.42	8.17	8.10	8.10	7.80	8.45	7.55		8.10	8.25	7.99
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	25-Jun-21	time	2.67	3.75	4.82	5.87	6.92	7.99	9.06	10.13	11.21	12.33		13.53	5 / 1			
reaction time	0.160	interval		1.08	1.07	1.05	1.05	1.07	1.07	1.07	1.08	1.12	1.20			3.20	3.19	3.27
wind	-1.8 m/s	velocity	4.87	7.87	7.94	8.10	8.10	7.94	7.94	7.94	7.87	7.59	8.38	7.39		7.97	7.99	7.80
Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	12-Jun-21	time	2.47	3.50	4.54	5.57	6.61	7.61	8.64	9.69	10.73	11.79		13.00	4 / 1			
reaction time	0.133	interval		1.03	1.04	1.03	1.04	1.00	1.03	1.05	1.04	1.06	1.21			3.10	3.07	3.15
wind	2.2 m/s	velocity	5.26	8.25	8.17	8.25	8.17	8.50	8.25	8.10	8.17	8.02	8.31	7.69		8.23	8.31	8.10
FINAL - 2021 Chinese East Region Athletics Meeting (Fuzhou, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	23-May-21	time	2.60	3.63	4.65	5.67	6.68	7.70	8.70	9.73	10.77	11.84		12.99	7 / 1			
reaction time	0.174	interval		1.03	1.02	1.02	1.01	1.02	1.00	1.03	1.04	1.07	1.15	PB		3.07	3.03	3.14
wind	-0.5 m/s	velocity	5.00	8.25	8.33	8.33	8.42	8.33	8.50	8.25	8.17	7.94	8.74	7.70		8.31	8.42	8.12
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	24-Apr-21	time	2.59	3.64	4.68	5.70	6.73	7.73	8.75	9.80	10.84	11.89		13.03	2 / 1			
reaction time	0.137	interval		1.05	1.04	1.02	1.03	1.00	1.02	1.05	1.04	1.05	1.14	PB		3.11	3.05	3.14
wind	-0.8 m/s	velocity	5.02	8.10	8.17	8.33	8.25	8.50	8.33	8.10	8.17	8.10	8.82	7.67		8.20	8.36	8.12
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	24-Apr-21	time	2.62	3.69	4.73	5.79	6.86	7.93	8.99	10.11	11.24	12.39		13.75	4 / 4			
reaction time	0.147	interval		1.07	1.04	1.06	1.07	1.07	1.06	1.12	1.13	1.15	1.36			3.17	3.20	3.40
wind	0.5 m/s	velocity	4.96	7.94	8.17	8.02	7.94	7.94	8.02	7.59	7.52	7.39	7.39	7.27		8.04	7.97	7.50
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	08-Apr-21	time	2.60	3.64	4.68	5.72	6.72	7.74	8.78	9.82	10.88	11.92		13.08	4 / 1			
reaction time		interval		1.04	1.04	1.04	1.00	1.02	1.04	1.04	1.06	1.04	1.16	PB		3.12	3.06	3.14
wind	-0.1 m/s	velocity	5.00	8.17	8.17	8.17	8.50	8.33	8.17	8.17	8.02	8.17	8.66	7.65		8.17	8.33	8.12
A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	13-Mar-21	time	2.64	3.68	4.72	5.74	6.77							8.12	5 / 1			
reaction time	0.158	interval		1.04	1.04	1.02	1.03						1.35	PB		3.10		
		velocity	4.92	8.17	8.17	8.33	8.25						9.63	7.39		8.23		
Heat 2 - 2021 National Indoor Grand Prix (Chengdu, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	13-Mar-21	time	2.67	3.73	4.84	5.96	7.09							8.68	6 / 3			
reaction time	0.164	interval		1.06	1.11	1.12	1.13						1.59			3.29		
		velocity	4.87	8.02	7.66	7.59	7.52						8.18	6.91		7.75		
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)																<i>CAA Hurdle Development (2020)</i>		
date	15-Sep-20	time	2.61	3.67	4.71	5.75	6.77	7.79	8.83	9.90	10.97	12.05		13.22	4 / 2			
reaction time	0.144	interval		1.06	1.04	1.04	1.02	1.02	1.04	1.07	1.07	1.08	1.17	PB		3.14	3.08	3.22
wind	-0.4 m/s	velocity	4.98	8.02	8.17	8.17	8.33	8.33	8.17	7.94	7.94	7.87	8.59	7.56		8.12	8.28	7.92
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)																<i>CAA Hurdle Development (2020)</i>		
date	15-Sep-20	time	2.67	3.75	4.82	5.88	6.95	8.02	9.06	10.14	11.21	12.31		13.47	6 / 2			
reaction time	0.136	interval		1.08	1.07	1.06	1.07	1.07	1.04	1.08	1.07	1.10	1.16			3.21	3.18	3.25
wind	-0.6 m/s	velocity	4.87	7.87	7.94	8.02	7.94	7.94	8.17	7.87	7.94	7.73	8.66	7.42		7.94	8.02	7.85

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

date	24-Aug-19	time	2.68	3.77	4.84	5.92	6.97	8.04	9.10	10.16	11.27	12.37		13.55	CAA Hurdle Development (2019)		
reaction time	0.161	interval		1.09	1.07	1.08	1.05	1.07	1.06	1.06	1.11	1.10	1.18		3.24	3.18	3.27
wind	-0.1 m/s	velocity	4.85	7.80	7.94	7.87	8.10	7.94	8.02	8.02	7.66	7.73	8.90	7.38	7.87	8.02	7.80

Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

date	23-Aug-19	time	2.70	3.79	4.87	5.94	7.04	8.09	9.19	10.29	11.40	12.54		13.77	CAA Hurdle Development (2019)		
reaction time	0.151	interval		1.09	1.08	1.07	1.10	1.05	1.10	1.10	1.11	1.14	1.23		3.24	3.25	3.35
wind	-0.2 m/s	velocity	4.81	7.80	7.87	7.94	7.73	8.10	7.73	7.73	7.66	7.46	8.54	7.26	7.87	7.85	7.61

FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)

date	02-Aug-19	time	2.67	3.74	4.81	5.86	6.91	7.99	9.03	10.13	11.23	12.36		13.57	CAA Hurdle Development (2019)		
reaction time	0.127	interval		1.07	1.07	1.05	1.05	1.08	1.04	1.10	1.10	1.13	1.21		3.19	3.17	3.33
wind	0.0 m/s	velocity	4.87	7.94	7.94	8.10	8.10	7.87	8.17	7.73	7.73	7.52	8.68	7.37	7.99	8.04	7.66

Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)

date	02-Aug-19	time	2.69	3.78	4.87	5.96	7.02	8.09	9.19	10.27	11.37	12.49		13.72	CAA Hurdle Development (2019)		
reaction time	0.152	interval		1.09	1.09	1.09	1.06	1.07	1.10	1.08	1.10	1.12	1.23		3.27	3.23	3.30
wind	-0.3 m/s	velocity	4.83	7.80	7.80	7.80	8.02	7.94	7.73	7.87	7.73	7.59	8.54	7.29	7.80	7.89	7.73

FINAL - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.73	3.81	4.89	5.98	7.06	8.15	9.24	10.36	11.46	12.60		13.83	CAA Hurdle Development (2019)		
reaction time	0.143	interval		1.08	1.08	1.09	1.08	1.09	1.09	1.12	1.10	1.14	1.23		3.25	3.26	3.36
wind	0.2 m/s	velocity	4.76	7.87	7.87	7.80	7.87	7.80	7.80	7.59	7.73	7.46	8.54	7.23	7.85	7.82	7.59

Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.74	3.84	4.91	6.00	7.06	8.13	9.22	10.30	11.42	12.56		13.78	CAA Hurdle Development (2019)		
reaction time	0.163	interval		1.10	1.07	1.09	1.06	1.07	1.09	1.08	1.12	1.14	1.22		3.26	3.22	3.34
wind	0.7 m/s	velocity	4.74	7.73	7.94	7.80	8.02	7.94	7.80	7.87	7.59	7.46	8.61	7.26	7.82	7.92	7.63

Heat 3 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)

date	13-Apr-19	time	2.76	3.87	4.97	6.05	7.14	8.25	9.35	10.46	11.61	12.78		14.07	CAA Hurdle Development (2019)		
reaction time	0.158	interval		1.11	1.10	1.08	1.09	1.11	1.10	1.11	1.15	1.17	1.29		3.29	3.30	3.43
wind	1.0 m/s	velocity	4.71	7.66	7.73	7.87	7.80	7.66	7.73	7.66	7.39	7.26	8.14	7.11	7.75	7.73	7.43

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)

date	16-Sep-18	time	2.67	3.73	4.80	5.86	6.93	7.98	9.04	10.13	11.25	12.36		13.57	Henson (2018) - coaching observations		
reaction time		interval		1.06	1.07	1.06	1.07	1.05	1.06	1.09	1.12	1.11	1.21		3.19	3.18	3.32
wind	-0.2 m/s	velocity	4.87	8.02	7.94	8.02	7.94	8.10	8.02	7.80	7.59	7.66	8.68	7.37	7.99	8.02	7.68

Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)

date	15-Sep-18	time	2.68	3.76	4.84	5.89	6.96	8.03	9.09	10.19	11.28	12.41		13.64	Henson (2018) - coaching observations		
reaction time		interval		1.08	1.08	1.05	1.07	1.07	1.06	1.10	1.09	1.13	1.23		3.21	3.20	3.32
wind	-0.6 m/s	velocity	4.85	7.87	7.87	8.10	7.94	7.94	8.02	7.73	7.80	7.52	8.54	7.33	7.94	7.97	7.68

Linde, Sofia (SWE) (1995)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pentathlon - Heat 2 - 2013 European Indoor Championships (Göteborg, SWE)																		
Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx																		
date	01-Mar-13	time	2.73	3.80	4.86	5.90	6.94							8.36	5 / 5			
reaction time	0.165	interval		1.07	1.06	1.04	1.04						1.42			3.17		
wind		velocity	4.76	7.94	8.02	8.17	8.17						9.15	7.18		8.04		

Lindeblad, Elin (SWE) (1995)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)																		
Omega Timing (2023) - diamond league race analysis																		
date	02-Jul-23	time	2.57	3.69	4.79	5.86	6.92	8.01	9.08	10.16	11.25	12.36		13.75	5 / 4			
reaction time	0.140	interval		1.12	1.10	1.07	1.06	1.09	1.07	1.08	1.09	1.11	1.39			3.29	3.22	3.28
wind	0.6 m/s	velocity	5.06	7.59	7.73	7.94	8.02	7.80	7.94	7.87	7.80	7.66	7.23	7.27		7.75	7.92	7.77

Lindeén, Jonna (SWE) (1996)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)																		
Omega Timing (2023) - diamond league race analysis																		
date	02-Jul-23	time	2.66	3.81	4.92	6.01	7.08	8.15	9.23	10.32	11.42	12.54		13.95	7 / 6			
reaction time	0.195	interval		1.15	1.11	1.09	1.07	1.07	1.08	1.09	1.10	1.12	1.41			3.35	3.22	3.31
wind	0.6 m/s	velocity	4.89	7.39	7.66	7.80	7.94	7.94	7.87	7.80	7.73	7.59	7.13	7.17		7.61	7.92	7.70

Lindenmayer, Sabrina (GER) (1989)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Sparkassen Gala (Regensburg, GER)																		
Buckwitz (2014) - OSP Berlin / DLV frauen hürden report																		
date	07-Jun-14	time	2.72	3.80	4.88	5.92	6.98	8.00	9.04	10.09	11.14	12.26		13.44	8 / 3			
reaction time		interval		1.08	1.08	1.04	1.06	1.02	1.04	1.05	1.05	1.12	1.18			3.20	3.12	3.22
wind	0.1 m/s	velocity	4.78	7.87	7.87	8.17	8.02	8.33	8.17	8.10	8.10	7.59	8.90	7.44		7.97	8.17	7.92

Heat 2 - 2014 Sparkassen Gala (Regensburg, GER)

date	07-Jun-14	time	2.74	3.81	4.91	6.00	7.08	8.16	9.24	10.32	11.45	12.56		13.77	/ 3			
reaction time		interval		1.07	1.10	1.09	1.08	1.08	1.08	1.08	1.13	1.11	1.21			3.26	3.24	3.32

wind	-0.5 m/s	velocity	4.74	7.94	7.73	7.80	7.87	7.87	7.87	7.87	7.52	7.66	8.68	7.26		7.82	7.87	7.68
Lindley, Lindsay (NGR) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)			<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>															
date	11-Aug-17	time	2.46	3.51	4.51	5.52	6.53	7.52	8.54	9.58	10.66	11.77		13.18	2 / 7			
reaction time	0.163	interval	1.05	1.00	1.01	1.01	0.99	1.02	1.04	1.08	1.11	1.41				3.06	3.02	3.23
wind	0.5 m/s	velocity	5.28	8.10	8.50	8.42	8.42	8.59	8.33	8.17	7.87	7.66	7.45	7.59		8.33	8.44	7.89
Litovchenko, Irina (URS) (1950)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
A FINAL - 1979 VII USSR Spartakiade (Moscow, URS)			<i>Balachničiv (1981) - Periodisierung & Zyklisierung des Trainings 78/79 Hürdenläuferinnen der Spitzenklasse der UdSSR</i>															
date	25-Jul-79	time	2.54	3.68	4.70	5.76	6.76	7.76	8.78	9.86	10.92	11.99		13.18	1 / 5			
reaction time		interval		1.14	1.02	1.06	1.00	1.00	1.02	1.08	1.06	1.07	1.19			3.22	3.02	3.21
wind	???	velocity	5.12	7.46	8.33	8.02	8.50	8.50	8.33	7.87	8.02	7.94	8.82	7.59		7.92	8.44	7.94
Liu Huajin (CHN) (1960)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1987 Chinese National Games (Guangzhou, CHN)			<i>Xia (1990) - analysis of Liu Huajin's technical features in breaking the Asian 100m hurdles record</i>															
date	25-Nov-87	time	2.55	3.62	4.58	5.58	6.62	7.66	8.68	9.71	10.73	11.77		12.89	1 / 1			
reaction time		interval		1.07	0.96	1.00	1.04	1.04	1.02	1.03	1.02	1.04	1.12	AR		3.03	3.10	3.09
wind	???	velocity	5.10	7.94	8.85	8.50	8.17	8.17	8.33	8.25	8.33	8.17	9.37	7.76		8.42	8.23	8.25
Liu Jingyi (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	24-Jun-21	time	2.83	3.97	5.12	6.27	7.42	8.56	9.72	10.91	12.11	13.36		14.75	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
wind	0.3 m/s	velocity	4.59	7.46	7.39	7.39	7.39	7.46	7.33	7.14	7.08	6.80	7.23	6.78		7.41	7.39	7.01
FINAL - 2021 Central China Athletics Meeting (Ji'an, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	11-May-21	time	2.87	4.00	5.19	6.34	7.52	8.70	9.89	11.11	12.34	13.61		15.01	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
wind	-0.6 m/s	velocity	4.53	7.52	7.14	7.39	7.20	7.20	7.14	6.97	6.91	6.69	7.18	6.66		7.35	7.18	6.85
Heptathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	23-Aug-19	time	2.80	3.95	5.14	6.30	7.49	8.68	9.89	11.14	12.42	13.68		15.17	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
wind	?? m/s	velocity	4.64	7.39	7.14	7.33	7.14	7.14	7.02	6.80	6.64	6.75	7.05	6.59		7.29	7.10	6.73
Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	08-Jul-19	time	2.83	4.00	5.17	6.36	7.54	8.72	9.96	11.22	12.51	13.83		15.31	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
wind	0.1 m/s	velocity	4.59	7.26	7.26	7.14	7.20	7.20	6.85	6.75	6.59	6.44	7.09	6.53		7.22	7.08	6.59
Liu Miao (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	24-Jun-21	time	3.00	4.24	5.48	6.72	7.97	9.24	10.49	11.78	13.11	14.45		15.95	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
wind	0.3 m/s	velocity	4.33	6.85	6.85	6.85	6.80	6.69	6.80	6.59	6.39	6.34	6.70	6.27		6.85	6.76	6.44
Heat 3 - 2021 National Indoor Grand Prix (Chengdu, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	13-Mar-21	time	3.00	4.27	5.52	6.77	8.04							9.75	2 / 6			
reaction time	0.245	interval		1.27	1.25	1.25	1.27						1.71	PB		3.77		
		velocity	4.33	6.69	6.80	6.80	6.69						7.60	6.15		6.76		
Liu Sihui (CHN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	19-May-21	time	2.88	4.08	5.26	6.47	7.67	8.85	10.09	11.34	12.59	13.89		15.25	3 / 7			
reaction time	0.211	interval		1.20	1.18	1.21	1.20	1.18	1.24	1.25	1.25	1.30	1.36			3.59	3.62	3.80
wind	0.2 m/s	velocity	4.51	7.08	7.20	7.02	7.08	7.20	6.85	6.80	6.80	6.54	7.39	6.56		7.10	7.04	6.71
Liu Xinyao (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2021 National Grand Prix (Chengdu, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	02-Apr-21	time	2.92	4.14	5.44	6.72	7.98	9.24	10.50	11.78	13.10	14.42		15.90	7 / 5			
reaction time	0.183	interval		1.22	1.30	1.28	1.26	1.26	1.26	1.28	1.32	1.32	1.48			3.80	3.78	3.92
wind	1.0 m/s	velocity	4.45	6.97	6.54	6.64	6.75	6.75	6.75	6.64	6.44	6.44	6.79	6.29		6.71	6.75	6.51
Heat 3 - 2021 National Indoor Grand Prix (Chengdu, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	13-Mar-21	time	2.93	4.22	5.47	6.72	7.99							9.68	3 / 6			
reaction time	0.201	interval		1.29	1.25	1.25	1.27						1.69	PB		3.79		
		velocity	4.44	6.59	6.80	6.80	6.69						7.69	6.20		6.73		
Liu Xinyu (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	25-Jun-21	time	2.78	3.90	5.00	6.10	7.20	8.31	9.41	10.56	11.71	12.88		14.18	8 / 5			
reaction time	0.216	interval	7 steps	1.12	1.10	1.10	1.10	1.11	1.10	1.15	1.15	1.17	1.30			3.32	3.31	3.47

wind -0.3 m/s velocity 4.68 7.59 7.73 7.73 7.73 7.66 7.73 7.39 7.39 7.26 7.73 7.05 7.68 7.70 7.35

Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)

CAA Hurdle Development (2021)

date 24-Apr-21 time 2.82 3.94 5.05 6.13 7.26 8.36 9.49 10.64 11.81 13.00 14.29 5 / 5
 reaction time 0.277 interval 7 steps 1.12 1.11 1.08 1.13 1.10 1.13 1.15 1.17 1.19 1.29 PB
 wind 0.5 m/s velocity 4.61 7.59 7.66 7.87 7.52 7.73 7.52 7.39 7.26 7.14 7.79 7.00 7.70 7.59 7.26

Lobe, Ricarda (GER) (1994)

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

Semi-Final 1 - 2017 IAAF World Championships (London, GBR) *Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles*

date 11-Aug-17 time 2.49 3.59 4.63 5.66 6.68 7.66 8.69 9.72 10.76 11.83 13.11 3 / 6
 reaction time 0.147 interval 1.10 1.04 1.03 1.02 0.98 1.03 1.03 1.04 1.07 1.28 3.17 3.03 3.14
 wind 0.5 m/s velocity 5.22 7.73 8.17 8.25 8.33 8.67 8.25 8.25 8.17 7.94 8.20 7.63 8.04 8.42 8.12

Lodree, Ashley (USA) (1985)

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

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

date 22-Jun-03 time 2.58 3.67 4.74 5.80 6.87 7.93 9.03 10.09 11.18 12.28 13.59 6 / 3
 reaction time interval 1.09 1.07 1.06 1.07 1.06 1.10 1.06 1.09 1.10 1.31 3.22 3.23 3.25
 wind 2.3 m/s velocity 5.04 7.80 7.94 8.02 7.94 8.02 7.73 8.02 7.80 7.73 8.02 7.36 7.92 7.89 7.85

Lopes-Schliep, Priscilla (CAN) (1982)

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

FINAL - 2010 IAAF World Indoor Championships (Doha, QAT) *Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships*

date 13-Mar-10 time 2.55 3.58 4.57 5.56 6.54 7.87 5 / 3
 reaction time 0.132 interval 1.03 0.99 0.99 0.98 1.33 3.01
 velocity 5.10 8.25 8.59 8.59 8.67 9.77 7.62 8.47

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

date 19-Aug-09 time 2.56 3.58 4.58 5.57 6.54 7.50 8.47 9.46 10.44 11.46 12.54 6 / 2
 reaction time 0.128 interval 1.02 1.00 0.99 0.97 0.96 0.97 0.99 0.98 1.02 1.08 3.01 2.90 2.99
 wind 0.2 m/s velocity 5.08 8.33 8.50 8.59 8.76 8.85 8.76 8.59 8.67 8.33 9.72 7.97 8.47 8.79 8.53

Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date 19-Aug-09 time 2.58 3.60 4.60 5.59 6.56 7.54 8.51 9.50 10.48 11.52 12.60 3 / 1
 reaction time 0.142 interval 1.02 1.00 0.99 0.97 0.98 0.97 0.99 0.98 1.04 1.08 3.01 2.92 3.01
 wind -0.1 m/s velocity 5.04 8.33 8.50 8.59 8.76 8.67 8.76 8.59 8.67 8.17 9.72 7.94 8.47 8.73 8.47

Heat 4 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date 18-Aug-09 time 2.58 3.60 4.60 5.58 6.56 7.53 8.50 9.48 10.45 11.50 12.56 3 / 1
 reaction time 0.142 interval 1.02 1.00 0.98 0.98 0.97 0.97 0.98 0.97 1.05 1.06 3.00 2.92 3.00
 wind -0.3 m/s velocity 5.04 8.33 8.50 8.67 8.67 8.76 8.76 8.67 8.76 8.10 9.91 7.96 8.50 8.73 8.50

FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date 13-Sep-08 time 2.55 3.60 4.61 5.64 6.66 7.66 8.67 9.68 10.70 11.72 12.81 1 / 5
 reaction time 0.139 interval 1.05 1.01 1.03 1.02 1.00 1.01 1.01 1.02 1.02 1.09 3.09 3.03 3.05
 wind 0.3 m/s velocity 5.10 8.10 8.42 8.25 8.33 8.50 8.42 8.42 8.33 8.33 9.63 7.81 8.25 8.42 8.36

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

date 19-Aug-08 time 2.57 3.63 4.63 5.60 6.60 7.58 8.54 9.53 10.56 11.58 12.64 8 / 3
 reaction time 0.174 interval 1.06 1.00 0.97 1.00 0.98 0.96 0.99 1.03 1.02 1.06 3.03 2.94 3.04
 wind 0.1 m/s velocity 5.06 8.02 8.50 8.76 8.50 8.67 8.85 8.59 8.25 8.33 9.91 7.91 8.42 8.67 8.39

Semi-Final 1 - 2008 Olympic Games (Beijing, CHN)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date 18-Aug-08 time 2.51 3.56 4.58 5.57 6.58 7.54 8.50 9.52 10.57 11.59 12.68 6 / 3
 reaction time 0.159 interval 1.05 1.02 0.99 1.01 0.96 0.96 1.02 1.05 1.02 1.09 3.06 2.93 3.09
 wind 0.2 m/s velocity 5.18 8.10 8.33 8.59 8.42 8.85 8.85 8.33 8.10 8.33 9.63 7.89 8.33 8.70 8.25

López, Aliuska (CUB) (1969)

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

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

date 27-Aug-99 time 2.53 3.55 4.56 5.55 6.54 7.51 8.52 9.54 10.57 11.62 12.83 1 / 5
 reaction time 0.130 interval 1.02 1.01 0.99 0.99 0.97 1.01 1.02 1.03 1.05 1.21 3.02 2.97 3.10
 wind 1.0 m/s velocity 5.14 8.33 8.42 8.59 8.59 8.76 8.42 8.33 8.25 8.10 8.68 7.79 8.44 8.59 8.23

FINAL - 1986 IAAF World Junor Championships (Athens, GRE)*Miskos (1986) - IAAF biomechanical research - Athens 1986 - hurdle races*

date 19-Jul-86 time 2.65 3.70 4.72 5.74 6.78 7.81 8.85 9.87 10.90 11.95 13.14 1 / 2
 reaction time interval 1.05 1.02 1.02 1.04 1.03 1.04 1.02 1.03 1.05 1.19 3.09 3.11 3.10
 wind -0.7 m/s velocity 4.91 8.10 8.33 8.33 8.17 8.25 8.17 8.33 8.25 8.10 8.82 7.61 8.25 8.20 8.23

Lu Xinyue (CHN) (2002)

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

U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (76cm) *CAA Hurdle Development (2019)*

date 14-Aug-19 time 2.79 3.96 5.12 6.26 7.41 8.54 9.71 10.89 12.06 13.28 14.65 3 / 5
 reaction time 0.156 interval 1.17 1.16 1.14 1.15 1.13 1.17 1.18 1.17 1.22 1.37 3.47 3.45 3.57
 wind 0.0 m/s velocity 4.66 7.26 7.33 7.46 7.39 7.52 7.26 7.20 7.26 6.97 7.66 6.83 7.35 7.39 7.14

Lui Lai Yiu (HKG) (1994)

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

FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)

date	07-Jun-19	time	2.66	3.72	4.75	5.77	6.79	7.80	8.82	9.87	10.92	11.99		13.18						CAA Hurdle Development (2019)
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							7 / 2
wind	2.3 m/s	velocity	4.89	8.02	8.25	8.33	8.33	8.42	8.33	8.10	8.10	7.94	8.82	7.59						3.11 3.05 3.17
																				8.20 8.36 8.04

FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)

date	04-Jun-19	time	2.65	3.73	4.78	5.82	6.87	7.90	8.99	10.04	11.11	12.21		13.42						CAA Hurdle Development (2019)
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 / 2
wind	-1.2 m/s	velocity	4.91	7.87	8.10	8.17	8.10	8.25	7.80	8.10	7.94	7.73	8.68	7.45						3.17 3.17 3.22
																				8.04 8.04 7.92

FINAL - 2019 Asian Athletics Championships (Doha, QAT)

date	24-Apr-19	time	2.62	3.65	4.68	5.72	6.74	7.79	8.84	9.89	10.99	12.09		13.32						CAA Hurdle Development (2019)
reaction time	0.132	interval		1.03	1.03	1.04	1.02	1.05	1.05	1.05	1.10	1.10	1.23	PB						5 / 4
wind	1.3 m/s	velocity	4.96	8.25	8.25	8.17	8.33	8.10	8.10	8.10	7.73	7.73	8.54	7.51						3.10 3.12 3.25
																				8.23 8.17 7.85

Heat 2 - 2019 Asian Athletics Championships (Doha, QAT)

date	23-Apr-19	time	2.67	3.70	4.73	5.75	6.79	7.82	8.87	9.94	11.01	12.12		13.35						CAA Hurdle Development (2019)
reaction time	0.131	interval		1.03	1.03	1.02	1.04	1.03	1.05	1.07	1.07	1.11	1.23	NR						5 / 2
wind	1.9 m/s	velocity	4.87	8.25	8.25	8.33	8.17	8.25	8.10	7.94	7.94	7.66	8.54	7.49						3.08 3.12 3.25
																				8.28 8.17 7.85

FINAL - 2017 Chinese National Games (Tianjin, CHN)

date	04-Sep-17	time	2.72	3.82	4.88	5.93	7.01	8.07	9.17	10.26	11.35	12.49		13.74						Henson (2017) - coaching observations
reaction time		interval		1.10	1.06	1.05	1.08	1.06	1.10	1.09	1.09	1.14	1.25							2 / 7
wind	-0.2 m/s	velocity	4.78	7.73	8.02	8.10	7.87	8.02	7.73	7.80	7.80	7.46	8.40	7.28						3.21 3.24 3.32
																				7.94 7.87 7.68

Lukic, Anja (SRB) (1999)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)																				Henson (2020) - Athlete First: 2020 year end hurdle report
date	25-Sep-20	time	2.60	3.66	4.73	5.80	6.83	7.86	8.96	10.03	11.13	12.20		13.48	1 / 7					
reaction time	0.163	interval		1.06	1.07	1.07	1.03	1.03	1.10	1.07	1.10	1.07	1.28							3.20 3.16 3.24
wind	1.1 m/s	velocity	5.00	8.02	7.94	7.94	8.25	8.25	7.73	7.94	7.73	7.94	7.85	7.42						7.97 8.07 7.87

Lun Xinyu (CHN) (1998)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)																				CAA Hurdle Development (2021)
date	25-Jun-21	time	2.75	3.89	5.02	6.15	7.26	8.39	9.53	10.68	11.86	13.06		14.38	7 / 6					
reaction time	0.170	interval		1.14	1.13	1.13	1.11	1.13	1.14	1.15	1.18	1.20	1.32							3.40 3.38 3.53
wind	-0.3 m/s	velocity	4.73	7.46	7.52	7.52	7.66	7.52	7.46	7.39	7.20	7.08	7.61	6.95						7.50 7.54 7.22

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

date	18-Mar-21	time	2.69	3.81	4.93	6.03	7.14													CAA Hurdle Development (2021)
reaction time	0.167	interval		1.12	1.12	1.10	1.11						1.48	PB						2 / 5
		velocity	4.83	7.59	7.59	7.73	7.66						8.78	6.96						3.34
																				7.63

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

date	15-Sep-20	time	2.78	3.94	5.11	6.28	7.45	8.60	9.77	10.95	12.13	13.35		14.69						CAA Hurdle Development (2020)
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 / 7
wind	0.3 m/s	velocity	4.68	7.33	7.26	7.26	7.26	7.39	7.26	7.20	7.20	6.97	7.50	6.81						3.50 3.49 3.58
																				7.29 7.31 7.12

Lundahl, Caroline (SWE) (1991)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2012 Windsprint (Sundsvall, SWE)																				Blomkvist (2012) - www.sub13.se
date	17-Jun-12	time	2.79	3.87	4.94	5.99	7.04	8.15	9.20	10.30	11.42	12.57		13.80	/ 3					
reaction time		interval		1.08	1.07	1.05	1.05	1.11	1.05	1.10	1.12	1.15	1.23							3.20 3.21 3.37
wind	0.8 m/s	velocity	4.66	7.87	7.94	8.10	8.10	7.66	8.10	7.73	7.59	7.39	8.54	7.25						7.97 7.94 7.57

FINAL - 2010 Swedish National Championships (Falun, SWE)

date	22-Aug-10	time	2.83	3.88	4.96	6.04	7.14	8.22	9.35	10.46	11.58	12.72		13.95						Blomkvist (2010) - www.sub13.se
reaction time		interval		1.05	1.08	1.08	1.10	1.08	1.13	1.11	1.12	1.14	1.23							/ 3
wind	-0.2 m/s	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						3.21 3.31 3.37
																				7.94 7.70 7.57

Luo Bin (CHN) (1970)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1993 Chinese National Games (Beijing, CHN)																				Bo (1996) - a study on female 100m hurdles running rhythm in the 7th national games
date	09-Sep-93	time	2.51	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
wind	0.1 m/s	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

Luo Xianyan (CHN) (1997)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
National FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)																				Henson (2023) - Athlete First: 2023 year end hurdle report
date	02-Sep-23	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
wind	0.1 m/s	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

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

date	22-Sep-21	time	2.53	3.60	4.64	5.68	6.70	7.73	8.77	9.83	10.90	11.97		13.25						CAA Hurdle Development (2021)
reaction time	0.149	interval		1.07	1.04	1.04	1.02	1.03	1.04	1.06	1.07	1.07	1.28	PB						2 / 5
																				3.15 3.09 3.20

															133 of 250	W100H athlete				
wind	0.1 m/s	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		
Semi-Final 3 - 2021 Chinese National Games (Xi'an, CHN)															<i>CAA Hurdle Development (2021)</i>					
date	21-Sep-21	time	2.53	3.61	4.66	5.68	6.70	7.72	8.78	9.84	10.89	12.00		13.31		3 / 4				
reaction time	0.143	interval		1.08	1.05	1.02	1.02	1.02	1.06	1.06	1.05	1.11	1.31	PB			3.15	3.10	3.22	
wind	0.1 m/s	velocity	5.14	7.87	8.10	8.33	8.33	8.33	8.02	8.10	7.66	7.67		7.51			8.10	8.23	7.92	
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)															<i>CAA Hurdle Development (2021)</i>					
date	25-Jun-21	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	
wind	-1.8 m/s	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	
Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)															<i>CAA Hurdle Development (2021)</i>					
date	12-Jun-21	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	
wind	-0.2 m/s	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	
FINAL - 2021 Chinese East Region Athletics Meeting (Fuzhou, CHN)															<i>CAA Hurdle Development (2021)</i>					
date	23-May-21	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	
wind	-0.5 m/s	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	
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)															<i>CAA Hurdle Development (2021)</i>					
date	24-Apr-21	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	
wind	-0.8 m/s	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	
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)															<i>CAA Hurdle Development (2021)</i>					
date	24-Apr-21	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	
wind	0.6 m/s	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	
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)															<i>CAA Hurdle Development (2021)</i>					
date	08-Apr-21	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	
wind	-0.1 m/s	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	
FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)															<i>CAA Hurdle Development (2021)</i>					
date	18-Mar-21	time	2.66	3.74	4.79	5.84	6.87							8.34		6 / 3				
reaction time	0.168	interval		1.08	1.05	1.05	1.03							1.47	PB			3.18		
		velocity	4.89	7.87	8.10	8.10	8.25							8.84	7.19			8.02		
B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)															<i>CAA Hurdle Development (2021)</i>					
date	13-Mar-21	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		
Heat 2 - 2021 National Indoor Grand Prix (Chengdu, CHN)															<i>CAA Hurdle Development (2021)</i>					
date	13-Mar-21	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		
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)															<i>CAA Hurdle Development (2020)</i>					
date	15-Sep-20	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
wind	-0.6 m/s	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
Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)															<i>CAA Hurdle Development (2019)</i>					
date	02-Aug-19	time	2.75	3.85	4.94	6.02	7.08	8.14	9.22	10.31	11.39	12.49		13.72		8 / 5				
reaction time	0.168	interval		1.10	1.09	1.08	1.06	1.06	1.08	1.09	1.08	1.10	1.23					3.27	3.20	3.27
wind	-0.3 m/s	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
Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)															<i>CAA Hurdle Development (2019)</i>					
date	08-Jul-19	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
wind	0.7 m/s	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
FINAL - 2019 Chinese National Grand Prix 3 (Jinhai, CHN)															<i>CAA Hurdle Development (2019)</i>					
date	23-May-19	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
wind	0.4 m/s	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
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)															<i>CAA Hurdle Development (2019)</i>					

date	13-Apr-19	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	PB		3.22	3.15	3.26	
wind	0.3 m/s	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	
Heat 3 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																<i>CAA Hurdle Development (2019)</i>			
date	13-Apr-19	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	PB		3.20	3.15	3.28	
wind	1.0 m/s	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	
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																<i>CAA Hurdle Development (2019)</i>			
date	09-Apr-19	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	
wind	0.1 m/s	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	
Heat 4 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																<i>CAA Hurdle Development (2019)</i>			
date	08-Apr-19	time	2.72	3.82	4.90	5.97	7.04	8.11	9.18	10.28	11.40	12.50		13.78	2 / 2				
reaction time	0.181	interval		1.10	1.08	1.07	1.07	1.07	1.07	1.10	1.12	1.10	1.28			3.25	3.21	3.32	
wind	0.1 m/s	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	
B-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)																<i>CAA Hurdle Development (2019)</i>			
date	20-Mar-19	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			
A-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)																<i>CAA Hurdle Development (2019)</i>			
date	24-Feb-19	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 - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)																<i>CAA Hurdle Development (2019)</i>			
date	20-Feb-19	time	2.70	3.82	4.92	6.02	7.11							8.62	4 / 3				
reaction time		interval		1.12	1.10	1.10	1.09						1.51			3.32			
		velocity	4.81	7.59	7.73	7.73	7.80						8.61	6.96		7.68			
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)																<i>Henson (2018) - coaching observations</i>			
date	15-Sep-18	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	
wind	-0.6 m/s	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	
Lüppert Thomsson, Frida (SWE) (1995)																			
FINAL - 2010 Windsprint (Sundsvall, SWE)																<i>Blomkvist (2010) - 100/110m Hurdles: Development</i>			
date	08-Aug-10	time	2.83	3.99	5.16	6.29	7.44	8.62	9.80	11.01	12.25	13.50		14.94	/ 6				
reaction time		interval		1.16	1.17	1.13	1.15	1.18	1.18	1.21	1.24	1.25	1.44			3.46	3.51	3.70	
wind	0.6 m/s	velocity	4.59	7.33	7.26	7.52	7.39	7.20	7.20	7.02	6.85	6.80	7.29	6.69		7.37	7.26	6.89	
Ma Shiqi (CHN) (2001)																			
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN)																<i>CAA Hurdle Development (2019)</i>			
date	14-Aug-19	time	2.75	3.87	5.04	6.19	7.36	8.54	9.73	10.93	12.14	13.40		14.74	7 / 4				
reaction time	0.152	interval		1.12	1.17	1.15	1.17	1.18	1.19	1.20	1.21	1.26	1.34	PB		3.44	3.54	3.67	
wind	0.0 m/s	velocity	4.73	7.59	7.26	7.39	7.26	7.20	7.14	7.08	7.02	6.75	7.84	6.78		7.41	7.20	6.95	
Macchiuti, Margaret (ITA) (1974)																			
FINAL - 2001 European Cup (Bremen, GER)																<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>			
date	24-Jun-01	time	2.69	3.76	4.84	5.87	6.91	7.92	8.96	9.98	11.03	12.10		13.23	/ 5				
reaction time	0.128	interval		1.07	1.08	1.03	1.04	1.01	1.04	1.02	1.05	1.07	1.13			3.18	3.09	3.14	
wind	0.6 m/s	velocity	4.83	7.94	7.87	8.25	8.17	8.42	8.17	8.33	8.10	7.94	9.29	7.56		8.02	8.25	8.12	
Mächtigt, Julia (GER) (1986)																			
Heptathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)																<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>			
date	15-Aug-09	time	2.77	3.92	5.08	6.24	7.38	8.52	9.67	10.84	12.03	13.21		14.40	5 / 4				
reaction time	0.171	interval		1.15	1.16	1.16	1.14	1.14	1.15	1.17	1.19	1.18	1.19			3.47	3.43	3.54	
wind	-0.1 m/s	velocity	4.69	7.39	7.33	7.33	7.46	7.46	7.39	7.26	7.14	7.20	8.82	6.94		7.35	7.43	7.20	
Maeda, Mitsuki (JPN) (2004)																			
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)																<i>Kishima (2022) - national high school championships biomechanics data collection</i>			
date	07-Aug-22	time	2.69	3.78	4.88	5.99	7.09	8.20	9.31	10.44	11.57	12.72		13.96	9 / 4				
reaction time	0.169	interval		1.09	1.10	1.11	1.10	1.11	1.11	1.13	1.13	1.15	1.24			3.30	3.32	3.41	
wind	-1.5 m/s	velocity	4.83	7.80	7.73	7.66	7.73	7.66	7.66	7.52	7.52	7.39	8.10	7.16		7.73	7.68	7.48	
Magee, Paige (USA) (2002)																			
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	28-Jun-24	time	2.77	3.87	4.92	5.95	6.98	8.02	9.07	10.12	11.18	12.23		13.41	9 / 6				
reaction time		interval		1.10	1.05	1.03	1.03	1.04	1.05	1.05	1.06	1.05	1.18			3.18	3.12	3.16	

wind	0.2 m/s	velocity	4.69	7.73	8.10	8.25	8.25	8.17	8.10	8.10	8.02	8.10	8.52	7.46		8.02	8.17	8.07
Magnusson, Emma (SWE) (1985)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2010 Swedish National Championships (Falun, SWE)													<i>Blomkvist (2010) - www.sub13.se</i>					
date	22-Aug-10	time	2.87	3.99	5.09	6.19	7.27	8.36	9.48	10.59	11.73	12.94		14.26	/ 4			
reaction time	0.261	interval		1.12	1.10	1.10	1.08	1.09	1.12	1.11	1.14	1.21	1.32			3.32	3.29	3.46
wind	-0.2 m/s	velocity	4.53	7.59	7.73	7.73	7.87	7.80	7.59	7.66	7.46	7.02	7.95	7.01		7.68	7.75	7.37
Majerová, Denisa (CZE) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)													<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	3.03	4.23	5.41	6.63	7.85	9.07	10.30	11.53	12.78	14.10		15.55	5 / 5			
reaction time	0.261	interval		1.20	1.18	1.22	1.22	1.22	1.23	1.23	1.25	1.32	1.45			3.60	3.67	3.80
wind	-1.3 m/s	velocity	4.29	7.08	7.20	6.97	6.97	6.97	6.91	6.91	6.80	6.44	7.24	6.43		7.08	6.95	6.71
Majewska, Marika (POL) (2002)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat A - 2024 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2024) - diamond league race analysis</i>					
date	25-Aug-24	time	2.55	3.61	4.64	5.65	6.65	7.64	8.65	9.69	10.76	11.84		13.15	9 / 6			
reaction time	0.155	interval		1.06	1.03	1.01	1.00	0.99	1.01	1.04	1.07	1.08	1.31			3.10	3.00	3.19
wind	-0.3 m/s	velocity	5.10	8.02	8.25	8.42	8.50	8.59	8.42	8.17	7.94	7.87	7.67	7.60		8.23	8.50	7.99
Májová, Veronika (CZE) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)													<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.88	4.09	5.31	6.55	7.85	9.14	10.57	11.95	13.37	14.79		16.40	4 / 5			
reaction time	0.168	interval		1.21	1.22	1.24	1.30	1.29	1.43	1.38	1.42	1.42	1.61			3.67	4.02	4.22
wind	-7.3 m/s	velocity	4.51	7.02	6.97	6.85	6.54	6.59	5.94	6.16	5.99	5.99	6.52	6.10		6.95	6.34	6.04
Makakala, Fatima (SWE) (1989)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2011 Windsprint (Sundsvall, SWE)													<i>Blomkvist (2011) - www.sub13.se</i>					
date	31-Jul-11	time	2.70	3.76	4.82	5.90	6.97	8.05	9.13	10.26	11.40	12.54		13.78	/ 4			
reaction time		interval		1.06	1.06	1.08	1.07	1.08	1.08	1.13	1.14	1.14	1.24			3.20	3.23	3.41
wind	1.4 m/s	velocity	4.81	8.02	8.02	7.87	7.94	7.87	7.87	7.52	7.46	7.46	8.47	7.26		7.97	7.89	7.48
Malá, Patricie (CZE) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)													<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.98	4.25	5.56	6.87	8.25	9.65	11.07	12.51	14.14	15.75		17.31	3 / 7			
reaction time	0.141	interval		1.27	1.31	1.31	1.38	1.40	1.42	1.44	1.63	1.61	1.56			3.89	4.20	4.68
wind	-7.3 m/s	velocity	4.36	6.69	6.49	6.49	6.16	6.07	5.99	5.90	5.21	5.28	6.73	5.78		6.56	6.07	5.45
Mamona, Patrícia (POR) (1988)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Race 1 - 2011 European Team Championships (Stockholm, SWE)													<i>Blomkvist (2011) - www.sub13.se</i>					
date	19-Jun-11	time	2.74	3.80	4.88	6.00	7.08	8.20	9.30	10.42	11.56	12.80		14.30	/ 6			
reaction time	0.196	interval		1.06	1.08	1.12	1.08	1.12	1.10	1.12	1.14	1.24	1.50			3.26	3.30	3.50
wind	-1.0 m/s	velocity	4.74	8.02	7.87	7.59	7.87	7.59	7.73	7.59	7.46	6.85	7.00	6.99		7.82	7.73	7.29
Mardomingo, María José (ESP) (1969)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)													<i>Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas</i>					
date	01-Aug-98	time	2.59	3.65	4.67	5.69	6.74	7.76	8.79	9.87	10.96	12.09		13.37	5 / 1			
reaction time		interval		1.06	1.02	1.02	1.05	1.02	1.03	1.08	1.09	1.13	1.28			3.10	3.10	3.30
wind	0.0 m/s	velocity	5.02	8.02	8.33	8.33	8.10	8.33	8.25	7.87	7.80	7.52	8.20	7.48		8.23	8.23	7.73
FINAL - 1989 IAAF World Cup (Barcelona, ESP)													<i>Gill (1990) - atletismo (I) carreras y marcha</i>					
date	09-Sep-89	time	2.71	3.78	4.85	5.93	7.01	8.14	9.26	10.38	11.48	12.58		13.76	/ 7			
reaction time		interval		1.07	1.07	1.08	1.08	1.13	1.12	1.12	1.10	1.10	1.18			3.22	3.33	3.32
wind	-0.33 m/s	velocity	4.80	7.94	7.94	7.87	7.87	7.52	7.59	7.59	7.73	7.73	8.90	7.27		7.92	7.66	7.68
Marshall, Tonia (USA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2024 Memorial van damme (Brussels, BEL)													<i>Omega Timing (2024) - diamond league race analysis</i>					
date	14-Sep-24	time	2.51	3.54	4.54	5.53	6.52	7.51	8.49	9.49	10.51	11.54		12.71	1 / 6			
reaction time	0.128	interval		1.03	1.00	0.99	0.99	0.99	0.98	1.00	1.02	1.03	1.17			3.02	2.96	3.05
wind	0.4 m/s	velocity	5.18	8.25	8.50	8.59	8.59	8.59	8.67	8.50	8.33	8.25	8.59	7.87		8.44	8.61	8.36
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2024) - diamond league race analysis</i>					
date	25-Aug-24	time	2.39	3.43	4.41	5.39	6.35	7.35	8.37	9.40	10.42	11.47		12.76	9 / 9			
reaction time	0.149	interval		1.04	0.98	0.98	0.96	1.00	1.02	1.03	1.02	1.05	1.29			3.00	2.98	3.10
wind	-0.5 m/s	velocity	5.44	8.17	8.67	8.67	8.85	8.50	8.33	8.25	8.33	8.10	7.79	7.84		8.50	8.56	8.23
Heat B - 2024 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2024) - diamond league race analysis</i>					
date	25-Aug-24	time	2.37	3.37	4.35	5.33	6.28	7.23	8.21	9.22	10.23	11.27		12.52	8 / 4			
reaction time	0.126	interval		1.00	0.98	0.98	0.95	0.95	0.98	1.01	1.01	1.04	1.25			2.96	2.88	3.06
wind	0.6 m/s	velocity	5.49	8.50	8.67	8.67	8.95	8.95	8.67	8.42	8.42	8.17	8.04	7.99		8.61	8.85	8.33
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	30-Jun-24	time	2.48	3.50	4.47	5.44	6.39	7.33	8.28	9.26	10.25	11.26		12.38	6 / 5			

reaction time		interval	1.02	0.97	0.97	0.95	0.94	0.95	0.98	0.99	1.01	1.12			2.96	2.84	2.98	
wind	0.7 m/s	velocity	5.24	8.33	8.76	8.76	8.95	9.04	8.95	8.67	8.59	8.42	8.97	8.08	8.61	8.98	8.56	
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	29-Jun-24	time	2.50	3.50	4.48	5.44	6.39	7.34	8.29	9.26	10.24	11.24		12.36	5 / 2			
reaction time		interval	1.00	0.98	0.96	0.95	0.95	0.95	0.97	0.98	1.00	1.12	PB			2.94	2.85	2.95
wind	1.0 m/s	velocity	5.20	8.50	8.67	8.85	8.95	8.95	8.95	8.76	8.67	8.50	8.97	8.09		8.67	8.95	8.64
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	28-Jun-24	time	2.45	3.47	4.43	5.42	6.39	7.35	8.29	9.26	10.25	11.26		12.41	5 / 1			
reaction time		interval	1.02	0.96	0.99	0.97	0.96	0.94	0.97	0.99	1.01	1.15	PB			2.97	2.87	2.97
wind	1.7 m/s	velocity	5.31	8.33	8.85	8.59	8.76	8.85	9.04	8.76	8.59	8.42	8.74	8.06		8.59	8.89	8.59
FINAL - 2024 Prefontaine Classic (Eugene, OR)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	25-May-24	time	2.38	3.41	4.41	5.41	6.39	7.36	8.34	9.33	10.31	11.33		12.55	4 / 3			
reaction time	0.128	interval	1.03	1.00	1.00	0.98	0.97	0.98	0.99	0.98	1.02	1.22				3.03	2.93	2.99
wind	-0.9 m/s	velocity	5.46	8.25	8.50	8.50	8.67	8.76	8.67	8.59	8.67	8.33	8.24	7.97		8.42	8.70	8.53
FINAL - 2024 Seashore Doha Meeting (Doha, QAT) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	10-May-24	time	2.50	3.50	4.49	5.47	6.43	7.38	8.34	9.34	10.34	11.35		12.51	6 / 2			
reaction time	0.119	interval	1.00	0.99	0.98	0.96	0.95	0.96	1.00	1.00	1.01	1.16				2.97	2.87	3.01
wind	1.7 m/s	velocity	5.20	8.50	8.59	8.67	8.85	8.95	8.85	8.50	8.50	8.42	8.66	7.99		8.59	8.89	8.47
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	08-Jul-23	time	2.51	3.54	4.54	5.52	6.48	7.45	8.42	9.41	10.42	11.44		12.63	5 / 6			
reaction time		interval	1.03	1.00	0.98	0.96	0.97	0.97	0.99	1.01	1.02	1.19				3.01	2.90	3.02
wind	0.4 m/s	velocity	5.18	8.25	8.50	8.67	8.85	8.76	8.76	8.59	8.42	8.33	8.45	7.92		8.47	8.79	8.44
FINAL - 2023 USATF Los Angeles Grand Prix (Westwood, CA) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	27-May-23	time	2.48	3.52	4.50	5.48	6.46	7.44	8.42	9.40	10.41	11.42		12.55	8 / 5			
reaction time	0.202	interval	1.04	0.98	0.98	0.98	0.98	0.98	0.98	1.01	1.01	1.13				3.00	2.94	3.00
wind	-0.2 m/s	velocity	5.24	8.17	8.67	8.67	8.67	8.67	8.67	8.67	8.42	8.42	8.89	7.97		8.50	8.67	8.50
FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	21-May-23	time	2.50	3.52	4.49	5.46	6.42	7.37	8.32	9.29	10.26	11.26		12.39	3 / 3			
reaction time	0.176	interval	1.02	0.97	0.97	0.96	0.95	0.95	0.97	0.97	1.00	1.13				2.96	2.86	2.94
wind	3.5 m/s	velocity	5.20	8.33	8.76	8.76	8.85	8.95	8.95	8.76	8.76	8.50	8.89	8.07		8.61	8.92	8.67
FINAL - 2023 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	05-May-23	time	2.56	3.60	4.60	5.58	6.56	7.56	8.54	9.52	10.52	11.60		12.79	2 / 5			
reaction time	0.129	interval	1.04	1.00	0.98	0.98	1.00	0.98	0.98	1.00	1.08	1.19				3.02	2.96	3.06
wind	1.1 m/s	velocity	5.08	8.17	8.50	8.67	8.67	8.50	8.67	8.67	8.50	7.87	8.45	7.82		8.44	8.61	8.33
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	25-Jun-22	time	2.50	3.50	4.48	5.45	6.42	7.40	8.40	9.38	10.38	11.40		12.55	3 / 4			
reaction time		interval	1.00	0.98	0.97	0.97	0.98	1.00	0.98	1.00	1.02	1.15				2.95	2.95	3.00
wind	-1.4 m/s	velocity	5.20	8.50	8.67	8.76	8.76	8.67	8.50	8.67	8.50	8.33	8.74	7.97		8.64	8.64	8.50
FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	28-May-22	time	2.46	3.49	4.49	5.48	6.47	7.45	8.43	9.43	10.43	11.47		12.66	4 / 3			
reaction time	0.127	interval	1.03	1.00	0.99	0.99	0.98	0.98	1.00	1.00	1.04	1.19				3.02	2.95	3.04
wind	-0.7 m/s	velocity	5.28	8.25	8.50	8.59	8.59	8.67	8.67	8.50	8.50	8.17	8.45	7.90		8.44	8.64	8.39
FINAL - 2022 Golden Games (Walnut, CA) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	22-Apr-22	time	2.50	3.50	4.50	5.46	6.42	7.38	8.34	9.32	10.30	11.30		12.46	6 / 1			
reaction time		interval	1.00	1.00	0.96	0.96	0.96	0.96	0.96	0.98	0.98	1.00	1.16			2.96	2.88	2.96
wind	0.8 m/s	velocity	5.20	8.50	8.50	8.85	8.85	8.85	8.85	8.67	8.67	8.50	8.66	8.03		8.61	8.85	8.61
Invitational FINAL - 2022 Texas Relays (Austin, TX) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	26-Mar-22	time	2.50	3.50	4.47	5.42	6.36	7.32	8.29	9.29	10.28	11.29		12.45	6 / 3			
reaction time		interval	1.00	0.97	0.95	0.94	0.96	0.97	1.00	0.99	1.01	1.16				2.92	2.87	3.00
wind	3.9 m/s	velocity	5.20	8.50	8.76	8.95	9.04	8.85	8.76	8.50	8.59	8.42	8.66	8.03		8.73	8.89	8.50
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	20-Jun-21	time	2.40	3.42	4.40	5.39	6.37	7.34	8.32	9.32	10.32	11.36		12.63	5 / 6			
reaction time	0.130	interval	1.02	0.98	0.99	0.98	0.97	0.98	1.00	1.00	1.04	1.27				2.99	2.93	3.04
wind	0.8 m/s	velocity	5.42	8.33	8.67	8.59	8.67	8.76	8.67	8.50	8.50	8.17	7.91	7.92		8.53	8.70	8.39
Semi Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	20-Jun-21	time	2.38	3.38	4.36	5.33	6.29	7.25	8.23	9.20	10.21	11.23		12.50	2 / 1			
reaction time	0.137	interval	1.00	0.98	0.97	0.96	0.96	0.98	0.97	1.01	1.02	1.27				2.95	2.90	3.00
wind	1.2 m/s	velocity	5.46	8.50	8.67	8.76	8.85	8.85	8.67	8.76	8.42	8.33	7.91	8.00		8.64	8.79	8.50

Semi Final 2 - 2021 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	10-Jun-21	time	2.40	3.40	4.40	5.37	6.33	7.30	8.29	9.27	10.27	11.27	12.48	5 / 1				
reaction time	0.114	interval		1.00	1.00	0.97	0.96	0.97	0.99	0.98	1.00	1.00	1.21		2.97	2.92	2.98	
wind	-0.5 m/s	velocity	5.42	8.50	8.50	8.76	8.85	8.76	8.59	8.67	8.50	8.50	8.31	8.01	8.59	8.73	8.56	

Quarter Final 1 - 2021 NCAA Championships Preliminary East Round (Jacksonville, FL) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	29-May-21	time	2.40	3.40	4.36	5.32	6.30	7.27	8.23	9.20	10.22	11.24	12.44	5 / 1				
reaction time		interval		1.00	0.96	0.96	0.98	0.97	0.96	0.97	1.02	1.02	1.20	PB	2.92	2.91	3.01	
wind	0.8 m/s	velocity	5.42	8.50	8.85	8.85	8.67	8.76	8.85	8.76	8.33	8.33	8.38	8.04	8.73	8.76	8.47	

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

date	27-Jul-19	time	2.50	3.50	4.47	5.50	6.47	7.47	8.47	9.47	10.47	11.54	12.81	8 / 6				
reaction time		interval		1.00	0.97	1.03	0.97	1.00	1.00	1.00	1.00	1.07	1.27		3.00	2.97	3.07	
wind	-1.2 m/s	velocity	5.20	8.50	8.76	8.25	8.76	8.50	8.50	8.50	8.50	7.94	8.27	7.81	8.50	8.59	8.31	

FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	08-Jun-19	time	2.46	3.54	4.53	5.51	6.49	7.47	8.45	9.43	10.45	11.47	12.66	5 / 3				
reaction time	0.125	interval		1.08	0.99	0.98	0.98	0.98	0.98	0.98	1.02	1.02	1.19	PB	3.05	2.94	3.02	
wind	0.6 m/s	velocity	5.28	7.87	8.59	8.67	8.67	8.67	8.67	8.67	8.33	8.33	8.82	7.90	8.36	8.67	8.44	

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

date	09-Jun-18	time	2.53	3.56	4.60	5.63	6.63	7.63	8.66	9.70	10.73	11.80	13.09	1 / 6				
reaction time		interval		1.03	1.04	1.03	1.00	1.00	1.03	1.04	1.03	1.07	1.29		3.10	3.03	3.14	
wind	0.9 m/s	velocity	5.14	8.25	8.17	8.25	8.50	8.50	8.25	8.17	8.25	7.94	8.14	7.64	8.23	8.42	8.12	

Martin, LaVonna (USA) (1966)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Quarter-Final 1 - 1992 Olympic Games (Barcelona, ESP)***Lyle - miscellaneous coaching notes*

date	05-Aug-92	time	2.55	3.58	4.54	5.49	6.45	7.42	8.43	9.46	10.51	11.61	12.82	5 / 1				
reaction time		interval		1.03	0.96	0.95	0.96	0.97	1.01	1.03	1.05	1.10	1.21		2.94	2.94	3.18	
wind	-1.5 m/s	velocity	5.10	8.25	8.85	8.95	8.85	8.76	8.42	8.25	8.10	7.73	8.68	7.80	8.67	8.67	8.02	

Heat 4 - 1992 Olympic Games (Barcelona, ESP)*Lyle - miscellaneous coaching notes*

date	05-Aug-92	time	2.66	3.66	4.65	5.63	6.62	7.62	8.61	9.60	10.63	11.70	12.82	7 / 1				
reaction time		interval		1.00	0.99	0.98	0.99	1.00	0.99	0.99	1.03	1.07	1.12		2.97	2.98	3.09	
wind	0.0 m/s	velocity	4.89	8.50	8.59	8.67	8.59	8.50	8.59	8.59	8.25	7.94	9.37	7.80	8.59	8.56	8.25	

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

date	29-Sep-88	time	2.63	3.69	4.72	5.77	6.80	7.84	8.89	9.93	11.01	12.09	13.29	8 / 7				
reaction time	0.158	interval		1.06	1.03	1.05	1.03	1.04	1.05	1.04	1.08	1.08	1.20		3.14	3.12	3.20	
wind	0.5 m/s	velocity	4.94	8.02	8.25	8.10	8.25	8.17	8.10	8.17	7.87	7.87	8.75	7.52	8.12	8.17	7.97	

Masuda, Ayana (JPN) (2002)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)***Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data*

date	08-Aug-19	time	2.68	3.81	4.91	6.01	7.12	8.25	9.42	10.59	11.79	13.02	14.34	2 / 4				
reaction time		interval		1.13	1.10	1.10	1.11	1.13	1.17	1.17	1.20	1.23	1.32		3.33	3.41	3.60	
wind	-4.1 m/s	velocity	4.85	7.52	7.73	7.73	7.66	7.52	7.26	7.26	7.08	6.91	7.95	6.97	7.66	7.48	7.08	

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

date	07-Oct-18	time	2.67	3.79	4.90	6.00	7.10	8.20	9.32	10.43	11.57	12.73	14.07	2 / 8				
reaction time	0.127	interval		1.12	1.11	1.10	1.10	1.10	1.12	1.11	1.14	1.16	1.34		3.33	3.32	3.41	
wind	2.0 m/s	velocity	4.87	7.59	7.66	7.73	7.73	7.73	7.59	7.66	7.46	7.33	7.84	7.11	7.66	7.68	7.48	

Matsuda, Anna (JPN) (2006)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)***Takashima (2024) - national high school sports festival - biomechanics data*

date	01-Aug-24	time	2.71	3.78	4.85	5.92	6.99	8.08	9.20	10.34	11.48	12.69	13.94	3 / 7				
reaction time	0.185	interval		1.07	1.07	1.07	1.07	1.09	1.12	1.14	1.14	1.21	1.25		3.21	3.28	3.49	
wind	1.0 m/s	velocity	4.80	7.94	7.94	7.94	7.94	7.80	7.59	7.46	7.46	7.02	8.04	7.17	7.94	7.77	7.31	

Matsuda, Kako (JPN) (2003)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****U18 FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (76cm)***Enomoto (2019) - research on athlete performance and technique- 2019 data book*

date	06-Oct-19	time	2.68	3.78	4.87	5.94	7.02	8.13	9.23	10.34	11.49	12.68	13.97	8 / 7				
reaction time	0.159	interval		1.10	1.09	1.07	1.08	1.11	1.10	1.11	1.15	1.19	1.29		3.26	3.29	3.45	
wind	1.6 m/s	velocity	4.85	7.73	7.80	7.94	7.87	7.66	7.73	7.66	7.39	7.14	8.14	7.16	7.82	7.75	7.39	

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

date	07-Oct-18	time	2.67	3.76	4.85	5.92	6.99	8.07	9.18	10.28	11.40	12.53	13.80	7 / 4				
reaction time	0.152	interval		1.09	1.09	1.07	1.07	1.08	1.11	1.10	1.12	1.13	1.27		3.25	3.26	3.35	
wind	2.0 m/s	velocity	4.87	7.80	7.80	7.94	7.94	7.87	7.66	7.73	7.59	7.52	8.27	7.25	7.85	7.82	7.61	

Matsuo, Miika (JPN) (1995)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)***(2017) - tfdata-store.com/2017/05/13/post-441/*

date	11-May-17	time	2.73	3.84	4.97	6.09	7.23	8.36	9.47	10.60	11.74	12.95		14.27	5 / 8			
reaction time		interval		1.11	1.13	1.12	1.14	1.13	1.11	1.13	1.14	1.21	1.32			3.36	3.38	3.48
wind	-1.2 m/s	velocity	4.76	7.66	7.52	7.59	7.46	7.52	7.66	7.52	7.46	7.02	7.95	7.01		7.59	7.54	7.33
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>				
date	06-Apr-17	time	2.73	3.85	4.96	6.05	7.15	8.25	9.35	10.46	11.59	12.73		14.01	4 / 1			
reaction time		interval		1.12	1.11	1.09	1.10	1.10	1.10	1.11	1.13	1.14	1.28			3.32	3.30	3.38
wind	-1.8 m/s	velocity	4.76	7.59	7.66	7.80	7.73	7.73	7.73	7.66	7.52	7.46	8.20	7.14		7.68	7.73	7.54
Matthews, Brenda (NZL) (1949)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 1972 Olympic Games (Munich, FRG)														<i>Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften</i>				
date	04-Sep-72	time	2.5				6.9							13.81	4 / 5			
reaction time		interval					4.36											
wind	-0.6 m/s	velocity	5.12				7.80							7.24				
Matysková, Ludmila (CZE) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)														<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>				
date	15-Jun-13	time	2.94	4.18	5.38	6.61	7.85	9.07	10.32	11.55	12.82	14.07		15.50	2 / 4			
reaction time	0.143	interval		1.24	1.20	1.23	1.24	1.22	1.25	1.23	1.27	1.25	1.43			3.67	3.71	3.75
wind	-1.8 m/s	velocity	4.42	6.85	7.08	6.91	6.85	6.97	6.80	6.91	6.69	6.80	7.34	6.45		6.95	6.87	6.80
Mayer, Isabel (GER) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	04-Sep-22	time	2.60	3.68	4.72	5.72	6.76	7.78	8.82	9.88	10.94	12.02		13.24	1 / 5			
reaction time	0.153	interval		1.08	1.04	1.00	1.04	1.02	1.04	1.06	1.06	1.08	1.22	PB		3.12	3.10	3.20
wind	-0.3 m/s	velocity	5.00	7.87	8.17	8.50	8.17	8.33	8.17	8.02	8.02	7.87	8.24	7.55		8.17	8.23	7.97
FINAL - 2020 Galà dei Castelli (Bellinzona, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	15-Sep-20	time	2.68	3.78	4.86	5.94	7.00	8.08	9.14	10.24	11.36	12.50		13.81	8 / 7			
reaction time		interval		1.10	1.08	1.08	1.06	1.08	1.06	1.10	1.12	1.14	1.31			3.26	3.20	3.36
wind	0.0 m/s	velocity	4.85	7.73	7.87	7.87	8.02	7.87	8.02	7.73	7.59	7.46	7.67	7.24		7.82	7.97	7.59
Maynard, Sonia (GBR) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 1985 European Junior Championships (Cottbus, GDR)														<i>Warburton (1985) - 1985 european junior championships - hurdles</i>				
date	23-Aug-85	time	2.58	3.70	4.85	5.89	7.00	8.20	9.30	10.55	11.64	12.77		14.40	/ 8			
reaction time		interval		1.12	1.15	1.04	1.11	1.20	1.10	1.25	1.09	1.13	1.63			3.31	3.41	3.47
wind	1.3 m/s	velocity	5.04	7.59	7.39	8.17	7.66	7.08	7.73	6.80	7.80	7.52	6.44	6.94		7.70	7.48	7.35
Heat 2 - 1985 European Junior Championships (Cottbus, GDR)														<i>Warburton (1985) - 1985 european junior championships - hurdles</i>				
date	23-Aug-85	time	2.58	3.70	4.74	5.81	6.88	7.93	9.09	10.15	11.28	12.37		13.86	/ 4			
reaction time		interval		1.12	1.04	1.07	1.07	1.05	1.16	1.06	1.13	1.09	1.49			3.23	3.28	3.28
wind	0.6 m/s	velocity	5.04	7.59	8.17	7.94	7.94	8.10	7.33	8.02	7.52	7.80	7.05	7.22		7.89	7.77	7.77
McCray, Yolanda (USA) (1976)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 USATF National Championships (Palo Alto, CA)														<i>USATF Women's Sprint Development (2003)</i>				
date	22-Jun-03	time	2.62	3.65	4.70	5.73	6.72	7.74	8.76	9.78	10.83	11.89		13.17	8 / 7 6			
reaction time		interval		1.03	1.05	1.03	0.99	1.02	1.02	1.02	1.05	1.06	1.28			3.11	3.03	3.13
wind	-0.1 m/s	velocity	4.96	8.25	8.10	8.25	8.59	8.33	8.33	8.33	8.10	8.02	8.20	7.59		8.20	8.42	8.15
McGrew, Ashleigh (USA) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2005 USATF National Junior Championships (Carson, CA)														<i>USATF Women's Sprint Development (2005)</i>				
date	23-Jun-05	time	2.69	3.91	4.99	6.14	7.23	8.33	9.44	10.58	11.67	12.76		14.14	6 / 4			
reaction time		interval		1.22	1.08	1.15	1.09	1.10	1.11	1.14	1.09	1.09	1.38			3.45	3.30	3.32
wind	-0.7 m/s	velocity	4.83	6.97	7.87	7.39	7.80	7.73	7.66	7.46	7.80	7.80	7.61	7.07		7.39	7.73	7.68
McKelvy-Jones, Miesha (USA) (1976)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 USATF National Championships (Palo Alto, CA)														<i>USATF Women's Sprint Development (2003)</i>				
date	22-Jun-03	time	2.50	3.55	4.55	5.52	6.52	7.47	8.46	9.44	10.44	11.46		12.62	6 / 2			
reaction time		interval		1.05	1.00	0.97	1.00	0.95	0.99	0.98	1.00	1.02	1.16			3.02	2.94	3.00
wind	-0.1 m/s	velocity	5.20	8.10	8.50	8.76	8.50	8.95	8.59	8.67	8.50	8.33	9.05	7.92		8.44	8.67	8.50
McLaughlin-Levrone, Sydney (USA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Oxy Invitational (Eagle Rock, CA) (TV Analysis)														<i>Henson (2024) Athlete First: 2024 Sydney McLaughlin-Levrone 400m Hurdles World Record Season</i>				
date	04-May-24	time	2.55	3.58	4.58	5.56	6.53	7.53	8.51	9.52	10.53	11.53		12.71	4 / 1			
reaction time		interval	7 steps	1.03	1.00	0.98	0.97	1.00	0.98	1.01	1.01	1.00	1.18			3.01	2.95	3.02
wind	-0.4 m/s	velocity	5.10	8.25	8.50	8.67	8.76	8.50	8.67	8.42	8.42	8.50	8.52	7.87		8.47	8.64	8.44
McLaughlin, Sydney (USA) (1999)														<i>Henson (2022) - Athlete First: 2022 Sydney McLaughlin 400m hurdles world record season</i>				
date	30-Apr-22	time	2.50	3.54	4.58	5.58	6.58	7.55	8.55	9.55	10.55	11.55		12.75	4 / 1			
reaction time		interval	7 steps	1.04	1.04	1.00	1.00	0.97	1.00	1.00	1.00	1.00	1.20			3.08	2.97	3.00
wind	0.0 m/s	velocity	5.20	8.17	8.17	8.50	8.50	8.76	8.50	8.50	8.50	8.50	8.38	7.84		8.28	8.59	8.50
FINAL - 2021 USATF Golden Games (Walnut, CA) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season</i>				

date	09-May-21	time	2.50	3.52	4.54	5.54	6.52	7.50	8.47	9.47	10.47	11.50		12.65	2 / 5																		
reaction time	0.175	interval	7 steps	1.02	1.02	1.00	0.98	0.98	0.97	1.00	1.00	1.03	1.15	PB		3.04	2.93	3.03															
wind	2.0 m/s	velocity	5.20	8.33	8.33	8.50	8.67	8.67	8.76	8.50	8.50	8.25	8.74	7.91		8.39	8.70	8.42															
FINAL - 2021 USATF Grand Prix (Eugene, OR) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																		
date	24-Apr-21	time	2.57	3.63	4.65	5.65	6.65	7.65	8.65	9.65	10.67	11.71		12.86	2 / 4																		
reaction time		interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.15	PB		3.08	3.00	3.06															
wind	-0.3 m/s	velocity	5.06	8.02	8.33	8.50	8.50	8.50	8.50	8.50	8.33	8.17	8.74	7.78		8.28	8.50	8.33															
FINAL - 2021 Bryan Clay Invitational (Azusa, CA) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season</i>																		
date	16-Apr-21	time	2.53	3.57	4.60	5.60	6.61	7.61	8.63	9.67	10.71	11.76		12.92	4 / 1																		
reaction time		interval	7 steps	1.04	1.03	1.00	1.01	1.00	1.02	1.04	1.04	1.05	1.16	PB		3.07	3.03	3.13															
wind	0.2 m/s	velocity	5.14	8.17	8.25	8.50	8.42	8.50	8.33	8.17	8.17	8.10	8.66	7.74		8.31	8.42	8.15															
McMillian, Sydni (USA) (2002)																																	
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																		
date	29-Jun-24	time	2.63	3.70	4.74	5.75	6.75	7.77	8.87	9.91	11.05	12.21		13.51	9 / 6																		
reaction time		interval		1.07	1.04	1.01	1.00	1.02	1.10	1.04	1.14	1.16	1.30			3.12	3.12	3.34															
wind	1.0 m/s	velocity	4.94	7.94	8.17	8.42	8.50	8.33	7.73	8.17	7.46	7.33	7.73	7.40		8.17	8.17	7.63															
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																		
date	28-Jun-24	time	2.65	3.72	4.76	5.81	6.82	7.84	8.89	9.92	10.99	12.04		13.26	6 / 5																		
reaction time		interval		1.07	1.04	1.05	1.01	1.02	1.05	1.03	1.07	1.05	1.22			3.16	3.08	3.15															
wind	0.2 m/s	velocity	4.91	7.94	8.17	8.10	8.42	8.33	8.10	8.25	7.94	8.10	8.24	7.54		8.07	8.28	8.10															
McMinn, Tiara (USA) (1999)																																	
FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																		
date	08-Jun-19	time	2.53	3.56	4.56	5.56	6.56	7.60	8.60	9.63	10.66	11.73		12.97	9 / 7																		
reaction time	0.175	interval		1.03	1.00	1.00	1.00	1.04	1.00	1.03	1.03	1.07	1.24			3.03	3.04	3.13															
wind	0.6 m/s	velocity	5.14	8.25	8.50	8.50	8.50	8.17	8.50	8.25	8.25	7.94	8.47	7.71		8.42	8.39	8.15															
McNeal, Brianna (USA) (1991)																																	
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																		
date	20-Jun-21	time	2.42	3.43	4.42	5.38	6.34	7.32	8.29	9.26	10.27	11.28		12.51	2 / 2																		
reaction time	0.152	interval		1.01	0.99	0.96	0.96	0.98	0.97	0.97	1.01	1.01	1.23			2.96	2.91	2.99															
wind	0.8 m/s	velocity	5.37	8.42	8.59	8.85	8.85	8.67	8.76	8.76	8.42	8.42	8.17	7.99		8.61	8.76	8.53															
Semi Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																		
date	20-Jun-21	time	2.46	3.46	4.43	5.40	6.36	7.33	8.31	9.29	10.29	11.32		12.56	4 / 3																		
reaction time	0.173	interval		1.00	0.97	0.97	0.96	0.97	0.98	0.98	1.00	1.03	1.24			2.94	2.91	3.01															
wind	1.2 m/s	velocity	5.28	8.50	8.76	8.76	8.85	8.76	8.67	8.67	8.50	8.25	8.10	7.96		8.67	8.76	8.47															
Heat 4 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																		
date	19-Jun-21	time	2.43	3.46	4.42	5.38	6.34	7.30	8.26	9.26	10.26	11.26		12.50	1 / 1																		
reaction time	0.162	interval		1.03	0.96	0.96	0.96	0.96	0.96	1.00	1.00	1.00	1.24			2.95	2.88	3.00															
wind	0.1 m/s	velocity	5.35	8.25	8.85	8.85	8.85	8.85	8.85	8.50	8.50	8.50	8.10	8.00		8.64	8.85	8.50															
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																		
date	18-Aug-19	time	2.50	3.53	4.53	5.53	6.51	7.49	8.55	9.56	10.61	11.66		12.90	9 / 6																		
reaction time	0.164	interval		1.03	1.00	1.00	0.98	0.98	1.06	1.01	1.05	1.05	1.24			3.03	3.02	3.11															
wind	-0.2 m/s	velocity	5.20	8.25	8.50	8.50	8.67	8.67	8.02	8.42	8.10	8.10	8.47	7.75		8.42	8.44	8.20															
FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																		
date	27-Jul-19	time	2.47	3.50	4.47	5.46	6.40	7.40	8.38	9.37	10.37	11.40		12.61	4 / 3																		
reaction time		interval		1.03	0.97	0.99	0.94	1.00	0.98	0.99	1.00	1.03	1.21			2.99	2.92	3.02															
wind	-1.2 m/s	velocity	5.26	8.25	8.76	8.59	9.04	8.50	8.67	8.59	8.50	8.25	8.68	7.93		8.53	8.73	8.44															
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)															<i>CAA Hurdle Development (2019)</i>																		
date	21-May-19	time	2.57	3.60	4.60	5.58	6.57	7.52	8.55	9.56	10.58	11.62		12.78	5 / 1																		
reaction time	0.173	interval		1.03	1.00	0.98	0.99	0.95	1.03	1.01	1.02	1.04	1.16			3.01	2.97	3.07															
wind	-1.0 m/s	velocity	5.06	8.25	8.50	8.67	8.59	8.95	8.25	8.42	8.33	8.17	9.05	7.82		8.47	8.59	8.31															
FINAL - 2019 Doha Diamond League (Doha, QAT) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																		
date	03-May-19	time	2.52	3.52	4.52	5.50	6.48	7.46	8.48	9.50	10.56	11.68		12.94	5 / 7																		
reaction time	0.163	interval		1.00	1.00	0.98	0.98	0.98	1.02	1.02	1.06	1.12	1.26			2.98	2.98	3.20															
wind	0.9 m/s	velocity	5.16	8.50	8.50	8.67	8.67	8.67	8.33	8.33	8.02	7.59	8.33	7.73		8.56	8.56	7.97															
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)															<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																		
date	31-Aug-18	time	2.52	3.52	4.52	5.52	6.50	7.48	8.46	9.44	10.42	11.44		12.61	6 / 1																		
reaction time	0.196	interval		1.00	1.00	1.00	0.98	0.98	0.98	0.98	0.98	1.02	1.17			3.00	2.94	2.98															
wind	0.1 m/s	velocity	5.16	8.50	8.50	8.50	8.67	8.67	8.67	8.67	8.67	8.33	8.97	7.93		8.50	8.67	8.56															
FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																		

date	22-Jul-18	time	2.48	3.50	4.48	5.44	6.40	7.38	8.36	9.34	10.32	11.32		12.47	4 / 2			
reaction time	0.152	interval		1.02	0.98	0.96	0.96	0.98	0.98	0.98	0.98	1.00	1.15			2.96	2.92	2.96
wind	0.6 m/s	velocity	5.24	8.33	8.67	8.85	8.85	8.67	8.67	8.67	8.67	8.50	9.13	8.02		8.61	8.73	8.61
FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	13-Jul-18	time	2.44	3.46	4.44	5.42	6.38	7.34	8.32	9.32	10.30	11.30		12.51	5 / 1			
reaction time	0.131	interval		1.02	0.98	0.98	0.96	0.96	0.98	1.00	0.98	1.00	1.21			2.98	2.90	2.98
wind	0.1 m/s	velocity	5.33	8.33	8.67	8.67	8.85	8.85	8.67	8.50	8.67	8.50	8.68	7.99		8.56	8.79	8.56
FINAL - 2018 Spitzen Leichtathletik (Luzern, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	09-Jul-18	time	2.48	3.46	4.44	5.42	6.40	7.36	8.32	9.28	10.26	11.28		12.44	4 / 1			
reaction time		interval		0.98	0.98	0.98	0.98	0.96	0.96	0.96	0.98	1.02	1.16			2.94	2.90	2.96
wind	0.9 m/s	velocity	5.24	8.67	8.67	8.67	8.67	8.85	8.85	8.85	8.67	8.33	9.05	8.04		8.67	8.79	8.61
FINAL - 2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	10-Jun-18	time	2.48	3.48	4.44	5.40	6.36	7.32	8.28	9.24	10.24	11.24		12.38	5 / 1			
reaction time	0.138	interval		1.00	0.96	0.96	0.96	0.96	0.96	0.96	1.00	1.00	1.14			2.92	2.88	2.96
wind	1.3 m/s	velocity	5.24	8.50	8.85	8.85	8.85	8.85	8.85	8.85	8.50	8.50	9.21	8.08		8.73	8.85	8.61
FINAL - 2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	31-May-18	time	2.48	3.60	4.90									15.80	5 / 9			
reaction time	0.155	interval		1.12	1.30													
wind	0.0 m/s	velocity	5.24	7.59	6.54													
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	12-May-18	time	2.44	3.44	4.44	5.40	6.40	7.36	8.34	9.32	10.30	11.30		12.50	4 / 1			
reaction time	0.156	interval		1.00	1.00	0.96	1.00	0.96	0.98	0.98	0.98	1.00	1.20			2.96	2.94	2.96
wind	0.9 m/s	velocity	5.33	8.50	8.50	8.85	8.50	8.85	8.67	8.67	8.67	8.50	8.75	8.00		8.61	8.67	8.61
FINAL - 2018 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	04-May-18	time	2.44	3.44	4.42	5.40	6.36	7.32	8.30	9.28	10.32	11.36		12.58	4 / 2			
reaction time	0.155	interval		1.00	0.98	0.98	0.96	0.96	0.98	0.98	1.04	1.04	1.22			2.96	2.90	3.06
wind	0.5 m/s	velocity	5.33	8.50	8.67	8.67	8.85	8.85	8.67	8.67	8.17	8.17	8.61	7.95		8.61	8.79	8.33
<i>Rollins, Brianna (USA) (1991)</i>																		
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	17-Aug-16	time	2.30	3.32	4.30	5.27	6.24	7.20	8.17	9.15	10.14	11.14		12.48	6 / 1			
reaction time	0.158	interval		1.02	0.98	0.97	0.97	0.96	0.97	0.98	0.99	1.00	1.34			2.97	2.90	2.97
wind	0.0 m/s	velocity	5.65	8.33	8.67	8.76	8.76	8.85	8.76	8.67	8.59	8.50	7.84	8.01		8.59	8.79	8.59
FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	22-Jul-16	time	2.46	3.46	4.44	5.42	6.38	7.36	8.34	9.34	10.38	11.40		12.57	7 / 2			
reaction time	0.140	interval		1.00	0.98	0.98	0.96	0.98	0.98	1.00	1.04	1.02	1.17			2.96	2.92	3.06
wind	0.3 m/s	velocity	5.28	8.50	8.67	8.67	8.85	8.67	8.67	8.50	8.17	8.33	8.97	7.96		8.61	8.73	8.33
Heat 1 - 2016 London Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	22-Jul-16	time	2.48	3.44	4.44	5.42	6.40	7.38	8.40	9.46	10.50	11.54		12.74	6 / 2			
reaction time	0.135	interval		0.96	1.00	0.98	0.98	0.98	1.02	1.06	1.04	1.04	1.20			2.94	2.98	3.14
wind	0.3 m/s	velocity	5.24	8.85	8.50	8.67	8.67	8.67	8.33	8.02	8.17	8.17	8.75	7.85		8.67	8.56	8.12
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	08-Jul-16	time	2.40	3.40	4.37	5.34	6.27	7.20	8.14	9.11	10.11	11.11		12.34	4 / 1			
reaction time	0.200	interval		1.00	0.97	0.97	0.93	0.93	0.94	0.97	1.00	1.00	1.23			2.94	2.80	2.97
wind	1.2 m/s	velocity	5.42	8.50	8.76	8.76	9.14	9.14	9.04	8.76	8.50	8.50	8.54	8.10		8.67	9.11	8.59
FINAL - 2016 Bislett Games (Oslo, NOR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	09-Jun-16	time	2.44	3.44	4.42	5.40	6.36	7.38	8.34	9.32	10.34	11.34		12.56	5 / 1			
reaction time	0.143	interval		1.00	0.98	0.98	0.96	1.02	0.96	0.98	1.02	1.00	1.22			2.96	2.94	3.00
wind	-0.4 m/s	velocity	5.33	8.50	8.67	8.67	8.85	8.33	8.85	8.67	8.33	8.50	8.61	7.96		8.61	8.67	8.50
FINAL - 2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	05-Jun-16	time	2.43	3.46	4.43	5.40	6.40	7.35	8.30	9.30	10.33	11.33		12.57	7 / 2			
reaction time	0.144	interval		1.03	0.97	0.97	1.00	0.95	0.95	1.00	1.03	1.00	1.24			2.97	2.90	3.03
wind	-0.3 m/s	velocity	5.35	8.25	8.76	8.76	8.50	8.95	8.95	8.50	8.25	8.50	8.47	7.96		8.59	8.79	8.42
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	28-May-16	time	2.44	3.44	4.38	5.34	6.30	7.30	8.30	9.28	10.30	11.32		12.53	3 / 2			
reaction time		interval		1.00	0.94	0.96	0.96	1.00	1.00	0.98	1.02	1.02	1.21			2.90	2.96	3.02
wind	0.7 m/s	velocity	5.33	8.50	9.04	8.85	8.85	8.50	8.50	8.67	8.33	8.33	8.68	7.98		8.79	8.61	8.44
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)														<i>Henson (2021) - Athlete First: major championships report</i>				
date	28-Aug-15	time	2.50	3.58	4.54	5.52	6.50	7.46	8.46	9.46	10.46	11.48		12.67	4 / 4			
reaction time	0.148	interval		1.08	0.96	0.98	0.98	0.96	1.00	1.00	1.00	1.02	1.19			3.02	2.94	3.02
wind	-0.3 m/s	velocity	5.20	7.87	8.85	8.67	8.67	8.85	8.50	8.50	8.50	8.33	8.82	7.89		8.44	8.67	8.44

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

date	17-Aug-13	time	2.52	3.50	4.48	5.42	6.40	7.36	8.30	9.26	10.24	11.24	12.44	7 / 1				
reaction time	0.263	interval		0.98	0.98	0.94	0.98	0.96	0.94	0.96	0.98	1.00	1.20		2.90	2.88	2.94	
wind	-0.6 m/s	velocity	5.16	8.67	8.67	9.04	8.67	8.85	9.04	8.85	8.67	8.50	8.75	8.04	8.79	8.85	8.67	

FINAL - 2013 USATF National Championships (Des Moines, IA)*(2015.9.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	22-Jun-13	time	2.52	3.52	4.48	5.43	6.37	7.33	8.27	9.25	10.20	11.18	12.26	4 / 1				
reaction time		interval		1.00	0.96	0.95	0.94	0.96	0.94	0.98	0.95	0.98	1.08	AR	2.91	2.84	2.91	
wind	1.2 m/s	velocity	5.16	8.50	8.85	8.95	9.04	8.85	9.04	8.67	8.95	8.67	9.72	8.16	8.76	8.98	8.76	

McReynolds, Tiffani (USA) (1991)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)***CAA Hurdle Development (2020)*

date	15-Feb-20	time	2.60	3.63	4.65	5.65	6.64						7.96	4 / 3				
reaction time	0.181	interval		1.03	1.02	1.00	0.99						1.32		3.05			
wind		velocity	5.00	8.25	8.33	8.50	8.59						9.85	7.54	8.36			

Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)*CAA Hurdle Development (2020)*

date	15-Feb-20	time	2.59	3.64	4.64	5.64	6.62						7.98	6 / 1				
reaction time	0.156	interval		1.05	1.00	1.00	0.98						1.36		3.05			
wind		velocity	5.02	8.10	8.50	8.50	8.67						9.56	7.52	8.36			

FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	10-Sep-19	time	2.53	3.56	4.60	5.63	6.63	7.66	8.73	9.77	10.83	11.87	13.13	3 / 7				
reaction time	0.167	interval		1.03	1.04	1.03	1.00	1.03	1.07	1.04	1.06	1.04	1.26		3.10	3.10	3.14	
wind	0.1 m/s	velocity	5.14	8.25	8.17	8.25	8.50	8.25	7.94	8.17	8.02	8.17	8.33	7.62	8.23	8.23	8.12	

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

date	18-Aug-19	time	2.54	3.63	4.68	5.72	6.74	7.77	8.80	9.86	10.91	11.96	13.16	3 / 8				
reaction time	0.163	interval		1.09	1.05	1.04	1.02	1.03	1.03	1.06	1.05	1.05	1.20		3.18	3.08	3.16	
wind	-0.2 m/s	velocity	5.12	7.80	8.10	8.17	8.33	8.25	8.25	8.02	8.10	8.10	8.75	7.60	8.02	8.28	8.07	

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

date	20-Jul-19	time	2.48	3.52	4.50	5.48	6.48	7.48					dnf	2 / --				
reaction time	0.153	interval		1.04	0.98	0.98	1.00	1.00					DQ		3.00			
wind	0.8 m/s	velocity	5.24	8.17	8.67	8.67	8.50	8.50							8.50			

Meesri, Suchada (THA) (1994)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)***CAA Hurdle Development (2019)*

date	07-Jun-19	time	2.70	3.78	4.87	5.96	7.04	8.14	9.24	10.37	11.49	12.64	13.89	2 / 7				
reaction time	0.180	interval		1.08	1.09	1.09	1.08	1.10	1.10	1.13	1.12	1.15	1.25		3.26	3.28	3.40	
wind	2.3 m/s	velocity	4.81	7.87	7.80	7.80	7.87	7.73	7.73	7.52	7.59	7.39	8.40	7.20	7.82	7.77	7.50	

FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)*CAA Hurdle Development (2019)*

date	04-Jun-19	time	2.68	3.78	4.87	5.97	7.19	8.37	9.56	10.74			14.44	2 / 7				
reaction time	0.171	interval		1.10	1.09	1.10	1.22	1.18	1.19	1.18					3.29	3.59		
wind	-1.2 m/s	velocity	4.85	7.73	7.80	7.73	6.97	7.20	7.14	7.20			6.93		7.75	7.10		

Mei Xiaoqian (CHN) (2002)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (76cm)***CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.90	4.07	5.21	6.36	7.47	8.61	9.76	10.93	12.11	13.31	14.66	4 / 6				
reaction time	0.418	interval		1.17	1.14	1.15	1.11	1.14	1.15	1.17	1.18	1.20	1.35		3.46	3.40	3.55	
wind	0.0 m/s	velocity	4.48	7.26	7.46	7.39	7.66	7.46	7.39	7.26	7.20	7.08	7.78	6.82	7.37	7.50	7.18	

Melnychenko, Hanna (UKR) (1983)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	2.67	3.72	4.81	5.86	6.92	8.01	9.09	10.19	11.29	12.40	13.60	8 / 5				
reaction time	0.138	interval		1.05	1.09	1.05	1.06	1.09	1.08	1.10	1.10	1.11	1.20		3.19	3.23	3.31	
wind	-0.4 m/s	velocity	4.87	8.10	7.80	8.10	8.02	7.80	7.87	7.73	7.73	7.66	8.75	7.35	7.99	7.89	7.70	

Merriman, Donica (USA) (1979)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 1996 USATF National Junior Championships (Delaware, OH)***USATF Women's Sprint Development (1996)*

date	29-Jun-96	time	2.51	3.67	4.73	5.78	6.85	7.95	9.05	10.16	11.27	12.42	13.87	6 / 3				
reaction time		interval		1.16	1.06	1.05	1.07	1.10	1.10	1.11	1.11	1.15	1.45	PB	3.27	3.27	3.37	
wind	-2.5 m/s	velocity	5.18	7.33	8.02	8.10	7.94	7.73	7.73	7.66	7.66	7.39	7.24	7.21	7.80	7.80	7.57	

Michalská, Klára (CZE) (1993)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)***Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles*

date	25-Feb-12	time	2.78	4.02	5.16	6.31	7.45						8.98	6 / 6				
reaction time	0.195	interval		1.24	1.14	1.15	1.14						1.53		3.53			
wind		velocity	4.68	6.85	7.46	7.39	7.46						8.50	6.68	7.22			

Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)*Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles*

date 25-Feb-12 time 2.80 3.94 5.09 6.21 7.36
 reaction time 0.165 interval 1.14 1.15 1.12 1.15
 velocity 4.64 7.46 7.39 7.59 7.39

8.87 3 / 2
 1.51 3.41
 8.61 6.76 7.48

Miklós, Éva (ROU) (1978)

FINAL - 2001 European Cup (Bremen, GER) *Graubner (2007) - http://www.fgs.uni-halle.de*
 date 24-Jun-01 time 2.73 3.82 4.87 5.92 6.98 8.04 9.09 10.14 11.24 12.33 13.53 / 6
 reaction time 0.161 interval 1.09 1.05 1.05 1.06 1.06 1.05 1.05 1.10 1.09 1.20 3.19 3.17 3.24
 wind 0.6 m/s velocity 4.76 7.80 8.10 8.10 8.02 8.02 8.10 8.10 7.73 7.80 8.75 7.39 7.99 8.04 7.87

Minárová, Pavlína (CZE) (1999)

FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm) *Feher (2015) - Final report U18 & U20 Czech Republic indoor national championships*
 date 14-Feb-15 time 2.74 3.86 dnf 6 / --
 reaction time 0.165 interval 1.12
 velocity 4.74 7.59

Missinne, Sarah (BEL) (1995)

FINAL - 2020 Memorial Van Damme (Brussels, BEL) (TV Analysis) *Henson (2020) - Athlete First: 2020 year end hurdle report*
 date 04-Sep-20 time 2.63 3.70 4.77 5.83 6.87 7.93 9.00 10.10 11.17 12.30 13.55 7 / 3
 reaction time 0.133 interval 1.07 1.07 1.06 1.04 1.06 1.07 1.10 1.07 1.13 1.25 3.20 3.17 3.30
 wind -0.2 m/s velocity 4.94 7.94 7.94 8.02 8.17 8.02 7.94 7.73 7.94 7.52 8.04 7.38 7.97 8.04 7.73

Miteva, Elena (BUL) (1992)

FINAL - 2020 Galà dei Castelli (Bellinzona, SUI) (TV Analysis) *Henson (2020) - Athlete First: 2020 year end hurdle report*
 date 15-Sep-20 time 2.72 3.78 4.88 5.94 7.00 8.08 9.16 10.28 11.40 12.52 13.74 7 / 6
 reaction time interval 7 steps 1.06 1.10 1.06 1.06 1.08 1.08 1.12 1.12 1.12 1.22 3.22 3.22 3.36
 wind 0.0 m/s velocity 4.78 8.02 7.73 8.02 8.02 7.87 7.87 7.59 7.59 7.59 8.24 7.28 7.92 7.92 7.59

Miyamatsu, Shiki (JPN) (2005)

FINAL - 2022 Japanese National High School Championships (Naruto, JPN) *Kishima (2022) - national high school championships biomechanics data collection*
 date 07-Aug-22 time 2.71 3.82 4.95 6.05 7.17 8.28 9.41 10.56 11.70 12.88 14.15 8 / 8
 reaction time 0.151 interval 1.11 1.13 1.10 1.12 1.11 1.13 1.15 1.14 1.18 1.27 3.34 3.36 3.47
 wind -1.5 m/s velocity 4.80 7.66 7.52 7.73 7.59 7.66 7.52 7.39 7.46 7.20 7.91 7.07 7.63 7.59 7.35

Miyoshi, Minami (JPN)

Heat 2 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm) *(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*
 date 21-Oct-16 time 2.77 3.89 4.98 6.06 7.14 8.22 9.31 10.41 11.52 12.68 13.93 4 / 1
 reaction time interval 1.12 1.09 1.08 1.08 1.08 1.09 1.10 1.11 1.16 1.25 3.29 3.25 3.37
 wind 0.4 m/s velocity 4.69 7.14 7.34 7.41 7.41 7.41 7.34 7.27 7.21 6.90 12.00 7.18 7.29 7.38 7.12

Moore, Tawnie (USA) (1995)

Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude) *CAA Hurdle Development (2020)*
 date 15-Feb-20 time 2.65 3.72 4.77 5.79 6.82 8.21 7 / 5
 reaction time 0.147 interval 1.07 1.05 1.02 1.03 1.39 3.14
 velocity 4.91 7.94 8.10 8.33 8.25 9.35 7.31 8.12

Morgan, Monique (JAM) (1985)

FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN) *Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*
 date 20-May-18 time 2.69 3.75 4.80 5.82 6.86 7.87 8.91 9.95 10.98 12.06 13.20 7 / 3
 reaction time 0.157 interval 1.06 1.05 1.02 1.04 1.01 1.04 1.04 1.03 1.08 1.14 3.13 3.09 3.15
 wind -0.6 m/s velocity 4.83 8.02 8.10 8.33 8.17 8.42 8.17 8.17 8.25 7.87 9.21 7.58 8.15 8.25 8.10

Morgulina, Nina (URS) (1956)

A FINAL - 1979 VII USSR Spartakiade (Moscow, URS) *Balachničiv (1981) - Periodisierung & Zyklisierung des Trainings 78/79 Hürdenläuferinnen der Spitzenklasse der UdSSR*
 date 25-Jul-79 time 2.56 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
 wind ??? velocity 5.08 7.87 8.25 8.42 8.33 8.50 8.33 8.17 8.10 7.80 8.75 7.63 8.17 8.39 8.02

FINAL - 1978 European Championships (Prague, TCH)

Lamare (1978) - championnats d'Europa 1978
 date 02-Sep-78 time 2.67 6.56 12.86 3 / 4
 reaction time interval 3.89
 wind 0.6 m/s velocity 4.87 8.74 7.78

FINAL - 1975 International "Pravda" Sportfest (Sotschi, URS)

Artyschenko (1977) - zwischen den hürden geht es um die sekunde, teil 2
 date 29-May-75 time 2.4 3.6 4.7 5.9 6.9 8.1 9.2 10.3 11.3 12.5 13.8 / 4
 reaction time interval 1.19 1.17 1.15 1.05 1.15 1.09 1.09 1.03 1.21 1.35 3.51 3.29 3.33
 wind ??? velocity 5.51 7.14 7.26 7.39 8.10 7.39 7.80 7.80 8.25 7.02 7.78 7.23 7.26 7.75 7.66

Moriwaki, Kanami (JPN) (2004)

FINAL - 2022 Japanese National High School Championships (Naruto, JPN) *Kishima (2022) - national high school championships biomechanics data collection*
 date 07-Aug-22 time 2.70 3.81 4.90 6.00 7.09 8.18 9.28 10.42 11.57 12.74 14.04 2 / 6
 reaction time 0.144 interval 1.11 1.09 1.10 1.09 1.09 1.10 1.14 1.15 1.17 1.30 3.30 3.28 3.46
 wind -1.5 m/s velocity 4.81 7.66 7.80 7.73 7.80 7.80 7.73 7.46 7.39 7.26 7.73 7.12 7.73 7.77 7.37

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Morrison, Ebony (LBR) (1994)																	
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympc Games - Results Book (2024)</i>				
date	09-Aug-24	time	2.41	3.48	4.49	5.49	6.48	7.46	8.45	9.49	11.27	17.21		2 / --			
reaction time	0.138	interval	1.07	1.01	1.00	0.99	0.98	0.99	1.04	1.78	5.94		DQ		3.08	2.96	8.76
wind	0.5 m/s	velocity	5.39	7.94	8.42	8.50	8.59	8.67	8.59	8.17	4.78	1.43			8.28	8.61	2.91
Repechage 2 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympc Games - Results Book (2024)</i>				
date	08-Aug-24	time	2.42	3.49	4.50	5.50	6.48	7.47	8.48	9.49	10.53	11.58	12.82	4 / 1			
reaction time	0.151	interval	1.07	1.01	1.00	0.98	0.99	1.01	1.01	1.04	1.05	1.24			3.08	2.98	3.10
wind	0.4 m/s	velocity	5.37	7.94	8.42	8.50	8.67	8.59	8.42	8.42	8.17	8.10	8.10	7.80	8.28	8.56	8.23
Heat 2 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympc Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.44	3.51	4.54	5.55	6.55	7.56	8.56	9.57	10.61	11.66	12.93	6 / 6			
reaction time	0.134	interval	1.07	1.03	1.01	1.00	1.01	1.00	1.01	1.04	1.05	1.27			3.11	3.01	3.10
wind	0.0 m/s	velocity	5.33	7.94	8.25	8.42	8.50	8.42	8.50	8.42	8.17	8.10	7.91	7.73	8.20	8.47	8.23
National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)													<i>Omega Timing (2023) - diamond league race analysis</i>				
date	02-Jul-23	time	2.44	3.54	4.60	5.65	6.69	7.72	8.76	9.82	10.89	11.99	13.39	6 / 3			
reaction time	0.137	interval	1.10	1.06	1.05	1.04	1.03	1.04	1.06	1.07	1.10	1.40			3.21	3.11	3.23
wind	0.6 m/s	velocity	5.33	7.73	8.02	8.10	8.17	8.25	8.17	8.02	7.94	7.73	7.18	7.47	7.94	8.20	7.89
FINAL - 2022 African Championships (St. Pierre, MRI) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	09-Jun-22	time	2.54	3.54	4.60	5.58	6.54	7.54	8.55	9.55	10.55	11.61	12.77	4 / 2			
reaction time		interval	1.00	1.06	0.98	0.96	1.00	1.01	1.00	1.00	1.06	1.16			3.04	2.97	3.06
wind	4.0 m/s	velocity	5.12	8.50	8.02	8.67	8.85	8.50	8.42	8.50	8.50	8.02	8.66	7.83	8.39	8.59	8.33
Morrison, Melissa (USA) (1971)																	
FINAL - 2004 Olympic Games (Athens, GRE)													<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>				
date	24-Aug-04	time	2.56	3.54	4.50	5.48	6.47	7.48	8.47	9.47	10.47	11.47	12.56	3 / 3			
reaction time	0.145	interval	0.98	0.96	0.98	0.99	1.01	0.99	1.00	1.00	1.00	1.09			2.92	2.99	3.00
wind	0.3 m/s	velocity	5.08	8.67	8.85	8.67	8.59	8.42	8.59	8.50	8.50	8.50	9.63	7.96	8.73	8.53	8.50
FINAL - 2003 USATF National Championships (Palo Alto, CA)													<i>USATF Women's Sprint Development (2003)</i>				
date	22-Jun-03	time	2.52	3.55	4.54	5.50	6.49	7.44	8.49	9.46	10.46	11.49	12.70	3 / 4			
reaction time		interval	1.03	0.99	0.96	0.99	0.95	1.05	0.97	1.00	1.03	1.21			2.98	2.99	3.00
wind	-0.1 m/s	velocity	5.16	8.25	8.59	8.85	8.59	8.95	8.10	8.76	8.50	8.25	8.68	7.87	8.56	8.53	8.50
FINAL - 2000 ISTAF (Berlin, GER)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	01-Sep-00	time	2.58	3.61	4.61	5.60	6.58	7.55	8.54	9.56	10.56	11.57	12.67	1 / 2			
reaction time	0.183	interval	1.03	1.00	0.99	0.98	0.97	0.99	1.02	1.00	1.01	1.10			3.02	2.94	3.03
wind	-0.2 m/s	velocity	5.04	8.25	8.50	8.59	8.67	8.76	8.59	8.33	8.50	8.42	9.55	7.89	8.44	8.67	8.42
Heat 1 - 1998 USATF National Championships (New Orleans, LA)													<i>Mann (1998) - usatf elite sprint & hurdle summit</i>				
date	20-Jun-98	time	2.30	3.31	4.31	5.29	6.27	7.24	8.23	9.23	10.25	11.35	12.69	1 / 1			
reaction time		interval	1.01	1.00	0.98	0.98	0.97	0.99	1.00	1.02	1.10	1.34			2.99	2.94	3.12
wind	2.3 m/s	velocity	5.65	8.42	8.50	8.67	8.67	8.76	8.59	8.50	8.33	7.73	7.84	7.88	8.53	8.67	8.17
FINAL - 1996 USA Olympic Trials (Atlanta, GA)													<i>USATF Women's Sprint Development (1996)</i>				
date	23-Jun-96	time	2.33	3.36	4.36	5.36	6.33	7.31	8.32	9.36	10.57	11.76	13.45	7 / 8			
reaction time		interval	1.03	1.00	1.00	0.97	0.98	1.01	1.04	1.21	1.19	1.69			3.03	2.96	3.44
wind	0.6 m/s	velocity	5.58	8.25	8.50	8.50	8.76	8.67	8.42	8.17	7.02	7.14	6.21	7.43	8.42	8.61	7.41
Mossberg, Sofia (SWE) (1995)																	
FINAL 2 - 2017 Windsprint (Sundsvall, SWE)													<i>(2017) - www.windsprint/Splittider/</i>				
date	30-Jul-17	time	2.74	3.84	4.95	6.04	7.12	8.22	9.33	10.46	11.59	12.74	14.18	1 / 1			
reaction time		interval	1.10	1.11	1.09	1.08	1.10	1.11	1.13	1.13	1.15	1.44			3.30	3.29	3.41
wind	1.0 m/s	velocity	4.74	7.73	7.66	7.80	7.87	7.73	7.66	7.52	7.52	7.39	7.29	7.05	7.73	7.75	7.48
FINAL - 2017 Windsprint (Sundsvall, SWE)													<i>(2017) - www.windsprint/Splittider/</i>				
date	30-Jul-17	time	2.82	3.96	5.07	6.17	7.26	8.37	9.48	10.61	11.76	12.91	14.32	1 / 1			
reaction time		interval	1.14	1.11	1.10	1.09	1.11	1.11	1.13	1.15	1.15	1.41			3.35	3.31	3.43
wind	0.8 m/s	velocity	4.61	7.46	7.66	7.73	7.80	7.66	7.66	7.52	7.39	7.39	7.45	6.98	7.61	7.70	7.43
Mota, Yoveinny (VEN) (2000)																	
Heat 4 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympc Games - Results Book (2024)</i>				
date	07-Aug-24	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	
wind	0.0 m/s	velocity	5.18	8.10	8.42	8.10	7.87	8.02	8.25						8.20	8.04	
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	19-Mar-22	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
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Mouri, Hikari (JPN)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)	<i>(2017) - tldata-store.com/2017/05/13/post-441/</i>																	
date	11-May-17	time	2.78	3.91	5.02	6.12	7.20	8.32	9.43	10.56	11.71	12.88		14.18	3 / 6			
reaction time	0.143	interval		1.13	1.11	1.10	1.08	1.12	1.11	1.13	1.15	1.17	1.30			3.34	3.31	3.45
wind	-1.2 m/s	velocity	4.68	7.52	7.66	7.73	7.87	7.59	7.66	7.52	7.39	7.26	8.08	7.05		7.63	7.70	7.39

Mucci, Celeste (AUS) (1999)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Repechage 2 - 2024 Olympic Games (Paris, FRA)	<i>Paris 2024 Olympic Games - Results Book (2024)</i>																	
date	08-Aug-24	time	2.50	3.57	4.59	5.60	6.62	7.62	8.64	9.66	10.69	11.73		13.00	3 / 5			
reaction time	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
wind	0.4 m/s	velocity	5.20	7.94	8.33	8.42	8.33	8.50	8.33	8.33	8.25	8.17	7.91	7.69		8.23	8.39	8.25

Heat 2 - 2024 Olympic Games (Paris, FRA)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 2 - 2024 Olympic Games (Paris, FRA)	<i>Paris 2024 Olympic Games - Results Book (2024)</i>																	
date	07-Aug-24	time	2.50	3.57	4.60	5.62	6.61	7.62	8.63	9.65	10.70	11.76		13.05	3 / 7			
reaction time	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
wind	0.0 m/s	velocity	5.20	7.94	8.25	8.33	8.59	8.42	8.42	8.33	8.10	8.02	7.79	7.66		8.17	8.47	8.15

Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																	
date	23-Aug-23	time	2.60	3.63	4.65	5.65	6.64	7.64	8.64	9.67	10.71	11.76		12.97	2 / 6			
reaction time	0.175	interval		1.03	1.02	1.00	0.99	1.00	1.00	1.03	1.04	1.05	1.21			3.05	2.99	3.12
wind	-0.7 m/s	velocity	5.00	8.25	8.33	8.50	8.59	8.50	8.50	8.25	8.17	8.10	8.31	7.71		8.36	8.53	8.17

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

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																	
date	22-Aug-23	time	2.56	3.64	4.67	5.65	6.65	7.65	8.67	9.68	10.70	11.73		12.90	3 / 4			
reaction time	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
wind	0.0 m/s	velocity	5.08	7.87	8.25	8.67	8.50	8.50	8.33	8.42	8.33	8.25	8.59	7.75		8.25	8.44	8.33

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

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)	<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>																	
date	21-May-23	time	2.59	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
wind	0.4 m/s	velocity	5.02	8.02	8.42	8.59	8.33	8.42	8.50	8.17	8.25	8.17	8.82	7.73		8.33	8.42	8.20

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

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																	
date	07-Aug-22	time	2.60	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
wind	-0.2 m/s	velocity	5.00	8.33	8.50	8.50	8.50	8.33	8.33	8.33	7.87	8.17	8.17	7.67		8.44	8.39	8.12

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

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																	
date	24-Jul-22	time	2.54	3.63	4.65	5.63	6.63	7.63	8.63	9.66	10.70		dnf	1 / --				
reaction time	0.143	interval		1.09	1.02	0.98	1.00	1.00	1.00	1.03	1.04		DQ			3.09	3.00	
wind	-0.1 m/s	velocity	5.12	7.80	8.33	8.67	8.50	8.50	8.50	8.25	8.17					8.25	8.50	

Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																	
date	23-Jul-22	time	2.55	3.60	4.63	5.63	6.65	7.66	8.66	9.70	10.73	11.76		13.01	5 / 4			
reaction time	0.163	interval		1.05	1.03	1.00	1.02	1.01	1.00	1.04	1.03	1.03	1.25			3.08	3.03	3.10
wind	1.5 m/s	velocity	5.10	8.10	8.25	8.50	8.33	8.42	8.50	8.17	8.25	8.25	8.04	7.69		8.28	8.42	8.23

FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)	<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>																	
date	01-May-22	time	2.64	3.69	4.71	5.71	6.74	7.75	8.78	9.82	10.86	11.92		13.08	4 / 1			
reaction time	0.158	interval		1.05	1.02	1.00	1.03	1.01	1.03	1.04	1.04	1.06	1.16			3.07	3.07	3.14
wind	-0.6 m/s	velocity	4.92	8.10	8.33	8.50	8.25	8.42	8.25	8.17	8.17	8.02	8.66	7.65		8.31	8.31	8.12

FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)	<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>																	
date	29-Apr-22	time	2.67	3.74	4.76	5.80	6.85	7.87	8.92	9.96	11.04	12.07		13.21	3 / 1			
reaction time	0.179	interval		1.07	1.02	1.04	1.05	1.02	1.05	1.04	1.05	1.06	1.14			3.13	3.12	3.15
wind	-2.8 m/s	velocity	4.87	7.94	8.33	8.17	8.10	8.33	8.10	8.17	8.10	8.02	8.82	7.57		8.15	8.17	8.10

Muchová, Zuzana (CZE) (1988)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)	<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>																	
date	15-Jun-13	time	2.88	4.00	5.14	6.27	7.41	8.53	9.65	10.80	11.95	13.13		14.45	3 / 3			
reaction time	0.170	interval		1.12	1.14	1.13	1.14	1.12	1.12	1.15	1.15	1.18	1.32			3.39	3.38	3.48
wind	-1.0 m/s	velocity	4.51	7.59	7.46	7.52	7.46	7.59	7.59	7.39	7.39	7.20	7.95	6.92		7.52	7.54	7.33

Munro, Jacquie (AUS) (1981)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2002 IAAF World Cup (Madrid, ESP)	<i>Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas</i>																	
date	21-Sep-02	time	2.65	3.70	4.75	5.77	6.79	7.83	8.88	9.96	11.04	12.16		13.46	8 / 8			
reaction time	0.129	interval		1.05	1.05	1.02	1.02	1.04	1.05	1.08	1.08	1.12	1.30			3.12	3.11	3.28
wind	1.5 m/s	velocity	4.91	8.10	8.10	8.33	8.33	8.17	8.10	7.87	7.87	7.59	8.08	7.43		8.17	8.20	7.77

Muraoka, Kakehiro (JPN)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)	<i>(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>															

date	21-Oct-16	time	2.70	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	
wind	1.1 m/s	velocity	4.81	7.14	7.27	7.27	7.08	7.27	7.08	6.96	6.72	6.72	11.72	7.05		7.23	7.14	6.80	
Nagai, Mahiro (JPN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)			<i>Kishima (2022) - national high school championships biomechanics data collection</i>																
date	07-Aug-22	time	2.71	3.81	4.90	5.99	7.07	8.17	9.26	10.37	11.52	12.66		13.91	7 / 3				
reaction time	0.187	interval		1.10	1.09	1.09	1.08	1.10	1.09	1.11	1.15	1.14	1.25			3.28	3.27	3.40	
wind	-1.5 m/s	velocity	4.80	7.73	7.80	7.80	7.87	7.73	7.80	7.66	7.39	7.46	8.04	7.19		7.77	7.80	7.50	
Nagamine, Sayuri (JPN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)			<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data</i>																
date	08-Aug-19	time	2.71	3.81	4.89	5.99	7.10	8.24	9.36	10.50	11.67	12.86		14.15	4 / 2				
reaction time		interval		1.10	1.08	1.10	1.11	1.14	1.12	1.14	1.17	1.19	1.29			3.28	3.37	3.50	
wind	-4.1 m/s	velocity	4.80	7.73	7.87	7.73	7.66	7.46	7.59	7.46	7.26	7.14	8.14	7.07		7.77	7.57	7.29	
FINAL - 2019 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>																
date	26-May-19	time	2.75	3.90	5.04	6.15	7.25	8.37	9.49	10.62	11.79	12.99		14.35	4 / 1				
reaction time		interval		1.15	1.14	1.11	1.10	1.12	1.12	1.13	1.17	1.20	1.36			3.40	3.34	3.50	
wind	1.9 m/s	velocity	4.73	7.39	7.46	7.66	7.73	7.59	7.59	7.52	7.26	7.08	7.39	6.97		7.50	7.63	7.29	
FINAL - 2018 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>																
date	27-May-18	time	2.75	3.87	5.00	6.10	7.20	8.30	9.42	10.52	11.65	12.77		14.02	5 / 1				
reaction time		interval		1.12	1.13	1.10	1.10	1.10	1.12	1.10	1.13	1.12	1.25			3.35	3.32	3.35	
wind	1.2 m/s	velocity	4.73	7.59	7.52	7.73	7.73	7.73	7.59	7.73	7.52	7.59	8.04	7.13		7.61	7.68	7.61	
Nagasaki, Sayuri (JPN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
A FINAL - 2018 National Sports Festival (Fukui, JPN)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>																
date	08-Oct-18	time	2.68	3.77	4.83	5.89	6.94	8.00	9.05	10.12	11.23	12.34		13.56	3 / 3				
reaction time	0.139	interval		1.09	1.06	1.06	1.05	1.06	1.05	1.07	1.11	1.11	1.22			3.21	3.16	3.29	
wind	2.5 m/s	velocity	4.85	7.80	8.02	8.02	8.10	8.02	8.10	7.94	7.66	7.66	8.61	7.37		7.94	8.07	7.75	
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)			<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data</i>																
date	02-Aug-18	time	2.70	3.80	4.89	5.98	7.06	8.14	9.24	10.34	11.45	12.58		13.80	6 / 5				
reaction time		interval		1.10	1.09	1.09	1.08	1.08	1.10	1.10	1.11	1.13	1.22			3.28	3.26	3.34	
wind	-0.3 m/s	velocity	4.81	7.73	7.80	7.80	7.87	7.87	7.73	7.73	7.66	7.52	8.61	7.25		7.77	7.82	7.63	
FINAL A - 2016 Japanese Junior Olympics (Yokohama, JPN) (76cm)			<i>(2016.10.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
date	28-Oct-16	time	2.70	3.82	4.93	6.02	7.09	8.18	9.28	10.40	11.53	12.67		13.93	4 / 1				
reaction time		interval		1.12	1.11	1.09	1.07	1.09	1.10	1.12	1.13	1.14	1.26			3.32	3.26	3.39	
wind	-0.4 m/s	velocity	4.81	7.59	7.66	7.80	7.94	7.80	7.73	7.59	7.52	7.46	8.33	7.18		7.68	7.82	7.52	
Heat 3 B - 2016 Japanese Junior Olympics (Yokohama, JPN) (76cm)			<i>(2016.10.27) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
date	28-Oct-16	time	2.76	3.89	5.02	6.13	7.24	8.36	9.50	10.63	11.77	12.93		14.24	4 / 1				
reaction time		interval		1.13	1.13	1.11	1.11	1.12	1.14	1.13	1.14	1.16	1.31			3.37	3.37	3.43	
wind	-2.2 m/s	velocity	4.71	7.52	7.52	7.66	7.66	7.59	7.46	7.52	7.46	7.33	8.02	7.02		7.57	7.57	7.43	
Nagięć, Weronika (POL) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>																
date	03-Jun-22	time	2.64	3.70	4.74	5.78	6.80	7.84	8.92	9.96				dnf	2 / --				
reaction time		interval		1.06	1.04	1.04	1.02	1.04	1.08	1.04				DQ		3.14	3.14		
wind	0.2 m/s	velocity	4.92	8.02	8.17	8.17	8.33	8.17	7.87	8.17						8.12	8.12		
Naito, Kano (JPN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Japanese U20 National Championships (Osaka, JPN)			<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>																
date	03-Jun-23	time	2.74	3.84	4.95	6.02	7.10	8.20	9.29	10.41	11.53	12.65		13.87	3 / 2				
reaction time	0.181	interval		1.10	1.11	1.07	1.08	1.10	1.09	1.12	1.12	1.12	1.22			3.28	3.27	3.36	
wind	-1.4 m/s	velocity	4.74	7.73	7.66	7.94	7.87	7.73	7.80	7.59	7.59	7.59	8.24	7.21		7.77	7.80	7.59	
Nakajima, Hitomi (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Japanese National Championships (Osaka, JPN)			<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>																
date	03-Jun-23	time	2.69	3.75	4.78	5.80	6.84	7.87	8.92	9.98	11.06	12.19		13.44	8 / 8				
reaction time	0.151	interval		1.06	1.03	1.02	1.04	1.03	1.05	1.06	1.08	1.13	1.25			3.11	3.12	3.27	
wind	-1.2 m/s	velocity	4.83	8.02	8.25	8.33	8.17	8.25	8.10	8.02	7.87	7.52	8.04	7.44		8.20	8.17	7.80	
FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)			<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>																
date	07-May-23	time	2.68	3.74	4.80	5.84	6.86	7.90	8.95	10.01	11.09	12.20		13.38	8 / 6				
reaction time		interval		1.04	1.06	1.04	1.02	1.04	1.05	1.06	1.08	1.11	1.18			3.16	3.11	3.25	
wind	0.7 m/s	velocity	4.85	8.02	8.02	8.17	8.33	8.17	8.10	8.02	7.87	7.66	8.52	7.47		8.07	8.20	7.85	
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)			<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>																
date	29-Apr-23	time	2.69	3.80	4.86	5.91	6.95	8.02	9.09	10.17	11.27	12.36		13.60	2 / 7				
reaction time	0.135	interval		1.11	1.06	1.05	1.04	1.07	1.07	1.08	1.10	1.09	1.24			3.22	3.18	3.27	

wind	0.6 m/s	velocity	4.83	7.66	8.02	8.10	8.17	7.94	7.94	7.87	7.73	7.80	8.10	7.35	7.92	8.02	7.80	
FINAL - 2022 Japanese National Championships (Osaka, JPN)																		
									<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>									
date	11-Jun-22	time	2.67	3.75	4.81	5.85	6.88	7.91	8.96	10.01	11.09	12.20	13.37	8 / 4				
reaction time	0.145	interval	1.08	1.06	1.04	1.03	1.03	1.05	1.05	1.05	1.08	1.11	1.17		3.18	3.11	3.24	
wind	0.8 m/s	velocity	4.87	7.87	8.02	8.17	8.25	8.25	8.10	8.10	7.87	7.66	8.59	7.48	8.02	8.20	7.87	
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)																		
									<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>									
date	01-May-22	time	2.67	3.74	4.80	5.85	6.92	7.98	9.07	10.15	11.26	12.38	13.62	6 / 6				
reaction time	0.135	interval	1.07	1.06	1.05	1.07	1.06	1.09	1.08	1.11	1.12	1.24			3.18	3.22	3.31	
wind	-0.6 m/s	velocity	4.87	7.94	8.02	8.10	7.94	8.02	7.80	7.87	7.66	7.59	8.10	7.34	8.02	7.92	7.70	
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)																		
									<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>									
date	29-Apr-22	time	2.70	3.81	4.90	5.99	7.10	8.20	9.31	10.41	11.50	12.63	13.82	1 / 8				
reaction time	0.144	interval	1.11	1.09	1.09	1.11	1.10	1.11	1.10	1.09	1.13	1.19			3.29	3.32	3.32	
wind	-2.8 m/s	velocity	4.81	7.66	7.80	7.80	7.66	7.73	7.66	7.73	7.80	7.52	8.45	7.24	7.75	7.68	7.68	
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)																		
									<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>									
date	01-Jun-21	time	2.71	3.77	4.83	5.87	6.90	7.94	9.02	10.10	11.17	12.26	13.44	8 / 7				
reaction time	0.155	interval	1.06	1.06	1.04	1.03	1.04	1.08	1.08	1.07	1.09	1.18			3.16	3.15	3.24	
wind	0.3 m/s	velocity	4.80	8.02	8.02	8.17	8.25	8.17	7.87	7.87	7.94	7.80	8.52	7.44	8.07	8.10	7.87	
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)																		
									<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>									
date	24-Oct-20	time	2.65	3.74	4.83	5.90	6.95	8.03	9.12	10.22	11.31	12.43	13.70	9 / 7				
reaction time		interval	1.09	1.09	1.07	1.05	1.08	1.09	1.10	1.09	1.12	1.27			3.25	3.22	3.31	
wind	-1.4 m/s	velocity	4.91	7.80	7.80	7.94	8.10	7.87	7.80	7.73	7.80	7.59	7.91	7.30	7.85	7.92	7.70	
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)																		
									<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>									
date	20-Sep-20	time	2.69	3.77	4.84	5.91	6.96	8.03	9.11	10.21	11.32	12.45	13.68	9 / 7				
reaction time	0.137	interval	1.08	1.07	1.07	1.05	1.07	1.08	1.10	1.11	1.13	1.23			3.22	3.20	3.34	
wind	0.0 m/s	velocity	4.83	7.87	7.94	7.94	8.10	7.94	7.87	7.73	7.66	7.52	8.17	7.31	7.92	7.97	7.63	
FINAL - 2019 Fuse Sprint (Tottori, JPN)																		
									<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>									
date	02-Jun-19	time	2.67	3.75	4.80	5.84	6.88	7.93	8.99	10.06	11.14	12.25	13.41	2 / 7				
reaction time	0.126	interval	1.08	1.05	1.04	1.04	1.05	1.06	1.07	1.08	1.11	1.16			3.17	3.15	3.26	
wind	3.5 m/s	velocity	4.87	7.87	8.10	8.17	8.17	8.10	8.02	7.94	7.87	7.66	9.05	7.46	8.04	8.10	7.82	
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)																		
									<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>									
date	11-May-17	time	2.78	3.89	5.00	6.09	7.16	8.25	9.35	10.48	11.59	12.73	13.88	7 / 3				
reaction time		interval	1.11	1.11	1.09	1.07	1.09	1.10	1.13	1.11	1.14	1.15			3.31	3.26	3.38	
wind	-1.2 m/s	velocity	4.68	7.66	7.66	7.80	7.94	7.80	7.73	7.52	7.66	7.46	9.13	7.20	7.70	7.82	7.54	
Nakamura, Reina (JPN) (1998)																		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)																		
									<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>									
date	06-Apr-17	time	2.80	3.95	5.09	6.20	7.31	8.43	9.58	10.73	11.91	13.10	14.42	7 / 5				
reaction time		interval	1.15	1.14	1.11	1.11	1.12	1.15	1.15	1.18	1.19	1.32			3.40	3.38	3.52	
wind	-1.8 m/s	velocity	4.64	7.39	7.46	7.66	7.66	7.59	7.39	7.39	7.20	7.14	7.95	6.93	7.50	7.54	7.24	
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)																		
									<i>Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics data</i>									
date	02-Aug-15	time	2.71	3.87	4.96	6.05	7.14	8.22	9.31	10.42	11.57	12.73	14.00	5 / 4				
reaction time	0.138	interval	1.16	1.09	1.09	1.09	1.08	1.09	1.11	1.15	1.16	1.27	PB		3.34	3.26	3.42	
wind	0.9 m/s	velocity	4.80	7.33	7.80	7.80	7.80	7.87	7.80	7.66	7.39	7.33	8.27	7.14	7.63	7.82	7.46	
Nakamura, Yuki (JPN) (1995)																		
									<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>									
date	02-Jun-19	time	2.68	3.76	4.81	5.84	6.92	7.97	9.03	10.12	11.22	12.33	13.51	3 / 8				
reaction time	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	
wind	3.5 m/s	velocity	4.85	7.87	8.10	8.25	7.87	8.10	8.02	7.80	7.73	7.66	8.90	7.40	8.07	7.99	7.73	
B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																		
									<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>									
date	28-Apr-19	time	2.72	3.79	4.85	5.89	6.99	8.06	9.14	10.26	11.38	12.51	13.73	3 / 3				
reaction time		interval	1.07	1.06	1.04	1.10	1.07	1.08	1.12	1.12	1.13	1.22			3.17	3.25	3.37	
wind	1.3 m/s	velocity	4.78	7.94	8.02	8.17	7.73	7.94	7.87	7.59	7.59	7.52	8.61	7.28	8.04	7.85	7.57	
FINAL - 2018 Fuse Sprint (Tottori, JPN)																		
									<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>									
date	03-Jun-18	time	2.70	3.80	4.86	5.92	6.98	8.03	9.12	10.22	11.36	12.50	13.73	1 / 7				
reaction time		interval	1.10	1.06	1.06	1.06	1.05	1.09	1.10	1.14	1.14	1.23			3.22	3.20	3.38	
wind	0.6 m/s	velocity	4.81	7.73	8.02	8.02	8.02	8.10	7.80	7.73	7.46	7.46	8.54	7.28	7.92	7.97	7.54	
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)																		
									<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>									
date	06-May-18	time	2.75	3.83	4.91	5.98	7.05	8.12	9.21	10.30	11.41	12.53	13.66	2 / 5				
reaction time		interval	1.08	1.08	1.07	1.07	1.07	1.09	1.09	1.11	1.12	1.13			3.23	3.23	3.32	
wind	-0.5 m/s	velocity	4.73	7.87	7.87	7.94	7.94	7.94	7.80	7.80	7.66	7.59	9.29	7.32	7.89	7.89	7.68	

FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)(2017) - tfdata-store.com/2017/05/13/post-441/

date	11-May-17	time	2.73	3.83	4.94	6.01	7.09	8.17	9.25	10.35	11.47	12.61	13.85	4 / 2			
reaction time		interval	7 steps	1.10	1.11	1.07	1.08	1.08	1.08	1.10	1.12	1.14	1.24		3.28	3.24	3.36
wind	-1.2 m/s	velocity	4.76	7.73	7.66	7.94	7.87	7.87	7.87	7.73	7.59	7.46	8.47	7.22	7.77	7.87	7.59

FINAL - 2017 Michitaka Memorial (Osaka, JPN)(2017) - tfdata-store.com/2017/05/08/post-413/

date	07-May-17	time	2.70	3.81	4.92	5.99	7.07	8.15	9.25	10.35	11.46	12.59	13.80	5 / 5			
reaction time		interval		1.11	1.11	1.07	1.08	1.08	1.10	1.10	1.11	1.13	1.21		3.29	3.26	3.34
wind	-0.6 m/s	velocity	4.81	7.66	7.66	7.94	7.87	7.87	7.73	7.73	7.66	7.52	8.68	7.25	7.75	7.82	7.63

FINAL - 2016 Japanese University Championships (Kumagaya, JPN)(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	04-Sep-16	time	2.73	3.80	4.86	5.91	6.97	8.03	9.09	10.17	11.27	12.39	13.59	9 / 2			
reaction time	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
wind	-0.2 m/s	velocity	4.76	7.94	8.02	8.10	8.02	8.02	8.02	7.87	7.73	7.59	8.75	7.36	8.02	8.02	7.73

Nakao, Ayumi (JPN) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****A FINAL - 2018 National Sports Festival (Fukui, JPN)**

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

date	08-Oct-18	time	2.70	3.82	4.90	5.98	7.05	8.12	9.19	10.25	11.33	12.44	13.63	7 / 4			
reaction time	0.134	interval		1.12	1.08	1.08	1.07	1.07	1.07	1.06	1.08	1.11	1.19		3.28	3.21	3.25
wind	2.5 m/s	velocity	4.81	7.59	7.87	7.87	7.94	7.94	7.94	8.02	7.87	7.66	8.82	7.34	7.77	7.94	7.85

FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)

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

date	02-Aug-18	time	2.76	3.86	4.94	6.03	7.10	8.18	9.27	10.38	11.48	12.61	13.82	8 / 6			
reaction time		interval		1.10	1.08	1.09	1.07	1.08	1.09	1.11	1.10	1.13	1.21		3.27	3.24	3.34
wind	-0.3 m/s	velocity	4.71	7.73	7.87	7.80	7.94	7.87	7.80	7.66	7.73	7.52	8.68	7.24	7.80	7.87	7.63

Nakatsu, Haruha (JPN) (2003)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)**

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

date	26-Jun-21	time	2.69	3.84	4.96	6.08	7.16	8.25	9.35	10.44	11.58	12.73	13.93	6 / 5			
reaction time	0.148	interval		1.15	1.12	1.12	1.08	1.09	1.10	1.09	1.14	1.15	1.20		3.39	3.27	3.38
wind	0.2 m/s	velocity	4.83	7.39	7.59	7.59	7.87	7.80	7.73	7.80	7.46	7.39	8.38	7.18	7.52	7.80	7.54

Nakatuka, Natsuki (JPN) (1998)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2017 Mito Invitational (Mito, JPN)**(2017) - tfdata-store.com/2017/05/06/post-423/

date	05-May-17	time	2.81	3.94	5.09	6.21	7.34	8.49	9.63	10.77	11.95	13.15	14.47	5 / 3			
reaction time		interval		1.13	1.15	1.12	1.13	1.15	1.14	1.14	1.18	1.20	1.32		3.40	3.42	3.52
wind	1.0 m/s	velocity	4.63	7.52	7.39	7.59	7.52	7.39	7.46	7.46	7.20	7.08	7.95	6.91	7.50	7.46	7.24

Heat 1 - 2017 Mito Invitational (Mito, JPN)(2017) - tfdata-store.com/2017/05/06/post-423/

date	05-May-17	time	2.80	3.95	5.10	6.23	7.40	8.57	9.76	10.96	12.19	13.43	14.83	4 / 3			
reaction time		interval		1.15	1.15	1.13	1.17	1.17	1.19	1.20	1.23	1.24	1.40		3.43	3.53	3.67
wind	-2.7 m/s	velocity	4.64	7.39	7.39	7.52	7.26	7.26	7.14	7.08	6.91	6.85	7.50	6.74	7.43	7.22	6.95

FINAL - 2016 Japanese National High School Championships (Okayama, CHN)

Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics data

date	02-Aug-16	time	2.74	3.85	4.96	6.04	7.14	8.24	9.32	10.44	11.55	12.68	13.94	3 / 6			
reaction time	0.171	interval		1.11	1.11	1.08	1.10	1.10	1.08	1.12	1.11	1.13	1.26		3.30	3.28	3.36
wind	1.5 m/s	velocity	4.74	7.66	7.66	7.87	7.73	7.73	7.87	7.59	7.66	7.52	8.33	7.17	7.73	7.77	7.59

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)

Enomoto (2015) - 68th high school championships: JAF scientific committee - biomechanics data

date	02-Aug-15	time	2.71	3.82	4.92	6.01	7.11	8.21	9.31	10.47	11.63	12.80	14.12	4 / 7			
reaction time		interval		1.11	1.10	1.09	1.10	1.10	1.10	1.16	1.16	1.17	1.32		3.30	3.30	3.49
wind	0.9 m/s	velocity	4.80	7.66	7.73	7.80	7.73	7.73	7.73	7.33	7.33	7.26	7.95	7.08	7.73	7.73	7.31

Nakayama, Riko (JPN) (2002)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL B - 2016 Japanese Junior Olympics (Yokohama, JPN) (76cm/8.0m)**(2016.10.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	30-Oct-16	time	2.68	3.71	4.74	5.77	6.81	7.85	8.90	9.98	11.06	12.16	14.04	5 / 1			
reaction time		interval		1.03	1.03	1.03	1.04	1.04	1.05	1.08	1.08	1.10	1.88		3.09	3.13	3.26
wind	-1.1 m/s	velocity	4.85	7.77	7.77	7.77	7.69	7.69	7.62	7.41	7.41	7.27	7.98	7.12	7.77	7.67	7.36

Heat 4 B - 2016 Japanese Junior Olympics (Yokohama, JPN) (76cm/8.0m)(2016.10.29) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	30-Oct-16	time	2.71	3.73	4.74	5.77	6.79	7.82	8.86	9.91	10.98	12.07	13.95	4 / 1			
reaction time		interval		1.02	1.01	1.03	1.02	1.03	1.04	1.05	1.07	1.09	1.88		3.06	3.09	3.21
wind	1.1 m/s	velocity	4.80	7.84	7.92	7.77	7.84	7.77	7.69	7.62	7.48	7.34	7.98	7.17	7.84	7.77	7.48

Nastase, Liliana (ROU) (1962)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 1997 European Cup (Munich, GER)**Jung (2003) - <http://www.fgs.uni-halle.de>

date	22-Jun-97	time	2.67	3.75	4.83	5.87	6.90	7.95	9.03	10.11	11.23	12.39	13.66	/ 6			
reaction time		interval		1.08	1.08	1.04	1.03	1.05	1.08	1.08	1.12	1.16	1.27		3.20	3.16	3.36
wind	0.7 m/s	velocity	4.87	7.87	7.87	8.17	8.25	8.10	7.87	7.87	7.59	7.33	8.27	7.32	7.97	8.07	7.59

Ndama, Solène (FRA) (1998)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)**

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

date	time	2.60	3.66	4.70	5.74	6.74	7.74	8.76	9.80	10.86	11.92	13.21	1 / 8				
reaction time	0.161	interval	1.06	1.04	1.04	1.00	1.00	1.02	1.04	1.06	1.06	1.29			3.14	3.02	3.16
wind	1.2 m/s	velocity	5.00	8.02	8.17	8.17	8.50	8.50	8.33	8.17	8.02	8.02	7.79	7.57	8.12	8.44	8.07
Nečinová, Anna (CZE) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE)		<i>Feher (2015) - Final report the U18 & U20 Czech Republic indoor national championships</i>															
date	14-Feb-15	time	2.90	4.04	5.18	6.35	7.45						8.98	6 / 4			
reaction time	0.220	interval	1.14	1.14	1.17	1.10						1.53			3.45		
wind		velocity	4.48	7.46	7.46	7.26	7.73					8.50	6.68		7.39		
Negi, Mariko (JPN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)		<i>Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics data</i>															
date	02-Aug-15	time	2.74	3.85	5.00	6.14	7.27	8.39	9.50	10.62	11.76	12.88	14.13	1 / 8			
reaction time		interval	1.11	1.15	1.14	1.13	1.12	1.11	1.12	1.14	1.12	1.25			3.40	3.36	3.38
wind	0.9 m/s	velocity	4.74	7.66	7.39	7.46	7.52	7.59	7.66	7.59	7.46	7.59	8.40	7.08	7.50	7.59	7.54
Nejedlová, Michaela (CZE) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Czech Republic National Championships (Tábor, CZE)		<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>															
date	15-Jun-13	time	2.78	3.89	5.02	6.13	7.23	8.39	9.57	10.82	12.01	13.25	14.56	2 / 8			
reaction time	0.162	interval	1.11	1.13	1.11	1.10	1.16	1.18	1.25	1.19	1.24	1.31			3.35	3.44	3.68
wind	0.3 m/s	velocity	4.68	7.66	7.52	7.66	7.73	7.33	7.20	6.80	7.14	6.85	8.02	6.87	7.61	7.41	6.93
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)		<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>															
date	15-Jun-13	time	2.81	3.92	5.02	6.11	7.22	8.33	9.45	10.59	11.74	12.89	14.16	6 / 3			
reaction time	0.171	interval	1.11	1.10	1.09	1.11	1.11	1.12	1.14	1.15	1.15	1.27			3.30	3.34	3.44
wind	-0.9 m/s	velocity	4.63	7.66	7.73	7.80	7.66	7.66	7.59	7.46	7.39	7.39	8.27	7.06	7.73	7.63	7.41
FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)		<i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>															
date	25-Feb-12	time	2.75	3.87	4.99	6.12	7.25						8.71	5 / 3			
reaction time	0.127	interval	1.12	1.12	1.13	1.13						1.46			3.37		
wind		velocity	4.73	7.59	7.59	7.52	7.52					8.90	6.89		7.57		
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)		<i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>															
date	25-Feb-12	time	2.79	3.92	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		
wind		velocity	4.66	7.52	7.52	7.73	7.66					9.03	6.90		7.59		
Nelvis, Sharika (USA) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Millrose Games (New York, NY) (TV Analysis)		<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>															
date	11-Feb-24	time	2.58	3.62	4.64	5.64	6.64						8.05	2 / 8			
reaction time	0.173	interval	7 steps	1.04	1.02	1.00	1.00					1.41			3.06		
wind		velocity	5.04	8.17	8.33	8.50	8.50					9.22	7.45		8.33		
FINAL - 2023 FBK Games (Hengelo, NED)		<i>Omega Timing (2023) - continental tour race analysis</i>															
date	04-Jun-23	time	2.49	3.54	4.55	5.55	6.56	7.57	8.59	9.63	10.70	11.80	13.17	9 / 8			
reaction time	0.142	interval	7 steps	1.05	1.01	1.00	1.01	1.01	1.02	1.04	1.07	1.10	1.37		3.06	3.04	3.21
wind	0.2 m/s	velocity	5.22	8.10	8.42	8.50	8.42	8.42	8.33	8.17	7.94	7.73	7.34	7.59	8.33	8.39	7.94
FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)		<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	06-Jul-21	time	2.57	3.60	4.58	5.56	6.52	7.50	8.48	9.50	10.51	11.54	12.80	1 / 4			
reaction time	0.152	interval	7 steps	1.03	0.98	0.98	0.96	0.98	0.98	1.02	1.01	1.03	1.26		2.99	2.92	3.06
wind	0.2 m/s	velocity	5.06	8.25	8.67	8.67	8.85	8.67	8.67	8.33	8.42	8.25	7.98	7.81	8.53	8.73	8.33
Semi Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)		<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	20-Jun-21	time	2.46	3.52	4.50	5.48	6.46	7.44	8.44	9.44	10.46	11.52	12.81	7 / 7			
reaction time	0.160	interval	7 steps	1.06	0.98	0.98	0.98	0.98	1.00	1.00	1.02	1.06	1.29		3.02	2.96	3.08
wind	1.2 m/s	velocity	5.28	8.02	8.67	8.67	8.67	8.67	8.50	8.50	8.33	8.02	7.79	7.81	8.44	8.61	8.28
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)		<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	19-Aug-20	time	2.50	3.53	4.57	5.54	6.54	7.54	8.57	9.61	10.64	11.67	13.09	4 / 6			
reaction time	0.147	interval	7 steps	1.03	1.04	0.97	1.00	1.00	1.03	1.04	1.03	1.03	1.42		3.04	3.03	3.10
wind	-0.2 m/s	velocity	5.20	8.25	8.17	8.76	8.50	8.50	8.25	8.17	8.25	8.25	7.08	7.64	8.39	8.42	8.23
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	10-Sep-19	time	2.53	3.50	4.50	5.46	6.43	7.43	8.43	9.46	10.46	11.53	12.80	7 / 1			
reaction time	0.172	interval	0.97	1.00	0.96	0.97	1.00	1.00	1.03	1.00	1.07	1.27			2.93	2.97	3.10
wind	0.1 m/s	velocity	5.14	8.76	8.50	8.85	8.76	8.50	8.50	8.25	8.50	7.94	8.27	7.81	8.70	8.59	8.23
FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)		<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	06-Sep-19	time	2.50	3.50	4.50	5.50	6.48	7.48	8.48	9.50	10.52	11.52	12.83	8 / 4			
reaction time	0.139	interval	1.00	1.00	1.00	0.98	1.00	1.00	1.00	1.02	1.02	1.00	1.31		3.00	2.98	3.04
wind	0.0 m/s	velocity	5.20	8.50	8.50	8.50	8.67	8.50	8.50	8.33	8.33	8.50	8.02	7.79	8.50	8.56	8.39

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

date	27-Jul-19	time	2.47	3.50	4.47	5.47	6.44	7.40	8.37	9.37	10.37	11.41	12.66	1 / 4			
reaction time		interval		1.03	0.97	1.00	0.97	0.96	0.97	1.00	1.00	1.04	1.25		3.00	2.90	3.04
wind	-1.2 m/s	velocity	5.26	8.25	8.76	8.50	8.76	8.85	8.76	8.50	8.50	8.17	8.40	7.90	8.50	8.79	8.39

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

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

date	12-Jul-19	time	2.48	3.52	4.52	5.52	6.50	7.50	8.50	9.54	10.62	11.72	12.98	7 / 7			
reaction time	0.123	interval		1.04	1.00	1.00	0.98	1.00	1.00	1.04	1.08	1.10	1.26		3.04	2.98	3.22
wind	0.1 m/s	velocity	5.24	8.17	8.50	8.50	8.67	8.50	8.50	8.17	7.87	7.73	8.33	7.70	8.39	8.56	7.92

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

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

date	13-Jun-19	time	2.52	3.54	4.52	5.52	6.50	7.48	8.46	9.46	10.48	11.54	12.74	5 / 2			
reaction time	0.130	interval		1.02	0.98	1.00	0.98	0.98	0.98	1.00	1.02	1.06	1.20		3.00	2.94	3.08
wind	1.1 m/s	velocity	5.16	8.33	8.67	8.50	8.67	8.67	8.67	8.50	8.33	8.02	8.75	7.85	8.50	8.67	8.28

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

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

date	30-May-19	time	2.52	3.48	4.48	5.46	6.44	7.42	8.40	9.40	10.42	11.46	12.69	4 / 2			
reaction time	0.104	interval		0.96	1.00	0.98	0.98	0.98	0.98	1.00	1.02	1.04	1.23		2.94	2.94	3.06
wind	1.3 m/s	velocity	5.16	8.85	8.50	8.67	8.67	8.67	8.67	8.50	8.33	8.17	8.54	7.88	8.67	8.67	8.33

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

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

date	19-May-19	time	2.55	3.58	4.58	5.57	6.54	7.52	8.50	9.48	10.50	11.54	12.70	4 / 1			
reaction time	0.178	interval		1.03	1.00	0.99	0.97	0.98	0.98	0.98	1.02	1.04	1.16		3.02	2.93	3.04
wind	0.4 m/s	velocity	5.10	8.25	8.50	8.59	8.76	8.67	8.67	8.67	8.33	8.17	9.05	7.87	8.44	8.70	8.39

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

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

date	03-May-19	time	2.48	3.48	4.48	5.46	6.46	7.46	8.44	9.46	10.48	11.54	12.78	6 / 3			
reaction time	0.139	interval		1.00	1.00	0.98	1.00	1.00	0.98	1.02	1.02	1.06	1.24		2.98	2.98	3.10
wind	0.9 m/s	velocity	5.24	8.50	8.50	8.67	8.50	8.50	8.67	8.33	8.33	8.02	8.47	7.82	8.56	8.56	8.23

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

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

date	31-Aug-18	time	2.46	3.48	4.48	5.46	6.44	7.40	8.40	9.44	10.48	11.54	12.80	3 / 5			
reaction time	0.142	interval		1.02	1.00	0.98	0.98	0.96	1.00	1.04	1.04	1.06	1.26		3.00	2.94	3.14
wind	0.1 m/s	velocity	5.28	8.33	8.50	8.67	8.67	8.85	8.50	8.17	8.17	8.02	8.33	7.81	8.50	8.67	8.12

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

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

date	22-Jul-18	time	2.44	3.44	4.44	5.42	6.38	7.34	8.34	9.30	10.32	11.32	12.51	9 / 3			
reaction time	0.139	interval		1.00	1.00	0.98	0.96	0.96	1.00	0.96	1.02	1.00	1.19		2.98	2.92	2.98
wind	0.6 m/s	velocity	5.33	8.50	8.50	8.67	8.85	8.85	8.50	8.85	8.33	8.50	8.82	7.99	8.56	8.73	8.56

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

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

date	13-Jul-18	time	2.44	3.44	4.42	5.40	6.38	7.34	8.32	9.32	10.32	11.32	12.58	6 / 2			
reaction time	0.139	interval		1.00	0.98	0.98	0.98	0.96	0.98	1.00	1.00	1.00	1.26		2.96	2.92	3.00
wind	0.1 m/s	velocity	5.33	8.50	8.67	8.67	8.67	8.85	8.67	8.50	8.50	8.50	8.33	7.95	8.61	8.73	8.50

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

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

date	23-Jun-18	time	2.43	3.43	4.41	5.39	6.37	7.37	8.34	9.31	10.34	11.37	12.68	3 / 3			
reaction time		interval		1.00	0.98	0.98	0.98	1.00	0.97	0.97	1.03	1.03	1.31		2.96	2.95	3.03
wind	-1.4 m/s	velocity	5.35	8.50	8.67	8.67	8.67	8.50	8.76	8.76	8.25	8.25	8.02	7.89	8.61	8.64	8.42

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

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

date	31-May-18	time	2.48	3.50	4.48	5.46	6.46	7.46	8.44	9.44	10.46	11.50	12.76	6 / 1			
reaction time	0.138	interval		1.02	0.98	0.98	1.00	1.00	0.98	1.00	1.02	1.04	1.26		2.98	2.98	3.06
wind	0.0 m/s	velocity	5.24	8.33	8.67	8.67	8.50	8.50	8.67	8.50	8.33	8.17	8.33	7.84	8.56	8.56	8.33

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

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

date	12-May-18	time	2.46	3.44	4.40	5.38	6.34	7.30	8.28	9.26	10.28	11.28	12.52	6 / 2			
reaction time	0.145	interval		0.98	0.96	0.98	0.96	0.96	0.98	0.98	1.02	1.00	1.24		2.92	2.90	3.00
wind	0.9 m/s	velocity	5.28	8.67	8.85	8.67	8.85	8.85	8.67	8.67	8.33	8.50	8.47	7.99	8.73	8.79	8.50

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

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

date	04-May-18	time	2.44	3.44	4.44	5.40	6.38	7.42	8.44	9.44	10.48	11.50	12.75	3 / 3			
reaction time	0.153	interval		1.00	1.00	0.96	0.98	1.04	1.02	1.00	1.04	1.02	1.25		2.96	3.04	3.06
wind	0.5 m/s	velocity	5.33	8.50	8.50	8.85	8.67	8.17	8.33	8.50	8.17	8.33	8.40	7.84	8.61	8.39	8.33

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

FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)

date	03-Mar-18	time	2.62	3.65	4.65	5.62	6.58						7.86	3 / 4			
reaction time	0.163	interval		1.03	1.00	0.97	0.96						1.28		3.00		
		velocity	4.96	8.25	8.50	8.76	8.85						10.16	12.72	8.50		

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

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

date	24-Aug-17	time	2.50	3.48	4.46	5.44	6.42	7.40	8.38	9.38	10.36	11.38	12.55	5 / 2			
reaction time	0.135	interval		0.98	0.98	0.98	0.98	0.98	0.98	1.00	0.98	1.02	1.17		2.94	2.94	3.00

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

wind	-0.3 m/s	velocity	5.20	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.50	8.67	8.33	8.97	7.97		8.67	8.67	8.50	
FINAL - 2017 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)															<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	21-Jul-17	time	2.50	3.50	4.48	5.46	6.42	7.38	8.36	9.34	10.34	11.38		12.52		7 / 2				
reaction time	0.146	interval		1.00	0.98	0.98	0.96	0.96	0.98	0.98	1.00	1.04	1.14				2.96	2.90	3.02	
wind	-0.2 m/s	velocity	5.20	8.50	8.67	8.67	8.85	8.85	8.67	8.67	8.50	8.17	9.21	7.99			8.61	8.79	8.44	
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	09-Jul-17	time	2.50	3.52	4.50	5.48	6.44	7.42	8.38	9.40	10.40	11.42		12.62		8 / 3				
reaction time	0.144	interval		7 steps	1.02	0.98	0.98	0.96	0.98	0.96	1.02	1.00	1.02	1.20			2.98	2.90	3.04	
wind	0.2 m/s	velocity	5.20	8.33	8.67	8.67	8.85	8.67	8.85	8.33	8.50	8.33	8.75	7.92			8.56	8.79	8.39	
FINAL - 2017 Athletissima (Lausanne, SUI) (TV Analysis)															<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	06-Jul-17	time	2.46	3.46	4.44	5.41	6.37	7.33	8.30	9.30	10.30	11.30		12.53		6 / 1				
reaction time	0.129	interval		7 Steps	1.00	0.98	0.97	0.96	0.96	0.97	1.00	1.00	1.00	1.23			2.95	2.89	3.00	
wind	-0.1 m/s	velocity	5.28	8.50	8.67	8.76	8.85	8.85	8.76	8.50	8.50	8.50	8.54	7.98			8.64	8.82	8.50	
FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)															<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	04-Jul-17	time	2.48	3.52	4.52	5.50	6.46	7.44	8.42	9.42	10.42	11.44		12.69		1 / 3				
reaction time	0.160	interval		7 steps	1.04	1.00	0.98	0.96	0.98	0.98	1.00	1.00	1.02	1.25			3.02	2.92	3.02	
wind	0.1 m/s	velocity	5.24	8.17	8.50	8.67	8.85	8.67	8.67	8.50	8.50	8.33	8.40	7.88			8.44	8.73	8.44	
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	27-May-17	time	2.52	3.56	4.56	5.54	6.52	7.50	8.48	9.46	10.46	11.46		12.68		4 / 5				
reaction time	0.187	interval		7 steps	1.04	1.00	0.98	0.98	0.98	0.98	1.00	1.00	1.22				3.02	2.94	2.98	
wind	0.8 m/s	velocity	5.16	8.17	8.50	8.67	8.67	8.67	8.67	8.67	8.50	8.50	8.61	7.89			8.44	8.67	8.56	
FINAL - 2017 Doha Diamond League (Doha, QAT) (TV Analysis)															<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	05-May-17	time	2.52	3.58	4.62	5.62	6.64	7.64	8.64	9.64	10.66	11.70		12.91		2 / 3				
reaction time	0.142	interval		7 steps	1.06	1.04	1.00	1.02	1.00	1.00	1.00	1.02	1.04	1.21			3.10	3.02	3.06	
wind	-2.3 m/s	velocity	5.16	8.02	8.17	8.50	8.33	8.50	8.50	8.50	8.33	8.17	8.68	7.75			8.23	8.44	8.33	
FINAL - 2016 Athletissima (Luasanne, SUI) (TV Analysis)															<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	25-Aug-16	time	2.48	3.50	4.52	5.52	6.52	7.54	8.56	9.56	10.62	11.66		12.88		4 / 5				
reaction time	0.137	interval		7 steps	1.02	1.02	1.00	1.00	1.02	1.02	1.00	1.06	1.04	1.22			3.04	3.04	3.10	
wind	0.7 m/s	velocity	5.24	8.33	8.33	8.50	8.50	8.33	8.33	8.50	8.02	8.17	8.61	7.76			8.39	8.39	8.23	
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	08-Jul-16	time	2.50	3.52	4.50	5.50	6.47	7.41	8.37	9.34	10.37	11.37		12.60		8 / 5				
reaction time	0.159	interval		7 Steps	1.02	0.98	1.00	0.97	0.94	0.96	0.97	1.03	1.00	1.23			3.00	2.87	3.00	
wind	1.2 m/s	velocity	5.20	8.33	8.67	8.50	8.76	9.04	8.85	8.76	8.25	8.50	8.54	7.94			8.50	8.89	8.50	
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	28-May-16	time	2.44	3.46	4.50	5.48	6.48	7.48	8.48	9.48	10.52	11.56		12.82		5 / 5				
reaction time		interval		7 steps	1.02	1.04	0.98	1.00	1.00	1.00	1.04	1.04	1.26				3.04	3.00	3.08	
wind	0.7 m/s	velocity	5.33	8.33	8.17	8.67	8.50	8.50	8.50	8.50	8.17	8.17	8.33	7.80			8.39	8.50	8.28	
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)															<i>Henson (2021) - Athlete First: major championships report</i>					
date	28-Aug-15	time	2.52	3.56	4.56	5.56	6.52	7.50	8.48	9.46	10.46	11.58		13.06		6 / 8				
reaction time	0.168	interval		7 steps	1.04	1.00	1.00	0.96	0.98	0.98	1.00	1.12	1.48				3.04	2.92	3.10	
wind	-0.3 m/s	velocity	5.16	8.17	8.50	8.50	8.85	8.67	8.67	8.67	8.50	7.59	7.09	7.66			8.39	8.73	8.23	
Nemčėková, Nikola (CZE) (1997)																				
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)															<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.88	4.05	5.23	6.43	7.65	8.85	10.07	11.32	12.60	13.90		15.33		3 / 4				
reaction time	0.179	interval			1.17	1.18	1.20	1.22	1.20	1.22	1.25	1.28	1.30	1.43			3.55	3.64	3.83	
wind	-1.8 m/s	velocity	4.51	7.26	7.20	7.08	6.97	7.08	6.97	6.80	6.64	6.54	7.34	6.52			7.18	7.01	6.66	
Nemes, Rita (HUN) (1989)																				
Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympc Games - Results Book (2024)</i>					
date	08-Aug-24	time	2.65	3.78	4.88	5.96	7.02	8.09	9.17	10.25	11.35	12.46		13.82		4 / 7				
reaction time	0.193	interval			1.13	1.10	1.08	1.06	1.07	1.08	1.08	1.10	1.11	1.36			3.31	3.21	3.29	
wind	0.0 m/s	velocity	4.91	7.52	7.73	7.87	8.02	7.94	7.87	7.87	7.73	7.66	7.39	7.24			7.70	7.94	7.75	
Newton-Smith, Camryn (AUS) (2000)																				
Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympc Games - Results Book (2024)</i>					
date	08-Aug-24	time	2.48	3.56	4.60	5.65	6.70	7.75	8.83	9.91	11.00	12.11		13.46		2 / 3				
reaction time	0.145	interval			1.08	1.04	1.05	1.05	1.08	1.08	1.09	1.11	1.35				3.17	3.18	3.28	
wind	0.0 m/s	velocity	5.24	7.87	8.17	8.10	8.10	8.10	7.87	7.87	7.80	7.66	7.44	7.43			8.04	8.02	7.77	
Neziri, Nooralotta (FIN) (1992)																				
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	07-Mar-21	time	2.48	3.52	4.52	5.50	6.48							7.93		3 / 4				

reaction time 0.133 interval 1.04 1.00 0.98 0.98 1.45 3.02
velocity 5.24 8.17 8.50 8.67 8.67 8.97 7.57 8.44

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

date 14-Aug-20 time 2.56 3.66 4.66 5.66 6.66 7.66 8.70 9.70 10.70 11.76 13.01 6 / 2
reaction time 0.177 interval 1.10 1.00 1.00 1.00 1.00 1.04 1.00 1.00 1.06 1.25 3.10 3.04 3.06
wind 1.0 m/s velocity 5.08 7.73 8.50 8.50 8.50 8.50 8.17 8.50 8.50 8.02 8.04 7.69 8.23 8.39 8.33

FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date 11-Aug-20 time 2.58 3.62 4.64 5.64 6.66 7.66 8.66 9.70 10.74 11.78 13.00 5 / 5
reaction time 0.171 interval 1.04 1.02 1.00 1.02 1.00 1.00 1.04 1.04 1.04 1.22 3.06 3.02 3.12
wind 1.2 m/s velocity 5.04 8.17 8.33 8.50 8.33 8.50 8.50 8.17 8.17 8.17 8.24 7.69 8.33 8.44 8.17

FINAL - 2020 Motonet GP (Jyräskylä, FIN) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date 08-Jul-20 time 2.60 3.63 4.66 5.66 6.63 7.63 8.63 9.63 10.66 11.73 12.95 5 / 3
reaction time interval 1.03 1.03 1.00 0.97 1.00 1.00 1.00 1.03 1.07 1.22 3.06 2.97 3.10
wind 0.7 m/s velocity 5.00 8.25 8.25 8.50 8.76 8.50 8.50 8.50 8.25 7.94 8.24 7.72 8.33 8.59 8.23

Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date 06-Oct-19 time 2.44 3.46 4.46 5.46 6.44 7.42 8.42 9.44 10.46 11.50 12.89 2 / 5
reaction time 0.155 interval 1.02 1.00 1.00 0.98 0.98 1.00 1.02 1.02 1.04 1.39 3.02 2.96 3.08
wind 0.8 m/s velocity 5.33 8.33 8.50 8.50 8.67 8.67 8.50 8.33 8.33 8.17 7.23 7.76 8.44 8.61 8.28

FINAL - 2019 Bislett Games (Oslo, NOR) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date 13-Jun-19 time 2.62 3.68 4.72 5.76 6.76 7.80 8.84 9.88 10.92 11.98 13.18 8 / 7
reaction time 0.152 interval 1.06 1.04 1.04 1.00 1.04 1.04 1.04 1.04 1.06 1.20 3.14 3.08 3.14
wind 1.1 m/s velocity 4.96 8.02 8.17 8.17 8.50 8.17 8.17 8.17 8.17 8.02 8.75 7.59 8.12 8.28 8.12

FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)*Henson (2021) - Athlete First: 2016 year end hurdle report*

date 09-Sep-16 time 2.58 3.60 4.58 5.58 6.58 7.58 8.58 9.60 10.62 11.70 12.94 8 / 5
reaction time 0.146 interval 1.02 0.98 1.00 1.00 1.00 1.00 1.02 1.02 1.08 1.24 3.00 3.00 3.12
wind 0.1 m/s velocity 5.04 8.33 8.67 8.50 8.50 8.50 8.50 8.33 8.33 7.87 8.47 7.73 8.50 8.50 8.17

FINAL - 2013 Windsprint (Sundsvall, SWE)*(2013) - www.ssg.se/windsprint/Splittider/*

date 28-Jul-13 time 2.71 3.77 4.81 5.82 6.83 7.84 8.85 9.87 10.90 11.94 13.10 3 / 1
reaction time interval 1.06 1.04 1.01 1.01 1.01 1.01 1.02 1.03 1.04 1.16 NR 3.11 3.03 3.09
wind 1.2 m/s velocity 4.80 8.02 8.17 8.42 8.42 8.42 8.42 8.33 8.25 8.17 9.05 7.63 8.20 8.42 8.25

FINAL - 2013 European Indoor Championships (Göteborg, SWE)*Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx*

date 01-Mar-13 time 2.65 3.74 4.78 5.79 6.80 8.19 1 / 7
reaction time 0.143 interval 1.09 1.04 1.01 1.01 1.39 3.14
velocity 4.91 7.80 8.17 8.42 8.42 9.35 7.33 8.12

FINAL - 2011 Landskamp FIN-SWE-NOR (Tammefors, FIN)*Blomkvist (2011) - www.sub13.se*

date 05-Feb-11 time 2.54 3.64 4.68 5.74 6.80 8.32 / 3
reaction time interval 1.10 1.04 1.06 1.06 1.52 3.20
velocity 5.12 7.73 8.17 8.02 8.02 8.55 7.21 7.97

Niao Juxiu (CHN) (1998)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)*CAA Hurdle Development (2020)*

date	15-Sep-20	time	2.72	3.80	4.87	5.95	7.02	8.09	9.18	10.28	11.41	12.54	13.76	8 / 5			
reaction time	0.169	interval	1.08	1.07	1.08	1.07	1.07	1.09	1.10	1.13	1.13	1.22		3.23	3.23	3.36	
wind	-0.6 m/s	velocity	4.78	7.87	7.94	7.87	7.94	7.94	7.80	7.73	7.52	7.52	8.24	7.27	7.89	7.89	7.59

Nihonmatsu, Yui (JPN) (1999)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Semi-Final 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)*(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.66	3.77	4.86	5.93	7.01	8.10	9.19	10.29	11.40	12.55	13.84	6 / 3			
reaction time		interval	1.11	1.09	1.07	1.08	1.09	1.09	1.10	1.11	1.15	1.29		3.27	3.26	3.36	
wind	1.2 m/s	velocity	4.89	7.21	7.34	7.48	7.41	7.34	7.34	7.27	7.21	6.96	11.63	7.23	7.34	7.36	7.14

Heat 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)*(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.66	3.79	4.88	5.95	7.03	8.10	9.18	10.27	11.39	12.52	13.82	6 / 2			
reaction time		interval	1.13	1.09	1.07	1.08	1.07	1.08	1.09	1.12	1.13	1.30		3.29	3.23	3.34	
wind	1.6 m/s	velocity	4.89	7.08	7.34	7.48	7.41	7.48	7.41	7.34	7.14	7.08	11.54	7.24	7.29	7.43	7.19

Nishijima, Mai (JPN) (2004)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2021 Japanese High School National Championships (Fukui, JPN)*Shibayama (2021) - national high school and U20 national championships*

date	01-Aug-21	time	2.65	3.76	4.83	5.91	7.00	8.09	9.20	10.33	11.46	12.61	13.88	2 / 8			
reaction time	0.137	interval	1.11	1.07	1.08	1.09	1.09	1.11	1.13	1.13	1.15	1.27		3.26	3.29	3.41	
wind	1.8 m/s	velocity	4.91	7.66	7.94	7.87	7.80	7.80	7.66	7.52	7.52	7.39	7.91	7.20	7.82	7.75	7.48

Nishimura, Kaho (JPN) (1999)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)*Kota (2017) - 70th high school championships: JAF scientific committee- biomechanics data*

date	02-Aug-17	time	2.73	3.89	5.85	6.90	7.93	8.37	9.52	10.66	11.80	12.97		14.18	4 / 5				
reaction time	0.146	interval		1.16	1.96	1.05	1.03	0.44	1.15	1.14	1.14	1.17	1.21				4.17	2.62	3.45
wind	-2.9 m/s	velocity	4.76	7.33	4.34	8.10	8.25	19.32	7.39	7.46	7.46	7.26	8.68	7.05		6.12	9.73	7.39	
Nomura, Mitsuki (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)													<i>Takashima (2023) - national high school sports festival - biomechanics data</i>						
date	06-Aug-23	time	2.75	3.87	4.98	6.08	7.17	8.26	9.36	10.46	11.59	12.75		13.96	9 / 6				
reaction time	0.217	interval		1.12	1.11	1.10	1.09	1.09	1.10	1.10	1.13	1.16	1.21			3.33	3.28	3.39	
wind	0.8 m/s	velocity	4.73	7.59	7.66	7.73	7.80	7.80	7.73	7.73	7.52	7.33	8.31	7.16		7.66	7.77	7.52	
Nomura, Yuka (JPN) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)													<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>						
date	24-Jun-18	time	2.63	3.70	4.76	5.83	6.90	7.95	9.03	10.11	11.19	12.31		13.51	3 / 5				
reaction time	0.174	interval		1.07	1.06	1.07	1.07	1.05	1.08	1.08	1.08	1.12	1.20			3.20	3.20	3.28	
wind	1.1 m/s	velocity	4.94	7.94	8.02	7.94	7.94	8.10	7.87	7.87	7.87	7.59	8.75	7.40		7.97	7.97	7.77	
FINAL - 2017 Japanese National Championships (Osaka, JPN)													<i>(2017) - tfdata-store.com/2017/07/19/post-1068/</i>						
date	25-Jun-17	time	2.61	3.68	4.73	5.79	6.83	7.88	8.95	10.04	11.15	12.27		13.49	8 / 5				
reaction time	0.146	interval		1.07	1.05	1.06	1.04	1.05	1.07	1.09	1.11	1.12	1.22			3.18	3.16	3.32	
wind	0.4 m/s	velocity	4.98	7.94	8.10	8.02	8.17	8.10	7.94	7.80	7.66	7.59	8.61	7.41		8.02	8.07	7.68	
FINAL - 2017 Fuse Sprint (Tottori, JPN)													<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>						
date	04-Jun-17	time	2.63	3.73	4.83	5.90	6.98	8.06	9.14	10.25	11.38	12.53		13.78	3 / 7				
reaction time		interval		1.10	1.10	1.07	1.08	1.08	1.08	1.11	1.13	1.15	1.25			3.27	3.24	3.39	
wind	3.7 m/s	velocity	4.94	7.73	7.73	7.94	7.87	7.87	7.87	7.66	7.52	7.39	8.40	7.26		7.80	7.87	7.52	
Heat 3 - 2017 Fuse Sprint (Tottori, JPN)													<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>						
date	04-Jun-17	time	2.64	3.76	4.87	5.95	7.03	8.12	9.22	10.34	11.49	12.65		13.91	9 / 6				
reaction time		interval		1.12	1.11	1.08	1.08	1.09	1.10	1.12	1.15	1.16	1.26			3.31	3.27	3.43	
wind	1.3 m/s	velocity	4.92	7.59	7.66	7.87	7.87	7.80	7.73	7.59	7.39	7.33	8.33	7.19		7.70	7.80	7.43	
Nováčková, Olga (CZE) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)													<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>						
date	15-Jun-13	time	3.00	4.22	5.47	6.71	7.93	9.19	10.47	11.78				15.72	7 / 5				
reaction time	0.176	interval		1.22	1.25	1.24	1.22	1.26	1.28	1.31						3.71	3.76		
wind	-1.8 m/s	velocity	4.33	6.97	6.80	6.85	6.97	6.75	6.64	6.49				6.36		6.87	6.78		
Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)													<i>Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>						
date	25-Feb-12	time	2.92	4.15	5.41	6.65	7.90							9.55	8 / 7				
reaction time	0.156	interval		1.23	1.26	1.24	1.25							1.65		3.73			
		velocity	4.45	6.91	6.75	6.85	6.80							7.88	6.28	6.84			
Nugent, Ackera (JAM) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Memorial van damme (Brussels, BEL)													<i>Omega Timing (2024) - diamond league race analysis</i>						
date	14-Sep-24	time	2.60	3.58	4.56	5.51	6.47	7.42	8.39	9.39	10.39	11.42		12.55	5 / 3				
reaction time	0.130	interval		0.98	0.98	0.95	0.96	0.95	0.97	1.00	1.00	1.03	1.13			2.91	2.88	3.03	
wind	0.4 m/s	velocity	5.00	8.67	8.67	8.95	8.85	8.95	8.76	8.50	8.50	8.25	8.89	7.97		8.76	8.85	8.42	
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)													<i>Omega Timing (2024) - diamond league race analysis</i>						
date	30-Aug-24	time	2.40	3.42	4.37	5.31	6.27	7.21	8.16	9.12	10.08	11.06		12.24	7 / 1				
reaction time	0.153	interval		1.02	0.95	0.94	0.96	0.94	0.95	0.96	0.96	0.98	1.18	NR PB		2.91	2.85	2.90	
wind	-0.4 m/s	velocity	5.42	8.33	8.95	9.04	8.85	9.04	8.95	8.85	8.85	8.67	8.52	8.17		8.76	8.95	8.79	
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2024) - diamond league race analysis</i>						
date	25-Aug-24	time	2.40	3.42	4.38	5.32	6.25	7.17	8.13	9.11	10.10	11.08		12.29	5 / 1				
reaction time	0.147	interval		1.02	0.96	0.94	0.93	0.92	0.96	0.98	0.99	0.98	1.21			2.92	2.81	2.95	
wind	-0.5 m/s	velocity	5.42	8.33	8.85	9.04	9.14	9.24	8.85	8.67	8.59	8.67	8.31	8.14		8.73	9.07	8.64	
Heat B - 2024 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2024) - diamond league race analysis</i>						
date	25-Aug-24	time	2.39	3.40	4.35	5.30	6.24	7.21	8.16	9.12	10.09	11.08		12.30	3 / 1				
reaction time	0.140	interval		1.01	0.95	0.95	0.94	0.97	0.95	0.96	0.97	0.99	1.22			2.91	2.86	2.92	
wind	0.6 m/s	velocity	5.44	8.42	8.95	8.95	9.04	8.76	8.95	8.85	8.76	8.59	8.24	8.13		8.76	8.92	8.73	
FINAL - 2024 Athletissima (Lausanne, SUI)													<i>Omega Timing (2024) - diamond league race analysis</i>						
date	22-Aug-24	time	2.44	3.47	4.45	5.40	6.36	7.31	8.26	9.22	10.19	11.19		12.38	8 / 3				
reaction time	0.159	interval		1.03	0.98	0.95	0.96	0.95	0.95	0.96	0.97	1.00	1.19			2.96	2.86	2.93	
wind	-0.9 m/s	velocity	5.33	8.25	8.67	8.95	8.85	8.95	8.95	8.85	8.76	8.50	8.45	8.08		8.61	8.92	8.70	
FINAL - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>						
date	10-Aug-24	time	2.39	3.50	4.59	5.59	6.56	7.51	8.48					dnf	9 / 8				
reaction time	0.138	interval		1.11	1.09	1.00	0.97	0.95	0.97							3.20	2.89		
wind	-0.3 m/s	velocity	5.44	7.66	7.80	8.50	8.76	8.95	8.76							7.97	8.82		

Semi-Final 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	09-Aug-24	time	2.41	3.46	4.45	5.41	6.37	7.34	8.31	9.28	10.25	11.23		12.44	4 / 3			
reaction time	0.142	interval		1.05	0.99	0.96	0.96	0.97	0.97	0.97	0.97	0.98	1.21			3.00	2.90	2.92
wind	-0.7 m/s	velocity	5.39	8.10	8.59	8.85	8.85	8.76	8.76	8.76	8.76	8.67	8.31	8.04		8.50	8.79	8.73

Heat 5 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time	2.41	3.47	4.47	5.44	6.41	7.37	8.35	9.34	10.38	11.41		12.65	3 / 1			
reaction time	0.128	interval		1.06	1.00	0.97	0.97	0.96	0.98	0.99	1.04	1.03	1.24			3.03	2.91	3.06
wind	-0.6 m/s	velocity	5.39	8.02	8.50	8.76	8.76	8.85	8.67	8.59	8.17	8.25	8.10	7.91		8.42	8.76	8.33

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

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

date	28-Jun-24	time	2.53	3.53	4.50	5.47	6.41	7.35	8.30	9.27	10.24	11.22		12.28	3 / 1			
reaction time	0.145	interval		1.00	0.97	0.97	0.94	0.94	0.95	0.97	0.97	0.98	1.06	NR PB		2.94	2.83	2.92
wind	0.1 m/s	velocity	5.14	8.50	8.76	8.76	9.04	9.04	8.95	8.76	8.76	8.67	9.48	8.14		8.67	9.01	8.73

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

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

date	11-Feb-24	time	2.52	3.52	4.52	5.50	6.46							7.80	7 / 4			
reaction time	0.168	interval		1.00	1.00	0.98	0.96						1.34			2.98		
		velocity	5.16	8.50	8.50	8.67	8.85						9.70	7.69		8.56		

FINAL - 2023 World Athletics Championships (Budapest, HUN)

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

date	24-Aug-23	time	2.57	3.57	4.56	5.53	6.49	7.46	8.43	9.42	10.46	11.49		12.61	8 / 5			
reaction time	0.135	interval		1.00	0.99	0.97	0.96	0.97	0.97	0.99	1.04	1.03	1.12			2.96	2.90	3.06
wind	-0.2 m/s	velocity	5.06	8.50	8.59	8.76	8.85	8.76	8.76	8.59	8.17	8.25	8.97	7.93		8.61	8.79	8.33

Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

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

date	23-Aug-23	time	2.50	3.50	4.48	5.45	6.42	7.38	8.36	9.32	10.32	11.40		12.60	5 / 2			
reaction time	0.130	interval		1.00	0.98	0.97	0.97	0.96	0.98	0.96	1.00	1.08	1.20			2.95	2.91	3.04
wind	-0.7 m/s	velocity	5.20	8.50	8.67	8.76	8.76	8.85	8.67	8.85	8.50	7.87	8.38	7.94		8.64	8.76	8.39

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

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

date	22-Aug-23	time	2.54	3.55	4.50	5.46	6.42	7.42	8.40	9.42	10.43	11.46		12.60	7 / 1			
reaction time	0.134	interval		1.01	0.95	0.96	0.96	1.00	0.98	1.02	1.01	1.03	1.14			2.92	2.94	3.06
wind	0.1 m/s	velocity	5.12	8.42	8.95	8.85	8.85	8.50	8.67	8.33	8.42	8.25	8.82	7.94		8.73	8.67	8.33

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

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

date	10-Jun-23	time	2.44	3.42	4.39	5.32	6.27	7.20	8.15	9.10	10.09	11.08		12.25	6 / 1			
reaction time		interval		0.98	0.97	0.93	0.95	0.93	0.95	0.95	0.99	0.99	1.17			2.88	2.83	2.93
wind	3.8 m/s	velocity	5.33	8.67	8.76	9.14	8.95	9.14	8.95	8.95	8.59	8.59	8.59	8.16		8.85	9.01	8.70

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

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

date	26-Mar-22	time	2.50	3.53	4.53	5.50	6.47	7.43	8.40	9.40	10.43	11.46		12.72	6 / 3			
reaction time		interval		1.03	1.00	0.97	0.97	0.96	0.97	1.00	1.03	1.03	1.26			3.00	2.90	3.06
wind	2.5 m/s	velocity	5.20	8.25	8.50	8.76	8.76	8.85	8.76	8.50	8.25	8.25	7.98	7.86		8.50	8.79	8.33

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

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

date	12-Jun-21	time	2.53	3.57	4.58	5.57	6.56	7.54	8.54	9.56	10.58	11.66		12.84	4 / 3			
reaction time	0.148	interval		1.04	1.01	0.99	0.99	0.98	1.00	1.02	1.02	1.08	1.18			3.04	2.97	3.12
wind	0.4 m/s	velocity	5.14	8.17	8.42	8.59	8.59	8.67	8.50	8.33	8.33	7.87	8.52	7.79		8.39	8.59	8.17

Nunn-Cearns, Glynis (AUS) (1960)

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

Semi-Final 2 - 1983 IAAF World Championships (Helsinki, FIN)

Knoke (1984) - the hurdles

date	13-Aug-83	time	2.61	3.75	4.75	5.79	6.88	7.89	8.92	9.95	11.00	12.10		13.39	6 / 8			
reaction time		interval		1.14	1.00	1.04	1.09	1.01	1.03	1.03	1.05	1.10	1.29			3.18	3.13	3.18
wind	1.6 m/s	velocity	4.98	7.46	8.50	8.17	7.80	8.42	8.25	8.25	8.10	7.73	8.14	7.47		8.02	8.15	8.02

Quarter-Final 1 - 1983 IAAF World Championships (Helsinki, FIN)

Knoke (1984) - the hurdles

date	12-Aug-83	time	2.81	3.83	4.93	5.96	6.93	7.97	8.95	9.47	10.98	12.08		13.23	1 / 3			
reaction time		interval		1.02	1.10	1.03	0.97	1.04	0.98	0.52	1.51	1.10	1.15			3.15	2.99	3.13
wind	1.4 m/s	velocity	4.63	8.33	7.73	8.25	8.76	8.17	8.67	16.35	5.63	7.73	9.13	7.56		8.10	8.53	8.15

Nytra, Carolin (GER) (1985)

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

FINAL - 2010 European Championships (Barcelona, ESP)Graubner (2010) - <http://www.fgs.uni-halle.de>

date	31-Jul-10	time	2.59	3.61	4.61	5.60	6.58	7.55	8.54	9.55	10.57	11.61		12.68	6 / 3			
reaction time	0.177	interval		1.02	1.00	0.99	0.98	0.97	0.99	1.01	1.02	1.04	1.07			3.01	2.94	3.07
wind	-0.5 m/s	velocity	5.02	8.33	8.50	8.59	8.67	8.76	8.59	8.42	8.33	8.17	9.81	7.89		8.47	8.67	8.31

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

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

date	19-Aug-09	time	2.62	3.65	4.66	5.66	6.66	7.69	8.71	9.74	10.78	11.82		12.94	8 / 5			
reaction time	0.149	interval		1.03	1.01	1.00	1.00	1.03	1.02	1.03	1.04	1.04	1.12			3.04	3.05	3.11
wind	0.3 m/s	velocity	4.96	8.25	8.42	8.50	8.50	8.25	8.33	8.25	8.17	8.17	9.38	7.73		8.39	8.36	8.20

Heat 2 - 2009 IAAF World Championships (Berlin, GER)

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

date	18-Aug-09	time	2.63	3.65	4.65	5.67	6.67	7.69	8.72	9.77	10.82	11.89		13.03	5 / 3				
reaction time	0.148	interval		1.02	1.00	1.02	1.00	1.02	1.03	1.05	1.05	1.07	1.14			3.04	3.05	3.17	
wind	-0.3 m/s	velocity	4.94	8.33	8.50	8.33	8.50	8.33	8.25	8.10	8.10	7.94	9.21	7.67		8.39	8.36	8.04	
FINAL - 2009 ISTAF (Berlin, GER)															<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	14-Jun-09	time	2.67	3.69	4.72	5.73	6.76	7.79	8.81	9.85	10.89	11.95		13.01	/ 4				
reaction time	0.201	interval		1.02	1.03	1.01	1.03	1.03	1.02	1.04	1.04	1.06	1.06			3.06	3.08	3.14	
wind	-0.1 m/s	velocity	4.87	8.33	8.25	8.42	8.25	8.25	8.33	8.17	8.17	8.02	9.91	7.69		8.33	8.28	8.12	
Semi-Final 1 - 2008 Olympic Games (Beijing, CHN)															<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>				
date	18-Aug-08	time	2.60	3.63	4.66	5.67	6.68	7.70	8.73	9.75	10.79	11.87		12.99	2 / 7-6				
reaction time	0.144	interval		1.03	1.03	1.01	1.01	1.02	1.03	1.02	1.04	1.08	1.12			3.07	3.06	3.14	
wind	0.2 m/s	velocity	5.00	8.25	8.25	8.42	8.42	8.33	8.25	8.33	8.17	7.87	9.37	7.70		8.31	8.33	8.12	
O'Connor, Kate (IRL) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	08-Aug-24	time	2.63	3.80	4.91	6.01	7.10	8.22	9.33	10.44	11.57	12.71		14.08	7 / 7				
reaction time	0.137	interval		1.17	1.11	1.10	1.09	1.12	1.11	1.11	1.13	1.14	1.37			3.38	3.32	3.38	
wind	0.1 m/s	velocity	4.94	7.26	7.66	7.73	7.80	7.59	7.66	7.66	7.52	7.46	7.34	7.10		7.54	7.68	7.54	
O'Dowda, Jade (GBR) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	08-Aug-24	time	2.59	3.71	4.77	5.81	6.86	7.92	8.99	10.05	11.13	12.22		13.53	3 / 3				
reaction time	0.200	interval		1.12	1.06	1.04	1.05	1.06	1.07	1.06	1.08	1.09	1.31			3.22	3.18	3.23	
wind	0.1 m/s	velocity	5.02	7.59	8.02	8.17	8.10	8.02	7.94	8.02	7.87	7.80	7.67	7.39		7.92	8.02	7.89	
Odama, Karin (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 2 - 2023 Japanese Multi-Event National Championships (Akita, JPN)															<i>Matsubayashi (2024) - performance analysis of heptathlon athletes in the 2023 season</i>				
date	10-Jun-23	time	2.77	3.86	4.94	6.03	7.11	8.18	9.26	10.36	11.49	12.64		13.89	9 / 2				
reaction time		interval		1.09	1.08	1.09	1.08	1.07	1.08	1.10	1.13	1.15	1.25			3.26	3.23	3.38	
wind	-0.3 m/s	velocity	4.69	7.80	7.87	7.80	7.87	7.94	7.87	7.73	7.52	7.39	8.04	7.20		7.82	7.89	7.54	
Heptathlon - Heat 2 - 2023 Michitaka Kinami Memorial (Osaka, JPN)															<i>Matsubayashi (2024) - performance analysis of heptathlon athletes in the 2023 season</i>				
date	06-May-23	time	2.84	3.92	4.99	6.05	7.11	8.19	9.27	10.36	11.47	12.60		13.84	6 / 3				
reaction time	0.249	interval		1.08	1.07	1.06	1.06	1.08	1.08	1.09	1.11	1.13	1.24			3.21	3.22	3.33	
wind	-0.3 m/s	velocity	4.58	7.87	7.94	8.02	8.02	7.87	7.87	7.80	7.66	7.52	8.10	7.23		7.94	7.92	7.66	
Heptathlon - Heat 3 - 2022 Japanese Multi-Event National Championships (Akita, JPN)															<i>Takefu (2023) - performance analysis of heptathletes in the 2022 season</i>				
date	04-Jun-22	time	2.77	3.85	4.93	6.02	7.09	8.18	9.26	10.37	11.47	12.60		13.85	4 / 3				
reaction time		interval		1.08	1.08	1.09	1.07	1.09	1.08	1.11	1.10	1.13	1.25			3.25	3.24	3.34	
wind	0.4 m/s	velocity	4.69	7.87	7.87	7.80	7.94	7.80	7.87	7.66	7.73	7.52	8.04	7.22		7.85	7.87	7.63	
Heptathlon - Heat 3 - 2021 Japanese Multi-Event National Championships (Nagano, JPN)															<i>Matsubayashi (2021) - 100m hurdles race analysis of heptathletes in the 2021 season</i>				
date	12-Jun-21	time	2.72	3.82	4.89	5.96	7.02	8.07	9.14	10.21	11.29	12.42		13.66	6 / 3				
reaction time	0.189	interval		1.10	1.07	1.07	1.06	1.05	1.07	1.07	1.08	1.13	1.24			3.24	3.18	3.28	
wind	1.4 m/s	velocity	4.78	7.73	7.94	7.94	8.02	8.10	7.94	7.94	7.87	7.52	8.10	7.32		7.87	8.02	7.77	
Heptathlon - Heat 3 - 2020 Japanese Multi-Event National Championships (Nagano, JPN)															<i>Matsubayashi (2020) - research athlete performance technique- 2020 databook</i>				
date	26-Sep-20	time	2.76	3.87	4.95	6.02	7.08	8.15	9.22	10.35	11.44	12.59		13.82	5 / 2				
reaction time		interval		1.11	1.08	1.07	1.06	1.07	1.07	1.13	1.09	1.15	1.23			3.26	3.20	3.37	
wind	0.1 m/s	velocity	4.71	7.66	7.87	7.94	8.02	7.94	7.94	7.52	7.80	7.39	8.17	7.24		7.82	7.97	7.57	
Odvárková, Lucie (CZE) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE)															<i>Feher (2015) - Final report the U18 & U20 Czech Republic indoor national championships</i>				
date	14-Feb-15	time	2.82	4.07	5.31	6.53	7.82							9.43	8 / 6				
reaction time	0.359	interval		1.25	1.24	1.22	1.29						1.61			3.71			
		velocity	4.61	6.80	6.85	6.97	6.59						8.07	6.36		6.87			
Oeser, Jennifer (GER) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)															<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	15-Aug-09	time	2.71	3.78	4.84	5.89	6.96	8.09	9.20	10.28	11.38	12.49		13.62	3 / 6				
reaction time	0.137	interval		1.07	1.06	1.05	1.07	1.13	1.11	1.08	1.10	1.11	1.13			3.18	3.31	3.29	
wind	-0.4 m/s	velocity	4.80	7.94	8.02	8.10	7.94	7.52	7.66	7.87	7.73	7.66	9.29	7.34		8.02	7.70	7.75	
Oga, Yuri (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Shimane High School Championships (Izumo, JPN)															<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>				
date	28-May-17	time	2.80	3.97	5.10	6.23	7.37	8.50	9.63	10.80	11.97	13.17		14.58	7 / 1				
reaction time		interval		1.17	1.13	1.13	1.14	1.13	1.13	1.17	1.17	1.20	1.41			3.43	3.40	3.54	
wind	2.6 m/s	velocity	4.64	7.26	7.52	7.52	7.46	7.52	7.52	7.26	7.26	7.08	7.13	6.86		7.43	7.50	7.20	
Oikawa, Riko (JPN) (2005)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)															<i>Takashima (2023) - national high school sports festival - biomechanics data</i>				
date	06-Aug-23	time	2.78	3.85	5.03	6.19	7.32	8.44	9.55	10.66	11.79	12.91		14.19	5 / 8				

reaction time	0.234	interval	1.07	1.18	1.16	1.13	1.12	1.11	1.11	1.13	1.12	1.28		3.41	3.36	3.36	
wind	0.8 m/s	velocity	4.68	7.94	7.20	7.33	7.52	7.59	7.66	7.66	7.52	7.59	7.85	7.05	7.48	7.59	7.59

FINAL - 2023 Japanese U20 National Championships (Osaka, JPN) *Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date	03-Jun-23	time	2.72	3.84	4.94	6.02	7.10	8.17	9.32	10.43	11.53	12.68	14.01	7 / 6			
reaction time	0.181	interval	1.12	1.10	1.08	1.08	1.07	1.15	1.11	1.10	1.15	1.33			3.30	3.30	3.36
wind	-1.4 m/s	velocity	4.78	7.59	7.73	7.87	7.87	7.94	7.39	7.66	7.73	7.39	7.56	7.14	7.73	7.73	7.59

Okawa, Yuka (JPN) (2000)

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

date	02-Aug-17	time	2.75	3.89	5.03	6.15	7.28	8.42	9.55	10.68	11.80	12.91	14.16	8 / 4			
reaction time	0.153	interval	1.14	1.14	1.12	1.13	1.14	1.13	1.13	1.12	1.11	1.25			3.40	3.40	3.36
wind	-2.9 m/s	velocity	4.73	7.46	7.46	7.59	7.52	7.46	7.52	7.52	7.59	7.66	8.40	7.06	7.50	7.50	7.59

Semi-Final 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm) *(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.70	3.81	4.92	6.00	7.08	8.15	9.23	10.33	11.45	12.57	13.83	4 / 2			
reaction time		interval	1.11	1.11	1.08	1.08	1.07	1.08	1.10	1.12	1.12	1.26			3.30	3.23	3.34
wind	1.2 m/s	velocity	4.81	7.21	7.21	7.41	7.41	7.48	7.41	7.27	7.14	7.14	11.90	7.23	7.27	7.43	7.19

Heat 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm) *(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.70	3.81	4.93	6.03	7.13	8.22	9.33	10.45	11.59	12.73	14.01	5 / 1			
reaction time		interval	1.11	1.12	1.10	1.10	1.09	1.11	1.12	1.14	1.14	1.28			3.33	3.30	3.40
wind	1.1 m/s	velocity	4.81	7.21	7.14	7.27	7.27	7.34	7.21	7.14	7.02	7.02	11.72	7.14	7.21	7.27	7.06

Okamoto, Rika (JPN) (1997)

Heat 1 - 2016 Japanese National Junior Championships (Mizuho, JPN) *(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.78	3.87	4.95	6.02	7.09	8.16	9.26	10.38	11.53	12.70	13.99	8 / 2			
reaction time		interval	1.09	1.08	1.07	1.07	1.07	1.10	1.12	1.15	1.17	1.29			3.24	3.24	3.44
wind	1.7 m/s	velocity	4.68	7.80	7.87	7.94	7.94	7.94	7.73	7.59	7.39	7.26	8.14	7.15	7.87	7.87	7.41

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) *Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics data*

date	02-Aug-15	time	2.70	3.79	4.88	5.99	7.08	8.18	9.31	10.44	11.58	12.75	14.07	9 / 6			
reaction time		interval	1.09	1.09	1.11	1.09	1.10	1.13	1.13	1.14	1.17	1.32	PB		3.29	3.32	3.44
wind	0.9 m/s	velocity	4.81	7.80	7.80	7.66	7.80	7.73	7.52	7.52	7.46	7.26	7.95	7.11	7.75	7.68	7.41

Okazaki, Nagisa (JPN) (2001)

FINAL - 2017 Fuse Sprint (Tottori, JPN) *(2017) - tldata-store.com/2017/06/04/post-848/*

date	04-Jun-17	time	2.68	3.78	4.88	5.97	7.06	8.15	9.25	10.35	11.46	12.60	13.85	2 / 8			
reaction time		interval	1.10	1.10	1.09	1.09	1.09	1.10	1.10	1.11	1.14	1.25			3.29	3.28	3.35
wind	3.7 m/s	velocity	4.85	7.73	7.73	7.80	7.80	7.80	7.73	7.73	7.66	7.46	8.40	7.22	7.75	7.77	7.61

Okori, Reina-Flor (FRA) (1980)

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

date	18-Aug-08	time	2.63	3.70	4.65	5.71	6.73	7.74	8.77	9.80	10.84	11.89	13.05	1 / 6			
reaction time	0.153	interval	1.07	0.95	1.06	1.02	1.01	1.03	1.03	1.04	1.05	1.16			3.08	3.06	3.12
wind	0.2 m/s	velocity	4.94	7.94	8.95	8.02	8.33	8.42	8.25	8.25	8.17	8.10	9.05	7.66	8.28	8.33	8.17

Semi-Final 2 - 2004 Olympic Games (Athens, GRE) *Liagnone (2007) - Historique: Le 110m haies en chiffres*

date	23-Aug-04	time	2.60	3.66	4.68	5.67	6.64	7.62	8.61	9.62	10.64	11.66	12.81	6 / 6			
reaction time	0.187	interval	1.06	1.02	0.99	0.97	0.98	0.99	1.01	1.02	1.02	1.15	PB		3.07	2.94	3.05
wind	0.0 m/s	velocity	5.00	8.02	8.33	8.59	8.76	8.67	8.59	8.42	8.33	8.33	9.13	7.81	8.31	8.67	8.36

Okubo, Aoi (JPN) (2007)

FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN) *Takashima (2024) - national high school sports festival - biomechanics data*

date	01-Aug-24	time	2.68	3.81	4.90	6.00	7.07	8.15	9.25	10.36	11.50	12.73	14.04	9 / 8			
reaction time	0.142	interval	1.13	1.09	1.10	1.07	1.08	1.10	1.11	1.14	1.23	1.31			3.32	3.25	3.48
wind	1.0 m/s	velocity	4.85	7.52	7.80	7.73	7.94	7.87	7.73	7.66	7.46	6.91	7.67	7.12	7.68	7.85	7.33

Okubo, Heki (JPN)

FINAL - 2023 Japanese National High School Championships (Sapporo, JPN) *Takashima (2023) - national high school sports festival - biomechanics data*

date	06-Aug-23	time	2.78	3.91	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	1.09	1.14	1.17	1.28		3.31	3.24	3.40
wind	0.8 m/s	velocity	4.68	7.52	7.73	7.87	7.94	7.87	7.80	7.80	7.46	7.26	7.85	7.14	7.70	7.87	7.50

Okubo, Yuri (JPN) (1997)

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

date	29-Apr-22	time	2.74	3.86	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	1.08	1.13	1.13	1.25		3.30	3.20	3.34
wind	0.3 m/s	velocity	4.74	7.59	7.73	7.87	8.02	8.02	7.87	7.87	7.52	7.52	8.04	7.23	7.73	7.97	7.63

FINAL - 2021 Japanese National Championships (Osaka, JPN) *Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	27-Jun-21	time	2.67	3.74	4.80	5.84	6.89	7.91	8.97	10.03	11.11	12.20	13.44	5 / 5			
reaction time	0.132	interval	1.07	1.06	1.04	1.05	1.02	1.06	1.06	1.06	1.08	1.09	1.24		3.17	3.13	3.23

wind	0.0 m/s	velocity	4.87	7.94	8.02	8.17	8.10	8.33	8.02	8.02	7.87	7.80	8.10	7.44	8.04	8.15	7.89
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FINAL - 2021 Fuse Sprint (Tottori, JPN) *Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	06-Jun-21	time	2.67	3.72	4.75	5.78	6.79	7.81	8.83	9.88	10.93	12.00	13.21	8 / 6			
reaction time	0.152	interval	1.05	1.03	1.03	1.01	1.02	1.02	1.05	1.05	1.07	1.21	PB		3.11	3.05	3.17
wind	1.8 m/s	velocity	4.87	8.10	8.25	8.25	8.42	8.33	8.33	8.10	8.10	7.94	8.31	7.57	8.20	8.36	8.04

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

date	09-May-21	time	2.64	3.73	4.78	5.83	6.89	7.95	9.00	10.11	11.22	12.33	13.61	3 / 6			
reaction time	0.148	interval	1.09	1.05	1.05	1.06	1.06	1.05	1.11	1.11	1.11	1.28			3.19	3.17	3.33
wind	-0.8 m/s	velocity	4.92	7.80	8.10	8.10	8.02	8.02	8.10	7.66	7.66	7.66	7.85	7.35	7.99	8.04	7.66

FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN) *Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	29-Apr-21	time	2.66	3.71	4.74	5.78	6.80	7.83	8.87	9.93	10.99	12.06	13.31	8 / 3			
reaction time		interval	1.05	1.03	1.04	1.02	1.03	1.04	1.06	1.06	1.07	1.25	PB		3.12	3.09	3.19
wind	1.6 m/s	velocity	4.89	8.10	8.25	8.17	8.33	8.25	8.17	8.02	8.02	7.94	8.04	7.51	8.17	8.25	7.99

B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN) *Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

date	28-Apr-19	time	2.72	3.81	4.88	5.94	7.00	8.06	9.13	10.20	11.29	12.43	13.68	5 / 2			
reaction time		interval	1.09	1.07	1.06	1.06	1.06	1.07	1.07	1.09	1.14	1.25			3.22	3.19	3.30
wind	1.3 m/s	velocity	4.78	7.80	7.94	8.02	8.02	8.02	7.94	7.94	7.80	7.46	8.40	7.31	7.92	7.99	7.73

FINAL - 2018 Japanese National Championships (Yamaguchi, JPN) *Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	24-Jun-18	time	2.73	3.82	4.90	5.97	7.01	8.06	9.13	10.18	11.25	12.36	13.59	8 / 8			
reaction time	0.182	interval	1.09	1.08	1.07	1.04	1.05	1.07	1.05	1.07	1.11	1.23			3.24	3.16	3.23
wind	1.1 m/s	velocity	4.76	7.80	7.87	7.94	8.17	8.10	7.94	8.10	7.94	7.66	8.54	7.36	7.87	8.07	7.89

B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN) *(2017) - tfdata-store.com/2017/05/01/458/*

date	29-Apr-17	time	2.77	3.85	4.92	5.98	7.04	8.10	9.18	10.26	11.36	12.48	13.67	3 / 4			
reaction time		interval	1.08	1.07	1.06	1.06	1.06	1.08	1.08	1.10	1.12	1.19			3.21	3.20	3.30
wind	4.1 m/s	velocity	4.69	7.87	7.94	8.02	8.02	8.02	7.87	7.87	7.73	7.59	8.82	7.32	7.94	7.97	7.73

Olyslager, Marjan (NED) (1962) *H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR) *Bruggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	2.59	3.65	4.69	5.70	6.70	7.73	8.75	9.79	10.86	11.93	13.08	8 / 5			
reaction time	0.131	interval	1.06	1.04	1.01	1.00	1.03	1.02	1.04	1.07	1.07	1.15			3.11	3.05	3.18
wind	0.4 m/s	velocity	5.02	8.02	8.17	8.42	8.50	8.25	8.33	8.17	7.94	7.94	9.13	7.65	8.20	8.36	8.02

Omatso, Yuki (JPN) (1996) *H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*

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

date	07-May-23	time	2.64	3.71	4.79	5.85	6.89	7.94	9.01	10.08	11.17	12.27	13.49	9 / 8			
reaction time	0.129	interval	1.07	1.08	1.06	1.04	1.05	1.07	1.07	1.09	1.10	1.22			3.21	3.16	3.26
wind	0.7 m/s	velocity	4.92	7.94	7.87	8.02	8.17	8.10	7.94	7.94	7.80	7.73	8.24	7.41	7.94	8.07	7.82

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

date	29-Apr-22	time	2.70	3.80	4.90	6.00	7.07	8.16	9.24	10.34	11.48	12.61	13.84	4 / 6			
reaction time	0.153	interval	1.10	1.10	1.10	1.07	1.09	1.08	1.10	1.14	1.13	1.23			3.30	3.24	3.37
wind	0.3 m/s	velocity	4.81	7.73	7.73	7.73	7.94	7.80	7.87	7.73	7.46	7.52	8.17	7.23	7.73	7.87	7.57

Omura, Mika (JPN) (1995) *H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*

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

date	01-May-22	time	2.72	3.80	4.87	5.96	7.01	8.09	9.20	10.30	11.42	12.55	13.77	8 / 8			
reaction time	0.125	interval	1.08	1.07	1.09	1.05	1.08	1.11	1.10	1.12	1.13	1.22			3.24	3.24	3.35
wind	-0.6 m/s	velocity	4.78	7.87	7.94	7.80	8.10	7.87	7.66	7.73	7.59	7.52	8.24	7.26	7.87	7.87	7.61

FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN) *Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	20-Sep-20	time	2.70	3.79	4.85	5.94	7.01	8.09	9.18	10.28	11.39	12.54	13.79	3 / 8			
reaction time	0.153	interval	1.09	1.06	1.09	1.07	1.08	1.09	1.10	1.11	1.15	1.25			3.24	3.24	3.36
wind	0.0 m/s	velocity	4.81	7.80	8.02	7.80	7.94	7.87	7.80	7.73	7.66	7.39	8.04	7.25	7.87	7.87	7.59

Race 2 - 2020 World Athletics Trials (Fuji, JPN) *Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	06-Sep-20	time	2.71	3.81	4.87	5.93	6.99	8.04	9.11	10.21	11.33	12.47	13.71	/ 5			
reaction time		interval	1.10	1.06	1.06	1.06	1.05	1.07	1.10	1.12	1.14	1.24			3.22	3.18	3.36
wind	1.3 m/s	velocity	4.80	7.73	8.02	8.02	8.02	8.10	7.94	7.73	7.59	7.46	8.10	7.29	7.92	8.02	7.59

Onda, Misaki (JPN) (2004) *H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*

U18 FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (76cm) *Enomoto (2019) - research on athlete performance and technique- 2019 data book*

date	06-Oct-19	time	2.68	3.77	4.83	5.88	6.93	8.02	9.08	10.14	11.22	12.32	13.58	7 / 1			
reaction time	0.169	interval	1.09	1.06	1.05	1.05	1.09	1.06	1.06	1.08	1.10	1.26			3.20	3.20	3.24
wind	1.6 m/s	velocity	4.85	7.80	8.02	8.10	8.10	7.80	8.02	8.02	7.87	7.73	8.33	7.36	7.97	7.97	7.87

Ono, Yui (JPN) (1999) *H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*

Semi-Final 1 - 2016 Japanese National Junior Championships (Mizuho, JPN) *(2016.10.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.68	3.76	4.83	5.89	6.94	8.02	9.09	10.18	11.27	12.40		13.64	3 / 1				
reaction time		interval		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
wind	1.2 m/s	velocity	4.85	7.87	7.94	8.02	8.10	7.87	7.94	7.80	7.80	7.52	8.47	7.33			7.94	7.97	7.70
Heat 3 - 2016 Japanese National Junior Championships (Mizuho, JPN) (2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																			
date	21-Oct-16	time	2.68	3.77	4.84	5.92	6.99	8.05	9.13	10.22	11.32	12.45		13.68	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
wind	1.5 m/s	velocity	4.85	7.80	7.94	7.87	7.94	8.02	7.87	7.80	7.73	7.52	8.54	7.31			7.87	7.94	7.68
FINAL - 2016 Kanto Area High School Championships (Tokyo, JPN) (2016.06.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																			
date	17-Jun-16	time	2.74	3.84	4.98	6.10	7.23	8.37	9.52	10.65	11.81	13.00		14.26	5 / 1				
reaction time		interval		1.10	1.14	1.12	1.13	1.14	1.15	1.13	1.16	1.19	1.26				3.36	3.42	3.48
wind	-1.5 m/s	velocity	4.74	7.73	7.46	7.59	7.52	7.46	7.39	7.52	7.33	7.14	8.33	7.01			7.59	7.46	7.33
Onyia, Josephine (ESP) (1986)																			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER) Graubner (2009) - http://www.fgs.uni-halle.de																			
date	13-Sep-08	time	2.55	3.59	4.58	5.54	6.50	7.47	8.45	9.44	10.43	11.46		12.54	6 / 4				
reaction time	0.154	interval		1.04	0.99	0.96	0.96	0.97	0.98	0.99	0.99	1.03	1.08	DV			2.99	2.91	3.01
wind	0.3 m/s	velocity	5.10	8.17	8.59	8.85	8.85	8.76	8.67	8.59	8.59	8.25	9.72	7.97			8.53	8.76	8.47
Semi-Final 1 - 2008 Olympic Games (Beijing, CHN) Tsiokanos (2017) - <i>race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>																			
date	18-Aug-08	time	2.60	3.69	4.71	5.72	6.73	7.73	8.72	9.74	10.76	11.79		12.86	4 / 5				
reaction time	0.203	interval		1.09	1.02	1.01	1.01	1.00	0.99	1.02	1.02	1.03	1.07	DV			3.12	3.00	3.07
wind	0.2 m/s	velocity	5.00	7.80	8.33	8.42	8.42	8.50	8.59	8.33	8.33	8.25	9.81	7.78			8.17	8.50	8.31
FINAL - 2008 ISTAF (Berlin, GER) (TV Analysis) Graubner (2008) - http://www.fgs.uni-halle.de																			
date	01-Jun-08	time	2.58	3.60	4.58	5.55	6.51	7.48	8.46	9.43	10.41	11.42		12.50	/ 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
wind	0.8 m/s	velocity	5.04	8.33	8.67	8.76	8.85	8.76	8.67	8.76	8.67	8.42	9.72	8.00			8.59	8.76	8.61
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER) Graubner (2007) - http://www.fgs.uni-halle.de																			
date	22-Sep-07	time	2.57	3.62	4.62	5.60	6.60	7.58	8.56	9.57	10.59	11.62		12.70	2 / 2				
reaction time	0.159	interval		1.05	1.00	0.98	1.00	0.98	0.98	1.01	1.02	1.03	1.08				3.03	2.96	3.06
wind	-0.3 m/s	velocity	5.06	8.10	8.50	8.67	8.50	8.67	8.67	8.42	8.33	8.25	9.72	7.87			8.42	8.61	8.33
Oosterwegel, Emma (NED) (1998)																			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympic Games - Results Book (2024)																			
date	08-Aug-24	time	2.57	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
wind	0.0 m/s	velocity	5.06	7.52	7.94	8.10	8.25	8.17	8.10	8.17	8.10	7.94	7.67	7.46			7.85	8.17	8.07
O'Rourke, Derval (IRL) (1981)																			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 European Indoor Championships (Göteborg, SWE) Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx																			
date	01-Mar-13	time	2.58	3.60	4.61	5.61	6.63							7.95	2 / 4-3				
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		
FINAL - 2010 European Championships (Barcelona, ESP) Graubner (2010) - http://www.fgs.uni-halle.de																			
date	31-Jul-10	time	2.59	3.61	4.60	5.57	6.55	7.53	8.53	9.53	10.54	11.57		12.65	7 / 2				
reaction time	0.172	interval		1.02	0.99	0.97	0.98	0.98	1.00	1.00	1.01	1.03	1.08	NR			2.98	2.96	3.04
wind	-0.5 m/s	velocity	5.02	8.33	8.59	8.76	8.67	8.67	8.50	8.50	8.42	8.25	9.72	7.91			8.56	8.61	8.39
FINAL - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - <i>biomechanical analyses at the 12th IAAF world championships</i>																			
date	19-Aug-09	time	2.58	3.57	4.55	5.53	6.52	7.51	8.49	9.50	10.52	11.58		12.67	1 / 4				
reaction time	0.128	interval		0.99	0.98	0.98	0.99	0.99	0.98	1.01	1.02	1.06	1.09	NR			2.95	2.96	3.09
wind	0.2 m/s	velocity	5.04	8.59	8.67	8.67	8.59	8.59	8.67	8.42	8.33	8.02	9.63	7.89			8.64	8.61	8.25
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - <i>biomechanical analyses at the 12th IAAF world championships</i>																			
date	19-Aug-09	time	2.60	3.60	4.60	5.59	6.57	7.55	8.55	9.58	10.60	11.65		12.73	5 / 3				
reaction time	0.148	interval		1.00	1.00	0.99	0.98	0.98	1.00	1.03	1.02	1.05	1.08				2.99	2.96	3.10
wind	0.3 m/s	velocity	5.00	8.50	8.50	8.59	8.67	8.67	8.50	8.25	8.33	8.10	9.72	7.86			8.53	8.61	8.23
Heat 3 - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - <i>biomechanical analyses at the 12th IAAF world championships</i>																			
date	18-Aug-09	time	2.61	3.61	4.61	5.61	6.59	7.60	8.61	9.64	10.70	11.77		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
wind	0.1 m/s	velocity	4.98	8.50	8.50	8.50	8.67	8.42	8.42	8.25	8.02	7.94	9.63	7.78			8.50	8.50	8.07
FINAL - 2009 ISTAF (Berlin, GER) Graubner (2009) - http://www.fgs.uni-halle.de																			
date	14-Jun-09	time	2.63	3.70	4.72	5.75	6.77	7.81	8.86	9.91	10.99	12.09		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
wind	-0.1 m/s	velocity	4.94	7.94	8.33	8.25	8.33	8.17	8.10	8.10	7.87	7.73	9.37	7.57			8.17	8.20	7.89
Ørving, Tale (NOR) (1989)																			
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	

FINAL - 2013 Windsprint (Sundsvall, SWE)(2013) - www.ssg.se/windsprint/Splittider/

date	28-Jul-13	time	2.70	3.82	4.93	6.01	7.11	8.19	9.26	10.34	11.42	12.51		13.74	5 / 3			
reaction time		interval		1.12	1.11	1.08	1.10	1.08	1.07	1.08	1.08	1.09	1.23			3.31	3.25	3.25
wind	1.2 m/s	velocity	4.81	7.59	7.66	7.87	7.73	7.87	7.94	7.87	7.87	7.80	8.54	7.28		7.70	7.85	7.85

Oschkenat, Cornelia (GDR) (1961)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 1989 IAAF World Cup (Barcelona, ESP)***Gill (1990) - atletismo (I) carreras y marcha*

date	09-Sep-89	time	2.55	3.59	4.58	5.56	6.52	7.50	8.51	9.50	10.51	11.53		12.60	/ 1			
reaction time		interval		1.04	0.99	0.98	0.96	0.98	1.01	0.99	1.01	1.02	1.07			3.01	2.95	3.02
wind	-0.3 m/s	velocity	5.10	8.17	8.59	8.67	8.85	8.67	8.42	8.59	8.42	8.33	9.81	7.94		8.47	8.64	8.44

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

date	30-Sep-88	time	2.53	3.56	4.54	5.58	6.58	7.65	8.70	9.77	10.90	12.10		13.73	6 / 8			
reaction time	0.138	interval		1.03	0.98	1.04	1.00	1.07	1.05	1.07	1.13	1.20	1.63			3.05	3.12	3.40
wind	0.2 m/s	velocity	5.14	8.25	8.67	8.17	8.50	7.94	8.10	7.94	7.52	7.08	6.44	7.28		8.36	8.17	7.50

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	2.56	3.59	4.59	5.56	6.54	7.51	8.51	9.51	10.51	11.52		12.63	4 / 1			
reaction time	0.138	interval		1.03	1.00	0.97	0.98	0.97	1.00	1.00	1.00	1.01	1.11			3.00	2.95	3.01
wind	0.4 m/s	velocity	5.08	8.25	8.50	8.76	8.67	8.76	8.50	8.50	8.50	8.42	9.46	7.92		8.50	8.64	8.47

Riefstahl-Oschkenat, Cornelia (GDR) (1961)**FINAL - 1987 IAAF World Championships (Rome, ITA)***Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics*

date	04-Sep-87	time	2.50	3.50	4.48	5.46	6.43	7.40	8.38	9.36	10.35	11.36		12.46	6 / 3			
reaction time		interval		1.00	0.98	0.98	0.97	0.97	0.98	0.98	0.99	1.01	1.10			2.96	2.92	2.98
wind	-0.5 m/s	velocity	5.20	8.50	8.67	8.67	8.76	8.76	8.67	8.67	8.59	8.42	9.55	8.03		8.61	8.73	8.56

Semi-Final 1 - 1987 IAAF World Championships (Rome, ITA)*Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics*

date	04-Sep-87	time	2.47	3.54	4.56	5.56	6.52	7.51	8.50	9.49	10.49	11.53		12.65	4 / 1			
reaction time		interval		1.07	1.02	1.00	0.96	0.99	0.99	0.99	1.00	1.04	1.12			3.09	2.94	3.03
wind	-0.2 m/s	velocity	5.26	7.94	8.33	8.50	8.85	8.59	8.59	8.59	8.50	8.17	9.37	7.91		8.25	8.67	8.42

Heat 3 - 1987 IAAF World Championships (Rome, ITA)*Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics*

date	03-Sep-87	time	2.62	3.66	4.66	5.63	6.62	7.62	8.61	9.62	10.62	11.66		12.83	/ 1			
reaction time		interval		1.04	1.00	0.97	0.99	1.00	0.99	1.01	1.00	1.04	1.17			3.01	2.98	3.05
wind	-0.8 m/s	velocity	4.96	8.17	8.50	8.76	8.59	8.50	8.59	8.42	8.50	8.17	8.97	7.79		8.47	8.56	8.36

FINAL - 1987 European Cup (Prague, TCH)*Sušanka (1987) - hints on computer processing of biomechanical data*

date	28-Jun-87	time	2.57	3.59	4.56	5.52	6.48	7.44	8.40	9.40	10.40	11.40		12.47	1 / 1			
reaction time		interval		1.02	0.97	0.96	0.96	0.96	0.96	1.00	1.00	1.00	1.07	CR		2.95	2.88	3.00
wind	-0.9 m/s	velocity	5.06	8.33	8.76	8.85	8.85	8.85	8.85	8.50	8.50	8.50	9.81	8.02		8.64	8.85	8.50

FINAL - 1987 GDR vs. USSR (Karl-Marx-Stadt, GDR)*Breiser (1990) - the road to success- skill analysis of leading women hurdlers*

date	21-Jun-87	time	2.50	3.50	4.48	5.46	6.43	7.40	8.38	9.36	10.35	11.36		12.46	/ 1			
reaction time	0.135	interval		1.00	0.98	0.98	0.97	0.97	0.98	0.98	0.99	1.01	1.10			2.96	2.92	2.98
wind	1.6 m/s	velocity	5.20	8.50	8.67	8.67	8.76	8.76	8.67	8.67	8.59	8.42	9.55	8.03		8.61	8.73	8.56

FINAL - 1986 East German National Championships (Jena, GDR)*Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes*

date	27-Jun-86	time	2.53	3.56	4.56	5.55	6.49	7.48	8.47	9.46	10.45	11.45		12.56	/ 1			
reaction time		interval		1.03	1.00	0.99	0.94	0.99	0.99	0.99	0.99	1.00	1.11			3.02	2.92	2.98
wind	1.4 m/s	velocity	5.14	8.25	8.50	8.59	9.04	8.59	8.59	8.59	8.59	8.50	9.46	7.96		8.44	8.73	8.56

Oshiro, Yurika (JPN) (1998)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 6 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)***(2016.11.03) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.75	3.87	4.99	6.09	7.21	8.33	9.44	10.57	11.72	12.86		14.09	4 / 3			
reaction time		interval		1.12	1.12	1.10	1.12	1.12	1.11	1.13	1.15	1.14	1.23			3.34	3.35	3.42
wind	2.1 m/s	velocity	4.73	7.14	7.14	7.27	7.14	7.14	7.21	7.08	6.96	7.02	12.20	7.10		7.19	7.16	7.02

Otani, Sumire (JPN) (2005)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2021 Japanese High School National Championships (Fukui, JPN)***Shibayama (2021) - national high school and U20 national championships*

date	01-Aug-21	time	2.71	3.82	4.90	5.98	7.06	8.13	9.20	10.30	11.42	12.56		13.81	8 / 7			
reaction time	0.185	interval		1.11	1.08	1.08	1.08	1.07	1.07	1.10	1.12	1.14	1.25			3.27	3.22	3.36
wind	1.8 m/s	velocity	4.80	7.66	7.87	7.87	7.87	7.94	7.94	7.73	7.59	7.46	8.04	7.24		7.80	7.92	7.59

FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	26-Jun-21	time	2.74	3.85	4.96	6.05	7.14	8.23	9.33	10.43	11.56	12.72		13.92	7 / 4			
reaction time	0.199	interval		1.11	1.11	1.09	1.09	1.09	1.10	1.10	1.13	1.16	1.20			3.31	3.28	3.39
wind	0.2 m/s	velocity	4.74	7.66	7.66	7.80	7.80	7.80	7.73	7.73	7.52	7.33	8.38	7.18		7.70	7.77	7.52

Owens, Bridgette (USA) (1992)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2018 Bislett Games (Oslo, NOR) (TV Analysis)***Henson (2020) - Athlete First: 2018 year end hurdle report*

date	07-Jun-18	time	2.56	3.60	4.62	5.62	6.60	7.60	8.62	9.64	10.66	11.72		12.98	1 / 7			
reaction time	0.232	interval		1.04	1.02	1.00	0.98	1.00	1.02	1.02	1.02	1.06	1.26			3.06	3.00	3.10
wind	1.1 m/s	velocity	5.08	8.17	8.33	8.50	8.67	8.50	8.33	8.33	8.33	8.02	8.33	7.70		8.33	8.50	8.23

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Oyamada, Tamaki (JPN)																		
Heat 2 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)												(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en						
date	21-Oct-16	time	2.74	3.83	4.91	5.99	7.10	8.22	9.34	10.48	11.63	12.84		14.15	8 / 3			
reaction time		interval		1.09	1.08	1.08	1.11	1.12	1.12	1.14	1.15	1.21	1.31			3.25	3.35	3.50
wind	0.4 m/s	velocity	4.74	7.34	7.41	7.41	7.21	7.14	7.14	7.02	6.96	6.61	11.45	7.07		7.38	7.16	6.86
Ozaki, Saki (JPN) (1999)																		
Heat 3 - 2016 Japanese National Junior Championships (Mizuho, JPN)												(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en						
date	21-Oct-16	time	2.79	3.93	5.05	6.16	7.26	8.39	9.52	10.64	11.79	12.98		14.29	2 / 3			
reaction time		interval		1.14	1.12	1.11	1.10	1.13	1.13	1.12	1.15	1.19	1.31			3.37	3.36	3.46
wind	1.5 m/s	velocity	4.66	7.46	7.59	7.66	7.73	7.52	7.52	7.59	7.39	7.14	8.02	7.00		7.57	7.59	7.37
Paetz, Sabine (GDR) (1957)																		
FINAL - 1986 East German National Championships (Jena, GDR)												Aubert (1987) - <i>mesures et observations biomecaniques a propos des courses de haies hautes</i>						
date	27-Jun-86	time	2.54	3.58	4.59	5.61	6.58	7.56	8.58	9.62	10.64	11.71		12.89	/ 4			
reaction time		interval		1.04	1.01	1.02	0.97	0.98	1.02	1.04	1.02	1.07	1.18			3.07	2.97	3.13
wind	1.4 m/s	velocity	5.12	8.17	8.42	8.33	8.76	8.67	8.33	8.17	8.33	7.94	8.90	7.76		8.31	8.59	8.15
Pang Jiewen (CHN) (1967)																		
FINAL - 1993 Chinese National Games (Beijing, CHN)												Bo (1996) - <i>a study on female 100m hurdles running rhythm in the 7th national games</i>						
date	09-Sep-93	time	2.53	3.57	4.60	5.62	6.64	7.68	8.72	9.76	10.82	11.98		13.12	/ 4			
reaction time		interval		1.04	1.03	1.02	1.02	1.04	1.04	1.04	1.06	1.14				3.09	3.10	3.26
wind	0.1 m/s	velocity	5.14	8.17	8.25	8.33	8.33	8.17	8.17	8.17	8.02	7.33	9.21	7.62		8.25	8.23	7.82
Pang Yuting (CHN) (1995)																		
Heptathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)												CAA Hurdle Development (2019)						
date	23-Aug-19	time	2.77	3.92	5.10	6.26	7.41	8.58	9.73	10.91	12.11	13.33		14.69	5 / 2			
reaction time		interval		1.15	1.18	1.16	1.15	1.17	1.15	1.18	1.20	1.22	1.36			3.49	3.47	3.60
wind	?? m/s	velocity	4.69	7.39	7.20	7.33	7.39	7.26	7.39	7.20	7.08	6.97	7.72	6.81		7.31	7.35	7.08
Heptathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)												CAA Hurdle Development (2019)						
date	08-Jul-19	time	2.75	3.95	5.09	6.21	7.31	8.53	9.69	10.86	12.03	13.23		14.62	3 / 3			
reaction time		interval		1.20	1.14	1.12	1.10	1.22	1.16	1.17	1.17	1.20	1.39			3.46	3.48	3.54
wind	0.8 m/s	velocity	4.73	7.08	7.46	7.59	7.73	6.97	7.33	7.26	7.26	7.08	7.55	6.84		7.37	7.33	7.20
Patzwahl, Kristin (GER) (1965)																		
FINAL - 1991 European Cup (Frankfurt, GER)												Graubner (2008) - http://www.fgs.uni-halle.de						
date	30-Jun-91	time	2.62	3.65	4.67	5.69	6.70	7.72	8.74	9.78	10.83	11.90		13.10	/ 3			
reaction time		interval		1.03	1.02	1.02	1.01	1.02	1.02	1.04	1.05	1.07	1.20			3.07	3.05	3.16
wind	-2.1 m/s	velocity	4.96	8.25	8.33	8.33	8.42	8.33	8.33	8.17	8.10	7.94	8.75	7.63		8.31	8.36	8.07
Pearson, Sally (AUS) (1986)																		
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)												Kijima (2019) - <i>race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>						
date	19-May-19	time	2.56	3.57	4.55	5.53	6.51	7.49	8.48	9.48	10.50	11.54		12.70	5 / 2			
reaction time		interval		1.01	0.98	0.98	0.98	0.98	0.99	1.00	1.02	1.04	1.16			2.97	2.95	3.06
wind	0.4 m/s	velocity	5.08	8.42	8.67	8.67	8.67	8.67	8.59	8.50	8.33	8.17	9.05	7.87		8.59	8.64	8.33
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)												Kobayashi (2019) - <i>research on athlete performance and technique- 2019 data book</i>						
date	28-Apr-19	time	2.61	3.65	4.64	5.66	6.64	7.63	8.65	9.66	10.71	11.78		12.99	3 / 1			
reaction time		interval		1.04	0.99	1.02	0.98	0.99	1.02	1.01	1.05	1.07	1.21			3.05	2.99	3.13
wind	0.6 m/s	velocity	4.98	8.17	8.59	8.33	8.67	8.59	8.33	8.42	8.10	7.94	8.68	7.70		8.36	8.53	8.15
FINAL - 2017 Weltklasse (Zürich, SUI) (TV Analysis)												Henson (2020) - <i>Athlete First: 2017 year end hurdle report</i>						
date	24-Aug-17	time	2.48	3.50	4.48	5.46	6.44	7.40	8.38	9.36	10.36	11.38		12.55	6 / 1			
reaction time		interval		1.02	0.98	0.98	0.98	0.96	0.98	0.98	1.00	1.02	1.17			2.98	2.92	3.00
wind	-0.3 m/s	velocity	5.24	8.33	8.67	8.67	8.67	8.85	8.67	8.67	8.50	8.33	8.97	7.97		8.56	8.73	8.50
FINAL - 2017 IAAF World Championships (London, GBR)												Pollitt (2018) - <i>biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>						
date	12-Aug-17	time	2.41	3.45	4.46	5.45	6.43	7.39	8.36	9.35	10.35	11.37		12.59	4 / 1			
reaction time		interval		1.04	1.01	0.99	0.98	0.96	0.97	0.99	1.00	1.02	1.22			3.04	2.91	3.01
wind	0.1 m/s	velocity	5.39	8.17	8.42	8.59	8.67	8.85	8.76	8.59	8.50	8.33	8.61	7.94		8.39	8.76	8.47
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)												Pollitt (2018) - <i>biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>						
date	11-Aug-17	time	2.39	3.43	4.42	5.40	6.37	7.31	8.28	9.27	10.27	11.29		12.53	6 / 1			
reaction time		interval		1.04	0.99	0.98	0.97	0.94	0.97	0.99	1.00	1.02	1.24			3.01	2.88	3.01
wind	0.5 m/s	velocity	5.44	8.17	8.59	8.67	8.76	9.04	8.76	8.59	8.50	8.33	8.47	7.98		8.47	8.85	8.47
FINAL - 2017 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)												Henson (2020) - <i>Athlete First: 2017 year end hurdle report</i>						
date	21-Jul-17	time	2.52	3.54	4.56	5.56	6.54	7.54	8.52	9.50	10.50	11.54		12.68	5 / 5			
reaction time		interval		1.02	1.02	1.00	0.98	1.00	0.98	0.98	1.00	1.04	1.14			3.04	2.96	3.02
wind	-0.2 m/s	velocity	5.16	8.33	8.33	8.50	8.67	8.50	8.67	8.67	8.50	8.17	9.21	7.89		8.39	8.61	8.44

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

date	09-Jul-17	time	2.48	3.48	4.46	5.42	6.38	7.34	8.30	9.26	10.26	11.30	12.48	4 / 2				
reaction time	0.139	interval		1.00	0.98	0.96	0.96	0.96	0.96	0.96	1.00	1.04	1.18		2.94	2.88	3.00	
wind	0.2 m/s	velocity	5.24	8.50	8.67	8.85	8.85	8.85	8.85	8.85	8.50	8.17	8.90	8.01		8.67	8.85	8.50

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

date	04-Jul-17	time	2.48	3.50	4.48	5.48	6.48	7.48	8.48	9.48	10.50	11.54	12.76	7 / 6				
reaction time	0.135	interval		1.02	0.98	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.22		3.00	3.00	3.06	
wind	0.1 m/s	velocity	5.24	8.33	8.67	8.50	8.50	8.50	8.50	8.50	8.33	8.17	8.61	7.84		8.50	8.50	8.33

FINAL - 2016 Bislett Games (Oslo, NOR) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	09-Jun-16	time	2.54	3.56	4.60	5.62	6.64	7.66	8.68	9.72	10.80	11.86	13.14	1 / 7				
reaction time	0.116	interval		1.02	1.04	1.02	1.02	1.02	1.02	1.04	1.08	1.06	1.28		3.08	3.06	3.18	
wind	-0.4 m/s	velocity	5.12	8.33	8.17	8.33	8.33	8.33	8.33	8.17	7.87	8.02	8.20	7.61		8.28	8.33	8.02

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

date	05-Jun-16	time	2.53	3.56	4.60	5.63	6.66	7.68	8.70	9.74	10.80	11.93	13.25	4 / 7				
reaction time	0.129	interval		1.03	1.04	1.03	1.03	1.02	1.02	1.04	1.06	1.13	1.32		3.10	3.07	3.23	
wind	-0.3 m/s	velocity	5.14	8.25	8.17	8.25	8.25	8.33	8.33	8.17	8.02	7.52	7.95	7.55		8.23	8.31	7.89

FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	10-May-15	time	2.57	3.59	4.58	5.56	6.54	7.51	8.49	9.49	10.49	11.54	12.66	4 / 1				
reaction time	0.144	interval		1.02	0.99	0.98	0.98	0.97	0.98	1.00	1.00	1.05	1.12		2.99	2.93	3.05	
wind	0.9 m/s	velocity	5.06	8.33	8.59	8.67	8.67	8.76	8.67	8.50	8.50	8.10	9.37	7.90		8.53	8.70	8.36

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

date	17-Aug-13	time	2.46	3.46	4.44	5.40	6.36	7.32	8.28	9.28	10.28	11.32	12.50	6 / 2				
reaction time	0.154	interval		1.00	0.98	0.96	0.96	0.96	0.96	1.00	1.00	1.04	1.18		2.94	2.88	3.04	
wind	-0.6 m/s	velocity	5.28	8.50	8.67	8.85	8.85	8.85	8.85	8.50	8.50	8.17	8.90	8.00		8.67	8.85	8.39

FINAL - 2013 Athletissima Diamond League Meeting (Lausanne, SUI)*Vazel (2013) - hurdle observations*

date	04-Jul-13	time	2.55	3.57	4.56	5.53	6.51	7.50	8.48	9.47	10.50	11.55	12.69	7 / 7				
reaction time	0.136	interval		1.02	0.99	0.97	0.98	0.99	0.98	0.99	1.03	1.05	1.14		2.98	2.95	3.07	
wind	1.2 m/s	velocity	5.10	8.33	8.59	8.76	8.67	8.59	8.67	8.59	8.25	8.10	9.21	7.88		8.56	8.64	8.31

FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)*Henson (2021) - Athlete First: major championships report*

date	07-Aug-12	time	2.44	3.42	4.38	5.34	6.30	7.24	8.20	9.18	10.18	11.18	12.35	7 / 1				
reaction time	0.137	interval		0.98	0.96	0.96	0.96	0.94	0.96	0.98	1.00	1.00	1.17	OR		2.90	2.86	2.98
wind	-0.2 m/s	velocity	5.33	8.67	8.85	8.85	8.85	9.04	8.85	8.67	8.50	8.50	8.97	8.10		8.79	8.92	8.56

FINAL - 2012 Areva Diamond League Meeting (Saint-Denis, FRA)*Vazel (2012) - hurdle observations*

date	06-Jul-12	time	2.51	3.50	4.50	5.46	6.43	7.40	8.36	9.32	10.30	11.30	12.40	5 / 1				
reaction time	0.147	interval		0.99	1.00	0.96	0.97	0.97	0.96	0.96	0.98	1.00	1.10		2.95	2.90	2.94	
wind	0.0 m/s	velocity	5.18	8.59	8.50	8.85	8.76	8.76	8.85	8.85	8.67	8.50	9.55	8.06		8.64	8.79	8.67

FINAL - 2012 Melbourne Track Classic (Melbourne, AUS)*kitkat1 (2012) - www.charliefrancis.com/community/showthread.php?22163-Sally-Pearson-s-12-49*

date	03-Mar-12	time	2.55	3.55	4.53	5.51	6.47	7.44	8.41	9.39	10.38	11.41	12.49	1 / 1				
reaction time		interval		1.00	0.98	0.98	0.96	0.97	0.97	0.98	0.99	1.03	1.08		2.96	2.90	3.00	
wind	0.8 m/s	velocity	5.10	8.50	8.67	8.67	8.85	8.76	8.76	8.67	8.59	8.25	9.72	8.01		8.61	8.79	8.50

FINAL - 2011 IAAF World Championships (Daegu, KOR)*KSSB (2011) - biomechanical analysis of women's 100m hurdle*

date	03-Sep-11	time	2.53	3.52	4.49	5.42	6.37	7.31	8.27	9.22	10.21	11.20	12.28	3 / 1				
reaction time	0.145	interval		0.99	0.97	0.93	0.95	0.94	0.96	0.95	0.99	0.99	1.08	CR / AR		2.89	2.85	2.93
wind	1.1 m/s	velocity	5.14	8.59	8.76	9.14	8.95	9.04	8.85	8.95	8.59	8.59	9.72	8.14		8.82	8.95	8.70

Heat 2 - 2011 IAAF World Championships (Daegu, KOR)*KSSB (2011) - biomechanical analysis of women's 100m hurdle*

date	02-Sep-11	time	2.52	3.51	4.50	5.47	6.44	7.42	8.38	9.38	10.38	11.40	12.53	2 / 1				
reaction time	0.141	interval		0.99	0.99	0.97	0.97	0.98	0.96	1.00	1.00	1.02	1.13		2.95	2.91	3.02	
wind	-0.6 m/s	velocity	5.16	8.59	8.59	8.76	8.76	8.67	8.85	8.50	8.50	8.33	9.29	7.98		8.64	8.76	8.44

*McLellan, Sally (AUS) (1986)***FINAL - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.55	3.56	4.55	5.52	6.51	7.48	8.46	9.46	10.48	11.51	12.70	7 / 5				
reaction time	0.139	interval		1.01	0.99	0.97	0.99	0.97	0.98	1.00	1.02	1.03	1.19		2.97	2.94	3.05	
wind	0.2 m/s	velocity	5.10	8.42	8.59	8.76	8.59	8.76	8.67	8.50	8.33	8.25	8.82	7.87		8.59	8.67	8.36

Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.54	3.56	4.56	5.54	6.53	7.51	8.49	9.48	10.50	11.54	12.66	6 / 2				
reaction time	0.139	interval		1.02	1.00	0.98	0.99	0.98	0.98	0.99	1.02	1.04	1.12		3.00	2.95	3.05	
wind	0.3 m/s	velocity	5.12	8.33	8.50	8.67	8.59	8.67	8.67	8.59	8.33	8.17	9.37	7.90		8.50	8.64	8.36

Heat 3 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	2.55	3.57	4.57	5.55	6.53	7.53	8.54	9.57	10.60	11.67	12.82	2 / 1			
reaction time	0.140	interval		1.02	1.00	0.98	0.98	1.00	1.01	1.03	1.03	1.07	1.15		3.00	2.99	3.13

wind	0.1 m/s	velocity	5.10	8.33	8.50	8.67	8.67	8.50	8.42	8.25	8.25	7.94	9.13	7.80	8.50	8.53	8.15
FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>			
date	13-Sep-08	time	2.54	3.58	4.60	5.62	6.62	7.62	8.62	9.63	10.65	11.68	12.82	5 / Z 6	3.08	3.00	3.06
reaction time	0.137	interval	1.04	1.02	1.02	1.00	1.00	1.00	1.01	1.02	1.03	1.14			8.28	8.50	8.33
wind	0.3 m/s	velocity	5.12	8.17	8.33	8.33	8.50	8.50	8.50	8.42	8.33	8.25	9.21	7.80			
FINAL - 2008 Olympic Games (Beijing, CHN)														<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>			
date	19-Aug-08	time	2.50	3.51	4.51	5.50	6.50	7.47	8.45	9.45	10.46	11.50	12.64	3 / 2	3.00	2.95	3.05
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			8.50	8.64	8.36
wind	0.1 m/s	velocity	5.20	8.42	8.50	8.59	8.50	8.76	8.67	8.50	8.42	8.17	9.21	7.91			
Semi-Final 1 - 2008 Olympic Games (Beijing, CHN)														<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>			
date	18-Aug-08	time	2.54	3.55	4.54	5.53	6.51	7.51	8.52	9.52	10.54	11.57	12.70	9 / 4	2.99	2.99	3.05
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			8.53	8.53	8.36
wind	0.2 m/s	velocity	5.12	8.42	8.59	8.59	8.67	8.50	8.42	8.50	8.33	8.25	9.29	7.87			
FINAL - 2007 Seiko Super Grand Prix (Yokohama, JPN)														<i>Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles</i>			
date	30-Sep-07	time	2.49	3.58	4.64	5.69	6.73	7.76	8.79	9.84	10.90	11.97	13.27	1 / 1	3.20	3.10	3.18
reaction time		interval	1.09	1.06	1.05	1.04	1.03	1.03	1.05	1.06	1.07	1.30			7.97	8.23	8.02
wind	-0.8 m/s	velocity	5.22	7.80	8.02	8.10	8.17	8.25	8.25	8.10	8.02	7.94	8.08	7.54			
Pedersen, Isabelle (NOR) (1992)														H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10			
FINAL - 2020 New Balance Indoor Grand Prix (Boston, MA)														<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>			
date	25-Jan-20	time	2.67	3.69	4.69	5.72	6.70						8.10	6 / 5	3.05		
reaction time		interval	1.02	1.00	1.03	0.98						1.40			8.36		
		velocity	4.87	8.33	8.50	8.25	8.67					9.29	7.41				
Heat 2 - 2020 New Balance Indoor Grand Prix (Boston, MA)														<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>			
date	25-Jan-20	time	2.64	3.68	4.68	5.68	6.68						8.06	4 / 2	3.04		
reaction time		interval	1.04	1.00	1.00	1.00						1.38			8.39		
		velocity	4.92	8.17	8.50	8.50	8.50					9.42	7.44				
FINAL - 2019 Bislett Games (Oslo, NOR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	13-Jun-19	time	2.56	3.58	4.56	5.56	6.60	7.60	8.64	9.68	10.74	11.84	13.08	1 / 6	3.00	3.08	3.20
reaction time	0.157	interval	1.02	0.98	1.00	1.04	1.00	1.04	1.04	1.04	1.06	1.10	1.24		8.50	8.28	7.97
wind	1.1 m/s	velocity	5.08	8.33	8.67	8.50	8.17	8.50	8.17	8.17	8.02	7.73	8.47	7.65			
FINAL - 2019 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	03-May-19	time	2.60	3.64	4.64	5.64	6.64	7.66	8.70	9.76	10.86	11.96	13.26	1 / 9	3.04	3.06	3.26
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			8.39	8.33	7.82
wind	0.9 m/s	velocity	5.00	8.17	8.50	8.50	8.50	8.33	8.17	8.02	7.73	7.73	8.08	7.54			
FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	22-Jul-18	time	2.52	3.52	4.50	5.48	6.46	7.44	8.44	9.44	10.46	11.52	12.73	2 / 8	2.96	2.96	3.08
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			8.61	8.61	8.28
wind	0.6 m/s	velocity	5.16	8.50	8.67	8.67	8.67	8.67	8.50	8.50	8.33	8.02	8.68	7.86			
FINAL - 2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	10-Jun-18	time	2.54	3.56	4.52	5.50	6.48	7.46	8.46	9.50	10.54	11.60	12.82	2 / 7	2.96	2.96	3.14
reaction time	0.167	interval	1.02	0.96	0.98	0.98	0.98	0.98	1.00	1.04	1.04	1.06	1.22		8.61	8.61	8.12
wind	1.3 m/s	velocity	5.12	8.33	8.85	8.67	8.67	8.67	8.50	8.17	8.17	8.02	8.61	7.80			
FINAL - 2018 Bislett Games (Oslo, NOR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	07-Jun-18	time	2.46	3.46	4.46	5.44	6.42	7.42	8.44	9.46	10.50	11.54	12.78	4 / 4	2.98	3.00	3.10
reaction time	0.150	interval	1.00	1.00	0.98	0.98	0.98	1.00	1.02	1.02	1.04	1.04	1.24		8.56	8.50	8.23
wind	1.1 m/s	velocity	5.28	8.50	8.50	8.67	8.67	8.50	8.33	8.33	8.17	8.17	8.47	7.82			
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	12-May-18	time	2.48	3.50	4.48	5.46	6.44	7.42	8.42	9.42	10.44	11.50	12.76	2 / 5	2.98	2.96	3.08
reaction time	0.173	interval	1.02	0.98	0.98	0.98	0.98	1.00	1.00	1.02	1.06	1.26			8.56	8.61	8.28
wind	0.9 m/s	velocity	5.24	8.33	8.67	8.67	8.67	8.67	8.50	8.50	8.33	8.02	8.33	7.84			
FINAL - 2018 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	04-May-18	time	2.48	3.48	4.48	5.46	6.44	7.42	8.44	9.46	10.50	11.56	12.82	1 / 6	2.98	2.98	3.12
reaction time	0.181	interval	1.00	1.00	0.98	0.98	0.98	0.98	1.02	1.02	1.04	1.06	1.26		8.56	8.56	8.17
wind	0.5 m/s	velocity	5.24	8.50	8.50	8.67	8.67	8.67	8.33	8.33	8.17	8.02	8.33	7.80			
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)														<i>Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60m Hurdles Women</i>			
date	03-Mar-18	time	2.68	3.71	4.70	5.67	6.66						7.94	2 / 6	2.99		
reaction time	0.168	interval	1.03	0.99	0.97	0.99						1.28			8.53		
		velocity	4.85	8.25	8.59	8.76	8.59					10.16	12.59				

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

date	11-Aug-17	time	2.42	3.45	4.46	5.45	6.43	7.42	8.42	9.43	10.46	11.53	12.87	5 / 4			
reaction time	0.149	interval		1.03	1.01	0.99	0.98	0.99	1.00	1.01	1.03	1.07	1.34		3.03	2.97	3.11
wind	0.2 m/s	velocity	5.37	8.25	8.42	8.59	8.67	8.59	8.50	8.42	8.25	7.94	7.84	7.77	8.42	8.59	8.20

FINAL - 2017 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	21-Jul-17	time	2.60	3.64	4.64	5.62	6.62	7.62	8.64	9.66	10.74	11.82	13.03	1 / 8			
reaction time	0.187	interval	7 steps	1.04	1.00	0.98	1.00	1.00	1.02	1.02	1.08	1.08	1.21		3.02	3.02	3.18
wind	-0.2 m/s	velocity	5.00	8.17	8.50	8.67	8.50	8.50	8.33	8.33	7.87	7.87	8.68	7.67	8.44	8.44	8.02

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

date	09-Jul-17	time	2.54	3.54	4.54	5.54	6.54	7.56	8.58	9.62	10.66	11.74	13.01	1 / 7			
reaction time	0.157	interval	7 steps	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.04	1.08	1.27		3.00	3.04	3.16
wind	0.2 m/s	velocity	5.12	8.50	8.50	8.50	8.50	8.33	8.33	8.17	8.17	7.87	8.27	7.69	8.50	8.39	8.07

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

date	15-Jun-17	time	2.48	3.50	4.48	5.46	6.46	7.44	8.42	9.46	10.48	11.50	12.75	5 / 3			
reaction time	0.122	interval	7 steps	1.02	0.98	0.98	1.00	0.98	0.98	1.04	1.02	1.02	1.25	PB	2.98	2.96	3.08
wind	0.8 m/s	velocity	5.24	8.33	8.67	8.67	8.50	8.67	8.67	8.17	8.33	8.33	8.40	7.84	8.56	8.61	8.28

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

date	16-Jun-16	time	2.57	3.60	4.60	5.60	6.62	7.64	8.67	9.71	10.77	11.84	13.15	8 / 6			
reaction time	0.190	interval	7 steps	1.03	1.00	1.00	1.02	1.02	1.03	1.04	1.06	1.07	1.31		3.03	3.07	3.17
wind	-0.4 m/s	velocity	5.06	8.25	8.50	8.50	8.33	8.33	8.25	8.17	8.02	7.94	8.02	7.60	8.42	8.31	8.04

FINAL - 2016 Bislett Games (Oslo, NOR) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	09-Jun-16	time	2.52	3.56	4.56	5.58	6.58	7.60	8.60	9.66	10.72	11.82	13.12	2 / 6			
reaction time	0.156	interval	7 steps	1.04	1.00	1.02	1.00	1.02	1.00	1.06	1.06	1.10	1.30		3.06	3.02	3.22
wind	-0.4 m/s	velocity	5.16	8.17	8.50	8.33	8.50	8.33	8.50	8.02	8.02	7.73	8.08	7.62	8.33	8.44	7.92

FINAL - 2011 Landskamp FIN-SWE-NOR (Tammefors, FIN)*Blomkvist (2011) - www.sub13.se*

date	05-Feb-11	time	2.56	3.64	4.68	5.74	6.80						8.38	1 / 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		

Penda, Helnsarah (USA)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)***CAA Hurdle Development (2020)*

date	15-Feb-20	time	2.70	3.82	4.92	6.02	7.12						8.67	4 / 5			
reaction time	0.168	interval		1.12	1.10	1.10	1.10						1.55		3.32		
		velocity	4.81	7.59	7.73	7.73	7.73						8.39	6.92	7.68		

Pennella, Giulia (ITA) (1989)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2015 Italian National Championships (Torino, ITA)***Incalza (FIDAL - Centro Studi & Ricerche) (2015) - https://www.youtube.com/watch?v=E1vh3mZh5kw*

date	25-Jul-15	time	2.80	3.87	4.89	5.90	6.90	7.91	8.93	9.92	10.96	12.01	13.12	7 / 1			
reaction time		interval		1.07	1.02	1.01	1.00	1.01	1.02	0.99	1.04	1.05	1.11	PB	3.10	3.03	3.08
wind	1.7 m/s	velocity	4.64	7.94	8.33	8.42	8.50	8.42	8.33	8.59	8.17	8.10	9.46	7.62	8.23	8.42	8.28

FINAL - 2014 Italian National Indoor Championships (Ancona, ITA)*FIDAL - Centro Studi & Ricerche (2014) - www.youtube.com/watch?v=7_FeLg_p08Y*

date	22-Feb-14	time	2.66	3.66	4.67	5.67	6.65						8.04	5 / 1			
reaction time		interval		1.00	1.01	1.00	0.98						1.39		3.01		
		velocity	4.89	8.50	8.42	8.50	8.67						9.35	7.46	8.47		

Perry, Michelle (USA) (1979)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)***Graubner (2007) - http://www.fgs.uni-halle.de*

date	22-Sep-07	time	2.59	3.62	4.62	5.62	6.60	7.58	8.58	9.57	10.56	11.58	12.68	6 / 1			
reaction time	0.132	interval		1.03	1.00	1.00	0.98	0.98	1.00	0.99	0.99	1.02	1.10		3.03	2.96	3.00
wind	-0.3 m/s	velocity	5.02	8.25	8.50	8.50	8.67	8.67	8.50	8.59	8.59	8.33	9.55	7.89	8.42	8.61	8.50

FINAL - 2007 IAAF World Championships (Osaka, JPN)*Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data*

date	29-Aug-07	time	2.40	3.42	4.40	5.35	6.32	7.28	8.27	9.24	10.34	11.27	12.46	6 / 1			
reaction time	0.105	interval		1.02	0.98	0.95	0.97	0.96	0.99	0.97	1.10	0.93	1.19		2.95	2.92	3.00
wind	-0.1 m/s	velocity	5.42	8.33	8.67	8.95	8.76	8.85	8.59	8.76	7.73	9.14	8.82	8.03	8.64	8.73	8.50

Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)*Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles*

date	28-Aug-07	time	2.57	3.57	4.57	5.54	6.52	7.50	8.48	9.46	10.44	11.47	12.55	5 / 1			
reaction time	0.137	interval		1.00	1.00	0.97	0.98	0.98	0.98	0.98	0.98	1.03	1.08		2.97	2.94	2.99
wind	-0.1 m/s	velocity	5.06	8.50	8.50	8.76	8.67	8.67	8.67	8.67	8.67	8.25	9.72	7.97	8.59	8.67	8.53

Heat 1 - 2007 IAAF World Championships (Osaka, JPN)*Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles*

date	27-Aug-07	time	2.57	3.59	4.59	5.59	6.57	7.55	8.55	9.55	10.55	11.62	12.72	5 / 1			
reaction time	0.129	interval		1.02	1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.07	1.10		3.02	2.96	3.07
wind	0.2 m/s	velocity	5.06	8.33	8.50	8.50	8.67	8.67	8.50	8.50	8.50	7.94	9.55	7.86	8.44	8.61	8.31

FINAL - 2007 USATF National Championships (Indianapolis, IN)

USATF Men's Hurdle Development (2007)

date	23-Jun-07	time	2.59	3.62	4.62	5.61	6.51	7.59	8.59	9.58	10.61	11.63	12.72	/ 2			
reaction time		interval		1.03	1.00	0.99	0.90	1.08	1.00	0.99	1.03	1.02	1.09		3.02	2.98	3.04
wind	-1.3 m/s	velocity	5.02	8.25	8.50	8.59	9.44	7.87	8.50	8.59	8.25	8.33	9.63	7.86	8.44	8.56	8.39

FINAL - 2006 IAAF World Athletic Final (Stuttgart, GER) (TV Analysis)Graubner (2008) - <http://www.fgs.uni-halle.de>

date	10-Sep-06	time	2.58	3.58	4.57	5.54	6.50	7.48	8.45	9.42	10.42	11.44	12.52	6 / 1			
reaction time	0.135	interval		1.00	0.99	0.97	0.96	0.98	0.97	0.97	1.00	1.02	1.08		2.96	2.91	2.99
wind	0.6 m/s	velocity	5.04	8.50	8.59	8.76	8.85	8.67	8.76	8.76	8.50	8.33	9.72	7.99	8.61	8.76	8.53

FINAL - 2006 DLV Gala (Nurnberg, GER)Graubner (2008) - <http://www.fgs.uni-halle.de>

date	30-Jul-06	time	2.61	3.63	4.63	5.61	6.59	7.57	8.56	9.54	10.51	11.53	12.59	/ 1			
reaction time	0.133	interval		1.02	1.00	0.98	0.98	0.98	0.99	0.98	0.97	1.02	1.06		3.00	2.95	2.97
wind	0.5 m/s	velocity	4.98	8.33	8.50	8.67	8.67	8.67	8.59	8.67	8.76	8.33	9.91	7.94	8.50	8.64	8.59

FINAL - 2006 USATF National Championships (Indianapolis, IN)

USATF Women's Hurdle Development (2006)

date	24-Jun-06	time	2.60	3.65	4.64	5.57	6.57	7.56	8.53	9.53	10.54	11.57	12.67	6 / 3			
reaction time		interval		1.05	0.99	0.93	1.00	0.99	0.97	1.00	1.01	1.03	1.10		2.97	2.96	3.04
wind	-0.4 m/s	velocity	5.00	8.10	8.59	9.14	8.50	8.59	8.76	8.50	8.42	8.25	9.55	7.89	8.59	8.61	8.39

FINAL - 2003 USATF National Championships (Palo Alto, CA)

USATF Women's Sprint Development (2003)

date	22-Jun-03	time	2.54	3.67	4.84	5.87	6.87	7.90	8.93	9.95	10.99	12.05	13.26	1 / 8-7			
reaction time		interval		1.13	1.17	1.03	1.00	1.03	1.03	1.02	1.04	1.06	1.21		3.33	3.06	3.12
wind	-0.1 m/s	velocity	5.12	7.52	7.26	8.25	8.50	8.25	8.25	8.33	8.17	8.02	8.68	7.54	7.66	8.33	8.17

Pesiridou, Elisávét (GRE) (1992)

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

FINAL - 2016 European Championships (Amsterdam, NED) (TV Analysis)

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

date	07-Jul-16	time	2.62	3.68	4.72	5.72	6.72	7.74	8.76	9.76	10.80	11.84	13.05	8 / 6			
reaction time	0.142	interval	7 steps	1.06	1.04	1.00	1.00	1.02	1.02	1.00	1.04	1.04	1.21		3.10	3.04	3.08
wind	-0.7 m/s	velocity	4.96	8.02	8.17	8.50	8.50	8.33	8.33	8.50	8.17	8.17	8.68	7.66	8.23	8.39	8.28

Petrova, Natalya (URS) (1957)

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

FINAL - 1981 USSR vs. USA (Leningrad, URS)

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

date	11-Jul-81	time	2.65	3.69	4.70	5.74	6.82	7.91	8.95	9.96	11.07	12.16	13.32	/ 4			
reaction time		interval		1.04	1.01	1.04	1.08	1.09	1.04	1.01	1.11	1.09	1.16		3.09	3.21	3.21
wind	0.3 m/s	velocity	4.91	8.17	8.42	8.17	7.87	7.80	8.17	8.42	7.66	7.80	9.05	7.51	8.25	7.94	7.94

Phillips, Leah (USA) (2002)

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

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

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

date	29-Jun-24	time	2.57	3.62	4.66	5.70	6.73	7.76	8.81	9.84	10.91	12.00	13.24	8 / 8			
reaction time		interval		1.05	1.04	1.04	1.03	1.03	1.05	1.03	1.07	1.09	1.24		3.13	3.11	3.19
wind	0.8 m/s	velocity	5.06	8.10	8.17	8.17	8.25	8.25	8.10	8.25	7.94	7.80	8.10	7.55	8.15	8.20	7.99

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

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

date	28-Jun-24	time	2.58	3.62	4.66	5.69	6.74	7.77	8.84	9.88	10.93	12.01	13.23	3 / 4			
reaction time		interval		1.04	1.04	1.03	1.05	1.03	1.07	1.04	1.05	1.08	1.22		3.11	3.15	3.17
wind	0.2 m/s	velocity	5.04	8.17	8.17	8.25	8.10	8.25	7.94	8.17	8.10	7.87	8.24	7.56	8.20	8.10	8.04

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

date	08-Feb-20	time	2.70	3.79	4.86	5.90	6.94						8.44	1 / 7			
reaction time	0.217	interval		1.09	1.07	1.04	1.04						1.50		3.20		
		velocity	4.81	7.80	7.94	8.17	8.17						8.67	7.11	7.97		

Pickler, Diana (USA) (1983)

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

Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)

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

date	15-Aug-09	time	2.72	3.78	4.84	5.90	6.94	8.00	9.04	10.11	11.20	12.30	13.50	4 / 4			
reaction time	0.169	interval		1.06	1.06	1.06	1.04	1.06	1.04	1.07	1.09	1.10	1.20		3.18	3.14	3.26
wind	-0.4 m/s	velocity	4.78	8.02	8.02	8.02	8.17	8.02	8.17	7.94	7.80	7.73	8.75	7.41	8.02	8.12	7.82

Piffaretti, Emma (SUI) (2002)

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

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

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

date	15-Sep-20	time	2.72	3.84	4.96	6.08	7.18	8.32	9.48	10.64	11.80	12.98	14.27	1 / 8			
reaction time		interval	7 steps	1.12	1.12	1.12	1.10	1.14	1.16	1.16	1.16	1.18	1.29		3.36	3.40	3.50
wind	0.0 m/s	velocity	4.78	7.59	7.59	7.59	7.73	7.46	7.33	7.33	7.33	7.20	7.79	7.01	7.59	7.50	7.29

Piquereau, Anne (FRA) (1964)

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

FINAL - 1987 European Cup (Prague, TCH)

Sušanka (1987) - hints on computer processing of biomechanical data

date	28-Jun-87	time	2.68	3.72	4.76	5.79	6.80	7.84	8.87	9.88	10.96	12.04	13.15	3 / 5			
reaction time		interval		1.04	1.04	1.03	1.01	1.04	1.03	1.01	1.08	1.08	1.11		3.11	3.08	3.17
wind	-0.9m/s	velocity	4.85	8.17	8.17	8.25	8.42	8.17	8.25	8.42	7.87	7.87	9.46	7.60	8.20	8.28	8.04

FINAL - 1986 French National Indoor Championships (Lievin, FRA)

Aubert (1986) - indoor - video - haies, etude des performances

date	26-Jan-86	time	2.61	3.66	4.67	5.68	6.67						8.00	/ 1			
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reaction time interval 1.05 1.01 1.01 0.99 1.33 3.07
velocity 4.98 8.10 8.42 8.42 8.59 9.77 7.50 8.31

Semi-Final ? - 1986 French National Indoor Championships (Lieviv, FRA)*Aubert (1986) - indoor - video - haies, etude des performances*

date 25-Jan-86 time 2.67 3.74 4.76 5.76 6.78 8.13 /1
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

Heat ? - 1986 French National Indoor Championships (Lieviv, FRA)*Aubert (1986) - indoor - video - haies, etude des performances*

date 25-Jan-86 time 2.60 3.68 4.73 5.75 6.79 8.23 /1
reaction time interval 1.08 1.05 1.02 1.04 1.44 3.15
velocity 5.00 7.87 8.10 8.33 8.17 9.03 7.29 8.10

FINAL - 1985 Joinville, FRA*Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes*

date 12-Jun-85 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
wind 1.4 m/s 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

Piatkowska, Maria (POL) (1931)

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

FINAL - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles)*Breitschaft (1965) - die leichtathletik wettkämpfe der 1964 olympischen sommerspielen - 80m hürdenlauf*

date 19-Oct-64 time 4.1 7.2 10.7 8 / 6
reaction time interval 7 steps 3.10 3.50 (10.76)
wind 2.3 m/s velocity 6.83 7.74 6.86 9.35

Semi-Final 2 - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles)*Breitschaft (1965) - die leichtathletik wettkämpfe der 1964 olympischen sommerspielen - 80m hürdenlauf*

date 19-Oct-64 time 4.3 7.3 10.7 / 4
reaction time interval 7 steps 3.00 3.40 (10.73)
wind ??? velocity 6.51 8.00 7.06 9.35

Pietsch, Jenna (GER) (1991)

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

FINAL - 2014 Sparkassen Gala (Regensburg, GER)*Buckwitz (2014) - OSP Berlin / DLV frauen hürden report*

date 07-Jun-14 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 8.20 3.16 3.26
wind 0.1 m/s 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 1 - 2014 Sparkassen Gala (Regensburg, GER)*Buckwitz (2014) - OSP Berlin / DLV frauen hürden report*

date 07-Jun-14 time 2.66 4.84 5.92 7.00 8.08 9.16 10.26 11.36 12.48 13.70 / 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
wind -1.6 m/s 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

Plíhalová, Katerina (CZE) (1993)

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

Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)*Feher (2014) - Final report from the Czech Republic national championships*

date 02-Aug-14 time 2.94 4.19 5.43 6.66 7.89 9.13 10.40 11.69 12.98 14.30 15.79 8 / 8
reaction time 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
wind 0.2 m/s 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

Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)*Feher (2013) - Final report from the men's & women's Czech Republic national championships*

date 15-Jun-13 time 2.99 4.30 5.58 6.85 8.09 9.40 14.58 16.03 7 / 6
reaction time interval 1.31 1.28 1.27 1.24 1.31 1.45 3.86
wind -0.9 m/s velocity 4.35 6.49 6.64 6.69 6.85 6.49 7.24 6.24 6.61

Plotitsyna, Hanna (UKR) (1987)

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

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

date 11-Aug-17 time 2.48 3.55 4.57 5.58 6.60 7.60 8.64 9.67 10.72 11.78 13.08 8 / 7
reaction time 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
wind 0.2 m/s 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

Pogacian, Mihaela (ROU) (1958)

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

FINAL - 1991 European Cup (Frankfurt, GER)*Graubner (2008) - http://www.fgs.uni-halle.de*

date 30-Jun-91 time 2.66 3.74 4.77 5.79 6.81 7.83 8.85 9.87 10.90 11.94 13.18 / 4
reaction time interval 1.08 1.03 1.02 1.02 1.02 1.02 1.02 1.03 1.04 1.24 3.13 3.06 3.09
wind -2.1 m/s velocity 4.89 7.87 8.25 8.33 8.33 8.33 8.33 8.33 8.25 8.17 8.47 7.59 8.15 8.33 8.25

Porter, Tiffany (GBR) (1987)

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

FINAL - 2021 Müller Grand Prix (Gateshead, GBR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date 23-May-21 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 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
wind -3.9 m/s 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

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

date 09-May-21 time 2.47 3.47 4.45 5.43 6.40 7.37 8.37 9.35 10.40 11.44 12.69 5 / 6
reaction time interval 1.00 0.98 0.98 0.97 0.97 1.00 0.98 1.05 1.04 1.25 2.96 2.94 3.07
wind 2.0 m/s velocity 5.26 8.50 8.67 8.67 8.76 8.76 8.50 8.67 8.10 8.17 8.04 7.88 8.61 8.67 8.31

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

date	07-Mar-21	time	2.48	3.52	4.50	5.48	6.50											
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

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

7.92 8 / 3

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

date	25-Jan-20	time	2.66	3.73	4.76	5.78	6.79											
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

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

8.21 8 / 8

Heat 2 - 2020 New Balance Indoor Grand Prix (Boston, MA)

date	25-Jan-20	time	2.67	3.76	4.79	5.81	6.83											
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

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

8.24 3 / 4

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

date	15-Jun-17	time	2.50	3.52	4.54	5.54	6.54	7.54	8.58	9.58	10.62	11.66						
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
wind	0.8 m/s	velocity	5.20	8.33	8.33	8.50	8.50	8.50	8.17	8.50	8.17	8.17	8.27	7.73				8.39

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

12.93 3 / 5

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

date	29-Apr-17	time	2.53	2.63	4.66	5.68	6.70	7.73	8.73	9.76	10.83	11.90						
reaction time		interval		0.10	2.03	1.02	1.02	1.03	1.00	1.03	1.07	1.07	1.30					3.15
wind	1.0 m/s	velocity	5.14	85.00	4.19	8.33	8.33	8.25	8.50	8.25	7.94	7.94	8.08	7.58				8.10

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

13.20 1 / 8

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)

date	17-Aug-16	time	2.40	3.40	4.40	5.37	6.34	7.34	8.34	9.34	10.37	11.41						
reaction time	0.142	interval		1.00	1.00	0.97	0.97	1.00	1.00	1.00	1.03	1.04	1.35					2.97
wind	0.0 m/s	velocity	5.42	8.50	8.50	8.76	8.76	8.50	8.50	8.50	8.25	8.17	7.78	7.84				8.59

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

12.76 3 / 7

FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)

date	22-Jul-16	time	2.48	3.50	4.50	5.50	6.48	7.46	8.46	9.46	10.46	11.48						
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
wind	0.3 m/s	velocity	5.24	8.33	8.50	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.61	7.87				8.44

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

12.70 2 / 6

FINAL - 2016 European Championships (Amsterdam, NED) (TV Analysis)

date	07-Jul-16	time	2.52	3.54	4.52	5.50	6.50	7.48	8.46	9.48	10.50	11.54						
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
wind	-0.7 m/s	velocity	5.16	8.33	8.67	8.67	8.50	8.67	8.67	8.33	8.33	8.17	8.61	7.84				8.56

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

12.76 4 / 3

FINAL - 2016 Bislett Games (Oslo, NOR) (TV Analysis)

date	09-Jun-16	time	2.52	3.54	4.56	5.56	6.54	7.54	8.54	9.56	10.60	11.68						
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
wind	-0.4 m/s	velocity	5.16	8.33	8.33	8.50	8.67	8.50	8.50	8.33	8.17	7.87	8.33	7.73				8.39

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

12.94 7 / 4

FINAL - 2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis)

date	05-Jun-16	time	2.50	3.53	4.53	5.56	6.53	7.53	8.53	9.53	10.53	11.60						
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
wind	-0.3 m/s	velocity	5.20	8.25	8.50	8.25	8.76	8.50	8.50	8.50	8.50	7.94	8.33	7.78				8.33

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

12.86 3 / 5

FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)

date	28-May-16	time	2.48	3.52	4.52	5.50	6.48	7.48	8.48	9.50	10.54	11.60						
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
wind	0.7 m/s	velocity	5.24	8.17	8.50	8.67	8.67	8.50	8.50	8.33	8.17	8.02	8.08	7.75				8.44

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

12.90 7 / 7

FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)

date	28-Aug-15	time	2.52	3.52	4.50	5.48	6.46	7.42	8.40	9.38	10.38	11.46						
reaction time	0.140	interval		1.00	0.98	0.98	0.98	0.96	0.98	0.98	1.00	1.08	1.22					2.96
wind	-0.3 m/s	velocity	5.16	8.50	8.67	8.67	8.67	8.85	8.67	8.67	8.50	7.87	8.61	7.89				8.61

Henson (2021) - Athlete First: major championships report

12.68 7 / 5

FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)

date	17-Aug-13	time	2.46	3.48	4.46	5.42	6.38	7.34	8.30	9.30	10.30	11.32						
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
wind	-0.6 m/s	velocity	5.28	8.33	8.67	8.85	8.85	8.85	8.85	8.50	8.50	8.33	8.54	7.97				8.61

Henson (2021) - Athlete First: major championships report

12.55 4 / 3

FINAL - 2011 IAAF World Championships (Daegu, KOR)

date	03-Sep-11	time	2.57	3.57	4.57	5.50	6.46	7.43	8.40	9.38	10.36	11.40						
reaction time	0.158	interval		1.00	1.00	0.93	0.96	0.97	0.97	0.98	0.98	1.04	1.23					2.93
wind	1.1 m/s	velocity	5.06	8.50	8.50	9.14	8.85	8.76	8.76	8.67	8.67	8.17	8.54	7.92				8.70

KSSB (2011) - biomechanical analysis of women's 100m hurdle

12.63 5 / 4

Powell, Virginia (Ginnie) (USA) (1983)**FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)***Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships*

date	08-Jul-19	time	3.02	4.35	5.65	6.94	8.15	9.40	10.66	11.94	13.25	14.57		15.93	8 / 8				
reaction time	0.213	interval		1.33	1.30	1.29	1.21	1.25	1.26	1.28	1.31	1.32	1.36				3.92	3.72	3.91
wind	0.8 m/s	velocity	4.30	6.39	6.54	6.59	7.02	6.80	6.75	6.64	6.49	6.44	7.72	6.28			6.51	6.85	6.52
Purvis, Julian (USA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2005 USATF National Junior Championships (Carson, CA)																			
date	23-Jun-05	time	2.79	3.87	5.04	6.16	7.29	8.45	9.54	10.74	11.91	13.09		14.40	9 / 9				
reaction time		interval		1.08	1.17	1.12	1.13	1.16	1.09	1.20	1.17	1.18	1.31				3.37	3.38	3.55
wind	-0.7 m/s	velocity	4.66	7.87	7.26	7.59	7.52	7.33	7.80	7.08	7.26	7.20	8.02	6.94			7.57	7.54	7.18
Qin Hongyan (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2021 Chinese National Games (Xi'an, CHN)																			
date	21-Sep-21	time	2.62	3.66	4.79	5.85	6.94	7.99	9.09	10.22	11.34	12.50		13.85	4 / 6				
reaction time	0.158	interval		1.04	1.13	1.06	1.09	1.05	1.10	1.13	1.12	1.16	1.35				3.23	3.24	3.41
wind	0.1 m/s	velocity	4.96	8.17	7.52	8.02	7.80	8.10	7.73	7.52	7.59	7.33	7.44	7.22			7.89	7.87	7.48
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)																			
date	25-Jun-21	time	2.73	3.84	4.96	6.05	7.14	8.25	9.36	10.48	11.65	12.83		14.15	7 / 4				
reaction time	0.230	interval		1.11	1.12	1.09	1.09	1.11	1.11	1.12	1.17	1.18	1.32				3.32	3.31	3.47
wind	-1.8 m/s	velocity	4.76	7.66	7.59	7.80	7.80	7.66	7.66	7.59	7.26	7.20	7.61	7.07			7.68	7.70	7.35
FINAL - 2021 Chinese East Region Athletics Meeting (Fuzhou, CHN)																			
date	23-May-21	time	2.73	3.84	4.93	6.01	7.09	8.17	9.27	10.37	11.49	12.65		13.93	3 / 7				
reaction time	0.179	interval		1.11	1.09	1.08	1.08	1.08	1.10	1.10	1.12	1.16	1.28	PB			3.28	3.26	3.38
wind	-0.5 m/s	velocity	4.76	7.66	7.80	7.87	7.87	7.87	7.73	7.73	7.59	7.33	7.85	7.18			7.77	7.82	7.54
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)																			
date	08-Apr-21	time	2.76	3.88	5.00	6.14	7.24	8.38	9.50	10.64	11.78	12.94		14.24	1 / 7				
reaction time		interval		1.12	1.12	1.14	1.10	1.14	1.12	1.14	1.14	1.16	1.30				3.38	3.36	3.44
wind	-0.1 m/s	velocity	4.71	7.59	7.59	7.46	7.73	7.46	7.59	7.46	7.46	7.33	7.73	7.02			7.54	7.59	7.41
U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN)																			
date	14-Aug-19	time	2.75	3.89	5.04	6.16	7.27	8.39	9.53	10.68	11.86	13.05		14.39	8 / 4				
reaction time	0.162	interval		1.14	1.15	1.12	1.11	1.12	1.14	1.15	1.18	1.19	1.34				3.41	3.37	3.52
wind	0.5 m/s	velocity	4.73	7.46	7.39	7.59	7.66	7.59	7.46	7.39	7.20	7.14	7.84	6.95			7.48	7.57	7.24
Quenot, Fanny (FRA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)																			
date	12-Sep-20	time	2.60	3.61	4.66	5.70	6.75	7.80	8.81	9.93	10.94	12.05		13.36	6 / 3				
reaction time	0.483	interval		1.01	1.05	1.04	1.05	1.05	1.01	1.12	1.01	1.11	1.31				3.10	3.11	3.24
wind	1.5 m/s	velocity	5.00	8.42	8.10	8.17	8.10	8.10	8.42	7.59	8.42	7.66	7.67	7.49			8.23	8.20	7.87
Rajmová, Katerina (CZE) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)																			
date	15-Jun-13	time	2.81	3.99	5.13	6.28	7.45	8.61	9.75	10.95	12.24								
reaction time	0.144	interval		1.18	1.14	1.15	1.17	1.16	1.14	1.20	1.29							3.47	3.47
wind	-1.0 m/s	velocity	4.63	7.20	7.46	7.39	7.26	7.33	7.46	7.08	6.59							7.35	7.35
Rákosníková, Iveta (CZE) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)																			
date	28-Jun-14	time	2.92	4.13	5.36	6.61	7.87	9.16	10.46	11.79	13.11	14.48		16.04	8 / 4				
reaction time	0.192	interval		1.21	1.23	1.25	1.26	1.29	1.30	1.33	1.32	1.37	1.56				3.69	3.85	4.02
wind	-7.3 m/s	velocity	4.45	7.02	6.91	6.80	6.75	6.59	6.54	6.39	6.44	6.20	6.73	6.23			6.91	6.62	6.34
Rakotozafy, Rosa (MAD) (1977)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2002 IAAF World Cup (Madrid, ESP)																			
date	21-Sep-02	time	2.53	3.56	4.57	5.59	6.58	7.60	8.60	9.62	10.66	11.72		13.07	1 / 5				
reaction time	0.157	interval		1.03	1.01	1.02	0.99	1.02	1.00	1.02	1.04	1.06	1.35				3.06	3.01	3.12
wind	1.5 m/s	velocity	5.14	8.25	8.42	8.33	8.59	8.33	8.50	8.33	8.17	8.02	7.78	7.65			8.33	8.47	8.17
Rallins, Mamie (USA) (1941)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 1972 Olympic Games (Munich, FRG)																			
date	04-Sep-72	time	2.5				6.7							13.51	4 / 3				
reaction time		interval					4.26												
wind	0.6 m/s	velocity	5.24				7.98							7.40					
Ramalalanirina, Nicole (FRA) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)																			
date	27-Aug-99	time	2.59	3.63	4.67	5.67	6.68	7.67	8.67	9.69	10.72	11.76		12.96	2 / 7				
reaction time	0.151	interval		1.04	1.04	1.00	1.01	0.99	1.00	1.02	1.03	1.04	1.20				3.08	3.00	3.09
wind	1.0 m/s	velocity	5.02	8.17	8.17	8.50	8.42	8.59	8.50	8.33	8.25	8.17	8.75	7.72			8.28	8.50	8.25
FINAL - 1998 European Championships (Budapest, HUN)																			

date	23-Aug-98	time	2.59	3.63	4.67	5.66	6.60	7.61	8.61	9.63	10.66	11.73		12.87	5 / 4				
reaction time		interval		1.04	1.04	0.99	0.94	1.01	1.00	1.02	1.03	1.07	1.14			3.07	2.95	3.12	
wind	1.5 m/s	velocity	5.02	8.17	8.17	8.59	9.04	8.42	8.50	8.33	8.25	7.94	9.21	7.77		8.31	8.64	8.17	
Rard-Reuse, Clélia (SUI) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Athletissima (Luasanne, SUI) (TV Analysis)															<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	25-Aug-16	time	2.56	3.60	4.62	5.64	6.66	7.66	8.70	9.72	10.74	11.78		13.00	3 / 6				
reaction time	0.142	interval		1.04	1.02	1.02	1.02	1.00	1.04	1.02	1.02	1.04	1.22			3.08	3.06	3.08	
wind	0.7 m/s	velocity	5.08	8.17	8.33	8.33	8.33	8.50	8.17	8.33	8.33	8.17	8.61	7.69		8.28	8.33	8.28	
FINAL - 2016 European Championships (Amsterdam, NED) (TV Analysis)															<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	07-Jul-16	time	2.54	3.58	4.60	5.62	6.62	7.62	8.62	9.66	10.70	11.76		12.96	6 / 4				
reaction time	0.133	interval		1.04	1.02	1.02	1.00	1.00	1.00	1.04	1.04	1.06	1.20			3.08	3.00	3.14	
wind	-0.7 m/s	velocity	5.12	8.17	8.33	8.33	8.50	8.50	8.50	8.17	8.17	8.02	8.75	7.72		8.28	8.50	8.12	
FINAL - 2016 Schweizer Verein Meisterschaften (St. Gallen, SUI)															<i>Swiss Athletics (2016) - sprint and hurdle analysis</i>				
date	21-May-16	time	2.70	3.72	4.74	5.76	6.76	7.78	8.82	9.84	10.88	11.94		13.09	1 / 1				
reaction time		interval		1.02	1.02	1.02	1.00	1.02	1.04	1.02	1.04	1.06	1.15			3.06	3.06	3.12	
wind	-0.4 m/s	velocity	4.81	8.33	8.33	8.33	8.50	8.33	8.17	8.33	8.17	8.02	9.13	7.64		8.33	8.33	8.17	
FINAL - 2016 Hürden-und Sprintmeeting (Basel, SUI)															<i>Swiss Athletics (2016) - sprint and hurdle analysis</i>				
date	07-May-16	time	2.68	3.70	4.72	5.72	6.74	7.76	8.78	9.82	10.84	11.90		13.06	1 / 1				
reaction time	0.210	interval		1.02	1.02	1.00	1.02	1.02	1.02	1.04	1.02	1.06	1.16	PB		3.04	3.06	3.12	
wind	1.0 m/s	velocity	4.85	8.33	8.33	8.50	8.33	8.33	8.33	8.17	8.33	8.02	9.05	7.66		8.39	8.33	8.17	
Rašková, Adéla (CZE) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)															<i>Feber (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	3.08	4.44	5.77	7.13	8.48	9.87	11.21	12.61	13.97	15.36		16.83	6 / 8				
reaction time	0.210	interval		1.36	1.33	1.36	1.35	1.39	1.34	1.40	1.36	1.39	1.47			4.05	4.08	4.15	
wind	-1.8 m/s	velocity	4.22	6.25	6.39	6.25	6.30	6.12	6.34	6.07	6.25	6.12	7.14	5.94		6.30	6.25	6.14	
Redoúmi, Flóra (GRE) (1976)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 European Cup (Munich, GER)															<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>				
date	24-Jun-07	time	2.72	3.76	4.78	5.81	6.81	7.83	8.84	9.87	10.92	11.98		13.15	1 / 5				
reaction time	0.222	interval		1.04	1.02	1.03	1.00	1.02	1.01	1.03	1.05	1.06	1.17			3.09	3.03	3.14	
wind	0.9 m/s	velocity	4.78	8.17	8.33	8.25	8.50	8.33	8.42	8.25	8.10	8.02	8.97	7.60		8.25	8.42	8.12	
Reháková, Karolína (CZE) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE)															<i>Feber (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	2.96	4.20	5.48	6.74	8.01	9.29	10.63	11.93	13.23	14.57		15.94	1 / 6				
reaction time	0.233	interval		1.24	1.28	1.26	1.27	1.28	1.34	1.30	1.30	1.34	1.37			3.78	3.89	3.94	
wind	-4.5 m/s	velocity	4.39	6.85	6.64	6.75	6.69	6.64	6.34	6.54	6.54	6.34	7.66	6.27		6.75	6.56	6.47	
Rehwagen, Corinna (GER) (1981)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2002 German National Indoor Championships (Sindelfingen, GER)															<i>Hücklekemkes (2002) - explosive starten vielfältig erlernen</i>				
date	16-Feb-02	time	2.66	3.73	4.78	5.82	6.88							8.22	1 / 3				
reaction time	0.149	interval		1.07	1.05	1.04	1.06						1.34			3.16			
wind		velocity	4.89	7.94	8.10	8.17	8.02						9.70	7.30		8.07			
Remešová, Dominika (CZE) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE)															<i>Feber (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	3.04	4.27	5.57	6.83	8.10	9.42	10.75	12.09	13.47	15.08		16.79	2 / 6				
reaction time	0.225	interval		1.23	1.30	1.26	1.27	1.32	1.33	1.34	1.38	1.61	1.71			3.79	3.92	4.33	
wind	-1.5 m/s	velocity	4.28	6.91	6.54	6.75	6.69	6.44	6.39	6.34	6.16	5.28	6.14	5.96		6.73	6.51	5.89	
Ren Shimei (CHN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)															<i>CAA Hurdle Development (2021)</i>				
date	24-Jun-21	time	2.73	3.87	5.00	6.15	7.29	8.44	9.59	10.76	11.93	13.11		14.35	4 / 1				
reaction time	0.167	interval		1.14	1.13	1.15	1.14	1.15	1.15	1.17	1.17	1.18	1.24			3.42	3.44	3.52	
wind	0.2 m/s	velocity	4.76	7.46	7.52	7.39	7.46	7.39	7.39	7.26	7.26	7.20	8.10	6.97		7.46	7.41	7.24	
FINAL - 2021 National Grand Prix (Chengdu, CHN)															<i>CAA Hurdle Development (2021)</i>				
date	02-Apr-21	time	2.81	3.94	5.08	6.22	7.34	8.48	9.61	10.73	11.86	13.02		14.25	2 / 7				
reaction time	0.229	interval		1.13	1.14	1.14	1.12	1.14	1.13	1.12	1.13	1.16	1.23			3.41	3.39	3.41	
wind	0.1 m/s	velocity	4.63	7.52	7.46	7.46	7.59	7.46	7.52	7.59	7.52	7.33	8.17	7.02		7.48	7.52	7.48	
Heat 2 - 2021 National Grand Prix (Chengdu, CHN)															<i>CAA Hurdle Development (2021)</i>				
date	02-Apr-21	time	2.74	3.86	4.98	6.10	7.20	8.30	9.42	10.56	11.68	12.82		14.09	4 / 2				
reaction time	0.195	interval		1.12	1.12	1.12	1.10	1.10	1.12	1.14	1.12	1.14	1.27			3.36	3.32	3.40	
wind	0.4 m/s	velocity	4.74	7.59	7.59	7.59	7.73	7.73	7.59	7.46	7.59	7.46	7.91	7.10		7.59	7.68	7.50	
Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)															<i>CAA Hurdle Development (2019)</i>				
date	08-Jul-19	time	2.85	4.02	5.19	6.36	7.51	8.69	9.86	11.09	12.31	13.56		14.92	2 / 4				

reaction time	0.224	interval	1.17	1.17	1.17	1.15	1.18	1.17	1.23	1.22	1.25	1.36	PB	3.51	3.50	3.70
wind	0.1 m/s	velocity	4.56	7.26	7.26	7.39	7.20	7.26	6.91	6.97	6.80	7.72	6.70	7.26	7.29	6.89

Reppert, Axelle (FRA) (2001)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	12-Sep-20	time	2.63	3.75	4.79	5.91	6.99	8.07	9.18	10.33	11.44	12.60		13.97	8 / 7		
reaction time	0.223	interval	1.12	1.04	1.12	1.08	1.08	1.11	1.15	1.11	1.16	1.37	PB	3.28	3.27	3.42	
wind	1.5 m/s	velocity	4.94	7.59	8.17	7.59	7.87	7.87	7.66	7.39	7.66	7.33	7.34	7.16	7.77	7.80	7.46

Richardson, Ke'Nyia (USA) (1989)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2005 USATF National Junior Championships (Carson, CA)													<i>USATF Women's Sprint Development (2005)</i>				
date	23-Jun-05	time	2.75	3.90	5.04	6.16	7.26	8.31	9.54	10.71	11.85	13.01		14.36	1 / 8		
reaction time		interval	1.15	1.14	1.12	1.10	1.05	1.23	1.17	1.14	1.16	1.35	PB	3.41	3.38	3.47	
wind	-0.7 m/s	velocity	4.73	7.39	7.46	7.59	7.73	8.10	6.91	7.26	7.46	7.33	7.78	6.96	7.48	7.54	7.35

Rito, Nonoka (JPN) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 3 - 2022 Japanese Multi-Event National Championships (Akita, JPN)													<i>Takefu (2023) - performance analysis of heptathletes in the 2022 season</i>				
date	04-Jun-22	time	2.77	3.90	5.03	6.18	7.30	8.46	9.61	10.76	11.94	13.16		14.49	9 / 7		
reaction time		interval	1.13	1.13	1.15	1.12	1.16	1.15	1.15	1.18	1.22	1.33			3.41	3.43	3.55
wind	0.4 m/s	velocity	4.69	7.52	7.52	7.39	7.59	7.33	7.39	7.39	7.20	6.97	7.56	6.90	7.48	7.43	7.18

Heptathlon - Heat 3 - 2021 Japanese Multi-Event National Championships (Nagano, JPN)													<i>Matsubayashi (2021) - 100m hurdles race analysis of heptathletes in the 2021 season</i>				
date	12-Jun-21	time	2.72	3.82	4.93	6.02	7.12	8.23	9.33	10.48	11.62	12.80		14.05	3 / 6		
reaction time	0.169	interval	1.10	1.11	1.09	1.10	1.11	1.10	1.15	1.14	1.18	1.25			3.30	3.31	3.47
wind	1.4 m/s	velocity	4.78	7.73	7.66	7.80	7.73	7.66	7.73	7.39	7.46	7.20	8.04	7.12	7.73	7.70	7.35

Roberts, Trecia (THA) (1971)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)													<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	27-Aug-99	time	2.51	3.51	4.52	5.51	6.49	7.49	8.48	9.50	10.53	11.58		12.83	7 / 5		
reaction time	0.170	interval	1.00	0.170	0.99	0.98	1.00	0.99	1.02	1.03	1.05	1.25	NR	3.00	2.97	3.10	
wind	1.9 m/s	velocity	5.18	8.50	50.00	8.59	8.67	8.50	8.59	8.33	8.25	8.10	8.40	7.79	8.50	8.59	8.23

Robinson, Kaylah (USA) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	29-Jun-24	time	2.60	3.66	4.69	5.71	6.71	7.72	8.74	9.76	10.79	11.85		13.07	3 / 6		
reaction time		interval	1.06	1.03	1.02	1.00	1.01	1.02	1.02	1.03	1.06	1.22			3.11	3.03	3.11
wind	0.8 m/s	velocity	5.00	8.02	8.25	8.33	8.50	8.42	8.33	8.33	8.25	8.02	8.24	7.65	8.20	8.42	8.20

Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	28-Jun-24	time	2.69	3.74	4.74	5.74	6.72	7.70	8.68	9.70	10.78	11.86		13.08	6 / 4		
reaction time		interval	1.05	1.00	1.00	0.98	0.98	0.98	1.02	1.08	1.08	1.22			3.05	2.94	3.18
wind	0.1 m/s	velocity	4.83	8.10	8.50	8.50	8.67	8.67	8.67	8.33	7.87	7.87	8.24	7.65	8.36	8.67	8.02

FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	11-Jun-22	time	2.50	3.55	4.57	5.59	6.59	7.59	8.57	9.57	10.59	11.62		12.86	3 / 5		
reaction time		interval	1.05	1.02	1.02	1.00	1.00	0.98	1.00	1.02	1.03	1.24			3.09	2.98	3.05
wind	-0.2 m/s	velocity	5.20	8.10	8.33	8.33	8.50	8.50	8.67	8.50	8.33	8.25	8.10	7.78	8.25	8.56	8.36

University FINAL - 2022 Texas Relays (Austin, TX) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	26-Mar-22	time	2.50	3.50	4.50	5.47	6.43	7.40	8.36	9.30	10.28	11.27		12.49	5 / 2		
reaction time		interval	1.00	1.00	0.97	0.96	0.97	0.96	0.94	0.98	0.99	1.22			2.97	2.89	2.91
wind	2.5 m/s	velocity	5.20	8.50	8.50	8.76	8.85	8.76	8.85	9.04	8.67	8.59	8.24	8.01	8.59	8.82	8.76

Robinson, Kira (USA) (1987)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2005 USATF National Junior Championships (Carson, CA)													<i>USATF Women's Sprint Development (2005)</i>				
date	23-Jun-05	time	2.70	3.77	4.84	5.92	6.97	8.03	9.11	10.21	11.34	12.48		13.72	4 / 1		
reaction time		interval	1.07	1.07	1.08	1.05	1.06	1.08	1.10	1.13	1.14	1.24			3.22	3.19	3.37
wind	-0.7 m/s	velocity	4.81	7.94	7.94	7.87	8.10	8.02	7.87	7.73	7.52	7.46	8.47	7.29	7.92	7.99	7.57

Robinson, TeJyrica (USA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	09-Sep-21	time	2.52	3.60	4.66	5.72	6.80	7.88	8.96	10.00	11.10	12.28		13.70	1 / 9		
reaction time	0.134	interval	1.08	1.06	1.06	1.08	1.08	1.08	1.04	1.10	1.18	1.42			3.20	3.24	3.32
wind	0.4 m/s	velocity	5.16	7.87	8.02	8.02	7.87	7.87	7.87	8.17	7.73	7.20	7.08	7.30	7.97	7.87	7.68

FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	13-Jul-21	time	2.50	3.57	4.57	5.59	6.57	7.59	8.64	9.71	10.77	11.84		13.14	2 / 6		
reaction time	0.147	interval	1.07	1.00	1.02	0.98	1.02	1.05	1.07	1.06	1.07	1.30			3.09	3.05	3.20
wind	1.5 m/s	velocity	5.20	7.94	8.50	8.33	8.67	8.33	8.10	7.94	8.02	7.94	7.73	7.61	8.25	8.36	7.97

FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	20-Jun-21	time	2.48	3.57	4.59	5.59	6.59	7.59	8.61	9.63	10.66	11.71		12.99	9 / 9		
reaction time	0.143	interval	1.09	1.02	1.00	1.00	1.00	1.02	1.02	1.03	1.05	1.28			3.11	3.02	3.10

wind	0.8 m/s	velocity	5.24	7.80	8.33	8.50	8.50	8.50	8.33	8.33	8.25	8.10	7.85	7.70		8.20	8.44	8.23
Semi Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	20-Jun-21	time	2.43	3.47	4.47	5.44	6.40	7.37	8.37	9.37	10.39	11.42		12.65	1 / 4			
reaction time	0.173	interval		1.04	1.00	0.97	0.96	0.97	1.00	1.00	1.02	1.03	1.23	PB		3.01	2.93	3.05
wind	1.3 m/s	velocity	5.35	8.17	8.50	8.76	8.85	8.76	8.50	8.50	8.33	8.25	8.17	7.91		8.47	8.70	8.36
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	12-Jun-21	time	2.48	3.50	4.50	5.47	6.47	7.47	8.50	9.51	10.60	11.68		29.11	3 / 8			
reaction time	0.152	interval		1.02	1.00	0.97	1.00	1.00	1.03	1.01	1.09	1.08	17.43			2.99	3.03	3.18
wind	0.4 m/s	velocity	5.24	8.33	8.50	8.76	8.50	8.50	8.25	8.42	7.80	7.87	0.58	3.44		8.53	8.42	8.02
Rocheleau-Baumann, Julie (CAN) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1988 Olympic Games (Seoul, KOR)														<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>				
date	30-Sep-88	time	2.56	3.61	4.62	5.62	6.67	7.68	8.70	9.74	10.78	11.82		12.99	2 / 6			
reaction time	0.149	interval		1.05	1.01	1.00	1.05	1.01	1.02	1.04	1.04	1.04	1.17			3.06	3.08	3.12
wind	0.2 m/s	velocity	5.08	8.10	8.42	8.50	8.10	8.42	8.33	8.17	8.17	8.17	8.97	7.70		8.33	8.28	8.17
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)														<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>				
date	29-Sep-88	time	2.55	3.60	4.64	5.65	6.65	7.67	8.68	9.69	10.73	11.77		12.91	5 / 3			
reaction time	0.137	interval		1.05	1.04	1.01	1.00	1.02	1.01	1.01	1.04	1.04	1.14			3.10	3.03	3.09
wind	0.5 m/s	velocity	5.10	8.10	8.17	8.42	8.50	8.33	8.42	8.42	8.17	8.17	9.21	7.75		8.23	8.42	8.25
Rocker, Destinee (USA) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	11-Jun-22	time	2.55	3.60	4.62	5.64	6.62	7.62	8.64	9.67	10.71	11.79		13.07	1 / 8			
reaction time		interval		1.05	1.02	1.02	0.98	1.00	1.02	1.03	1.04	1.08	1.28			3.09	3.00	3.15
wind	-0.2 m/s	velocity	5.10	8.10	8.33	8.33	8.67	8.50	8.33	8.25	8.17	7.87	7.85	7.65		8.25	8.50	8.10
Rodríguez, Jessica (ESP) (1975)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)														<i>Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas</i>				
date	01-Aug-98	time	2.69	3.78	4.87	5.99	7.11	8.23	9.32	10.45	11.59	12.77		14.14	7 / 4			
reaction time		interval		1.09	1.09	1.12	1.12	1.12	1.09	1.13	1.14	1.18	1.37			3.30	3.33	3.45
wind	0.0 m/s	velocity	4.83	7.80	7.80	7.59	7.59	7.59	7.80	7.52	7.46	7.20	7.66	7.07		7.73	7.66	7.39
Rogemyr, Maja (SWE) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 Windsprint (Sundsvall, SWE)														<i>Blomkvist (2011) - www.sub13.se</i>				
date	31-Jul-11	time	2.84	3.97	5.09	6.21	7.33	8.46	9.61	10.76	11.94	13.14		14.45	1 / 7			
reaction time		interval		1.13	1.12	1.12	1.12	1.13	1.15	1.15	1.18	1.20	1.31			3.37	3.40	3.53
wind	1.4 m/s	velocity	4.58	7.52	7.59	7.59	7.59	7.52	7.39	7.39	7.20	7.08	8.02	6.92		7.57	7.50	7.22
FINAL - 2010 Swedish National Championships (Falun, SWE)														<i>Blomkvist (2010) - www.sub13.se</i>				
date	22-Aug-10	time	2.83	3.93	5.03	6.14	7.24	8.39	9.54	10.72	11.92	13.15		14.50	1 / 7			
reaction time		interval		1.10	1.10	1.11	1.10	1.15	1.15	1.18	1.20	1.23	1.35			3.31	3.40	3.61
wind	-0.2 m/s	velocity	4.59	7.73	7.73	7.66	7.73	7.39	7.39	7.20	7.08	6.91	7.78	6.90		7.70	7.50	7.06
FINAL - 2010 Windsprint (Sundsvall, SWE)														<i>Blomkvist (2010) - 100/110m Hurdles: Development</i>				
date	08-Aug-10	time	2.84	3.99	5.10	6.20	7.33	8.46	9.61	10.78	11.95	13.14		14.50	1 / 4			
reaction time		interval		1.15	1.11	1.10	1.13	1.13	1.15	1.17	1.17	1.19	1.36			3.36	3.41	3.53
wind	0.6 m/s	velocity	4.58	7.39	7.66	7.73	7.52	7.52	7.39	7.26	7.26	7.14	7.72	6.90		7.59	7.48	7.22
Roleder, Cindy (GER) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	06-Oct-19	time	2.54	3.58	4.60	5.60	6.58	7.58	8.56	9.58	10.60	11.62		12.86	4 / 4			
reaction time	0.144	interval		1.04	1.02	1.00	0.98	1.00	0.98	1.02	1.02	1.02	1.24			3.06	2.96	3.06
wind	1.0 m/s	velocity	5.12	8.17	8.33	8.50	8.67	8.50	8.67	8.33	8.33	8.33	8.10	7.78		8.33	8.61	8.33
FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	06-Sep-19	time	2.63	3.67	4.70	5.70	6.70	7.70	8.74	9.77	10.81	11.87		13.12	1 / 6			
reaction time	0.125	interval		1.04	1.03	1.00	1.00	1.00	1.04	1.03	1.04	1.06	1.25			3.07	3.04	3.13
wind	0.0 m/s	velocity	4.94	8.17	8.25	8.50	8.50	8.50	8.17	8.25	8.17	8.02	8.40	7.62		8.31	8.39	8.15
FINAL - 2019 Bislett Games (Oslo, NOR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	13-Jun-19	time	2.68	3.70	4.72	5.72	6.70	7.70	8.68	9.70	10.72	11.78		12.93	7 / 4			
reaction time	0.144	interval		1.02	1.02	1.00	0.98	1.00	0.98	1.02	1.02	1.06	1.15			3.04	2.96	3.10
wind	1.1 m/s	velocity	4.85	8.33	8.33	8.50	8.67	8.50	8.67	8.33	8.33	8.02	9.13	7.73		8.39	8.61	8.23
FINAL - 2019 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	30-May-19	time	2.64	3.68	4.68	5.68	6.68	7.68	8.70	9.70	10.72	11.76		12.94	2 / 4			
reaction time	0.137	interval		1.04	1.00	1.00	1.00	1.00	1.02	1.00	1.02	1.04	1.18			3.04	3.02	3.06
wind	1.3 m/s	velocity	4.92	8.17	8.50	8.50	8.50	8.50	8.33	8.50	8.33	8.17	8.90	7.73		8.39	8.44	8.33
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)														<i>CAA Hurdle Development (2019)</i>				

date	21-May-19	time	2.65	3.67	4.69	5.69	6.70	7.70	8.70	9.72	10.75	11.79	12.94	4 / 6			
reaction time	0.138	interval		1.02	1.02	1.00	1.01	1.00	1.00	1.02	1.03	1.04	1.15		3.04	3.01	3.09
wind	-1.0 m/s	velocity	4.91	8.33	8.33	8.50	8.42	8.50	8.50	8.33	8.25	8.17	9.13	7.73	8.39	8.47	8.25
FINAL - 2019 ISTAF Indoor (Berlin, GER) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	1-Feb-19	time	2.58	3.58	4.58	5.56	6.54						7.91	3 / 2			
reaction time	0.126	interval		1.00	1.00	0.98	0.98						1.37		2.98		
wind		velocity	5.04	8.50	8.50	8.67	8.67						9.49	7.59	8.56		
FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	13-Jul-18	time	2.56	3.60	4.58	5.58	6.58	7.58	8.58	9.60	10.60	11.66	12.87	7 / 6			
reaction time	0.128	interval		1.04	0.98	1.00	1.00	1.00	1.00	1.02	1.00	1.06	1.21		3.02	3.00	3.08
wind	0.1 m/s	velocity	5.08	8.17	8.67	8.50	8.50	8.50	8.50	8.33	8.50	8.02	8.68	7.77	8.44	8.50	8.28
FINAL - 2018 Spitzen Leichtathletik (Luzern, SUI) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	09-Jul-18	time	2.60	3.60	4.60	5.60	6.60	7.56	8.58	9.60	10.60	11.64	12.81	7 / 6			
reaction time		interval		1.00	1.00	1.00	1.00	0.96	1.02	1.02	1.00	1.04	1.17		3.00	2.98	3.06
wind	0.9 m/s	velocity	5.00	8.50	8.50	8.50	8.50	8.85	8.33	8.33	8.50	8.17	8.97	7.81	8.50	8.56	8.33
FINAL - 2018 Bislett Games (Oslo, NOR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	07-Jun-18	time	2.56	3.56	4.54	5.52	6.52	7.52	8.50	9.48	10.48	11.50	12.81	2 / 5			
reaction time	0.152	interval		1.00	0.98	0.98	1.00	1.00	0.98	0.98	1.00	1.02	1.31		2.96	2.98	3.00
wind	1.1 m/s	velocity	5.08	8.50	8.67	8.67	8.50	8.50	8.67	8.67	8.50	8.33	8.02	7.81	8.61	8.56	8.50
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	12-May-18	time	2.56	3.58	4.58	5.56	6.56	7.54	8.56	9.56	10.60	11.62	12.81	1 / 7			
reaction time	0.130	interval		1.02	1.00	0.98	1.00	0.98	1.02	1.00	1.04	1.02	1.19		3.00	3.00	3.06
wind	0.9 m/s	velocity	5.08	8.33	8.50	8.67	8.50	8.67	8.33	8.50	8.17	8.33	8.82	7.81	8.50	8.50	8.33
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)													<i>Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60m Hurdles Women</i>				
date	03-Mar-18	time	2.65	3.68	4.68	5.65	6.61						7.87	7 / 5			
reaction time	0.141	interval		1.03	1.00	0.97	0.96						1.26		3.00		
wind		velocity	4.91	8.25	8.50	8.76	8.85						10.32	12.71	8.50		
FINAL - 2017 Doha Diamond League (Doha, QAT) (TV Analysis)													<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	05-May-17	time	2.58	3.62	4.64	5.64	6.64	7.64	8.66	9.68	10.70	11.74	12.90	3 / 2			
reaction time	0.138	interval		1.04	1.02	1.00	1.00	1.00	1.02	1.02	1.02	1.04	1.16		3.06	3.02	3.08
wind	-2.3 m/s	velocity	5.04	8.17	8.33	8.50	8.50	8.50	8.33	8.33	8.33	8.17	9.05	7.75	8.33	8.44	8.28
FINAL - 2017 European Indoor Championships (Beograd, SRB)													<i>(2017.03.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	03-Mar-17	time	2.68	3.67	4.64	5.63	6.60						7.88	6 / 1			
reaction time		interval		0.99	0.97	0.99	0.97						1.28		2.95		
wind		velocity	4.85	8.59	8.76	8.59	8.76						10.16	12.69	8.64		
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)													<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>				
date	09-Sep-16	time	2.60	3.64	4.64	5.62	6.62	7.62	8.64	9.66	10.66	11.72	12.91	4 / 4			
reaction time	0.125	interval		1.04	1.00	0.98	1.00	1.00	1.02	1.02	1.00	1.06	1.19		3.02	3.02	3.08
wind	0.1 m/s	velocity	5.00	8.17	8.50	8.67	8.50	8.50	8.33	8.33	8.50	8.02	8.82	7.75	8.44	8.44	8.28
FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	01-Sep-16	time	2.58	3.60	4.58	5.58	6.58	7.56	8.56	9.56	10.58	11.60	12.80	4 / 5			
reaction time	0.120	interval		1.02	0.98	1.00	1.00	0.98	1.00	1.00	1.02	1.02	1.20		3.00	2.98	3.04
wind	0.4 m/s	velocity	5.04	8.33	8.67	8.50	8.50	8.67	8.50	8.50	8.33	8.33	8.75	7.81	8.50	8.56	8.39
FINAL - 2016 Meeting Paris (Saint-Denis, FRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	27-Aug-16	time	2.54	3.58	4.58	5.58	6.56	7.54	8.54	9.54	10.56	11.60	12.78	4 / 5			
reaction time	0.129	interval		1.04	1.00	1.00	0.98	0.98	1.00	1.00	1.02	1.04	1.18		3.04	2.96	3.06
wind	0.2 m/s	velocity	5.12	8.17	8.50	8.50	8.67	8.67	8.50	8.50	8.33	8.17	8.90	7.82	8.39	8.61	8.33
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	17-Aug-16	time	2.43	3.44	4.44	5.40	6.42	7.42	8.40	9.40	10.41	11.44	12.74	2 / 5			
reaction time	0.130	interval		1.01	1.00	0.96	1.02	1.00	0.98	1.00	1.01	1.03	1.30		2.97	3.00	3.04
wind	0.0 m/s	velocity	5.35	8.42	8.50	8.85	8.33	8.50	8.67	8.50	8.42	8.25	8.08	7.85	8.59	8.50	8.39
FINAL - 2016 European Championships (Amsterdam, NED) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	07-Jul-16	time	2.58	3.58	4.56	5.54	6.52	7.50	8.50	9.48	10.48	11.50	12.62	7 / 1			
reaction time	0.135	interval		1.00	0.98	0.98	0.98	0.98	1.00	0.98	1.00	1.02	1.12		2.96	2.96	3.00
wind	-0.7 m/s	velocity	5.04	8.50	8.67	8.67	8.67	8.67	8.50	8.67	8.50	8.33	9.38	7.92	8.61	8.61	8.50
FINAL - 2016 Bislett Games (Oslo, NOR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	09-Jun-16	time	2.64	3.68	4.68	5.68	6.68	7.68	8.68	9.70	10.72	11.78	12.94	8 / 5			
reaction time	0.145	interval		1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.06	1.16		3.04	3.00	3.10
wind	-0.4 m/s	velocity	4.92	8.17	8.50	8.50	8.50	8.50	8.50	8.33	8.33	8.02	9.05	7.73	8.39	8.50	8.23

FINAL - 2015 IAAF World Championships (Beijing, CHN)

date	28-Aug-15	time	2.59	3.59	4.56	5.53	6.51	7.49	8.45	9.44	10.45	11.46	12.59	8 / 2				
reaction time	0.145	interval		1.00	0.97	0.97	0.98	0.98	0.96	0.99	1.01	1.01	1.13	PB	2.94	2.92	3.01	
wind	-0.3 m/s	velocity	5.02	8.50	8.76	8.76	8.67	8.67	8.85	8.59	8.42	8.42	9.29	7.94	8.67	8.73	8.47	

Мирзоев (2015) - Временные характеристики технического мастерства бега на 100м с барьерами

Romero, Genesis (VEN) (1995)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	06-Oct-19	time	2.64	3.68	4.72	5.74	6.76	7.76	8.76	9.78	10.82	11.88	13.18	3 / 8			
reaction time	0.193	interval		1.04	1.04	1.02	1.02	1.00	1.00	1.02	1.04	1.06	1.30		3.10	3.02	3.12
wind	1.0 m/s	velocity	4.92	8.17	8.17	8.33	8.33	8.50	8.50	8.33	8.17	8.02	7.73	7.59	8.23	8.44	8.17

Rooth, Andrea (NOR) (2002)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>				
date	04-Sep-22	time	2.68	3.80	4.92	6.00	7.08	8.16	9.24	10.40	11.52	12.64	13.87	9 / 9			
reaction time	0.139	interval		1.12	1.12	1.08	1.08	1.08	1.16	1.12	1.12	1.23			3.32	3.24	3.40
wind	-0.3 m/s	velocity	4.85	7.59	7.59	7.87	7.87	7.87	7.33	7.59	7.59	8.17	7.21		7.68	7.87	7.50

Rose, Dionne (JAM) (1969)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1999 IAAF World Championships (Sevilla, ESP)													<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	28-Aug-99	time	2.55	3.56	4.55	5.54	6.52	7.52	8.50	9.52	10.55	11.59	12.80	7 / 6			
reaction time	0.107	interval		1.01	0.99	0.99	0.98	1.00	0.98	1.02	1.03	1.04	1.21		2.99	2.96	3.09
wind	0.7 m/s	velocity	5.10	8.42	8.59	8.59	8.67	8.50	8.67	8.33	8.25	8.17	8.68	7.81	8.53	8.61	8.25

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

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1997 IAAF World Championships (Athens, GRE)													<i>Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>				
date	27-Aug-99	time	2.55	3.57	4.58	5.58	6.57	7.55	8.56	9.57	10.60	11.63	12.79	4 / 3			
reaction time	0.133	interval		1.02	1.01	1.00	0.99	0.98	1.01	1.01	1.03	1.03	1.16		3.03	2.98	3.07
wind	1.0 m/s	velocity	5.10	8.33	8.42	8.50	8.59	8.67	8.42	8.42	8.25	8.25	9.05	7.82	8.42	8.56	8.31

FINAL - 1997 IAAF World Championships (Athens, GRE)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1996 Olympic Games (Atlanta, GA)													<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>				
date	10-Aug-97	time	2.60	3.58	4.58	5.56	6.56	7.56	8.58	9.60	10.64	11.66	12.87	1 / 5			
reaction time	0.118	interval		0.98	1.00	0.98	1.00	1.00	1.02	1.02	1.04	1.02	1.21		2.96	3.02	3.08
wind	-0.3 m/s	velocity	5.00	8.67	8.50	8.67	8.50	8.50	8.33	8.33	8.17	8.33	8.68	7.77	8.61	8.44	8.28

FINAL - 1996 Olympic Games (Atlanta, GA)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Roswell, Demisha (JAM) (1998)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	11-Jun-22	time	2.48	3.54	4.54	5.56	6.56	7.59	8.59	9.61	10.63	11.69	12.94	8 / 7			
reaction time		interval		1.06	1.00	1.02	1.00	1.03	1.00	1.02	1.02	1.06	1.25		3.08	3.03	3.10
wind	-0.2 m/s	velocity	5.24	8.02	8.50	8.33	8.50	8.25	8.50	8.33	8.33	8.02	8.04	7.73	8.28	8.42	8.23

Roswell, Demisha (JAM) (1998)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	12-Jun-21	time	2.60	3.64	4.70	5.74	6.77	7.77	8.77	9.80	10.84	11.91	13.14	8 / 7			
reaction time	0.175	interval		1.04	1.06	1.04	1.03	1.00	1.00	1.03	1.04	1.07	1.23		3.14	3.03	3.14
wind	0.4 m/s	velocity	5.00	8.17	8.02	8.17	8.25	8.50	8.50	8.25	8.17	7.94	8.17	7.61	8.12	8.42	8.12

Rothwell, Cha'mia (USA) (1998)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Quarter Final 1 - 2021 NCAA Championships Preliminary East Round (Jacksonville, FL) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	29-May-21	time	2.57	3.63	4.67	5.67	6.65	7.67	8.69	9.70	10.73	11.77	12.95	3 / 3				
reaction time		interval		1.06	1.04	1.00	0.98	1.02	1.02	1.01	1.03	1.04	1.18	PB		3.10	3.02	3.08
wind	0.8 m/s	velocity	5.06	8.02	8.17	8.50	8.67	8.33	8.33	8.42	8.25	8.17	8.52	7.72	8.23	8.44	8.28	

Rusnak, Hannah (USA)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)													<i>CAA Hurdle Development (2020)</i>				
date	14-Feb-20	time	2.64	3.72	4.79	5.84	6.92						8.39	7 / 6			
reaction time		interval		1.08	1.07	1.05	1.08					1.47			3.20		
		velocity	4.92	7.87	7.94	8.10	7.87					8.84	7.15		7.97		

Russell, Masai (USA) (2000)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Weltklasse (Zürich, SUI)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	05-Sep-24	time	2.44	3.48	4.48	5.45	6.42	7.37	8.33	9.31	10.28	11.27	12.47	5 / 3			
reaction time	0.149	interval		1.04	1.00	0.97	0.97	0.95	0.96	0.98	0.97	0.99	1.20		3.01	2.88	2.94
wind	0.8 m/s	velocity	5.33	8.17	8.50	8.76	8.76	8.95	8.85	8.67	8.76	8.59	8.37	8.02	8.47	8.85	8.67

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

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	30-Aug-24	time	2.41	3.45	4.44	5.41	6.36	7.31	8.26	9.21	10.17	11.13	12.31	4 / 2			
reaction time	0.152	interval		1.04	0.99	0.97	0.95	0.95	0.95	0.95	0.96	0.96	1.18		3.00	2.85	2.87
wind	-0.4 m/s	velocity	5.39	8.17	8.59	8.76	8.95	8.95	8.95	8.95	8.85	8.85	8.52	8.12	8.50	8.95	8.89

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

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	30-Aug-24	time	2.41	3.45	4.44	5.41	6.36	7.31	8.26	9.21	10.17	11.13	12.31	4 / 2			
reaction time	0.152	interval		1.04	0.99	0.97	0.95	0.95	0.95	0.95	0.96	0.96	1.18		3.00	2.85	2.87
wind	-0.4 m/s	velocity	5.39	8.17	8.59	8.76	8.95	8.95	8.95	8.95	8.85	8.85	8.52	8.12	8.50	8.95	8.89

FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)

date	25-Aug-24	time	2.44	3.49	4.48	5.45	6.41	7.36	8.31	9.27	10.25	11.22	12.40	1 / 4			
reaction time	0.151	interval		1.05	0.99	0.97	0.96	0.95	0.95	0.96	0.98	0.97	1.18		3.01	2.86	2.91
wind	-0.5 m/s	velocity	5.33	8.10	8.59	8.76	8.85	8.95	8.95	8.85	8.67	8.76	8.52	8.06	8.47	8.92	8.76

Omega Timing (2024) - diamond league race analysis

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

date	25-Aug-24	time	2.44	3.47	4.46	5.42	6.41	7.39	8.37	9.36	10.35	11.34	12.56	5 / 5			
reaction time	0.156	interval		1.03	0.99	0.96	0.99	0.98	0.98	0.99	0.99	0.99	1.22		2.98	2.95	2.97
wind	0.6 m/s	velocity	5.33	8.25	8.59	8.85	8.59	8.67	8.67	8.59	8.59	8.59	8.24	7.96	8.56	8.64	8.59

Omega Timing (2024) - diamond league race analysis

FINAL - 2024 Olympic Games (Paris, FRA)

date	10-Aug-24	time	2.40	3.44	4.45	5.42	6.38	7.32	8.27	9.22	10.18	11.14	12.33	5 / 1			
reaction time	0.137	interval		1.04	1.01	0.97	0.96	0.94	0.95	0.95	0.96	0.96	1.19		3.02	2.85	2.87
wind	-0.3 m/s	velocity	5.42	8.17	8.42	8.76	8.85	9.04	8.95	8.95	8.85	8.85	8.45	8.11	8.44	8.95	8.89

Paris 2024 Olympc Games - Results Book (2024)

Semi-Final 3 - 2024 Olympic Games (Paris, FRA)

date	09-Aug-24	time	2.41	3.47	4.46	5.43	6.39	7.34	8.30	9.26	10.23	11.21	12.42	7 / 2			
reaction time	0.155	interval		1.06	0.99	0.97	0.96	0.95	0.96	0.96	0.97	0.98	1.21		3.02	2.87	2.91
wind	-0.7 m/s	velocity	5.39	8.02	8.59	8.76	8.85	8.95	8.85	8.85	8.76	8.67	8.31	8.05	8.44	8.89	8.76

Paris 2024 Olympc Games - Results Book (2024)

Heat 3 - 2024 Olympic Games (Paris, FRA)

date	07-Aug-24	time	2.46	3.51	4.51	5.48	6.44	7.40	8.37	9.34	10.32	11.31	12.53	6 / 1			
reaction time	0.151	interval		1.05	1.00	0.97	0.96	0.96	0.97	0.97	0.98	0.99	1.22		3.02	2.89	2.94
wind	0.8 m/s	velocity	5.28	8.10	8.50	8.76	8.85	8.85	8.76	8.76	8.67	8.59	8.24	7.98	8.44	8.82	8.67

Paris 2024 Olympc Games - Results Book (2024)

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

date	30-Jun-24	time	2.54	3.55	4.55	5.51	6.46	7.39	8.35	9.29	10.23	11.19	12.25	4 / 1			
reaction time		interval		1.01	1.00	0.96	0.95	0.93	0.96	0.94	0.94	0.96	1.06	PB	2.97	2.84	2.84
wind	0.7 m/s	velocity	5.12	8.42	8.50	8.85	8.95	9.14	8.85	9.04	9.04	8.85	9.48	8.16	8.59	8.98	8.98

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

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

date	28-Jun-24	time	2.57	3.56	4.55	5.53	6.48	7.44	8.39	9.34	10.31	11.28	12.35	5 / 1			
reaction time		interval		0.99	0.99	0.98	0.95	0.96	0.95	0.95	0.97	0.97	1.07	PB	2.96	2.86	2.89
wind	0.2 m/s	velocity	5.06	8.59	8.59	8.67	8.95	8.85	8.95	8.95	8.76	8.76	9.39	8.10	8.61	8.92	8.82

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

FINAL - 2024 Prefontaine Classic (Eugene, OR)

date	25-May-24	time	2.46	3.53	4.54	5.54	6.53	7.52	8.51	9.51	10.51	11.56	12.80	1 / 9			
reaction time	0.141	interval		1.07	1.01	1.00	0.99	0.99	0.99	1.00	1.00	1.05	1.24		3.08	2.97	3.05
wind	-0.9 m/s	velocity	5.28	7.94	8.42	8.50	8.59	8.59	8.59	8.50	8.50	8.10	8.10	7.81	8.28	8.59	8.36

Omega Timing (2024) - diamond league race analysis

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

date	27-Apr-24	time	2.53	3.57	4.59	5.59	6.57	7.55	8.53	9.53	10.55	11.58	12.76	7 / 5-4			
reaction time	0.134	interval		1.04	1.02	1.00	0.98	0.98	0.98	1.00	1.02	1.03	1.18		3.06	2.94	3.05
wind	0.3 m/s	velocity	5.14	8.17	8.33	8.50	8.67	8.67	8.67	8.50	8.33	8.25	8.52	7.84	8.33	8.67	8.36

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

FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)

date	20-Apr-24	time	2.44	3.49	4.50	5.50	6.48	7.46	8.45	9.44	10.44	11.44	12.67	9 / 6			
reaction time	0.155	interval		1.05	1.01	1.00	0.98	0.98	0.99	0.99	1.00	1.00	1.23		3.06	2.95	2.99
wind	-0.2 m/s	velocity	5.33	8.10	8.42	8.50	8.67	8.67	8.59	8.59	8.50	8.50	8.17	7.89	8.33	8.64	8.53

Omega Timing (2024) - diamond league race analysis

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

date	03-Mar-24	time	2.54	3.58	4.56	5.54	6.52						7.81	3 / 4			
reaction time	0.142	interval		1.04	0.98	0.98	0.98						1.29		3.00		
		velocity	5.12	8.17	8.67	8.67	8.67						10.08	7.68	8.50		

FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis) Henson (2024) Athlete First: Tia Jones 2024 Women's 60m Hurdles World Indoor Record

date	16-Feb-24	time	2.53	3.57	4.54	5.54	6.49						7.80	6 / 3			
reaction time	0.151	interval		1.04	0.97	1.00	0.95						1.31		3.01		
		velocity	5.14	8.17	8.76	8.50	8.95						9.92	7.69	8.47		

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

date	04-Feb-24	time	2.50	3.52	4.52	5.50	6.48						7.84	6 / 4			
reaction time	0.174	interval		1.02	1.00	0.98	0.98						1.36		3.00		
		velocity	5.20	8.33	8.50	8.67	8.67						9.56	7.65	8.50		

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

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

date	20-Jan-24	time	2.46	3.48	4.52	5.52	6.54						7.88	3 / 3			
reaction time		interval		1.02	1.04	1.00	1.02						1.34		3.06		
		velocity	5.28	8.33	8.17	8.50	8.33						9.70	7.61	8.33		

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

Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

date	23-Aug-23	time	2.46	3.48	4.57	5.84	7.05						dnf	4 / --			
reaction time	0.152	interval		1.02	1.09	1.27	1.21								3.38		

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

wind -0.7 m/s velocity 5.28 8.33 7.80 6.69 7.02

7.54

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

date	22-Aug-23	time	2.50	3.53	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	
wind	0.1 m/s	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	

FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	08-Jul-23	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	
wind	0.4 m/s	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	

FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	10-Jun-23	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	
wind	3.8 m/s	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	

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

date	11-Jun-22	time	2.52	3.57	4.62	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	
wind	-0.2 m/s	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	

FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	12-Jun-21	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	
wind	0.4 m/s	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	

Sääw, Ellen (SWE) (1990)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2010 Swedish National Championships (Falun, SWE)*Blomkvist (2010) - www.sub13.se*

date	22-Aug-10	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	PB	3.34	3.32	3.51
wind	-0.2 m/s	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

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

date	08-Aug-10	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
wind	0.6 m/s	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

FINAL - 2010 Five Nations (Glasgow, GBR)*Blomkvist (2010) - www.sub13.se*

date	30-Jan-10	time	2.54	3.63	4.74	5.81	6.87						8.50	/ 6			
reaction time	0.516	interval		1.09	1.11	1.07	1.06						1.63	PB	3.27		
		velocity	5.12	7.80	7.66	7.94	8.02						7.98	7.06	7.80		

FINAL - 2010 Scandic Indoor Games (Huddinge, SWE)*Blomkvist (2010) - www.sub13.se*

date	16-Jan-10	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	1.07						1.66		3.27		
		velocity	5.00	7.80	7.66	7.94	7.94						7.83	6.98	7.80		

Saito, Ukiyoshi (JPN)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)*(2016.11.06) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.70	3.79	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
wind	1.1 m/s	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

Saka, Nozomi (JPN) (2001)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)*Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data*

date	08-Aug-19	time	2.74	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
wind	-4.1 m/s	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

Sakaguchi, Risako (JPN) (1996)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)*(2017) - tldata-store.com/2017/05/13/post-441/*

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

Sallaz, Christine (FRA) (1961)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 1986 French National Indoor Championships (Lievin, FRA)*Aubert (1986) - indoor - video - haies, etude des performances*

date	26-Jan-86	time	2.70	3.82	4.90	5.93	6.99						8.34	/ 6			
reaction time		interval		1.12	1.08	1.03	1.06						1.35		3.23		
		velocity	4.81	7.59	7.87	8.25	8.02						9.63	7.19	7.89		

Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)*Aubert (1986) - indoor - video - haies, etude des performances*

date 25-Jan-86 time 2.71 3.80 4.84 5.87 6.90
 reaction time interval 1.09 1.04 1.03 1.03
 velocity 4.80 7.80 8.17 8.25 8.25

8.28 / 3
 1.38 3.16
 9.42 7.25 8.07

Heat ? - 1986 French National Indoor Championships (Lievin, FRA)

date 25-Jan-86 time 2.66 3.75 4.84 5.91 6.95
 reaction time interval 1.09 1.09 1.07 1.04
 velocity 4.89 7.80 7.80 7.94 8.17

Aubert (1986) - indoor - video - haies, etude des performances
 8.36 / 3
 1.41 3.25
 9.22 7.18 7.85

Salmon, Paula (USA) (1999)**FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)**

date 10-Jun-23 time 2.57 3.57 4.57 5.55 6.55 7.55 8.56 9.59 10.63 11.69
 reaction time interval 1.00 1.00 0.98 1.00 1.00 1.01 1.03 1.04 1.06 1.23
 wind 3.8 m/s velocity 5.06 8.50 8.50 8.67 8.50 8.50 8.42 8.25 8.17 8.02 8.17 7.74

Henson (2023) - Athlete First: 2023 year end hurdle report
 12.92 1 / 8
 2.98 3.01 3.13
 8.56 8.47 8.15

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

date 25-Jun-22 time 2.65 3.65 4.65 5.63 6.61 7.60 8.59 9.60 10.62 11.65
 reaction time interval 1.00 1.00 0.98 0.98 0.99 0.99 1.01 1.02 1.03 1.13
 wind -1.4 m/s velocity 4.91 8.50 8.50 8.67 8.67 8.59 8.59 8.42 8.33 8.25 8.89 7.82

Henson (2022) - Athlete First: 2022 year end hurdle report
 12.78 2 / 6
 2.98 2.96 3.06
 8.56 8.61 8.33

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

date 11-Jun-22 time 2.55 3.55 4.59 5.57 6.57 7.57 8.57 9.57 10.57 11.60
 reaction time interval 1.00 1.04 0.98 1.00 1.00 1.00 1.00 1.00 1.03 1.25
 wind -0.2 m/s velocity 5.10 8.50 8.17 8.67 8.50 8.50 8.50 8.50 8.50 8.25 8.04 7.78

Henson (2022) - Athlete First: 2022 year end hurdle report
 12.85 6 / 4
 3.02 3.00 3.03
 8.44 8.50 8.42

Quarter Final 1 - 2021 NCAA Championships Preliminary East Round (Jacksonville, FL) (TV Analysis)

date 29-May-21 time 2.57 3.57 4.55 5.53 6.50 7.53 8.55 9.57 10.63 11.68
 reaction time interval 1.00 0.98 0.98 0.97 1.03 1.02 1.02 1.06 1.06 1.05 1.21
 wind 0.8 m/s velocity 5.06 8.50 8.67 8.67 8.76 8.25 8.33 8.33 8.02 8.10 8.31 7.76

Henson (2021) - Athlete First: 2021 year end hurdle report
 12.89 4 / 2
 PB 2.96 3.02 3.13
 8.61 8.44 8.15

Samba-Mayela, Cyréna (FRA) (2000)**FINAL - 2024 Memorial van damme (Brussels, BEL)**

date 14-Sep-24 time 2.59 3.63 4.60 5.58 6.57 7.54 8.54 9.52 10.57 11.63
 reaction time interval 0.132 1.04 0.97 0.98 0.99 0.97 1.00 0.98 1.05 1.06 1.15
 wind 0.4 m/s velocity 5.02 8.17 8.76 8.67 8.59 8.76 8.50 8.67 8.10 8.02 8.74 7.82

Omega Timing (2024) - diamond league race analysis
 12.78 6 / 7
 2.99 2.96 3.09
 8.53 8.61 8.25

FINAL - 2024 Weltklasse (Zürich, SU)

date 05-Sep-24 time 2.46 3.48 4.45 5.41 6.36 7.30 8.25 9.23 10.20 11.19
 reaction time interval 1.02 0.97 0.96 0.95 0.94 0.95 0.98 0.97 0.99 1.21
 wind 0.8 m/s velocity 5.28 8.33 8.76 8.85 8.95 9.04 8.95 8.67 8.76 8.59 8.31 8.06

Omega Timing (2024) - diamond league race analysis
 12.40 6 / 2
 2.95 2.84 2.94
 8.64 8.98 8.67

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

date 30-Aug-24 time 2.43 3.46 4.45 5.44 6.41 7.38 8.36 9.35 10.33 11.33
 reaction time interval 0.141 1.03 0.99 0.99 0.97 0.97 0.98 0.99 0.98 1.00 1.24
 wind -0.4 m/s velocity 5.35 8.25 8.59 8.59 8.76 8.76 8.67 8.59 8.67 8.50 8.10 7.96

Omega Timing (2024) - diamond league race analysis
 12.57 5 / 4
 3.01 2.92 2.97
 8.47 8.73 8.59

FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)

date 25-Aug-24 time 2.45 3.46 4.47 5.40 6.36 7.33 8.26 9.26 10.24 11.26
 reaction time interval 0.162 1.01 1.01 0.93 0.96 0.97 0.93 1.00 0.98 1.02 1.21
 wind -0.5 m/s velocity 5.31 8.42 8.42 9.14 8.85 8.76 9.14 8.50 8.67 8.33 8.31 8.02

Omega Timing (2024) - diamond league race analysis
 12.47 8 / 6
 2.95 2.86 3.00
 8.64 8.92 8.50

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

date 25-Aug-24 time 2.34 3.42 4.40 5.36 6.31 8.23 9.22 10.19 11.19
 reaction time interval 0.138 1.08 0.98 0.96 0.95 1.92 0.99 0.97 1.00 1.30
 wind -0.3 m/s velocity 5.56 7.87 8.67 8.85 8.95 8.85 8.59 8.76 8.50 7.73 8.01

Omega Timing (2024) - diamond league race analysis
 12.49 5 / 3
 3.02 2.87 2.96
 8.44 8.89 8.61

FINAL - 2024 Athletissima (Lausanne, SU)

date 22-Aug-24 time 2.46 3.48 4.46 5.43 6.41 7.41 8.41 9.41 10.42 11.44
 reaction time interval 0.144 1.02 0.98 0.97 0.98 1.00 1.00 1.00 1.01 1.02 1.25
 wind -0.9 m/s velocity 5.28 8.33 8.67 8.76 8.67 8.50 8.50 8.50 8.42 8.33 8.04 7.88

Omega Timing (2024) - diamond league race analysis
 12.69 4 / 7
 2.97 2.98 3.03
 8.59 8.56 8.42

FINAL - 2024 Olympic Games (Paris, FRA)

date 10-Aug-24 time 2.42 3.44 4.43 5.39 6.34 7.29 8.22 9.18 10.15 11.12
 reaction time interval 0.143 1.02 0.99 0.96 0.95 0.95 0.93 0.96 0.97 0.97 1.22
 wind -0.3 m/s velocity 5.37 8.33 8.59 8.85 8.95 8.95 9.14 8.85 8.76 8.76 8.24 8.10

Paris 2024 Olympc Games - Results Book (2024)
 12.34 2 / 2
 2.97 2.83 2.90
 8.59 9.01 8.79

Semi-Final 3 - 2024 Olympic Games (Paris, FRA)

date 09-Aug-24 time 2.42 3.44 4.44 5.41 6.38 7.33 8.29 9.26 10.24 11.23
 reaction time interval 0.147 1.02 1.00 0.97 0.97 0.95 0.96 0.97 0.98 0.99 1.29
 wind -0.7 m/s velocity 5.37 8.33 8.50 8.76 8.76 8.95 8.85 8.76 8.67 8.59 7.79 7.99

Paris 2024 Olympc Games - Results Book (2024)
 12.52 6 / 4
 2.99 2.88 2.94
 8.53 8.85 8.67

Heat 3 - 2024 Olympic Games (Paris, FRA)

date 07-Aug-24 time 2.46 3.49 4.49 5.45 6.41 7.37 8.34 9.31 10.30 11.31
 12.56 3 / 3

Paris 2024 Olympc Games - Results Book (2024)

reaction time	0.142	interval	1.03	1.00	0.96	0.96	0.96	0.97	0.97	0.99	1.01	1.25			2.99	2.89	2.97		
wind	0.8 m/s	velocity	5.28	8.25	8.50	8.85	8.85	8.85	8.76	8.76	8.59	8.42	8.04	7.96		8.53	8.82	8.59	
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	08-Jun-24	time	2.54	3.54	4.52	5.46	6.42	7.34	8.30	9.26	10.23	11.22			12.31		5 / 1		
reaction time	0.150	interval	1.00	0.98	0.94	0.96	0.92	0.96	0.96	0.97	0.99	1.09		NR PB		2.92	2.84	2.92	
wind	0.8 m/s	velocity	5.12	8.50	8.67	9.04	8.85	9.24	8.85	8.85	8.76	8.59	9.22		8.12		8.73	8.98	8.73
FINAL - 2024 Prefontaine Classic (Eugene, OR)														<i>Omega Timing (2024) - diamond league race analysis</i>					
date	25-May-24	time	2.44	3.46	4.45	5.41	6.36	7.33	8.30	9.29	10.28	11.30			12.52		8 / 1		
reaction time	0.132	interval	1.02	0.99	0.96	0.95	0.97	0.97	0.99	0.99	1.02	1.22		=NR =PB		2.97	2.89	3.00	
wind	-0.9 m/s	velocity	5.33	8.33	8.59	8.85	8.95	8.76	8.76	8.59	8.59	8.33	8.24		7.99		8.59	8.82	8.50
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)														<i>Omega Timing (2024) - diamond league race analysis</i>					
date	20-Apr-24	time	2.44	3.47	4.46	5.43	6.40	7.36	8.33	9.31	10.28	11.28			12.55		10 / 3		
reaction time	0.141	interval	1.03	0.99	0.97	0.97	0.96	0.97	0.98	0.97	1.00	1.27		NR PB		2.99	2.90	2.95	
wind	-0.2 m/s	velocity	5.33	8.25	8.59	8.76	8.76	8.85	8.76	8.67	8.76	8.50	7.91		7.97		8.53	8.79	8.64
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)														<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>					
date	03-Mar-24	time	2.52	3.52	4.52	5.50	6.45								7.74		5 / 2		
reaction time	0.141	interval	1.00	1.00	0.98	0.95							1.29				2.98		
		velocity	5.16	8.50	8.50	8.67	8.95						10.08		7.75		8.56		
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	23-Aug-23	time	2.53	3.56	4.57	5.55	6.54	7.52	8.55	9.61	10.65	11.73			12.95		8 / 5		
reaction time	0.170	interval	1.03	1.01	0.98	0.99	0.98	1.03	1.06	1.04	1.08	1.22					3.02	3.00	3.18
wind	-0.7 m/s	velocity	5.14	8.25	8.42	8.67	8.59	8.67	8.25	8.02	8.17	7.87	8.24		7.72		8.44	8.50	8.02
Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	22-Aug-23	time	2.50	3.53	4.55	5.53	6.48	7.46	8.45	9.46	10.48	11.53			12.71		9 / 4		
reaction time	0.144	interval	1.03	1.02	0.98	0.95	0.98	0.99	1.01	1.02	1.05	1.18					3.03	2.92	3.08
wind	0.1 m/s	velocity	5.20	8.25	8.33	8.67	8.95	8.67	8.59	8.42	8.33	8.10	8.52		7.87		8.42	8.73	8.28
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	21-Aug-22	time	2.56	3.58	4.58	5.60	6.63	7.66	8.69	9.69	10.73	11.81			13.05		7 / 7		
reaction time	0.152	interval	1.02	1.00	1.02	1.03	1.03	1.03	1.00	1.04	1.08	1.24					3.04	3.09	3.12
wind	-0.1 m/s	velocity	5.08	8.33	8.50	8.33	8.25	8.25	8.25	8.50	8.17	7.87	8.10		7.66		8.39	8.25	8.17
Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	23-Jul-22	time	2.50	3.56	4.56	5.56	6.60	7.64	8.70	9.74	10.80	11.90			13.15		2 / 4		
reaction time	0.108	interval	1.06	1.00	1.00	1.04	1.04	1.06	1.04	1.06	1.10	1.25					3.06	3.14	3.20
wind	-0.4 m/s	velocity	5.20	8.02	8.50	8.50	8.17	8.17	8.02	8.17	8.02	7.73	8.04		7.60		8.33	8.12	7.97
FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	18-Jun-22	time	2.44	3.44	4.44	5.42	6.42	7.40	8.40	9.42	10.44	11.50			12.76		4 / 4		
reaction time	0.123	interval	1.00	1.00	0.98	1.00	0.98	1.00	1.02	1.02	1.06	1.26					2.98	2.98	3.10
wind	-0.4 m/s	velocity	5.33	8.50	8.50	8.67	8.50	8.67	8.50	8.33	8.33	8.02	7.98		7.84		8.56	8.56	8.23
FINAL - 2022 Doha Diamond League (Doha, QAT) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	13-May-22	time	2.53	3.56	4.53	5.50	6.47	7.44	8.42	9.44	10.50	11.51			12.72		5 / 5		
reaction time	0.169	interval	1.03	0.97	0.97	0.97	0.97	0.98	1.02	1.06	1.01	1.21					2.97	2.92	3.09
wind	3.8 m/s	velocity	5.14	8.25	8.76	8.76	8.76	8.76	8.67	8.33	8.02	8.42	8.31		7.86		8.59	8.73	8.25
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	19-Mar-22	time	2.42	3.44	4.44	5.40	6.36								7.78		5 / 1		
reaction time	0.119	interval	1.02	1.00	0.96	0.96							1.42		NR		2.98		
		velocity	5.37	8.33	8.50	8.85	8.85						9.15		7.71		8.56		
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	17-Sep-20	time	2.48	3.66	4.78	5.84	6.88	7.90	8.92	9.92	10.94	12.00			13.29		7 / 7		
reaction time	0.131	interval	1.18	1.12	1.06	1.04	1.02	1.02	1.00	1.02	1.06	1.29					3.36	3.08	3.08
wind	0.1 m/s	velocity	5.24	7.20	7.59	8.02	8.17	8.33	8.33	8.50	8.33	8.02	7.79		7.52		7.59	8.28	8.28
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	12-Sep-20	time	2.46	3.49	4.46	5.47	6.48	7.50	8.49	9.46	10.48	11.48			12.73		4 / 1		
reaction time	0.297	interval	1.03	0.97	1.01	1.01	1.02	0.99	0.97	1.02	1.00	1.25		PB			3.01	3.02	2.99
wind	1.5 m/s	velocity	5.28	8.25	8.76	8.42	8.42	8.33	8.59	8.76	8.33	8.50	8.04		7.86		8.47	8.44	8.53
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	19-Aug-20	time	2.47	3.53	4.57	5.61		7.64	8.64	9.67	10.71	11.78			13.07		8 / 4		
reaction time	0.147	interval	1.06	1.04	1.04		2.03	1.00	1.03	1.04	1.07	1.29					3.14	3.03	3.14
wind	-0.2 m/s	velocity	5.26	8.02	8.17	8.17		8.37	8.50	8.25	8.17	7.94	7.79		7.65		8.12	8.42	8.12

Samuel, Aleesa (USA) (2007)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Millrose Games (New York, NY) (TV Analysis)												<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>					
date	11-Feb-24	time	2.58	3.64	4.70	5.74	6.82						8.26	9 / 9			
reaction time	0.202	interval		1.06	1.06	1.04	1.08					1.44	PB		3.16		
		velocity	5.04	8.02	8.02	8.17	7.87					9.03	7.26		8.07		
Samuelsson, Jessica (SWE) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 Windsprint (Sundsvall, SWE)												<i>Blomkvist (2011) - www.sub13.se</i>					
date	31-Jul-11	time	2.77	3.88	4.96	6.06	7.15	8.25	9.34	10.46	11.61	12.76		13.95	/ 5		
reaction time		interval		1.11	1.08	1.10	1.09	1.10	1.09	1.12	1.15	1.15	1.19		3.29	3.28	3.42
wind	1.4 m/s	velocity	4.69	7.66	7.87	7.73	7.80	7.73	7.80	7.59	7.39	7.39	8.82	7.17	7.75	7.77	7.46
FINAL - 2010 Swedish National Championships (Falun, SWE)												<i>Blomkvist (2010) - www.sub13.se</i>					
date	22-Aug-10	time	2.78	3.89	5.04	6.14	7.25	8.40	9.56	10.72	11.90	13.11		14.35	/ 6		
reaction time		interval		1.11	1.15	1.10	1.11	1.15	1.16	1.16	1.18	1.21	1.24		3.36	3.42	3.55
wind	-0.2 m/s	velocity	4.68	7.66	7.39	7.73	7.66	7.39	7.33	7.33	7.20	7.02	8.47	6.97	7.59	7.46	7.18
Heptathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)												<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	15-Aug-09	time	2.78	3.90	5.00	6.10	7.20	8.30	9.41	10.51	11.63	12.78		13.96	8 / 3		
reaction time	0.182	interval		1.12	1.10	1.10	1.10	1.10	1.11	1.10	1.12	1.15	1.18		3.32	3.31	3.37
wind	-0.1 m/s	velocity	4.68	7.59	7.73	7.73	7.73	7.73	7.66	7.73	7.59	7.39	8.90	7.16	7.68	7.70	7.57
Sasaki, Aogi (JPN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)												<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>					
date	01-Sep-19	time	2.67	3.74	4.80	5.85	6.92	8.00	9.06	10.15	11.27	12.39		13.66	8 / 7		
reaction time		interval		1.07	1.06	1.05	1.07	1.08	1.06	1.09	1.12	1.12	1.27		3.18	3.21	3.33
wind	1.2 m/s	velocity	4.87	7.94	8.02	8.10	7.94	7.87	8.02	7.80	7.59	7.59	8.27	7.32	8.02	7.94	7.66
B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)												<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>					
date	28-Apr-19	time	2.70	3.82	4.90	5.96	7.04	8.11	9.21	10.34	11.48	12.65		13.96	7 / 6		
reaction time		interval		1.12	1.08	1.06	1.08	1.07	1.10	1.13	1.14	1.17	1.31		3.26	3.25	3.44
wind	1.3 m/s	velocity	4.81	7.59	7.87	8.02	7.87	7.94	7.73	7.52	7.46	7.26	8.02	7.16	7.82	7.85	7.41
Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)												<i>(2017) - tfdata-store.com/2017/06/08/post-920/</i>					
date	26-May-17	time	2.66	3.74	4.79	5.84	6.90	7.98	9.07	10.17	11.28	12.44		13.69	4 / 4		
reaction time	0.194	interval		1.08	1.05	1.05	1.06	1.08	1.09	1.10	1.11	1.16	1.25	=PB	3.18	3.23	3.37
wind	1.9 m/s	velocity	4.89	7.87	8.10	8.10	8.02	7.87	7.80	7.73	7.66	7.33	8.40	7.30	8.02	7.89	7.57
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)												<i>(2017) - tfdata-store.com/2017/05/01/458/</i>					
date	29-Apr-17	time	2.68	3.75	4.79	5.84	6.87	7.90	8.97	10.07	11.16	12.28		13.53	4 / 2		
reaction time		interval		1.07	1.04	1.05	1.03	1.03	1.07	1.10	1.09	1.12	1.25		3.16	3.13	3.31
wind	4.1 m/s	velocity	4.85	7.94	8.17	8.10	8.25	8.25	7.94	7.73	7.80	7.59	8.40	7.39	8.07	8.15	7.70
Heat 4 - 2016 Japanese National Junior Championships (Mizuho, JPN)												<i>(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	21-Oct-16	time	2.68	3.78	4.86	5.94	7.03	8.11	9.21	10.32	11.50	12.67		13.97	3 / 2		
reaction time		interval		1.10	1.08	1.08	1.09	1.08	1.10	1.11	1.18	1.17	1.30		3.26	3.27	3.46
wind	1.5 m/s	velocity	4.85	7.73	7.87	7.87	7.80	7.87	7.73	7.66	7.20	7.26	8.08	7.16	7.82	7.80	7.37
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)												<i>Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics data</i>					
date	02-Aug-15	time	2.67	3.75	4.83	5.90	7.00	8.07	9.19	10.32	11.46	12.63		13.93	7 / 2		
reaction time		interval		1.08	1.08	1.07	1.10	1.07	1.12	1.13	1.14	1.17	1.30	PB	3.23	3.29	3.44
wind	0.9 m/s	velocity	4.87	7.87	7.87	7.94	7.73	7.94	7.59	7.52	7.46	7.26	8.08	7.18	7.89	7.75	7.41
Sasaki, Ayumi (JPN) (1967)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 1991 IAAF World Championships (Tokyo, JPN)												<i>Numazawa (1991) - analysis of time in the 3rd world athletics championships, women's 100m hurdles</i>					
date	29-Aug-91	time	2.69	3.81	4.93	5.98	7.05	8.15	9.25	10.35	11.47	12.62		13.85	2 / 7		
reaction time		interval		1.12	1.12	1.05	1.07	1.10	1.10	1.12	1.15	1.23			3.29	3.27	3.37
wind	0.5 m/s	velocity	4.83	7.59	7.59	8.10	7.94	7.73	7.73	7.73	7.59	7.39	8.54	7.22	7.75	7.80	7.57
Sasaki, Takashi (JPN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)												<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>					
date	06-May-18	time	2.74	3.82	4.91	5.97	7.05	8.13	9.21	10.31	11.42	12.54		13.75	3 / 6		
reaction time		interval		1.08	1.09	1.06	1.08	1.08	1.08	1.10	1.11	1.12	1.21		3.23	3.24	3.33
wind	-0.5 m/s	velocity	4.74	7.87	7.80	8.02	7.87	7.87	7.87	7.73	7.66	7.59	8.68	7.27	7.89	7.87	7.66
Sasaki, Ten (JPN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 2 - 2020 World Athletics Trials (Fuji, JPN)												<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>					
date	06-Sep-20	time	2.66	3.74	4.80	5.86	6.92	7.97	9.07	10.16	11.27	12.42		13.69	/ 3		
reaction time		interval		1.08	1.06	1.06	1.06	1.05	1.10	1.09	1.11	1.15	1.27		3.20	3.21	3.35
wind	1.3 m/s	velocity	4.89	7.87	8.02	8.02	8.02	8.10	7.73	7.80	7.66	7.39	7.91	7.30	7.97	7.94	7.61
FINAL - 2017 Mito Invitational (Mito, JPN)												<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>					
date	05-May-17	time	2.67	3.76	4.85	5.91	6.98	8.06	9.16	10.24	11.36	12.51		13.81	4 / 2		

reaction time	interval	1.09	1.09	1.06	1.07	1.08	1.10	1.08	1.12	1.15	1.30			3.24	3.25	3.35	
wind	1.0 m/s	velocity	4.87	7.80	7.80	8.02	7.94	7.87	7.73	7.87	7.59	7.39	8.08	7.24	7.87	7.85	7.61

Heat 1 - 2017 Mito Invitational (Mito, JPN)(2017) - tfdata-store.com/2017/05/06/post-423/

date	05-May-17	time	2.70	3.81	4.90	6.01	7.11	8.22	9.36	10.49	11.70	12.87		14.22	7 / 2			
reaction time		interval	1.11	1.09	1.11	1.10	1.11	1.14	1.13	1.21	1.17	1.35				3.31	3.35	3.51
wind	-2.7 m/s	velocity	4.81	7.66	7.80	7.66	7.73	7.66	7.46	7.52	7.02	7.26	7.78	7.03		7.70	7.61	7.26

Semi-Final 1 - 2016 Japanese National Junior Championships (Mizuho, JPN)(2016.10.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	21-Oct-16	time	2.66	3.74	4.82	5.88	6.95	8.02	9.11	10.21	11.32	12.49		13.80	5 / 2			
reaction time		interval	1.08	1.08	1.06	1.07	1.07	1.09	1.10	1.11	1.17	1.31				3.22	3.23	3.38
wind	1.2 m/s	velocity	4.89	7.87	7.87	8.02	7.94	7.94	7.80	7.73	7.66	7.26	8.02	7.25		7.92	7.89	7.54

FINAL - 2016 Kanto Student Championships (Sagamihara, JPN)(2016.09.17) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	17-Sep-16	time	2.70	3.80	4.89	5.95	7.05	8.14	9.24	10.36	11.51	12.66		13.97	6 / 3			
reaction time		interval	1.10	1.09	1.06	1.10	1.09	1.10	1.12	1.15	1.15	1.31				3.25	3.29	3.42
wind	3.2 m/s	velocity	4.81	7.73	7.80	8.02	7.73	7.80	7.73	7.59	7.39	7.39	8.02	7.16		7.85	7.75	7.46

Sato, Nodoka (JPN) (1999)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data collection**

date	02-Aug-17	time	2.71	3.81	4.90	6.00	7.10	8.21	9.33	10.47	11.60	12.75		14.01	7 / 2			
reaction time	0.133	interval	1.10	1.09	1.10	1.10	1.11	1.12	1.14	1.13	1.15	1.26				3.29	3.33	3.42
wind	-2.9 m/s	velocity	4.80	7.73	7.80	7.73	7.73	7.66	7.59	7.46	7.52	7.39	8.33	7.14		7.75	7.66	7.46

Schäfer, Carolin (GER) (1991)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympic Games - Results Book (2024)**

date	08-Aug-24	time	2.62	3.73	4.79	5.84	6.89	7.93	8.97	10.02	11.07	12.14		13.42	6 / 2			
reaction time	0.192	interval	1.11	1.06	1.05	1.05	1.04	1.04	1.05	1.05	1.07	1.28				3.22	3.13	3.17
wind	0.0 m/s	velocity	4.96	7.66	8.02	8.10	8.10	8.17	8.17	8.10	8.10	7.94	7.85	7.45		7.92	8.15	8.04

Schaller-Klier, Johanna (GDR) (1952)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 1978 European Championships (Prague, TCH) Lamare (1978) - championnats d'Europa 1978**

date	02-Sep-78	time	2.69				6.52							12.62	4 / 1		
reaction time		interval				3.83											
wind	0.6 m/s	velocity	4.83			8.88								7.92			

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

date	29-Jul-76	time	2.56	3.58	4.58	5.56	6.54	7.54	8.54	9.54	10.56	11.60		12.77	5 / 1			
reaction time		interval	1.02	1.00	0.98	0.98	1.00	1.00	1.00	1.02	1.04	1.17				3.00	2.98	3.06
wind	0.0 m/s	velocity	5.08	8.33	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.17	8.97	7.83		8.50	8.56	8.33

Schrott, Beate (AUT) (1988)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT) CAA Hurdle Development (2019)**

date	06-Oct-19	time	2.71	3.77	4.78	5.81	6.81	7.83	8.85	9.89	10.94	12.02		13.25	3 / 2 6			
reaction time	0.150	interval	1.06	1.01	1.03	1.00	1.02	1.02	1.04	1.05	1.08	1.23				3.10	3.04	3.17
wind	0.6 m/s	velocity	4.80	8.02	8.42	8.25	8.50	8.33	8.33	8.17	8.10	7.87	8.17	7.55		8.23	8.39	8.04

FINAL - 2012 Olympic Games (London, GBR) (TV Analysis) Henson (2021) - Athlete First: major championships report

date	07-Aug-12	time	2.58	3.60	4.62	5.62	6.62	7.62	8.62	9.66	10.70	11.78		13.07	9 / 8 7			
reaction time	0.156	interval	1.02	1.02	1.00	1.00	1.00	1.00	1.04	1.04	1.08	1.29				3.04	3.00	3.16
wind	-0.2 m/s	velocity	5.04	8.33	8.33	8.50	8.50	8.50	8.50	8.17	8.17	7.87	8.14	7.65		8.39	8.50	8.07

Schwarzkopf, Lilli (GER) (1983)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - biomechanical analyses at the 12th IAAF world championships**

date	15-Aug-09	time	2.79	3.87	4.95	6.01	7.09	8.15	9.22	10.33	11.45	12.57		13.80	4 / 2			
reaction time	0.143	interval	1.08	1.08	1.06	1.08	1.06	1.07	1.11	1.12	1.12	1.23				3.22	3.21	3.35
wind	-0.3 m/s	velocity	4.66	7.87	7.87	8.02	7.87	8.02	7.94	7.66	7.59	7.59	8.54	7.25		7.92	7.94	7.61

Šebestíková, Nikol (CZE) (1994)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE) Feher (2014) - Final report from the Czech Republic national championships**

date	02-Aug-14	time	2.71	3.81	4.96	6.07	7.20	8.35	9.51	10.66	11.85	13.05		14.39	1 / 6			
reaction time	0.187	interval	1.10	1.15	1.11	1.13	1.15	1.16	1.15	1.19	1.20	1.34				3.36	3.44	3.54
wind	0.2 m/s	velocity	4.80	7.73	7.39	7.66	7.52	7.39	7.33	7.39	7.14	7.08	7.84	6.95		7.59	7.41	7.20

Secher Myrnel, Lene (NOR) (1986)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2013 Windsprint (Sundsvall, SWE) (2013) - www.ssg.se/windsprint/Splittider/**

date	28-Jul-13	time	2.82	3.93	5.04	6.14	7.22	8.27	9.36	10.46	11.59	12.70		13.94	2 / 5			
reaction time		interval	1.11	1.11	1.10	1.08	1.05	1.09	1.10	1.13	1.11	1.24				3.32	3.22	3.34
wind	1.2 m/s	velocity	4.61	7.66	7.66	7.73	7.87	8.10	7.80	7.73	7.52	7.66	8.47	7.17		7.68	7.92	7.63

Sedney, Zoë (NED) (2001)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis) Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season**

date	14-Jun-22	time	2.56	3.60	4.62	5.64	6.64	7.64	8.66	9.68	10.74	11.84		13.07	7 / 8		
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reaction time	0.165	interval	1.04	1.02	1.02	1.00	1.00	1.02	1.02	1.06	1.10	1.23		3.08	3.02	3.18	
wind	0.2 m/s	velocity	5.08	8.17	8.33	8.33	8.50	8.50	8.33	8.33	8.02	7.73	8.17	7.65	8.28	8.44	8.02

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

date	19-Mar-22	time	2.54	3.58	4.60	5.62	6.64							8.07	6 / 6		
reaction time	0.169	interval	1.04	1.02	1.02	1.02							1.43			3.08	
		velocity	5.12	8.17	8.33	8.33	8.33						9.09	7.43		8.28	

FINAL - 2021 Müller Grand Prix (Gateshead, GBR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	23-May-21	time	2.64	3.72	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	1.06	1.08	1.10	1.12	1.25			3.18	3.20	3.30
wind	-3.9 m/s	velocity	4.92	7.87	8.17	8.02	7.87	8.02	8.02	7.87	7.73	7.59	8.04	7.37		8.02	7.97	7.73

FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	07-Mar-21	time	2.48	3.54	4.56	5.58	6.58							8.00	2 / 7		
reaction time	0.171	interval	1.06	1.02	1.02	1.00							1.42			3.10	
		velocity	5.24	8.02	8.33	8.33	8.50						9.15	7.50		8.23	

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

date	25-Sep-20	time	2.56	3.63	4.66	5.73	6.73	7.73	8.76	9.83	10.86	12.00		13.24	2 / 5			
reaction time	0.168	interval	1.07	1.03	1.07	1.00	1.00	1.03	1.07	1.03	1.14	1.24		PB		3.17	3.03	3.24
wind	1.1 m/s	velocity	5.08	7.94	8.25	7.94	8.50	8.50	8.25	7.94	8.25	7.46	8.10	7.55		8.04	8.42	7.87

Sember, Cindy (GBR) (1994)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-in Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat B - 2024 Kamila Skolimowska Memorial (Silesia, POL)***Omega Timing (2024) - diamond league race analysis*

date	25-Aug-24	time	2.53	3.47	4.43	5.40	6.37	7.37	8.38	9.39	10.40	11.40		12.67	2 / 7			
reaction time	0.150	interval	0.94	0.96	0.97	0.97	1.00	1.01	1.01	1.01	1.00	1.27				2.87	2.98	3.02
wind	0.6 m/s	velocity	5.14	9.04	8.85	8.76	8.76	8.50	8.42	8.42	8.42	8.50	7.91	7.89		8.89	8.56	8.44

Semi-Final 3 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	09-Aug-24	time	2.47	3.52	4.52	5.49	6.44	7.41	8.40	9.42				dnf	8 / --		
reaction time	0.139	interval	1.05	1.00	0.97	0.95	0.97	0.99	1.02							3.02	2.91
wind	-0.7 m/s	velocity	5.26	8.10	8.50	8.76	8.95	8.76	8.59	8.33						8.44	8.76

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

date	07-Aug-24	time	2.47	3.51	4.50	5.46	6.43	7.40	8.39	9.41	10.43	11.46		12.72	9 / 2			
reaction time	0.155	interval	1.04	0.99	0.96	0.97	0.97	0.99	1.02	1.02	1.03	1.26				2.99	2.93	3.07
wind	0.0 m/s	velocity	5.26	8.17	8.59	8.85	8.76	8.76	8.59	8.33	8.33	8.25	7.98	7.86		8.53	8.70	8.31

FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)*Henson (2024) - Athlete First: 2024 year end hurdle report*

date	08-Jun-24	time	2.54	3.60	4.57	5.54	6.51	7.48	8.44	9.42	10.40	11.42		12.56	7 / 4			
reaction time	0.175	interval	1.06	0.97	0.97	0.97	0.97	0.96	0.98	0.98	1.02	1.14				3.00	2.90	2.98
wind	0.8 m/s	velocity	5.12	8.02	8.76	8.76	8.76	8.76	8.85	8.67	8.67	8.33	8.82	7.96		8.50	8.79	8.56

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

date	25-May-24	time	2.54	3.60	4.61	5.59	6.57	7.55	8.52	9.50	10.50	11.51		12.76	9 / 7			
reaction time	0.175	interval	1.06	1.01	0.98	0.98	0.98	0.97	0.98	1.00	1.01	1.25				3.05	2.93	2.99
wind	-0.9 m/s	velocity	5.12	8.02	8.42	8.67	8.67	8.67	8.76	8.67	8.50	8.42	8.04	7.84		8.36	8.70	8.53

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

date	03-Mar-24	time	2.60	3.65	4.65	5.62	6.60							7.92	8 / 7		
reaction time	0.164	interval	1.05	1.00	0.97	0.98							1.32			3.02	
		velocity	5.00	8.10	8.50	8.76	8.67						9.85	7.58		8.44	

FINAL - 2024 Millrose Games (New York, NY) (TV Analysis)*Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record*

date	11-Feb-24	time	2.58	3.60	4.60	5.58	6.56							7.91	1 / 5		
reaction time	0.170	interval	1.02	1.00	0.98	0.98							1.35			3.00	
		velocity	5.04	8.33	8.50	8.67	8.67						9.63	7.59		8.50	

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

date	04-Feb-24	time	2.55	3.62	4.62	5.62	6.62							8.00	2 / 5		
reaction time	0.490	interval	1.07	1.00	1.00	1.00							1.38			3.07	
		velocity	5.10	7.94	8.50	8.50	8.50						9.42	7.50		8.31	

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

date	23-Aug-23	time	2.60	3.62	4.62	5.60	6.64	7.62	8.62	9.64	10.69	11.75		12.97	8 / 6			
reaction time	0.167	interval	1.02	1.00	0.98	1.04	0.98	1.00	1.02	1.05	1.06	1.22				3.00	3.02	3.13
wind	0.5 m/s	velocity	5.00	8.33	8.50	8.67	8.17	8.67	8.50	8.33	8.10	8.02	8.24	7.71		8.50	8.44	8.15

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

date	22-Aug-23	time	2.60	3.64	4.64	5.62	6.60	7.59	8.58	9.58	10.60	11.63		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
wind	0.1 m/s	velocity	5.00	8.17	8.50	8.67	8.67	8.59	8.59	8.50	8.33	8.25	8.38	7.79		8.44	8.61	8.36

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

date	24-Jun-23	time	2.60	3.63	4.67	5.67	6.65	7.65	8.67	9.76	11.08								
reaction time	0.201	interval		1.03	1.04	1.00	0.98	1.00	1.02	1.09	1.32						3.07	3.00	
wind	2.8 m/s	velocity	5.00	8.25	8.17	8.50	8.67	8.50	8.33	7.80	6.44						8.31	8.50	

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

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

date	21-Aug-22	time	2.54	3.58	4.74	5.80	6.85	7.81	8.85	9.81	10.83	11.89	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	
wind	-0.1 m/s	velocity	5.12	8.17	7.33	8.02	8.10	8.85	8.17	8.85	8.33	8.02	7.91	7.60			7.82	8.36	8.39	

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

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

date	07-Aug-22	time	2.52	3.52	4.52	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	
wind	-0.2 m/s	velocity	5.16	8.50	8.50	8.50	8.85	8.85	8.85	8.50	8.67	8.33	8.45	7.94			8.50	8.85	8.50	

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

FINAL - 2022 World Athletics Championships (Eugene, OR)

date	24-Jul-22	time	2.57	3.58	4.53	5.51	6.44	7.37	8.33	9.29	10.27	11.27	12.38	1 / 5						
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	
wind	2.5 m/s	velocity	5.06	8.42	8.95	8.67	9.14	9.14	8.85	8.85	8.67	8.50	9.05	8.08			8.67	9.04	8.67	

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

Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

date	24-Jul-22	time	2.50	3.50	4.47	5.45	6.42	7.37	8.33	9.30	10.30	11.30	12.50	5 / 4						
reaction time	0.158	interval		1.00	0.97	0.98	0.97	0.95	0.96	0.97	1.00	1.00	1.20	NR PB			2.95	2.88	2.97	
wind	0.9 m/s	velocity	5.20	8.50	8.76	8.67	8.76	8.95	8.85	8.76	8.50	8.50	8.38	8.00			8.64	8.85	8.59	

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

Heat 6 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

date	23-Jul-22	time	2.47	3.52	4.50	5.46	6.46	7.40	8.40	9.38	10.38	11.40	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	
wind	-0.4 m/s	velocity	5.26	8.10	8.67	8.85	8.50	9.04	8.50	8.67	8.50	8.33	7.91	7.89			8.53	8.67	8.50	

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

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

date	18-Jun-22	time	2.52	3.54	4.52	5.52	6.49	7.47	8.47	9.45	10.47	11.50	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	
wind	-0.4 m/s	velocity	5.16	8.33	8.67	8.50	8.76	8.67	8.50	8.67	8.33	8.25	8.17	7.86			8.50	8.64	8.42	

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

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

date	28-May-22	time	2.53	3.57	4.56	5.55	6.53	7.50	8.50	9.50	10.50	11.52	12.69	2 / 4						
reaction time	0.149	interval		1.04	0.99	0.99	0.98	0.97	1.00	1.00	1.02	1.17					3.02	2.95	3.02	
wind	-0.7 m/s	velocity	5.14	8.17	8.59	8.59	8.67	8.76	8.50	8.50	8.50	8.33	8.59	7.88			8.44	8.64	8.44	

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

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

date	22-Apr-22	time	2.60	3.63	4.63	5.61	6.59	7.55	8.53	9.51	10.51	11.51	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	
wind	0.8 m/s	velocity	5.00	8.25	8.50	8.67	8.67	8.85	8.67	8.67	8.50	8.50	8.97	7.92			8.47	8.73	8.56	

Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season

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

date	09-Sep-21	time	2.54	3.56	4.54	5.52	6.50	7.50	8.48	9.46	10.48	11.52	12.71	6 / 5						
reaction time	0.161	interval		1.02	0.98	0.98	0.98	1.00	0.98	0.98	1.02	1.04	1.19				2.98	2.96	3.04	
wind	0.4 m/s	velocity	5.12	8.33	8.67	8.67	8.67	8.50	8.67	8.67	8.33	8.17	8.45	7.87			8.56	8.61	8.39	

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

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

date	03-Sep-21	time	2.56	3.62	4.62	5.60	6.60	7.58	8.56	9.54	10.58	11.62	12.79	2 / 4						
reaction time	0.174	interval		1.06	1.00	0.98	1.00	0.98	0.98	0.98	1.04	1.04	1.17				3.04	2.96	3.06	
wind	0.7 m/s	velocity	5.08	8.02	8.50	8.67	8.50	8.67	8.67	8.67	8.17	8.17	8.59	7.82			8.39	8.61	8.33	

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

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

date	13-Jul-21	time	2.54	3.57	4.57	5.55	6.51	7.47	8.45	9.45	10.46	11.48	12.69	4 / 1						
reaction time	0.195	interval		1.03	1.00	0.98	0.96	0.96	0.98	1.00	1.01	1.02	1.21				3.01	2.90	3.03	
wind	1.5 m/s	velocity	5.12	8.25	8.50	8.67	8.85	8.85	8.67	8.50	8.42	8.33	8.31	7.88			8.47	8.79	8.42	

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

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

date	23-May-21	time	2.56	3.66	4.72	5.76	6.78	7.80	8.82	9.86	10.94	12.02	13.28	5 / 1						
reaction time	0.159	interval		1.10	1.06	1.04	1.02	1.02	1.02	1.04	1.08	1.08	1.26				3.20	3.06	3.20	
wind	-3.9 m/s	velocity	5.08	7.73	8.02	8.17	8.33	8.33	8.33	8.17	7.87	7.87	7.98	7.53			7.97	8.33	7.97	

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

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

date	09-May-21	time	2.53	3.54	4.53	5.50	6.47	7.43	8.39	9.38	10.37	11.37	12.53	3 / 2						
reaction time	0.173	interval		1.01	0.99	0.97	0.97	0.96	0.96	0.99	0.99	1.00	1.16	PB			2.97	2.89	2.98	
wind	2.0 m/s	velocity	5.14	8.42	8.59	8.76	8.76	8.85	8.85	8.59	8.59	8.50	8.66	7.98			8.59	8.82	8.56	

Henson (2021) - Athlete First: 2021 Sydney McLaughlin 400m hurdles world record season

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

date	07-Mar-21	time	2.48	3.54	4.52	5.48	6.44						7.89	6 / 2						
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Henson (2021) - Athlete First: 2021 year end hurdle report

reaction time	0.165	interval	1.06	0.98	0.96	0.96							1.45	=PB		3.00		
		velocity	5.24	8.02	8.67	8.85	8.85						8.97	7.60		8.50		

Oflili, Cindy (GBR) (1994)

FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)																			<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>
date	25-Sep-20	time	2.56	3.60	4.63	5.63	6.63	7.63	8.63	9.66	10.70	11.76				13.02		4 / 3	
reaction time	0.180	interval	1.04	1.03	1.00	1.00	1.00	1.00	1.03	1.04	1.06	1.26							3.07 3.00 3.13
wind	1.1 m/s	velocity	5.08	8.17	8.25	8.50	8.50	8.50	8.50	8.25	8.17	8.02	7.98	7.68					8.31 8.50 8.15

FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																			<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>
date	17-Sep-20	time	2.52	3.58	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	1.00	1.02	1.02	1.04	1.06	1.06	1.24						3.06 3.04 3.16
wind	0.1 m/s	velocity	5.16	8.02	8.50	8.50	8.50	8.33	8.33	8.17	8.02	8.02	8.10	7.68					8.33 8.39 8.07

Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)																			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>
date	06-Oct-19	time	2.46	3.50	4.50	5.50	6.50	7.48	8.48	9.50	10.54	11.58				12.95		9 / 6	
reaction time	0.189	interval	1.04	1.00	1.00	1.00	0.98	1.00	1.02	1.04	1.04	1.37							3.04 2.98 3.10
wind	0.8 m/s	velocity	5.28	8.17	8.50	8.50	8.50	8.67	8.50	8.33	8.17	8.17	7.34	7.72					8.39 8.56 8.23

FINAL - 2017 Doha Diamond League (Doha, QAT) (TV Analysis)																			<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>
date	05-May-17	time	2.64	3.70	4.78	5.84	6.88	7.92	8.96	10.00	11.04	12.14				13.42		7 / 7	
reaction time	0.158	interval	1.06	1.08	1.06	1.04	1.04	1.04	1.04	1.04	1.10	1.28							3.20 3.12 3.18
wind	-2.3 m/s	velocity	4.92	8.02	7.87	8.02	8.17	8.17	8.17	8.17	8.17	7.73	8.20	7.45					7.97 8.17 8.02

FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)																			<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>
date	29-Apr-17	time	2.53	3.60	4.60	5.63	6.63	7.63	8.63	9.63	10.63	11.66				12.92		6 / 6	
reaction time		interval	1.07	1.00	1.03	1.00	1.00	1.00	1.00	1.00	1.03	1.26							3.10 3.00 3.03
wind	1.0 m/s	velocity	5.14	7.94	8.50	8.25	8.50	8.50	8.50	8.50	8.50	8.25	8.33	7.74					8.23 8.50 8.42

FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)																			<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>
date	01-Sep-16	time	2.46	3.48	4.48	5.48	6.46	7.44	8.44	9.44	10.44	11.44				12.70		6 / 2	
reaction time	0.139	interval	1.02	1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.00	1.26							3.02 2.96 3.00
wind	0.4 m/s	velocity	5.28	8.33	8.50	8.50	8.67	8.67	8.50	8.50	8.50	8.50	8.33	7.87					8.44 8.61 8.50

FINAL - 2016 Meeting Paris (Saint-Denis, FRA) (TV Analysis)																			<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>
date	27-Aug-16	time	2.52	3.56	4.56	5.56	6.52	7.50	8.48	9.46	10.46	11.48				12.66		7 / 3	
reaction time	0.146	interval	1.04	1.00	1.00	0.96	0.98	0.98	0.98	1.00	1.02	1.18							3.04 2.92 3.00
wind	0.2 m/s	velocity	5.16	8.17	8.50	8.50	8.85	8.67	8.67	8.67	8.50	8.33	8.90	7.90					8.39 8.73 8.50

FINAL - 2016 Athletissime (Luusanne, SUI) (TV Analysis)																			<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>
date	25-Aug-16	time	2.56	3.58	4.60	5.58	6.54	7.52	8.52	9.54	10.56	11.60				12.80		7 / 4	
reaction time	0.145	interval	1.02	1.02	0.98	0.96	0.98	1.00	1.02	1.02	1.04	1.20							3.02 2.94 3.08
wind	0.7 m/s	velocity	5.08	8.33	8.33	8.67	8.85	8.67	8.50	8.33	8.33	8.17	8.75	7.81					8.44 8.67 8.28

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)																			<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>
date	17-Aug-16	time	2.37	3.40	4.40	5.37	6.34	7.31	8.31	9.31	10.31	11.34				12.63		8 / 4	
reaction time	0.161	interval	1.03	1.00	0.97	0.97	0.97	1.00	1.00	1.00	1.03	1.29							3.00 2.94 3.03
wind	0.0 m/s	velocity	5.49	8.25	8.50	8.76	8.76	8.76	8.50	8.50	8.50	8.25	8.14	7.92					8.50 8.67 8.42

Semecká, Tereza (CZE) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)																	<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national championships</i>	
date	14-Feb-15	time	2.85	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

FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)																			<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>
date	28-Jun-14	time	2.84	3.99	5.09	6.16	7.25	8.33	9.42	10.51	11.62	12.73				13.98		5 / 1	
reaction time	0.160	interval	1.15	1.10	1.07	1.09	1.08	1.09	1.09	1.11	1.11	1.25							3.32 3.26 3.31
wind	-3.6 m/s	velocity	4.58	7.39	7.73	7.94	7.80	7.87	7.80	7.80	7.66	7.66	8.40	7.15					7.68 7.82 7.70

Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)																			<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>
date	28-Jun-14	time	2.93	4.01	5.10	6.20	7.29	8.39	9.47	10.57	11.67	12.83				14.06		3 / 1	
reaction time	0.242	interval	1.08	1.09	1.10	1.09	1.10	1.08	1.10	1.10	1.16	1.23							3.27 3.27 3.36
wind	-3.6 m/s	velocity	4.44	7.87	7.80	7.73	7.80	7.73	7.87	7.73	7.73	7.33	8.54	7.11					7.80 7.80 7.59

Sena, Françoise (FRA)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)																	<i>Aubert (1986) - indoor - video - haies, etude des performances</i>	
date	25-Jan-86	time	2.74	3.83	4.91	5.94	6.98							8.40	1 / 5			
reaction time		interval	1.09	1.08	1.03	1.04								1.42				3.20
		velocity	4.74	7.80	7.87	8.25	8.17							9.15	7.14			7.97

Heat ? - 1986 French National Indoor Championships (Lievin, FRA)																			<i>Aubert (1986) - indoor - video - haies, etude des performances</i>
date	25-Jan-86	time	2.71	3.81	4.88	5.92	6.98							8.42	1 / 5				
reaction time		interval	1.10	1.07	1.04	1.06								1.44					3.21

velocity 4.80 7.73 7.94 8.17 8.02 9.03 7.13 7.94

Sevila, Emeline (FRA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	12-Sep-20	time	2.63	3.71	4.76	5.91	6.96	8.04	9.18	10.33	11.41	12.60		13.99	1 / 8			
reaction time	0.208	interval		1.08	1.05	1.15	1.05	1.08	1.14	1.15	1.08	1.19	1.39			3.28	3.27	3.42
wind	1.5 m/s	velocity	4.94	7.87	8.10	7.39	8.10	7.87	7.46	7.39	7.87	7.14	7.23	7.15		7.77	7.80	7.46

Seymour, Pedrya (BAH) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	10-Jun-21	time	2.56	3.62	4.72	5.80	6.84	7.88	8.94	10.02	11.08	12.18		13.51	1 / 7			
reaction time	0.168	interval		1.06	1.10	1.08	1.04	1.04	1.06	1.08	1.06	1.10	1.33			3.24	3.14	3.24
wind	-0.8 m/s	velocity	5.08	8.02	7.73	7.87	8.17	8.17	8.02	7.87	8.02	7.73	7.56	7.40		7.87	8.12	7.87

FINAL - 2021 Müller Grand Prix (Gateshead, GBR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	23-May-21	time	2.64	3.74	4.84	5.88	6.96	8.00	9.04	10.08	11.18	12.28		13.57	8 / 7			
reaction time	0.191	interval		1.10	1.10	1.04	1.08	1.04	1.04	1.04	1.10	1.10	1.29			3.24	3.16	3.24
wind	-3.9 m/s	velocity	4.92	7.73	7.73	8.17	7.87	8.17	8.17	8.17	7.73	7.73	7.79	7.37		7.87	8.07	7.87

FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	08-Aug-19	time	2.50	3.58	4.62	5.64	6.65	7.66	8.67	9.71	10.72	11.81		13.12	7 / 5			
reaction time	0.164	interval		1.08	1.04	1.02	1.01	1.01	1.01	1.04	1.01	1.09	1.31			3.14	3.03	3.14
wind	0.1 m/s	velocity	5.20	7.87	8.17	8.33	8.42	8.42	8.42	8.17	8.42	7.80	8.02	7.62		8.12	8.42	8.12

FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	20-Jul-19	time	2.54	3.58	4.62	5.60	6.60	7.62	8.64	9.64	10.68	11.74		12.96	3 / 6			
reaction time	0.172	interval		1.04	1.04	0.98	1.00	1.02	1.02	1.00	1.04	1.06	1.22			3.06	3.04	3.10
wind	0.8 m/s	velocity	5.12	8.17	8.17	8.67	8.50	8.33	8.33	8.50	8.17	8.02	8.61	7.72		8.33	8.39	8.23

FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	30-May-19	time	2.56	3.64	4.68	5.72	6.74	7.74	8.74	9.74	10.74	11.78		12.97	8 / 6			
reaction time	0.150	interval		1.08	1.04	1.04	1.02	1.00	1.00	1.00	1.00	1.04	1.19			3.16	3.02	3.04
wind	1.3 m/s	velocity	5.08	7.87	8.17	8.17	8.33	8.50	8.50	8.50	8.50	8.17	8.82	7.71		8.07	8.44	8.39

FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)													<i>CAA Hurdle Development (2019)</i>					
date	21-May-19	time	2.56	3.61	4.64	5.64	6.65	7.64	8.64	9.63	10.62	11.67		12.83	7 / 5			
reaction time	0.149	interval		1.05	1.03	1.00	1.01	0.99	1.00	0.99	0.99	1.05	1.16			3.08	3.00	3.03
wind	-1.0 m/s	velocity	5.08	8.10	8.25	8.50	8.42	8.59	8.50	8.59	8.59	8.10	9.05	7.79		8.28	8.50	8.42

FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)													<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>					
date	19-May-19	time	2.68	3.70	4.72	5.73	6.73	7.70	8.68	9.68	10.69	11.74		12.90	8 / 3			
reaction time	0.274	interval		1.02	1.02	1.01	1.00	0.97	0.98	1.00	1.01	1.05	1.16			3.05	2.95	3.06
wind	0.4 m/s	velocity	4.85	8.33	8.33	8.42	8.50	8.76	8.67	8.50	8.42	8.10	9.05	7.75		8.36	8.64	8.33

FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	09-Jun-18	time	2.56	3.63	4.66	5.66	6.66	7.66	8.66	9.70	10.73	11.76		13.04	6 / 4			
reaction time		interval		1.07	1.03	1.00	1.00	1.00	1.00	1.04	1.03	1.03	1.28			3.10	3.00	3.10
wind	0.9 m/s	velocity	5.08	7.94	8.25	8.50	8.50	8.50	8.50	8.17	8.25	8.25	8.20	7.67		8.23	8.50	8.23

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	17-Aug-16	time	2.38	3.43	4.45	5.43	6.41	7.40	8.37	9.37	10.34	11.34		12.76	5 / 6			
reaction time	0.179	interval		1.05	1.02	0.98	0.98	0.99	0.97	1.00	0.97	1.00	1.42			3.05	2.94	2.97
wind	0.0 m/s	velocity	5.46	8.10	8.33	8.67	8.67	8.59	8.76	8.50	8.76	8.50	7.39	7.84		8.36	8.67	8.59

Shkhamarov, Esther (ISR) (1952)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 1972 Olympic Games (Munich, FRG)													<i>Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften</i>					
date	04-Sep-72	time	2.5			6.7								13.17	2 / 4			
reaction time		interval				4.20												
wind	0.0 m/s	velocity	5.26			8.10							7.59					

Shekhodanova, Nataliya (RUS) (1971)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1996 Olympic Games (Atlanta, GA)													<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>					
date	31-Jul-96	time	2.45	3.50	4.48	5.45	6.43	7.44	8.46	9.47	10.51	11.51		12.80	1 / 7			
reaction time	0.160	interval		1.05	0.98	0.97	0.98	1.01	1.02	1.01	1.04	1.00	1.29	DV		3.00	3.01	3.05
wind	0.2 m/s	velocity	5.31	8.10	8.67	8.76	8.67	8.42	8.33	8.42	8.17	8.50	8.14	7.81		8.50	8.47	8.36

Shen Muhan (CHN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)													<i>CAA Hurdle Development (2021)</i>					
date	24-Jun-21	time	2.78	3.94	5.07	6.19	7.31	8.44	9.59	10.76	11.94	13.16		14.48	4 / 2			
reaction time	0.195	interval		1.16	1.13	1.12	1.12	1.13	1.15	1.17	1.18	1.22	1.32			3.41	3.40	3.57
wind	0.6 m/s	velocity	4.68	7.33	7.52	7.59	7.59	7.52	7.39	7.26	7.20	6.97	7.61	6.91		7.48	7.50	7.14

FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)													<i>CAA Hurdle Development (2021)</i>				
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FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)

date	13-Apr-19	time	2.61	3.68	4.71	5.75	6.80	7.83	8.88	9.95	11.03	12.13		13.36	CAA Hurdle Development (2019)			
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
wind	0.3 m/s	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

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

date	13-Apr-19	time	2.66	3.73	4.79	5.84	6.89	7.94	9.01	10.09	11.19	12.30		13.59	CAA Hurdle Development (2019)			
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
wind	0.2 m/s	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

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

date	09-Apr-19	time	2.67	3.73	4.79	5.83	6.87	7.90	8.93	9.97	11.03	12.12		13.35	CAA Hurdle Development (2019)			
reaction time	0.182	interval		1.06	1.06	1.04	1.04	1.03	1.03	1.04	1.06	1.09	1.23	PB		3.16	3.10	3.19
wind	0.1 m/s	velocity	4.87	8.02	8.02	8.17	8.17	8.25	8.25	8.17	8.02	7.80	8.54	7.49		8.07	8.23	7.99

Heat 3 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)

date	08-Apr-19	time	2.64	3.73	4.79	5.84	6.87	7.92	8.98	10.03	11.12	12.20		13.42	CAA Hurdle Development (2019)			
reaction time	0.191	interval		1.09	1.06	1.05	1.03	1.05	1.06	1.05	1.09	1.08	1.22	PB		3.20	3.14	3.22
wind	1.0 m/s	velocity	4.92	7.80	8.02	8.10	8.25	8.10	8.02	8.10	7.80	7.87	8.61	7.45		7.97	8.12	7.92

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

date	20-Mar-19	time	2.65	3.74	4.81	5.87	6.94							8.39	CAA Hurdle Development (2019)			
reaction time		interval		1.09	1.07	1.06	1.07						1.45			3.22		
		velocity	4.91	7.80	7.94	8.02	7.94						8.97	7.15		7.92		

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

date	24-Feb-19	time	2.65	3.74	4.80	5.84	6.91							8.35	CAA Hurdle Development (2019)			
reaction time		interval		1.09	1.06	1.04	1.07						1.44	PB		3.19		
		velocity	4.91	7.80	8.02	8.17	7.94						9.03	7.19		7.99		

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

date	20-Feb-19	time	2.68	3.74	4.81	5.88	6.96							8.40	CAA Hurdle Development (2019)			
reaction time		interval		1.06	1.07	1.07	1.08						1.44	PB		3.20		
		velocity	4.85	8.02	7.94	7.94	7.87						9.03	7.14		7.97		

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)

date	16-Sep-18	time	2.70	3.76	4.82	5.88	6.94	7.99	9.04	10.11	11.21	12.33		13.60	Henson (2018) - coaching observations			
reaction time		interval		1.06	1.06	1.06	1.06	1.05	1.05	1.07	1.10	1.12	1.27	PB		3.18	3.16	3.29
wind	-0.2 m/s	velocity	4.81	8.02	8.02	8.02	8.02	8.10	8.10	7.94	7.73	7.59	8.27	7.35		8.02	8.07	7.75

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

date	15-Sep-18	time	2.68	3.76	4.82	5.87	6.96	8.03	9.09	10.21	11.33	12.46		13.72	Henson (2018) - coaching observations			
reaction time		interval		1.08	1.06	1.05	1.09	1.07	1.06	1.12	1.12	1.13	1.26	PB		3.19	3.22	3.37
wind	0.0 m/s	velocity	4.85	7.87	8.02	8.10	7.80	7.94	8.02	7.59	7.59	7.52	8.33	7.29		7.99	7.92	7.57

Shiba, Risa (JPN) (1981)

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

Heat 3 - 2009 Japanese National Championships (Hiroshima, JPN)

date	25-Jun-09	time	2.46	3.57	4.66	5.74	6.82	7.91	9.01	10.12	11.24	12.37		13.81	Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season			
reaction time		interval		1.11	1.09	1.08	1.08	1.09	1.10	1.11	1.12	1.13	1.44			3.28	3.27	3.36
wind	0.0 m/s	velocity	5.28	7.66	7.80	7.87	7.80	7.73	7.66	7.59	7.52	7.29	7.24			7.77	7.80	7.59

Shibata, Aika (JPN) (2001)

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

A FINAL - 2018 National Sports Festival (Fukui, JPN)

date	08-Oct-18	time	2.66	3.71	4.75	5.79	6.81	7.82	8.85	9.90	10.99	12.10		13.31	Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad			
reaction time	0.149	interval		1.05	1.04	1.04	1.02	1.01	1.03	1.05	1.09	1.11	1.21			3.13	3.06	3.25
wind	2.5 m/s	velocity	4.89	8.10	8.17	8.17	8.33	8.42	8.25	8.10	7.80	7.66	8.68	7.51		8.15	8.33	7.85

FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)

date	02-Aug-18	time	2.65	3.72	4.80	5.87	6.94	8.02	9.06	10.18	11.32	12.43		13.68	Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data			
reaction time		interval		1.07	1.08	1.07	1.07	1.08	1.04	1.12	1.14	1.11	1.25	PB		3.22	3.19	3.37
wind	-0.3 m/s	velocity	4.91	7.94	7.87	7.94	7.94	7.87	8.17	7.59	7.46	7.66	8.40	7.31		7.92	7.99	7.57

Shibata, Manaka (JPN) (2001)

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

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

date	21-May-23	time	2.67	3.73	4.78	5.80	6.82	7.84	8.85	9.89	10.93	12.00		13.13	Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season			
reaction time	0.151	interval		1.06	1.05	1.02	1.02	1.02	1.01	1.04	1.04	1.07	1.13	PB		3.13	3.05	3.15
wind	0.4 m/s	velocity	4.87	8.02	8.10	8.33	8.33	8.33	8.42	8.17	8.17	7.94	8.89	7.62		8.15	8.36	8.10

FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)

date	07-May-23	time	2.70	3.75	4.79	5.80	6.81	7.81	8.84	9.88	10.94	12.03		13.14	Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season			
reaction time	0.172	interval		1.05	1.04	1.01	1.01	1.00	1.03	1.04	1.06	1.09	1.11	PB		3.10	3.04	3.19
wind	0.7 m/s	velocity	4.81	8.10	8.17	8.42	8.42	8.50	8.25	8.17	8.02	7.80	9.05	7.61		8.23	8.39	7.99

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

date	29-Apr-23	time	2.72	3.81	4.86	5.88	6.92	7.97	9.03	10.09	11.18	12.26		13.41	1 / 6			
reaction time	0.172	interval		1.09	1.05	1.02	1.04	1.05	1.06	1.06	1.09	1.08	1.15			3.16	3.15	3.23
wind	0.6 m/s	velocity	4.78	7.80	8.10	8.33	8.17	8.10	8.02	8.02	7.80	7.87	8.74	7.46		8.07	8.10	7.89

FINAL - 2021 Japanese National Championships (Osaka, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	27-Jun-21	time	2.69	3.78	4.88	5.93	6.97	8.02	9.07	10.16	11.26	12.38		13.59	3 / 8			
reaction time	0.139	interval		1.09	1.10	1.05	1.04	1.05	1.05	1.09	1.10	1.12	1.21			3.24	3.14	3.31
wind	0.0 m/s	velocity	4.83	7.80	7.73	8.10	8.17	8.10	8.10	7.80	7.73	7.59	8.31	7.36		7.87	8.12	7.70

U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)*Kijima (2019) - research on athlete performance and technique- 2019 data book*

date	18-Oct-19	time	2.66	3.73	4.78	5.81	6.85	7.89	8.93	9.99	11.09	12.20		13.45	6 / 1			
reaction time	0.142	interval		1.07	1.05	1.03	1.04	1.04	1.04	1.06	1.10	1.11	1.25			3.15	3.12	3.27
wind	-0.5 m/s	velocity	4.89	7.94	8.10	8.25	8.17	8.17	8.17	8.02	7.73	7.66	8.40	7.43		8.10	8.17	7.80

B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)*Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

date	28-Apr-19	time	2.75	3.86	4.96	6.05	7.12	8.20	9.32	10.43	11.55	12.71		13.99	2 / 7			
reaction time		interval		1.11	1.10	1.09	1.07	1.08	1.12	1.11	1.12	1.16	1.28			3.30	3.27	3.39
wind	1.3 m/s	velocity	4.73	7.66	7.73	7.80	7.94	7.87	7.59	7.66	7.59	7.33	8.20	7.15		7.73	7.80	7.52

Shichibu, Miki (JPN)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 4 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm)***(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	21-Oct-16	time	2.73	3.80	4.87	5.95	7.02	8.10	9.19	10.29	11.42	12.57		13.86	6 / 1			
reaction time		interval		1.07	1.07	1.08	1.07	1.08	1.09	1.10	1.13	1.15	1.29			3.22	3.24	3.38
wind	1.3 m/s	velocity	4.76	7.48	7.48	7.41	7.48	7.41	7.34	7.27	7.08	6.96	11.63	7.22		7.45	7.41	7.10

Shimamura, Aozora (JPN) (2003)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****U18 FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (76cm)***Enomoto (2019) - research on athlete performance and technique- 2019 data book*

date	06-Oct-19	time	2.68	3.78	4.87	5.96	7.05	8.13	9.23	10.36	11.48	12.63		13.95	3 / 6			
reaction time	0.138	interval		1.10	1.09	1.09	1.09	1.08	1.10	1.13	1.12	1.15	1.32			3.28	3.27	3.40
wind	1.6 m/s	velocity	4.85	7.73	7.80	7.80	7.80	7.87	7.73	7.52	7.59	7.39	7.95	7.17		7.77	7.80	7.50

Shimano, Maki (JPN) (2001)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)***Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data*

date	08-Aug-19	time	2.68	3.76	4.83	5.94	7.04	8.17	9.28	10.40	11.52	12.69		13.97	5 / 1			
reaction time		interval		1.08	1.07	1.11	1.10	1.13	1.11	1.12	1.12	1.17	1.28			3.26	3.34	3.41
wind	-4.1 m/s	velocity	4.85	7.87	7.94	7.66	7.73	7.52	7.66	7.59	7.59	7.26	8.20	7.16		7.82	7.63	7.48

Shimano, Mao (JPN) (2001)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)***Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	09-May-21	time	2.69	3.77	4.82	5.87	6.92	7.97	9.06	10.14	11.23	12.37		13.57	9 / 5			
reaction time	0.141	interval		1.08	1.05	1.05	1.05	1.05	1.09	1.08	1.09	1.14	1.20			3.18	3.19	3.31
wind	-0.8 m/s	velocity	4.83	7.87	8.10	8.10	8.10	8.10	7.80	7.87	7.80	7.46	8.37	7.37		8.02	7.99	7.70

FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	29-Apr-21	time	2.63	3.71	4.75	5.80	6.82	7.86	8.91	10.00	11.08	12.19		13.40	2 / 6			
reaction time		interval		1.08	1.04	1.05	1.02	1.04	1.05	1.09	1.08	1.11	1.21			3.17	3.11	3.28
wind	1.6 m/s	velocity	4.94	7.87	8.17	8.10	8.33	8.17	8.10	7.80	7.87	7.66	8.31	7.46		8.04	8.20	7.77

U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)*Kijima (2019) - research on athlete performance and technique- 2019 data book*

date	18-Oct-19	time	2.71	3.81	4.85	5.91	6.97	8.05	9.15	10.24	11.39	12.53		13.78	4 / 2			
reaction time	0.153	interval		1.10	1.04	1.06	1.06	1.08	1.10	1.09	1.15	1.14	1.25			3.20	3.24	3.38
wind	-0.5 m/s	velocity	4.80	7.73	8.17	8.02	8.02	7.87	7.73	7.80	7.39	7.46	8.40	7.26		7.97	7.87	7.54

Shimura, Hitomi (JPN) (1990)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2023 Japanese National Championships (Osaka, JPN)***Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date	03-Jun-23	time	2.66	3.72	4.78	5.81	6.85	7.90	8.94	10.00	11.06	12.15		13.35	2 / 6			
reaction time	0.162	interval		1.06	1.06	1.03	1.04	1.05	1.04	1.06	1.06	1.09	1.20			3.15	3.13	3.21
wind	-1.2 m/s	velocity	4.89	8.02	8.02	8.25	8.17	8.10	8.17	8.02	8.02	7.80	8.38	7.49		8.10	8.15	7.94

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

date	07-May-23	time	2.65	3.70	4.73	5.76	6.77	7.79	8.83	9.89	10.94	12.01		13.18	3 / 5			
reaction time	0.145	interval		1.05	1.03	1.03	1.01	1.02	1.04	1.06	1.05	1.07	1.17			3.11	3.07	3.18
wind	0.7 m/s	velocity	4.91	8.10	8.25	8.25	8.42	8.33	8.17	8.02	8.10	7.94	8.59	7.59		8.20	8.31	8.02

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

date	29-Apr-23	time	2.63	3.69	4.76	5.80	6.82	7.86	8.89	9.93	10.98	12.04		13.20	7 / 4			
reaction time	0.149	interval		1.06	1.07	1.04	1.02	1.04	1.03	1.04	1.05	1.06	1.16			3.17	3.09	3.15
wind	0.6 m/s	velocity	4.94	8.02	7.94	8.17	8.33	8.17	8.25	8.17	8.10	8.02	8.66	7.58		8.04	8.25	8.10

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

date	08-May-22	time	2.66	3.72	4.75	5.79	6.83	7.85	8.89	9.96	11.04	12.13		13.31	9 / 6			
reaction time	0.140	interval		1.06	1.03	1.04	1.04	1.02	1.04	1.07	1.08	1.09	1.18			3.13	3.10	3.24

wind	-0.1 m/s	velocity	4.89	8.02	8.25	8.17	8.17	8.33	8.17	7.94	7.87	7.80	8.52	7.51	8.15	8.23	7.87
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)															<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>		
date	01-May-22	time	2.64	3.71	4.74	5.77	6.79	7.82	8.86	9.91	10.98	12.05	13.23	5 / 2			
reaction time	0.153	interval	1.07	1.03	1.03	1.02	1.03	1.04	1.05	1.07	1.07	1.18			3.13	3.09	3.19
wind	-0.6 m/s	velocity	4.92	7.94	8.25	8.25	8.33	8.25	8.17	8.10	7.94	7.94	8.52	7.56	8.15	8.25	7.99
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)															<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>		
date	29-Apr-22	time	2.67	3.73	4.82	5.88	6.96	8.04	9.11	10.20	11.27	12.34	13.49	6 / 4			
reaction time	0.147	interval	1.06	1.09	1.06	1.08	1.08	1.07	1.09	1.07	1.07	1.15			3.21	3.23	3.23
wind	-2.8 m/s	velocity	4.87	8.02	7.80	8.02	7.87	7.87	7.94	7.80	7.94	7.94	8.74	7.41	7.94	7.89	7.89
FINAL - 2021 Fuse Sprint (Tottori, JPN)															<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>		
date	06-Jun-21	time	2.71	3.78	4.82	5.85	6.87	7.90	8.95	9.98	11.04	12.12	13.29	9 / 8			
reaction time	0.158	interval	1.07	1.04	1.03	1.02	1.03	1.05	1.03	1.06	1.08	1.17			3.14	3.10	3.17
wind	1.8 m/s	velocity	4.80	7.94	8.17	8.25	8.33	8.25	8.10	8.25	8.02	7.87	8.59	7.52	8.12	8.23	8.04
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)															<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>		
date	09-May-21	time	2.65	3.76	4.81	5.86	6.90	7.96	9.02	10.10	11.18	12.27	13.63	7 / 7			
reaction time	0.138	interval	1.11	1.05	1.05	1.04	1.06	1.06	1.08	1.08	1.09	1.36			3.21	3.16	3.25
wind	-0.8 m/s	velocity	4.91	7.66	8.10	8.10	8.17	8.02	8.02	7.87	7.87	7.80	7.39	7.34	7.94	8.07	7.85
FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)															<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>		
date	29-Apr-21	time	2.67	3.74	4.81	5.86	6.89	7.92	8.97	10.03	11.12	12.21	13.37	4 / 5			
reaction time		interval	1.07	1.07	1.05	1.03	1.03	1.05	1.06	1.09	1.09	1.16			3.19	3.11	3.24
wind	1.6 m/s	velocity	4.87	7.94	7.94	8.10	8.25	8.25	8.10	8.02	7.80	7.80	8.66	7.48	7.99	8.20	7.87
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)															<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>		
date	24-Oct-20	time	2.66	3.73	4.77	5.83	6.88	7.94	9.01	10.08	11.19	12.29	13.29	6 / 1			
reaction time		interval	1.07	1.04	1.06	1.05	1.06	1.07	1.07	1.11	1.10	1.00			3.17	3.18	3.28
wind	-1.4 m/s	velocity	4.89	7.94	8.17	8.02	8.10	8.02	7.94	7.94	7.66	7.73	10.05	7.52	8.04	8.02	7.77
FINAL - 2020 Japanese National Championships (Niigata, JPN)															<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>		
date	03-Oct-20	time	2.67	3.75	4.80	5.83	6.88	7.94	9.00	10.08	11.19	12.29	13.52	7 / 6			
reaction time	0.174	interval	1.08	1.05	1.03	1.05	1.06	1.06	1.08	1.11	1.10	1.23			3.16	3.17	3.29
wind	-0.1 m/s	velocity	4.87	7.87	8.10	8.25	8.10	8.02	8.02	7.87	7.66	7.73	8.17	7.40	8.07	8.04	7.75
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)															<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>		
date	20-Sep-20	time	2.66	3.72	4.78	5.80	6.84	7.87	8.92	9.97	11.04	12.13	13.32	7 / 3			
reaction time	0.149	interval	1.06	1.06	1.02	1.04	1.03	1.05	1.05	1.07	1.09	1.19			3.14	3.12	3.21
wind	0.0 m/s	velocity	4.89	8.02	8.02	8.33	8.17	8.25	8.10	8.10	7.94	7.80	8.45	7.51	8.12	8.17	7.94
FINAL - 2020 Athlete Night Games (Fukui, JPN)															<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>		
date	29-Aug-20	time	2.67	3.72	4.75	5.77	6.78	7.80	8.82	9.86	10.91	11.97	13.14	/ 5			
reaction time		interval	1.05	1.03	1.02	1.01	1.02	1.02	1.04	1.05	1.06	1.17			3.10	3.05	3.15
wind	2.1 m/s	velocity	4.87	8.10	8.25	8.33	8.42	8.33	8.33	8.17	8.10	8.02	8.59	7.61	8.23	8.36	8.10
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)															<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>		
date	23-Aug-20	time	2.62	3.69	4.75	5.78	6.82	7.85	8.90	9.97	11.05	12.14	13.36	4 / 7			
reaction time	0.148	interval	1.07	1.06	1.03	1.04	1.03	1.05	1.07	1.08	1.09	1.22			3.16	3.12	3.24
wind	0.3 m/s	velocity	4.96	7.94	8.02	8.25	8.17	8.25	8.10	7.94	7.87	7.80	8.24	7.49	8.07	8.17	7.87
Semi-Final 1 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)															<i>CAA Hurdle Development (2020)</i>		
date	14-Feb-20	time	2.68	3.75	4.81	5.86	6.95						8.43	5 / 4			
reaction time		interval	1.07	1.06	1.05	1.09						1.48			3.18		
		velocity	4.85	7.94	8.02	8.10	7.80					8.78	7.12		8.02		
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)															<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>		
date	01-Sep-19	time	2.64	3.69	4.73	5.76	6.77	7.85	8.90	9.97	11.05	12.13	13.32	3 / 5			
reaction time		interval	1.05	1.04	1.03	1.01	1.08	1.05	1.07	1.08	1.08	1.19			3.12	3.14	3.23
wind	1.2 m/s	velocity	4.92	8.10	8.17	8.25	8.42	7.87	8.10	7.94	7.87	7.87	8.82	7.51	8.17	8.12	7.89
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)															<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>		
date	29-Jun-19	time	2.64	3.69	4.72	5.75	6.77	7.80	8.83	9.88	10.94	12.03	13.20	9 / 4			
reaction time	0.156	interval	1.05	1.03	1.03	1.02	1.03	1.03	1.05	1.06	1.09	1.17			3.11	3.08	3.20
wind	0.6 m/s	velocity	4.92	8.10	8.25	8.25	8.33	8.25	8.25	8.10	8.02	7.80	8.97	7.58	8.20	8.28	7.97
FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)															<i>CAA Hurdle Development (2019)</i>		
date	07-Jun-19	time	2.63	3.69	4.73	5.75	6.77	7.79	8.81	9.86	10.89	11.94	13.11	5 / 1			
reaction time	0.183	interval	1.06	1.04	1.02	1.02	1.02	1.02	1.05	1.03	1.05	1.17			3.12	3.06	3.13
wind	2.3 m/s	velocity	4.94	8.02	8.17	8.33	8.33	8.33	8.33	8.10	8.25	8.10	8.97	7.63	8.17	8.33	8.15
FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)															<i>CAA Hurdle Development (2019)</i>		

date	04-Jun-19	time	2.61	3.70	4.73	5.77	6.82	7.85	8.92	9.97	11.06	12.13	13.31	4 / 1			
reaction time	0.145	interval		1.09	1.03	1.04	1.05	1.03	1.07	1.05	1.09	1.07	1.18		3.16	3.15	3.21
wind	-1.2 m/s	velocity	4.98	7.80	8.25	8.17	8.10	8.25	7.94	8.10	7.80	7.94	8.90	7.51	8.07	8.10	7.94
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)			<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>														
date	19-May-19	time	2.62	3.69	4.73	5.76	6.79	7.83	8.87	9.94	11.02	12.12	13.33	9 / 8			
reaction time	0.157	interval		1.07	1.04	1.03	1.03	1.04	1.04	1.07	1.08	1.10	1.21		3.14	3.11	3.25
wind	0.4 m/s	velocity	4.96	7.94	8.17	8.25	8.25	8.17	8.17	7.94	7.87	7.73	8.68	7.50	8.12	8.20	7.85
FINAL - 2019 Kinami Memorial (Osaka, JPN)			<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>														
date	06-May-19	time	2.62	3.67	4.72	5.75	6.78	7.83	8.87	9.92	10.98	12.05	13.22	6 / 2			
reaction time		interval		1.05	1.05	1.03	1.03	1.05	1.04	1.05	1.06	1.07	1.17		3.13	3.12	3.18
wind	0.6 m/s	velocity	4.96	8.10	8.10	8.25	8.25	8.10	8.17	8.10	8.02	7.94	8.97	7.56	8.15	8.17	8.02
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)			<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>														
date	28-Apr-19	time	2.69	3.75	4.80	5.85	6.89	7.92	8.98	10.03	11.10	12.19	13.39	4 / 3			
reaction time		interval		1.06	1.05	1.05	1.04	1.03	1.06	1.05	1.07	1.09	1.20		3.16	3.13	3.21
wind	0.6 m/s	velocity	4.83	8.02	8.10	8.10	8.17	8.25	8.02	8.10	7.94	7.80	8.75	7.47	8.07	8.15	7.94
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>														
date	24-Jun-18	time	2.65	3.70	4.75	5.77	6.80	7.82	8.86	9.91	10.98	12.05	13.21	5 / 2			
reaction time	0.167	interval		1.05	1.05	1.02	1.03	1.02	1.04	1.05	1.07	1.07	1.16		3.12	3.09	3.19
wind	1.1 m/s	velocity	4.91	8.10	8.10	8.33	8.25	8.33	8.17	8.10	7.94	7.94	9.05	7.57	8.17	8.25	7.99
FINAL - 2018 Fuse Sprint (Tottori, JPN)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>														
date	03-Jun-18	time	2.63	3.69	4.72	5.74	6.76	7.80	8.84	9.88	10.93	11.99	13.18	/ 2			
reaction time		interval		1.06	1.03	1.02	1.02	1.04	1.04	1.04	1.05	1.06	1.19		3.11	3.10	3.15
wind	0.6 m/s	velocity	4.94	8.02	8.25	8.33	8.33	8.17	8.17	8.17	8.10	8.02	8.82	7.59	8.20	8.23	8.10
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>														
date	20-May-18	time	2.69	3.79	4.84	5.88	6.92	7.97	9.03	10.11	11.18	12.28	13.45	6 / 5			
reaction time	0.155	interval		1.10	1.05	1.04	1.04	1.05	1.06	1.08	1.07	1.10	1.17		3.19	3.15	3.25
wind	-0.6 m/s	velocity	4.83	7.73	8.10	8.17	8.17	8.10	8.02	7.87	7.94	7.73	8.97	7.43	7.99	8.10	7.85
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>														
date	06-May-18	time	2.72	3.80	4.85	5.88	6.93	7.96	9.01	10.08	11.16	12.25	13.34	7 / 2			
reaction time		interval		1.08	1.05	1.03	1.05	1.03	1.05	1.07	1.08	1.09	1.09		3.16	3.13	3.24
wind	-0.5 m/s	velocity	4.78	7.87	8.10	8.25	8.10	8.25	8.10	7.94	7.87	7.80	9.63	7.50	8.07	8.15	7.87
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)			<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>														
date	29-Apr-18	time	2.65	3.73	4.77	5.79	6.84	7.85	8.88	9.91	10.96	12.02	13.16	4 / 3			
reaction time		interval		1.08	1.04	1.02	1.05	1.01	1.03	1.03	1.05	1.06	1.14		3.14	3.09	3.14
wind	3.6 m/s	velocity	4.91	7.87	8.17	8.33	8.10	8.42	8.25	8.25	8.10	8.02	9.21	7.60	8.12	8.25	8.12
FINAL - 2017 Japanese National Championships (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/07/19/post-1068/</i>														
date	25-Jun-17	time	2.65	3.70	4.75	5.78	6.83	7.87	8.91	9.96	11.03	12.12	13.31	4 / 2			
reaction time	0.148	interval		1.05	1.05	1.03	1.05	1.04	1.04	1.05	1.07	1.09	1.19		3.13	3.13	3.21
wind	0.4 m/s	velocity	4.91	8.10	8.10	8.25	8.10	8.17	8.17	8.10	7.94	7.80	8.82	7.51	8.15	8.15	7.94
Semi-Final 2 - 2017 Japanese National Championships (Osaka, JPN)			<i>(2017.07.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>														
date	24-Jun-17	time	2.59	3.64	4.66	5.67	6.69	7.69	8.73	9.76	10.81	11.87	13.03	4 / 1			
reaction time	0.128	interval		1.05	1.02	1.01	1.02	1.00	1.04	1.03	1.05	1.06	1.16		3.08	3.06	3.14
wind	0.3 m/s	velocity	5.02	8.10	8.33	8.42	8.33	8.50	8.17	8.25	8.10	8.02	9.05	7.67	8.28	8.33	8.12
FINAL - 2017 Fuse Sprint (Tottori, JPN)			<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>														
date	04-Jun-17	time	2.65	3.70	4.74	5.76	6.80	7.82	8.84	9.89	10.95	12.00	13.13	8 / 2			
reaction time		interval		1.05	1.04	1.02	1.04	1.02	1.02	1.05	1.06	1.05	1.13		3.11	3.08	3.16
wind	3.7 m/s	velocity	4.91	8.10	8.17	8.33	8.17	8.33	8.33	8.10	8.02	8.10	9.29	7.62	8.20	8.28	8.07
Heat 3 - 2017 Fuse Sprint (Tottori, JPN)			<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>														
date	04-Jun-17	time	2.67	3.75	4.82	5.87	6.93	7.98	9.05	10.13	11.21	12.31	13.49	4 / 3			
reaction time		interval		1.08	1.07	1.05	1.06	1.05	1.07	1.08	1.08	1.10	1.18		3.20	3.18	3.26
wind	1.3 m/s	velocity	4.87	7.87	7.94	8.10	8.02	8.10	7.94	7.87	7.87	7.73	8.90	7.41	7.97	8.02	7.82
FINAL - 2016 Japanese National Corporate Championships (Osaka, JPN)			<i>(2016.09.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>														
date	25-Sep-16	time	2.64	3.68	4.71	5.73	6.75	7.77	8.80	9.84	10.88	11.96	13.10	7 / 1			
reaction time	0.141	interval		1.04	1.03	1.02	1.02	1.02	1.03	1.04	1.04	1.08	1.14		3.09	3.07	3.16
wind	1.0 m/s	velocity	4.92	8.17	8.25	8.33	8.33	8.33	8.25	8.17	8.17	7.87	9.21	7.63	8.25	8.31	8.07
FINAL - 2016 All-Star Night Athletics (Hiratsuka, JPN)			<i>(2016.07.23) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>														
date	23-Jul-16	time	2.67	3.74	4.82	5.87	6.90	7.94	8.99	10.05	11.14	12.23	13.39	5 / 2			
reaction time	0.153	interval		1.07	1.08	1.05	1.03	1.04	1.05	1.06	1.09	1.09	1.16		3.20	3.12	3.24
wind	1.1 m/s	velocity	4.87	7.94	7.87	8.10	8.25	8.17	8.10	8.02	7.80	7.80	9.05	7.47	7.97	8.17	7.87

FINAL - 2016 Japanese National Championships (Nagoya, JPN)*Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers*

date	26-Jun-16	time	2.67	3.75	4.80	5.86	6.91	7.97	9.04	10.11	11.19	12.27	13.43	7 / 4			
reaction time	0.140	interval		1.08	1.05	1.06	1.05	1.06	1.07	1.07	1.08	1.08	1.16		3.19	3.18	3.23
wind	2.1 m/s	velocity	4.87	7.87	8.10	8.02	8.10	8.02	7.94	7.94	7.87	7.87	9.05	7.45	7.99	8.02	7.89

FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)*Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers*

date	29-Apr-16	time	2.65	3.75	4.81	5.85	6.88	7.91	8.95	9.99	11.04	12.11	13.24	4 / 2			
reaction time		interval		1.10	1.06	1.04	1.03	1.03	1.04	1.04	1.05	1.07	1.13		3.20	3.10	3.16
wind	1.1 m/s	velocity	4.91	7.73	8.02	8.17	8.25	8.25	8.17	8.17	8.10	7.94	9.29	7.55	7.97	8.23	8.07

FINAL - 2015 Japanese National Championships (Niigata, JPN)*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	27-Jun-15	time	2.64	3.69	4.73	5.75	6.80	7.82	8.85	9.92	10.99	12.07	13.27	6 / 1			
reaction time	0.147	interval		1.05	1.04	1.02	1.05	1.02	1.03	1.07	1.07	1.08	1.20		3.11	3.10	3.22
wind	-0.2 m/s	velocity	4.92	8.10	8.17	8.33	8.10	8.33	8.25	7.94	7.94	7.87	8.75	7.54	8.20	8.23	7.92

FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	03-May-15	time	2.65	3.73	4.78	5.82	6.84	7.89	8.94	10.01	11.08	12.15	13.32	/ 2			
reaction time		interval		1.08	1.05	1.04	1.02	1.05	1.05	1.07	1.07	1.07	1.17		3.17	3.12	3.21
wind	0.2 m/s	velocity	4.91	7.87	8.10	8.17	8.33	8.10	8.10	7.94	7.94	7.94	8.97	7.51	8.04	8.17	7.94

Heat 5 - 2009 Japanese National Championships (Hiroshima, JPN)*Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season*

date	25-Jun-09	time	2.54	3.64	4.71	5.78	6.85	7.92	9.00	10.08	11.18	12.30	13.66	4 / 1			
reaction time		interval		1.10	1.07	1.07	1.07	1.07	1.08	1.08	1.10	1.12	1.36		3.24	3.22	3.30
wind	1.5 m/s	velocity	5.12	7.73	7.94	7.94	7.94	7.94	7.87	7.87	7.73	7.59	7.72	7.32	7.87	7.92	7.73

Shing Cho Yan (HKG) (2001)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)																	
<i>CAA Hurdle Development (2019)</i>																	
date	14-Aug-19	time	2.62	3.74	4.84	5.96	7.06	8.19	9.34	10.53	11.73	12.95	14.40	8 / 7			
reaction time	0.144	interval		1.12	1.10	1.12	1.10	1.13	1.15	1.19	1.20	1.22	1.45		3.34	3.38	3.61
wind	-0.1 m/s	velocity	4.96	7.59	7.73	7.59	7.73	7.52	7.39	7.14	7.08	6.97	7.24	6.94	7.63	7.54	7.06

U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN)*CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.67	3.81	4.91	6.00	7.09	8.21	9.33	10.49	11.66	12.89	14.25	6 / 2				
reaction time	0.135	interval		1.14	1.10	1.09	1.09	1.12	1.12	1.16	1.17	1.23	1.36		PB	3.33	3.33	3.56
wind	0.5 m/s	velocity	4.87	7.46	7.73	7.80	7.80	7.59	7.59	7.33	7.26	6.91	7.72	7.02	7.66	7.66	7.16	

Shinga, Chiori (JPN)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Chiba Prefecture High School Championships (Chiba, JPN)																	
<i>(2016.10.26) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en</i>																	
date	24-Sep-16	time	2.81	3.93	5.05	6.19	7.31	8.46	9.60	10.77	11.95	13.14	14.46	4 / 1			
reaction time		interval		1.12	1.12	1.14	1.12	1.15	1.14	1.17	1.18	1.19	1.32		3.38	3.41	3.54
wind	0.5 m/s	velocity	4.63	7.59	7.59	7.46	7.59	7.39	7.46	7.26	7.20	7.14	7.95	6.92	7.54	7.48	7.20

Shishido, Riko (JPN) (2000)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 National Sports Festival (Fukui, JPN)																	
<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>																	
date	08-Oct-18	time	2.66	3.74	4.83	5.92	6.97	8.02	9.10	10.19	11.26	12.38	13.65	8 / 6			
reaction time	0.173	interval		1.08	1.09	1.09	1.05	1.05	1.08	1.09	1.07	1.12	1.27		3.26	3.18	3.28
wind	2.5 m/s	velocity	4.89	7.87	7.80	7.80	8.10	8.10	7.87	7.80	7.94	7.59	8.27	7.33	7.82	8.02	7.77

Shishigina, Olga (KZK) (1968)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2000 ISTAF (Berlin, GER)																	
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
date	01-Sep-00	time	2.62	3.64	4.64	5.63	6.62	7.62	8.61	9.62	10.62	11.65	12.74	/ 3			
reaction time	0.169	interval		1.02	1.00	0.99	0.99	1.00	0.99	1.01	1.00	1.03	1.09		3.01	2.98	3.04
wind	-0.2 m/s	velocity	4.96	8.33	8.50	8.59	8.59	8.50	8.59	8.42	8.50	8.25	9.63	7.85	8.47	8.56	8.39

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

date	28-Aug-99	time	2.60	3.60	4.59	5.56	6.52	7.49	8.47	9.44	10.44	11.45	12.51	4 / 4			
reaction time	0.150	interval		1.00	0.99	0.97	0.96	0.97	0.98	0.97	1.00	1.01	1.06		2.96	2.91	2.98
wind	0.7 m/s	velocity	5.00	8.50	8.59	8.76	8.85	8.76	8.67	8.76	8.50	8.42	9.91	7.99	8.61	8.76	8.56

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

date	27-Aug-99	time	2.61	3.64	4.66	5.65	6.63	7.61	8.60	9.59	10.58	11.60	12.75	6 / 2			
reaction time	0.152	interval		1.03	1.02	0.99	0.98	0.98	0.99	0.99	0.99	1.02	1.15		3.04	2.95	3.00
wind	1.0 m/s	velocity	4.98	8.25	8.33	8.59	8.67	8.67	8.59	8.59	8.59	8.33	9.13	7.84	8.39	8.64	8.50

Shunji, Natsuki (JPN)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 5 - 2016 Japanese National Junior Championships (Mizuho, JPN)																	
<i>(2016.11.02) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en</i>																	
date	21-Oct-16	time	2.79	3.90	5.01	6.12	7.22	8.36	9.48	10.64	11.80	12.96	14.24	3 / 1			
reaction time		interval		1.11	1.11	1.11	1.10	1.14	1.12	1.16	1.16	1.16	1.28		3.33	3.36	3.48
wind	0.9 m/s	velocity	4.66	7.66	7.66	7.66	7.73	7.46	7.59	7.33	7.33	7.33	8.20	7.02	7.66	7.59	7.33

Shynyzbekova, Aygerim (KAZ) (1992)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)																
<i>CAA Hurdle Development (2019)</i>																

date	07-Jun-19	time	2.78	3.85	4.92	5.98	7.05	8.10	9.17	10.22	11.31	12.40		13.60	8 / 5			
reaction time	0.186	interval		1.07	1.07	1.06	1.07	1.05	1.07	1.05	1.09	1.09	1.20			3.20	3.19	3.23
wind	2.3 m/s	velocity	4.68	7.94	7.94	8.02	7.94	8.10	7.94	8.10	7.80	7.80	8.75	7.35		7.97	7.99	7.89
FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)																		
date	04-Jun-19	time	2.75	3.85	4.95	6.03	7.12	8.20	9.29	10.39	11.51	12.62		13.91	7 / 6			
reaction time	0.147	interval		1.10	1.10	1.08	1.09	1.08	1.09	1.10	1.12	1.11	1.29			3.28	3.26	3.33
wind	-1.2 m/s	velocity	4.73	7.73	7.73	7.87	7.80	7.87	7.80	7.73	7.59	7.66	8.14	7.19		7.77	7.82	7.66
FINAL - 2019 Asian Athletics Championships (Doha, QAT)																		
date	24-Apr-19	time	2.68	3.77	4.83	5.87	6.94	7.98	9.05	10.12	11.19	12.29		13.50	3 / 8			
reaction time	0.132	interval		1.09	1.06	1.04	1.07	1.04	1.07	1.07	1.07	1.10	1.21			3.19	3.18	3.24
wind	1.3 m/s	velocity	4.85	7.80	8.02	8.17	7.94	8.17	7.94	7.94	7.94	7.73	8.68	7.41		7.99	8.02	7.87
Siciarz, Klaudia (POL) (1998)																		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)																		
date	03-Jun-22	time	2.56	3.60	4.64	5.66	6.68	7.68	8.68	9.72	10.76	11.84		13.08	7 / 6			
reaction time		interval	7 steps	1.04	1.04	1.02	1.02	1.00	1.00	1.04	1.04	1.08	1.24			3.10	3.02	3.16
wind	0.2 m/s	velocity	5.08	8.17	8.17	8.33	8.33	8.50	8.50	8.17	8.17	7.87	8.10	7.65		8.23	8.44	8.07
Siebert, Gloria (GDR) (1964)																		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1988 Olympic Games (Seoul, KOR)																		
date	30-Sep-88	time	2.60	3.61	4.62	5.58	6.54	7.50	8.46	9.46	10.46	11.46		12.61	4 / 2			
reaction time	0.196	interval		1.01	1.01	0.96	0.96	0.96	0.96	1.00	1.00	1.00	1.15			2.98	2.88	3.00
wind	0.2 m/s	velocity	5.00	8.42	8.42	8.85	8.85	8.85	8.85	8.50	8.50	8.50	9.13	7.93		8.56	8.85	8.50
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)																		
date	29-Sep-88	time	2.60	3.62	4.61	5.61	6.57	7.53	8.49	9.49	10.49	11.49		12.60	3 / 2			
reaction time	0.182	interval		1.02	0.99	1.00	0.96	0.96	0.96	1.00	1.00	1.00	1.11			3.01	2.88	3.00
wind	0.5 m/s	velocity	5.00	8.33	8.59	8.50	8.85	8.85	8.85	8.50	8.50	8.50	9.46	7.94		8.47	8.85	8.50
Uibel-Siebert, Gloria (GDR) (1964)																		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1987 IAAF World Championships (Rome, ITA)																		
date	04-Sep-87	time	2.57	3.58	4.56	5.50	6.48	7.44	8.42	9.36	10.33	11.34		12.44	4 / 2			
reaction time	0.193	interval		1.01	0.98	0.94	0.98	0.96	0.98	0.94	0.97	1.01	1.10	PB		2.93	2.92	2.92
wind	-0.5 m/s	velocity	5.06	8.42	8.67	9.04	8.67	8.85	8.67	9.04	8.76	8.42	9.55	8.04		8.70	8.73	8.73
Semi-Final 2 - 1987 IAAF World Championships (Rome, ITA)																		
date	04-Sep-87	time	2.65	3.66	4.65	5.63	6.60	7.57	8.54	9.53	10.54	11.55		12.68	4 / 1			
reaction time		interval		1.01	0.99	0.98	0.97	0.97	0.97	0.99	1.01	1.01	1.13			2.98	2.91	3.01
wind	-0.9 m/s	velocity	4.91	8.42	8.59	8.67	8.76	8.76	8.76	8.59	8.42	8.42	9.29	7.89		8.56	8.76	8.47
Heat 4 - 1987 IAAF World Championships (Rome, ITA)																		
date	03-Sep-87	time	2.61	3.62	4.60	5.59	6.58	7.58	8.57	9.59	10.60	11.67		12.81	1 / 1			
reaction time		interval		1.01	0.98	0.99	0.99	1.00	0.99	1.02	1.01	1.07	1.14			2.98	2.98	3.10
wind	-1.6 m/s	velocity	4.98	8.42	8.67	8.59	8.59	8.50	8.59	8.33	8.42	7.94	9.21	7.81		8.56	8.56	8.23
Siirtola, Anni (FIN) (1998)																		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Finnish National Championships (Turku, FIN) (TV Analysis)																		
date	14-Aug-20	time	2.66	3.80	4.86	5.90	7.00	8.06	9.10	10.20	11.30	12.40		13.71	8 / 5			
reaction time	0.193	interval		1.14	1.06	1.04	1.10	1.06	1.04	1.10	1.10	1.10	1.31			3.24	3.20	3.30
wind	1.0 m/s	velocity	4.89	7.46	8.02	8.17	7.73	8.02	8.17	7.73	7.73	7.73	7.67	7.29		7.87	7.97	7.73
FINAL - 2020 Motonet GP (Jyräskylä, FIN) (TV Analysis)																		
date	08-Jul-20	time	2.60	3.70										dnf	7 / --			
reaction time		interval		1.10														
wind	0.7 m/s	velocity	5.00	7.73														
Siles, Isabel (ESP) (1973)																		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)																		
date	01-Aug-98	time	2.69	3.81	4.91	6.05	7.17	8.33	9.51	10.70	11.88	13.11		14.54	8 / 7			
reaction time		interval		1.12	1.10	1.14	1.12	1.16	1.18	1.19	1.18	1.23	1.43			3.36	3.46	3.60
wind	0.0 m/s	velocity	4.83	7.59	7.73	7.46	7.59	7.33	7.20	7.14	7.20	6.91	7.34	6.88		7.59	7.37	7.08
Šimečková, Michaela (CZE) (1997)																		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)																		
date	02-Aug-14	time	2.91	4.05	5.21	6.36	7.48	8.64	9.78	10.95	12.14	13.36		14.57	7 / 5			
reaction time	0.159	interval		1.14	1.16	1.15	1.12	1.16	1.14	1.17	1.19	1.22	1.21			3.45	3.42	3.58
wind	-1.0 m/s	velocity	4.47	7.46	7.33	7.39	7.59	7.33	7.46	7.26	7.14	6.97	8.68	6.86		7.39	7.46	7.12
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)																		
date	28-Jun-14	time	2.83	3.98	5.08	6.16	7.25	8.33	9.43	10.56	11.71	12.90		14.17	7 / 3			
reaction time	0.213	interval		1.15	1.10	1.08	1.09	1.08	1.10	1.13	1.15	1.19	1.27			3.33	3.27	3.47
wind	-3.6 m/s	velocity	4.59	7.39	7.73	7.87	7.80	7.87	7.73	7.52	7.39	7.14	8.27	7.06		7.66	7.80	7.35

Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.80	3.94	5.06	6.22	7.34	8.50	9.67	10.86	12.07	13.31	14.67	7 / 2				
reaction time	0.170	interval		1.14	1.12	1.16	1.12	1.16	1.17	1.19	1.21	1.24	1.36		3.42	3.45	3.64	
wind	-7.3 m/s	velocity	4.64	7.46	7.59	7.33	7.59	7.33	7.26	7.14	7.02	6.85	7.72	6.82	7.46	7.39	7.01	

Škaloudová, Eliška (CZE) (1990)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)***Feher (2014) - Final report from the Czech Republic national championships*

date	02-Aug-14	time	2.80	3.97	5.11	6.26	7.42	8.58	9.75	10.93	12.13	13.32	14.67	7 / 7				
reaction time	0.209	interval		1.17	1.14	1.15	1.16	1.16	1.17	1.18	1.20	1.19	1.35		3.46	3.49	3.57	
wind	0.2 m/s	velocity	4.64	7.26	7.46	7.39	7.33	7.33	7.26	7.20	7.08	7.14	7.78	6.82	7.37	7.31	7.14	

Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)*Feher (2013) - Final report from the men's & women's Czech Republic national championships*

date	15-Jun-13	time	2.79	3.95	5.11	6.27	7.43	8.60	9.65	10.96	12.16	13.56	14.96	6 / 4				
reaction time	0.159	interval		1.16	1.16	1.16	1.16	1.17	1.05	1.31	1.20	1.40	1.40		3.48	3.38	3.91	
wind	-1.0 m/s	velocity	4.66	7.33	7.33	7.33	7.33	7.26	8.10	6.49	7.08	6.07	7.50	6.68	7.33	7.54	6.52	

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

date	14-Feb-15	time	2.80	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			

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

date	28-Jun-14	time	2.95	4.14	5.36	6.58	7.83	9.07	10.29	11.58	12.90	14.22	15.65	7 / 6				
reaction time	0.241	interval		1.19	1.22	1.22	1.25	1.24	1.22	1.29	1.32	1.32	1.43		3.63	3.71	3.93	
wind	-3.9 m/s	velocity	4.41	7.14	6.97	6.97	6.80	6.85	6.97	6.59	6.44	6.44	7.34	6.39	7.02	6.87	6.49	

Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE)*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.89	3.96	5.17	6.35	7.59	8.80	10.06	11.34	12.63	13.93	15.31	3 / 3				
reaction time	0.149	interval		1.07	1.21	1.18	1.24	1.21	1.26	1.28	1.29	1.30	1.38		3.46	3.71	3.87	
wind	-4.5 m/s	velocity	4.50	7.94	7.02	7.20	6.85	7.02	6.75	6.64	6.59	6.54	7.61	6.53	7.37	6.87	6.59	

Skeete, Lesley-Ann (GBR) (1967)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 1991 European Cup (Frankfurt, GER)***Graubner (2008) - <http://www.fgs.uni-halle.de>*

date	30-Jun-91	time	2.61	3.68	4.74	5.78	6.81	7.86	8.90	9.94	11.02	12.08	13.26	1 / 5				
reaction time		interval		1.07	1.06	1.04	1.03	1.05	1.04	1.04	1.08	1.06	1.18		3.17	3.12	3.18	
wind	-2.1 m/s	velocity	4.98	7.94	8.02	8.17	8.25	8.10	8.17	8.17	7.87	8.02	8.90	7.54	8.04	8.17	8.02	

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

date	29-Sep-88	time	2.64	3.69	4.75	5.77	6.81	7.82	8.85	9.89	10.97	12.05	13.23	1 / 6				
reaction time	0.178	interval		1.05	1.06	1.02	1.04	1.01	1.03	1.04	1.08	1.08	1.18		3.13	3.08	3.20	
wind	0.5 m/s	velocity	4.92	8.10	8.02	8.33	8.17	8.42	8.25	8.17	7.87	7.87	8.90	7.56	8.15	8.28	7.97	

FINAL - 1987 European Cup (Prague, TCH)*Sušanka (1987) - hints on computer processing of biomechanical data*

date	28-Jun-87	time	2.68	3.80	4.88	5.96	7.02	8.08	9.20	10.27	11.39	12.52	13.66	2 / 7				
reaction time		interval		1.12	1.08	1.08	1.06	1.06	1.12	1.07	1.12	1.13	1.14		3.28	3.24	3.32	
wind	-0.9 m/s	velocity	4.85	7.59	7.87	7.87	8.02	8.02	7.59	7.94	7.59	7.52	9.21	7.32	7.77	7.87	7.68	

FINAL - 1985 European Junior Championships (Cottbus, GDR)*Warburton (1985) - 1985 european junior championships - hurdles*

date	23-Aug-85	time	2.39	3.59	4.57	5.64	6.64	7.70	8.80	9.91	11.01	12.13	13.51	1 / 5				
reaction time		interval		1.20	0.98	1.07	1.00	1.06	1.10	1.11	1.10	1.12	1.38		3.25	3.16	3.33	
wind	2.0 m/s	velocity	5.44	7.08	8.67	7.94	8.50	8.02	7.73	7.66	7.73	7.59	7.61	7.40	7.85	8.07	7.66	

Semi-Final 1 - 1985 European Junior Championships (Cottbus, GDR)*Warburton (1985) - 1985 european junior championships - hurdles*

date	23-Aug-85	time	2.52	3.60	4.67	5.76	6.81	7.90	8.92	9.99	11.07	12.17	13.60	1 / 4				
reaction time		interval		1.08	1.07	1.09	1.05	1.09	1.02	1.07	1.08	1.10	1.43		3.24	3.16	3.25	
wind	1.5 m/s	velocity	5.16	7.87	7.94	7.80	8.10	7.80	8.33	7.94	7.87	7.73	7.34	7.35	7.87	8.07	7.85	

Heat 1 - 1985 European Junior Championships (Cottbus, GDR)*Warburton (1985) - 1985 european junior championships - hurdles*

date	23-Aug-85	time	2.38	3.54	4.59	5.61	6.68	7.88	8.97	9.96	11.04	12.19	13.68	1 / 3				
reaction time		interval		1.16	1.05	1.02	1.07	1.20	1.09	0.99	1.08	1.15	1.49		3.23	3.36	3.22	
wind	0.6 m/s	velocity	5.46	7.33	8.10	8.33	7.94	7.08	7.80	8.59	7.87	7.39	7.05	7.31	7.89	7.59	7.92	

Skogström, Charlotte (SWE) (1993)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2012 Windsprint (Sundsvall, SWE)***Blomkvist (2012) - www.sub13.se*

date	17-Jun-12	time	2.91	4.06	5.15	6.23	7.32	8.43	9.57	10.71	11.85	13.00	14.31	1 / 6				
reaction time		interval		1.15	1.09	1.08	1.09	1.11	1.14	1.14	1.14	1.15	1.31		3.32	3.34	3.43	
wind	0.8 m/s	velocity	4.47	7.39	7.80	7.87	7.80	7.66	7.46	7.46	7.46	7.39	8.02	6.99	7.68	7.63	7.43	

Skogström, Malin (SWE) (1995)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2020 Bauhaus Galan (Stockholm, SWE) (TV Analysis)***Henson (2020) - Athlete First: 2020 year end hurdle report*

date	23-Aug-20	time	2.73	3.87	5.00	6.17	7.23	8.37	9.47	10.63	11.83	13.00	14.32	1 / 8				
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reaction time	0.144	interval	1.14	1.13	1.17	1.06	1.14	1.10	1.16	1.20	1.17	1.32		3.44	3.30	3.53	
wind	1.4 m/s	velocity	4.76	7.46	7.52	7.26	8.02	7.46	7.73	7.33	7.08	7.26	7.61	6.98	7.41	7.73	7.22

Škrobáková, Lucie (CZE) (1982)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)													<i>Feher (2014) - Final report from the Czech Republic national championships</i>				
date	02-Aug-14	time	2.62	3.66	4.68	5.66	6.65	7.65	8.68	9.69	10.74	11.79	12.99	4 / 1			
reaction time	0.113	interval	1.04	1.02	0.98	0.99	1.00	1.03	1.01	1.05	1.05	1.20		3.04	3.02	3.11	
wind	0.4 m/s	velocity	4.96	8.17	8.33	8.67	8.59	8.50	8.25	8.42	8.10	8.10	8.75	7.70	8.39	8.44	8.20

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)													<i>Feher (2014) - Final report from the Czech Republic national championships</i>				
date	02-Aug-14	time	2.68	3.73	4.74	5.74	6.73	7.73	8.75	9.76	10.81	11.85	13.06	4 / 1			
reaction time	0.201	interval	1.05	1.01	1.00	0.99	1.00	1.02	1.01	1.05	1.04	1.21		3.06	3.01	3.10	
wind	0.2 m/s	velocity	4.85	8.10	8.42	8.50	8.59	8.50	8.33	8.42	8.10	8.17	8.68	7.66	8.33	8.47	8.23

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 Czech Republic National Championships (Tábor, CZE)													<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>				
date	15-Jun-13	time	2.60	3.62	4.62	5.59	6.58	7.56	8.56	9.57	10.58	11.61	12.79	4 / 1			
reaction time	0.151	interval	1.02	1.00	0.97	0.99	0.98	1.00	1.01	1.01	1.03	1.18		2.99	2.97	3.05	
wind	0.3 m/s	velocity	5.00	8.33	8.50	8.76	8.59	8.67	8.50	8.42	8.42	8.25	8.90	7.82	8.53	8.59	8.36

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)													<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>				
date	15-Jun-13	time	2.61	3.67	4.68	5.70	6.69	7.71	8.72	9.74	10.77	11.83	13.04	4 / 1			
reaction time	0.158	interval	1.06	1.01	1.02	0.99	1.02	1.01	1.02	1.03	1.06	1.21		3.09	3.02	3.11	
wind	-1.0 m/s	velocity	4.98	8.02	8.42	8.33	8.59	8.33	8.42	8.33	8.25	8.02	8.68	7.67	8.25	8.44	8.20

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	19-Aug-09	time	2.65	3.69	4.68	5.68	6.66	7.65	8.66	9.67	10.70	11.74	12.92	7 / 4			
reaction time	0.158	interval	1.04	0.99	1.00	0.98	0.99	1.01	1.01	1.03	1.04	1.18		3.03	2.98	3.08	
wind	-0.1 m/s	velocity	4.91	8.17	8.59	8.50	8.67	8.59	8.42	8.42	8.25	8.17	8.90	7.74	8.42	8.56	8.28

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2001 European Cup (Bremen, GER)													<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>				
date	24-Jun-01	time	2.64	3.84	4.91	5.98	7.03	8.10	9.18	10.26	11.37	12.49	13.70	1 / 7			
reaction time	0.222	interval	1.20	1.07	1.07	1.05	1.07	1.08	1.08	1.11	1.12	1.21		3.34	3.20	3.31	
wind	0.6 m/s	velocity	4.92	7.08	7.94	7.94	8.10	7.94	7.87	7.87	7.66	7.59	8.68	7.30	7.63	7.97	7.70

Skryszowska, Pia (POL) (2001)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Memorial van damme (Brussels, BEL)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	14-Sep-24	time	2.64	3.67	4.70	5.70	6.72	7.74	8.77	9.80	10.86	11.94	13.16	8 / 8			
reaction time	0.165	interval	1.03	1.03	1.00	1.02	1.02	1.03	1.03	1.06	1.08	1.22		3.06	3.07	3.17	
wind	0.4 m/s	velocity	4.92	8.25	8.25	8.50	8.33	8.33	8.25	8.25	8.02	7.87	8.24	7.60	8.33	8.31	8.04

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Weltklasse (Zürich, SUI)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	05-Sep-24	time	2.48	3.52	4.52	5.51	6.49	7.49	8.49	9.50	10.55	11.61	12.90	9 / 8			
reaction time	0.134	interval	1.04	1.00	0.99	0.98	1.00	1.00	1.01	1.05	1.06	1.29		3.03	2.98	3.12	
wind	0.8 m/s	velocity	5.24	8.17	8.50	8.59	8.67	8.50	8.50	8.42	8.10	8.02	7.79	7.75	8.42	8.56	8.17

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat B - 2024 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	25-Aug-24	time	2.40	3.42	4.40	5.37	6.32	7.28	8.26	9.26	10.28	11.30	12.58	6 / 6			
reaction time	0.119	interval	1.02	0.98	0.97	0.95	0.96	0.98	1.00	1.02	1.02	1.28		2.97	2.89	3.04	
wind	0.6 m/s	velocity	5.42	8.33	8.67	8.76	8.95	8.85	8.67	8.50	8.33	8.33	7.85	7.95	8.59	8.82	8.39

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	09-Aug-24	time	2.41	3.43	4.41	5.39	6.34	7.30	8.28	9.27	10.28	11.29	12.55	8 / 3			
reaction time	0.148	interval	1.02	0.98	0.98	0.95	0.96	0.98	0.99	1.01	1.01	1.26		2.98	2.89	3.01	
wind	0.5 m/s	velocity	5.39	8.33	8.67	8.67	8.95	8.85	8.67	8.59	8.42	8.42	7.98	7.97	8.56	8.82	8.47

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.46	3.51	4.51	5.51	6.51	7.50	8.49	9.50	10.52	11.55	12.82	8 / 3			
reaction time	0.143	interval	1.05	1.00	1.00	1.00	0.99	0.99	1.01	1.02	1.03	1.27		3.05	2.98	3.06	
wind	0.0 m/s	velocity	5.28	8.10	8.50	8.50	8.50	8.59	8.59	8.42	8.33	8.25	7.91	7.80	8.36	8.56	8.33

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
A FINAL - 2024 Resisprint International (La Chaux-de-Fonds, SUI) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	14-Jul-24	time	2.56	3.55	4.53	5.48	6.43	7.38	8.33	9.29	10.28	11.28	12.37	5 / 2			
reaction time		interval	0.99	0.98	0.95	0.95	0.95	0.95	0.96	0.99	1.00	1.09	PB	2.92	2.85	2.95	
wind	1.6 m/s	velocity	5.08	8.59	8.67	8.95	8.95	8.95	8.95	8.85	8.59	8.50	9.22	8.08	8.73	8.95	8.64

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	07-Jul-24	time	2.54	3.55	4.52	5.48	6.46	7.43	8.41	9.40	10.37	11.42	12.57	6 / 4			
reaction time	0.133	interval	1.01	0.97	0.96	0.98	0.97	0.98	0.99	0.97	1.05	1.15		2.94	2.93	3.01	
wind	1.6 m/s	velocity	5.12	8.42	8.76	8.85	8.67	8.76	8.67	8.59	8.76	8.10	8.74	7.96	8.67	8.70	8.47

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2024 FBK Games (Hengelo, NED)													<i>Omega Timing (2024) - continental tour gold race analysis</i>				
date	07-Jul-24	time	2.42	3.44	4.43	5.40	6.38	7.37	8.37	9.37	10.37	11.39	12.64	6 / 2			
reaction time	0.113	interval	1.02	0.99	0.97	0.98	0.99	1.00	1.00	1.00	1.02	1.25		2.98	2.97	3.02	

wind	0.3 m/s	velocity	5.37	8.33	8.59	8.76	8.67	8.59	8.50	8.50	8.50	8.33	8.04	7.91	8.56	8.59	8.44	
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	08-Jun-24	time	2.54	3.53	4.50	5.46	6.44	7.37	8.33	9.30	10.28	11.28		12.42	6 / 3			
reaction time	0.151	interval		0.99	0.97	0.96	0.98	0.93	0.96	0.97	0.98	1.00	1.14	PB		2.92	2.87	2.95
wind	0.8 m/s	velocity	5.12	8.59	8.76	8.85	8.67	9.14	8.85	8.76	8.67	8.50	8.82	8.05		8.73	8.89	8.64
FINAL - 2024 Seashore Doha Meeting (Doha, QAT) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	10-May-24	time	2.57	3.57	4.58	5.55	6.51	7.47	8.44	9.41	10.41	11.41		12.53	3 / 3			
reaction time	0.124	interval		1.00	1.01	0.97	0.96	0.96	0.97	0.97	1.00	1.00	1.12			2.98	2.89	2.97
wind	1.7 m/s	velocity	5.06	8.50	8.42	8.76	8.85	8.85	8.76	8.76	8.50	8.50	8.97	7.98		8.56	8.82	8.59
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)														<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>				
date	03-Mar-24	time	2.56	3.56	4.54	5.54	6.52							7.79	6 / 3			
reaction time	0.142	interval		1.00	0.98	1.00	0.98						1.27			2.98		
		velocity	5.08	8.50	8.67	8.50	8.67						10.24	7.70		8.56		
FINAL - 2024 Villa de Madrid Indoor Meeting (Madrid, ESP) (TV Analysis)														<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>				
date	23-Feb-24	time	2.52	3.56	4.53	5.50	6.47							7.83	6 / 3			
reaction time	0.127	interval		1.04	0.97	0.97	0.97						1.36			2.98		
		velocity	5.16	8.17	8.76	8.76	8.76						9.56	7.66		8.56		
FINAL - 2023 Prefontaine Classic (Eugene, OR)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	17-Sep-23	time	2.47	3.52	4.54	5.54	6.53	7.51	8.50	9.50	10.51	11.54		12.81	1 / 8			
reaction time	0.140	interval		1.05	1.02	1.00	0.99	0.98	0.99	1.00	1.01	1.03	1.27			3.07	2.96	3.04
wind	1.8 m/s	velocity	5.26	8.10	8.33	8.50	8.59	8.67	8.59	8.50	8.42	8.25	7.91	7.81		8.31	8.61	8.39
FINAL - 2023 Weltklasse (Zürich, SUI)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	31-Aug-23	time	2.45	3.50	4.54	5.53	6.52	7.51	8.52	9.54	10.59	11.68		13.10	9 / 9			
reaction time	0.134	interval		1.05	1.04	0.99	0.99	0.99	1.01	1.02	1.05	1.09	1.42			3.08	2.99	3.16
wind	-0.2 m/s	velocity	5.31	8.10	8.17	8.59	8.59	8.59	8.42	8.33	8.10	7.80	7.08	7.63		8.28	8.53	8.07
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	23-Aug-23	time	2.53	3.54	4.55	5.50	6.48	7.45	8.42	9.39	10.41	11.48		12.71	7 / 4			
reaction time	0.136	interval		1.01	1.01	0.95	0.98	0.97	0.97	0.97	1.02	1.07	1.23			2.97	2.92	3.06
wind	-0.4 m/s	velocity	5.14	8.42	8.42	8.95	8.67	8.76	8.76	8.76	8.33	7.94	8.17	7.87		8.59	8.73	8.33
Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	22-Aug-23	time	2.56	3.60	4.60	5.58	6.56	7.54	8.53	9.53	10.53	11.52		12.65	4 / 2			
reaction time	0.142	interval		1.04	1.00	0.98	0.98	0.98	0.99	1.00	1.00	0.99	1.13			3.02	2.95	2.99
wind	0.0 m/s	velocity	5.08	8.17	8.50	8.67	8.67	8.67	8.59	8.50	8.50	8.59	8.89	7.91		8.44	8.64	8.53
FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	21-Jul-23	time	2.43	3.46	4.45	5.42	6.38	7.34	8.30	9.29	10.33	11.41		12.68	3 / 5			
reaction time	0.125	interval		1.03	0.99	0.97	0.96	0.96	0.96	0.99	1.04	1.08	1.27			2.99	2.88	3.11
wind	0.6 m/s	velocity	5.35	8.25	8.59	8.76	8.85	8.85	8.85	8.59	8.17	7.87	7.91	7.89		8.53	8.85	8.20
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	16-Jul-23	time	2.44	3.48	4.48	5.46	6.43	7.40	8.38	9.37	10.38	11.41		12.67	7 / 8			
reaction time	0.130	interval		1.04	1.00	0.98	0.97	0.97	0.98	0.99	1.01	1.03	1.26			3.02	2.92	3.03
wind	0.9 m/s	velocity	5.33	8.17	8.50	8.67	8.76	8.76	8.67	8.59	8.42	8.25	7.98	7.89		8.44	8.73	8.42
FINAL - 2023 Bauhaus Galan (Stockholm, SWE)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	02-Jul-23	time	2.42	3.44	4.43	5.41	6.38	7.37	8.35	9.33	10.37	11.47		12.78	5 / 3			
reaction time	0.132	interval		1.02	0.99	0.98	0.97	0.99	0.98	0.98	1.04	1.10	1.31			2.99	2.94	3.12
wind	0.9 m/s	velocity	5.37	8.33	8.59	8.67	8.76	8.59	8.67	8.67	8.17	7.73	7.67	7.82		8.53	8.67	8.17
FINAL - 2023 Athletissima (Lausanne, SUI)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	30-Jun-23	time	2.43	3.46	4.46	5.44	6.43	7.42	8.41	9.43	10.46	11.52		12.81	8 / 4			
reaction time	0.139	interval		1.03	1.00	0.98	0.99	0.99	0.99	1.02	1.03	1.06	1.29			3.01	2.97	3.11
wind	-1.4 m/s	velocity	5.35	8.25	8.50	8.67	8.59	8.59	8.59	8.33	8.25	8.02	7.79	7.81		8.47	8.59	8.20
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	08-Sep-22	time	2.47	3.50	4.47	5.45	6.41	7.39	8.37	9.35	10.37	11.41		12.72	9 / 7			
reaction time	0.162	interval		1.03	0.97	0.98	0.96	0.98	0.98	0.98	1.02	1.04	1.31			2.98	2.92	3.04
wind	-0.3 m/s	velocity	5.26	8.25	8.76	8.67	8.85	8.67	8.67	8.67	8.33	8.17	7.67	7.86		8.56	8.73	8.39
FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	02-Sep-22	time	2.47	3.50	4.50	5.50	6.47	7.47	8.47	9.50	10.54	11.58		12.81	7 / 7			
reaction time	0.136	interval		1.03	1.00	1.00	0.97	1.00	1.00	1.03	1.04	1.04	1.23			3.03	2.97	3.11
wind	0.1 m/s	velocity	5.26	8.25	8.50	8.50	8.76	8.50	8.50	8.25	8.17	8.17	8.17	7.81		8.42	8.59	8.20
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				

date	21-Aug-22	time	2.52	3.52	4.52	5.48	6.45	7.41	8.39	9.35	10.33	11.33		12.53	6 / 1														
reaction time	0.134	interval		1.00	1.00	0.96	0.97	0.96	0.98	0.96	0.98	1.00	1.20			2.96	2.91	2.94											
wind	-0.1 m/s	velocity	5.16	8.50	8.50	8.85	8.76	8.85	8.67	8.85	8.67	8.50	8.38	7.98		8.61	8.76	8.67											
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	24-Jul-22	time	2.46	3.46	4.44	5.44	6.43	7.40	8.40	9.40	10.40	11.42		12.62	6 / 4														
reaction time	0.119	interval		1.00	0.98	1.00	0.99	0.97	1.00	1.00	1.00	1.02	1.20	PB		2.98	2.96	3.02											
wind	-0.1 m/s	velocity	5.28	8.50	8.67	8.50	8.59	8.76	8.50	8.50	8.50	8.33	8.38	7.92		8.56	8.61	8.44											
Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	23-Jul-22	time	2.46	3.50	4.50	5.50	6.50	7.46	8.44	9.46	10.46	11.50		12.70	7 / 1														
reaction time	0.131	interval		1.04	1.00	1.00	1.00	0.96	0.98	1.02	1.00	1.04	1.20			3.04	2.94	3.06											
wind	0.7 m/s	velocity	5.28	8.17	8.50	8.50	8.50	8.85	8.67	8.33	8.50	8.17	8.38	7.87		8.39	8.67	8.33											
FINAL - 2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	30-Jun-22	time	2.50	3.53	4.53	5.56	6.56	7.56	8.56	9.62	10.65	11.70		12.91	8 / 7														
reaction time	0.132	interval		1.03	1.00	1.03	1.00	1.00	1.00	1.06	1.03	1.05	1.21			3.06	3.00	3.14											
wind	-0.5 m/s	velocity	5.20	8.25	8.50	8.25	8.50	8.50	8.50	8.02	8.25	8.10	8.31	7.75		8.33	8.50	8.12											
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	09-Jun-22	time	2.47	3.52	4.48	5.45	6.43	7.41	8.39	9.40	10.43	11.47		12.74	1 / 4														
reaction time	0.132	interval		1.05	0.96	0.97	0.98	0.98	0.98	1.01	1.03	1.04	1.27			2.98	2.94	3.08											
wind	0.1 m/s	velocity	5.26	8.10	8.85	8.76	8.67	8.67	8.67	8.42	8.25	8.17	7.91	7.85		8.56	8.67	8.28											
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	10-Jun-21	time	2.54	3.58	4.62	5.64	6.64	7.68	8.68	9.70	10.76	11.80		13.03	7 / 6														
reaction time	0.151	interval		1.04	1.04	1.02	1.00	1.04	1.00	1.02	1.06	1.04	1.23			3.10	3.04	3.12											
wind	-0.8 m/s	velocity	5.12	8.17	8.17	8.33	8.50	8.17	8.50	8.33	8.02	8.17	8.17	7.67		8.23	8.39	8.17											
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	07-Mar-21	time	2.48	3.54	4.58	5.58	6.56							7.95	4 / 5														
reaction time	0.147	interval		1.06	1.04	1.00	0.98						1.39			3.10													
		velocity	5.24	8.02	8.17	8.50	8.67						9.35	7.55		8.23													
Škvarková, Stanislava (SVK) (1996)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2024 FBK Games (Hengelo, NED)														<i>Omega Timing (2024) - continental tour gold race analysis</i>															
date	07-Jul-24	time	2.49	3.63	4.68	5.70	6.76	7.82	8.91	9.98	11.06	12.16		13.49	9 / 7														
reaction time	0.150	interval		1.14	1.05	1.02	1.06	1.06	1.09	1.07	1.08	1.10	1.33			3.21	3.21	3.25											
wind	0.3 m/s	velocity	5.22	7.46	8.10	8.33	8.02	8.02	7.80	7.94	7.87	7.73	7.56	7.41		7.94	7.94	7.85											
Sloan, Emily (USA) (2000)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)														<i>CAA Hurdle Development (2020)</i>															
date	14-Feb-20	time	2.67	3.70	4.76	5.77	6.82							8.18	4 / 1														
reaction time		interval		1.03	1.06	1.01	1.05						1.36	PB		3.10													
		velocity	4.87	8.25	8.02	8.42	8.10						9.56	7.33		8.23													
Smith, Jalaysiya (USA) (2003)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>															
date	29-Jun-24	time	2.65	3.69	4.72	5.70	6.69	7.71	8.71	9.76	10.78	11.86		13.05	3 / 5														
reaction time		interval		1.04	1.03	0.98	0.99	1.02	1.00	1.05	1.02	1.08	1.19			3.05	3.01	3.15											
wind	1.0 m/s	velocity	4.91	8.17	8.25	8.67	8.59	8.33	8.50	8.10	8.33	7.87	8.45	7.66		8.36	8.47	8.10											
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>															
date	28-Jun-24	time	2.63	3.69	4.69	5.69	6.69	7.69	8.68	9.69	10.70	11.76		12.93	5 / 5														
reaction time		interval		1.06	1.00	1.00	1.00	1.00	0.99	1.01	1.01	1.06	1.17			3.06	2.99	3.08											
wind	0.2 m/s	velocity	4.94	8.02	8.50	8.50	8.50	8.50	8.59	8.42	8.42	8.02	8.59	7.73		8.33	8.53	8.28											
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>															
date	08-Jun-24	time	2.60	3.64	4.65	5.67	6.65	7.66	8.68	9.69	10.73	11.81		12.96	7 / 8														
reaction time		interval		1.04	1.01	1.02	0.98	1.01	1.02	1.01	1.04	1.08	1.15			3.07	3.01	3.13											
wind	-0.5 m/s	velocity	5.00	8.17	8.42	8.33	8.67	8.42	8.33	8.42	8.17	7.87	8.74	7.72		8.31	8.47	8.15											
Snihur, Yevheniya (UKR) (1984)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 European Cup (Munich, GER)														<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>															
date	24-Jun-07	time	2.60	3.64	4.66	5.66	6.66	7.67	8.68	9.69	10.72	11.77		12.92	1 / 1														
reaction time	0.129	interval		1.04	1.02	1.00	1.00	1.01	1.01	1.01	1.03	1.05	1.15			3.06	3.02	3.09											
wind	0.9 m/s	velocity	5.00	8.17	8.33	8.50	8.50	8.42	8.42	8.42	8.25	8.10	9.13	7.74		8.33	8.44	8.25											
Södergren, Maria (SWE) (1998)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)														<i>Omega Timing (2023) - diamond league race analysis</i>															
date	02-Jul-23	time	2.67	3.82	4.95	6.06	7.14	8.25	9.36	10.52	11.69	12.87		14.35	8 / 8														
reaction time	0.140	interval		1.15	1.13	1.11	1.08	1.11	1.11	1.16	1.17	1.18	1.48			3.39	3.30	3.51											
wind	0.6 m/s	velocity	4.87	7.39	7.52	7.66	7.87	7.66	7.66	7.33	7.26	7.20	6.79	6.97		7.52	7.73	7.26											

Soma, Eriko (JPN) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)												<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>					
date	24-Oct-20	time	2.71	3.80	4.86	5.95	7.02	8.09	9.18	10.27	11.37	12.50	13.74	3 / 8			
reaction time		interval		1.09	1.06	1.09	1.07	1.07	1.09	1.09	1.10	1.13	1.24		3.24	3.23	3.32
wind	-1.4 m/s	velocity	4.80	7.80	8.02	7.80	7.94	7.94	7.80	7.80	7.73	7.52	8.10	7.28	7.87	7.89	7.68
Race 2 - 2020 World Athletics Trials (Fuji, JPN)												<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>					
date	06-Sep-20	time	2.74	3.84	4.91	5.96	7.00	8.05	9.13	10.23	11.34	12.47	13.70	4			
reaction time		interval		1.10	1.07	1.05	1.04	1.05	1.08	1.10	1.11	1.13	1.23		3.22	3.17	3.34
wind	1.3 m/s	velocity	4.74	7.73	7.94	8.10	8.17	8.10	7.87	7.73	7.66	7.52	8.17	7.30	7.92	8.04	7.63
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)												<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>					
date	20-May-18	time	2.67	3.76	4.83	5.92	7.00	8.08	9.18	10.29	11.40	12.52	13.76	9 / 8			
reaction time	0.141	interval		1.09	1.07	1.09	1.08	1.08	1.10	1.11	1.11	1.12	1.24		3.25	3.26	3.34
wind	-0.6 m/s	velocity	4.87	7.80	7.94	7.80	7.87	7.87	7.73	7.66	7.66	7.59	8.47	7.27	7.85	7.82	7.63
FINAL - 2017 Japanese National Championships (Osaka, JPN)												<i>(2017) - tfdata-store.com/2017/07/19/post-1068/</i>					
date	25-Jun-17	time	2.69	3.78	4.85	5.91	6.94	7.98	9.03	10.10	11.18	12.28	13.44	6 / 3			
reaction time	0.137	interval		1.09	1.07	1.06	1.03	1.04	1.05	1.07	1.08	1.10	1.16		3.22	3.12	3.25
wind	0.4 m/s	velocity	4.83	7.80	7.94	8.02	8.25	8.17	8.10	7.94	7.87	7.73	9.05	7.44	7.92	8.17	7.85
FINAL - 2017 Fuse Sprint (Tottori, JPN)												<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>					
date	04-Jun-17	time	2.62	3.68	4.72	5.72	6.75	7.83	8.98	10.12	11.25	12.34	13.52	5 / 4			
reaction time		interval		1.06	1.04	1.00	1.03	1.08	1.15	1.14	1.13	1.09	1.18		3.10	3.26	3.36
wind	3.7 m/s	velocity	4.96	8.02	8.17	8.50	8.25	7.87	7.39	7.46	7.52	7.80	8.90	7.40	8.23	7.82	7.59
Heat 3 - 2017 Fuse Sprint (Tottori, JPN)												<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>					
date	04-Jun-17	time	2.66	3.74	4.78	5.81	6.84	7.88	8.96	10.02	11.08	12.17	13.34	5 / 2			
reaction time		interval		1.08	1.04	1.03	1.03	1.04	1.08	1.06	1.06	1.09	1.17		3.15	3.15	3.21
wind	1.3 m/s	velocity	4.89	7.87	8.17	8.25	8.25	8.17	7.87	8.02	8.02	7.80	8.97	7.50	8.10	8.10	7.94
FINAL - 2017 Mito Invitational (Mito, JPN)												<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>					
date	05-May-17	time	2.67	3.76	4.83	5.88	6.94	7.99	9.07	10.13	11.21	12.30	13.47	6 / 1			
reaction time		interval		1.09	1.07	1.05	1.06	1.05	1.08	1.06	1.08	1.09	1.17		3.21	3.19	3.23
wind	1.0 m/s	velocity	4.87	7.80	7.94	8.10	8.02	8.10	7.87	8.02	7.87	7.80	8.97	7.42	7.94	7.99	7.89
Heat 1 - 2017 Mito Invitational (Mito, JPN)												<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>					
date	05-May-17	time	2.66	3.76	4.83	5.89	6.96	8.03	9.12	10.21	11.31	12.43	13.65	5 / 1			
reaction time		interval		1.10	1.07	1.06	1.07	1.07	1.09	1.09	1.10	1.12	1.22		3.23	3.23	3.31
wind	-2.7 m/s	velocity	4.89	7.73	7.94	8.02	7.94	7.94	7.80	7.80	7.73	7.59	8.61	7.33	7.89	7.89	7.70
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)												<i>(2017) - tfdata-store.com/2017/05/01/458/</i>					
date	29-Apr-17	time	2.70	3.79	4.87	5.94	7.02	8.08	9.15	10.22	11.28	12.36	13.52	8 / 5			
reaction time		interval		1.09	1.08	1.07	1.08	1.06	1.07	1.07	1.06	1.08	1.16		3.24	3.21	3.21
wind	2.0 m/s	velocity	4.81	7.80	7.87	7.94	7.87	8.02	7.94	7.94	8.02	7.87	9.05	7.40	7.87	7.94	7.94
FINAL - 2016 National Sports Festival (Kitakami, JPN)												<i>(2016.11.14) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	10-Oct-16	time	2.68	3.76	4.80	5.86	6.91	7.97	9.05	10.14	11.27	12.40	13.61	8 / 4			
reaction time	0.155	interval		1.08	1.04	1.06	1.05	1.06	1.08	1.09	1.13	1.13	1.21		3.18	3.19	3.35
wind	2.8 m/s	velocity	4.85	7.87	8.17	8.02	8.10	8.02	7.87	7.80	7.52	7.52	8.68	7.35	8.02	7.99	7.61
FINAL - 2016 Japanese National Corporate Championships (Osaka, JPN)												<i>(2016.09.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	25-Sep-16	time	2.67	3.74	4.79	5.82	6.85	7.89	8.94	9.98	11.05	12.15	13.32	6 / 2			
reaction time	0.141	interval		1.07	1.05	1.03	1.03	1.04	1.05	1.04	1.07	1.10	1.17		3.15	3.12	3.21
wind	1.0 m/s	velocity	4.87	7.94	8.10	8.25	8.25	8.17	8.10	8.17	7.94	7.73	8.97	7.51	8.10	8.17	7.94
FINAL - 2016 Japanese National Championships (Nagoya, JPN)												<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>					
date	26-Jun-16	time	2.66	3.74	4.80	5.86	6.93	7.98	9.03	10.11	11.18	12.27	13.43	6 / 5			
reaction time	0.134	interval		1.08	1.06	1.06	1.07	1.05	1.05	1.08	1.07	1.09	1.16		3.20	3.17	3.24
wind	2.1 m/s	velocity	4.89	7.87	8.02	8.02	7.94	8.10	8.10	7.87	7.94	7.80	9.05	7.45	7.97	8.04	7.87
Sotáková, Jana (CZE) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)												<i>Feher (2014) - Final report from the Czech Republic national championships</i>					
date	02-Aug-14	time	2.74	3.84	4.94	6.00	7.08	8.16	9.27	10.37	11.50	12.63	13.89	2 / 7			
reaction time	0.150	interval		1.10	1.10	1.06	1.08	1.08	1.11	1.10	1.13	1.13	1.26		3.26	3.27	3.36
wind	0.4 m/s	velocity	4.74	7.73	7.73	8.02	7.87	7.87	7.66	7.73	7.52	7.52	8.33	7.20	7.82	7.80	7.59
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)												<i>Feher (2014) - Final report from the Czech Republic national championships</i>					
date	02-Aug-14	time	2.72	3.84	4.91	5.99	7.05	8.13	9.20	10.30	11.41	12.55	13.84	5 / 4			
reaction time	0.143	interval		1.12	1.07	1.08	1.06	1.08	1.07	1.10	1.11	1.14	1.29		3.27	3.21	3.35
wind	0.2 m/s	velocity	4.78	7.59	7.94	7.87	8.02	7.87	7.94	7.73	7.66	7.46	8.14	7.23	7.80	7.94	7.61

FINAL - 2013 Czech Republic National Championships (Tábor, CZE)

date	15-Jun-13	time	2.74	3.84	4.91	5.95	6.98	8.02	9.05	10.11	11.20	12.29		13.49	5 / 2			
reaction time	0.165	interval		1.10	1.07	1.04	1.03	1.04	1.03	1.06	1.09	1.09	1.20	PB		3.21	3.10	3.24
wind	0.3 m/s	velocity	4.74	7.73	7.94	8.17	8.25	8.17	8.25	8.02	7.80	7.80	8.75	7.41		7.94	8.23	7.87

*Feher (2013) - Final report from the men's & women's Czech Republic national championships***Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)**

date	15-Jun-13	time	2.70	3.80	4.87	5.93	6.99	8.03	9.11	10.19	11.27	12.38		13.62	4 / 1			
reaction time	0.133	interval		1.10	1.07	1.06	1.06	1.04	1.08	1.08	1.08	1.11	1.24			3.23	3.18	3.27
wind	-0.9 m/s	velocity	4.81	7.73	7.94	8.02	8.02	8.17	7.87	7.87	7.87	7.66	8.47	7.34		7.89	8.02	7.80

*Feher (2013) - Final report from the men's & women's Czech Republic national championships***FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)**

date	25-Feb-12	time	2.78	3.93	5.07	6.22	7.35							8.86	7 / 5			
reaction time	0.136	interval		1.15	1.14	1.15	1.13						1.51			3.44		
		velocity	4.68	7.39	7.46	7.39	7.52						8.61	6.77		7.41		

*Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles***Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)**

date	25-Feb-12	time	2.79	3.93	5.06	6.16	7.28							8.83	5 / 3			
reaction time	0.162	interval		1.14	1.13	1.10	1.12						1.55			3.37		
		velocity	4.66	7.46	7.52	7.73	7.59						8.39	6.80		7.57		

*Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles***Sprenger, Juliane (GER) (1977)**

FINAL - 2000 ISTAF (Berlin, GER)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	01-Sep-00	time	2.66	3.72	4.76	5.80	6.83	7.88	8.93			13.39		Graubner (2009) - http://www.fgs.uni-halle.de	/ 8		
reaction time	0.166	interval		1.06	1.04	1.04	1.03	1.05	1.05							3.14	3.13
wind	-0.2 m/s	velocity	4.89	8.02	8.17	8.17	8.25	8.10	8.10			7.47				8.12	8.15

Štáhlová, Zuzana (CZE) (1992)

FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
date	25-Feb-12	time	2.73	3.83	4.99	6.06	7.20					8.75		2 / 4		
reaction time	0.138	interval		1.10	1.16	1.07	1.14					1.55				3.33
		velocity	4.76	7.73	7.33	7.94	7.46					8.39	6.86			7.66

*Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles***Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)**

date	25-Feb-12	time	2.76	3.90	5.03	6.18	7.32						8.88		6 / 4		
reaction time	0.135	interval		1.14	1.13	1.15	1.14					1.56				3.42	
		velocity	4.71	7.46	7.52	7.39	7.46					8.33	6.76			7.46	

*Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles***Stamejčić, Draga (YUG) (1937)**

FINAL - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
date	19-Oct-64	time			4.3							10.8		5 / 7		
reaction time		interval					3.00					3.50	(10.86)			
wind	2.3 m/s	velocity			6.51		8.00					6.86	9.26			

*Breitschaft (1965) - die leichtathletik wettkämpfe der 1964 olympischen sommerspielen - 80m hürdenlauf***Stång, Sonja (FIN) (2002)**

FINAL - 2020 Motonet GP (Jyräskylä, FIN) (TV Analysis)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
date	08-Jul-20	time	2.70	3.83	4.93	6.03	7.10	8.16	9.23	10.33	11.43	12.56		13.82	2 / 5			
reaction time		interval		1.13	1.10	1.10	1.07	1.06	1.07	1.10	1.10	1.13	1.26	PB		3.33	3.20	3.33
wind	0.7 m/s	velocity	4.81	7.52	7.73	7.73	7.94	8.02	7.94	7.73	7.73	7.52	7.98	7.24		7.66	7.97	7.66

*Henson (2020) - Athlete First: 2020 year end hurdle report***Stanley-Boutte, Tananjaly (USA) (1996)**

FINAL - 1996 USA Olympic Trials (Atlanta, GA)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
date	23-Jun-96	time	2.40	3.44	4.48	5.50	6.50	7.51	8.51	9.53	10.54	11.56		12.97	8 / 6			
reaction time		interval		1.04	1.04	1.02	1.00	1.01	1.00	1.02	1.01	1.02	1.41			3.10	3.01	3.05
wind	0.6 m/s	velocity	5.42	8.17	8.17	8.33	8.50	8.42	8.50	8.33	8.42	8.33	7.45	7.71		8.23	8.47	8.36

*USATF Women's Sprint Development (1996)***Stark, Grace (USA) (2001)**

FINAL - 2024 Memorial van damme (Brussels, BEL)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
date	14-Sep-24	time	2.60	3.60	4.60	5.58	6.56	7.54	8.51	9.50	10.50	11.50		12.59	3 / 4			
reaction time	0.153	interval		1.00	1.00	0.98	0.98	0.98	0.97	0.99	1.00	1.00	1.09			2.98	2.93	2.99
wind	0.4 m/s	velocity	5.00	8.50	8.50	8.67	8.67	8.67	8.76	8.59	8.50	8.50	9.22	7.94		8.56	8.70	8.53

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

date	05-Sep-24	time	2.44	3.48	4.48	5.45	6.42	7.37	8.33	9.31	10.28	11.27		12.47	5 / 3			
reaction time	0.149	interval		1.04	1.00	0.97	0.97	0.95	0.96	0.98	0.97	0.99	1.20			3.01	2.88	2.94
wind	0.8 m/s	velocity	5.33	8.17	8.50	8.76	8.76	8.95	8.85	8.67	8.76	8.59	8.37	8.02		8.47	8.85	8.67

*Omega Timing (2024) - diamond league race analysis***FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)**

date	25-Aug-24	time	2.38	3.41	4.39	5.35	6.30	7.25	8.20	9.17	10.17	11.17		12.37	7 / 2			
reaction time	0.142	interval		1.03	0.98	0.96	0.95	0.95	0.95	0.97	1.00	1.00	1.20			2.97	2.85	2.97
wind	-0.5 m/s	velocity	5.46	8.25	8.67	8.85	8.95	8.95	8.95	8.76	8.50	8.50	8.38	8.08		8.59	8.95	8.59

*Omega Timing (2024) - diamond league race analysis***Heat A - 2024 Kamila Skolimowska Memorial (Silesia, POL)**

date	25-Aug-24	time		5.34	6.29	7.26	8.22	9.22	10.19	11.19				12.42	6 / 2		
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Omega Timing (2024) - diamond league race analysis

reaction time	0.137	interval				0.95	0.97	0.96	1.00	0.97	1.00	1.23						2.88	2.97	
wind	-0.3 m/s	velocity				7.21	8.95	8.76	8.85	8.50	8.76	8.50	8.17	8.05				8.85	8.59	
FINAL - 2024 Athletissima (Lausanne, SU)																				
date	22-Aug-24	time	2.40	3.42	4.41	5.37	6.31	7.26	8.22	9.18	10.16	11.17		12.38	7 / 2			2.97	2.85	2.95
reaction time	0.145	interval		1.02	0.99	0.96	0.94	0.95	0.96	0.96	0.98	1.01	1.21					2.97	2.85	2.95
wind	-0.9 m/s	velocity	5.42	8.33	8.59	8.85	9.04	8.95	8.85	8.85	8.67	8.42	8.31	8.08				8.59	8.95	8.64
FINAL - 2024 Olympic Games (Paris, FRA)																				
date	10-Aug-24	time	2.41	3.44	4.42	5.40	6.36	7.31	8.28	9.25	10.22	11.20		12.43	4 / 5			2.99	2.88	2.92
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
wind	-0.3 m/s	velocity	5.39	8.25	8.67	8.67	8.85	8.95	8.76	8.76	8.76	8.67	8.17	8.05				8.53	8.85	8.73
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)																				
date	09-Aug-24	time	2.38	3.40	4.38	5.33	6.28	7.22	8.19	9.16	10.15	11.15		12.39	4 / 1			2.95	2.86	2.96
reaction time	0.148	interval		1.02	0.98	0.95	0.95	0.94	0.97	0.97	0.99	1.00	1.24					2.95	2.86	2.96
wind	0.5 m/s	velocity	5.46	8.33	8.67	8.95	8.95	9.04	8.76	8.76	8.59	8.50	8.10	8.07				8.64	8.92	8.61
Heat 5 - 2024 Olympic Games (Paris, FRA)																				
date	07-Aug-24	time	2.43	3.46	4.45	5.45	6.48	7.48	8.48	9.48	10.48	11.49		12.72	9 / 3			3.02	3.03	3.01
reaction time	0.172	interval		1.03	0.99	1.00	1.03	1.00	1.00	1.00	1.00	1.01	1.23					3.02	3.03	3.01
wind	-0.6 m/s	velocity	5.35	8.25	8.59	8.50	8.25	8.50	8.50	8.50	8.50	8.42	8.17	7.86				8.44	8.42	8.47
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																				
date	30-Jun-24	time	2.52	3.54	4.53	5.46	6.42	7.37	8.33	9.27	10.25	11.25		12.31	8 / 3			2.94	2.87	2.92
reaction time		interval		1.02	0.99	0.93	0.96	0.95	0.96	0.94	0.98	1.00	1.06	PB				2.94	2.87	2.92
wind	0.7 m/s	velocity	5.16	8.33	8.59	9.14	8.85	8.95	8.85	9.04	8.67	8.50	9.48	8.12				8.67	8.89	8.73
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																				
date	28-Jun-24	time	2.55	3.55	4.52	5.49	6.49	7.48	8.46	9.45	10.44	11.43		12.52	8 / 2			2.94	2.97	2.97
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
wind	0.2 m/s	velocity	5.10	8.50	8.76	8.76	8.50	8.59	8.67	8.59	8.59	8.59	9.22	7.99				8.67	8.59	8.59
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)																				
date	08-Jun-24	time	2.53	3.57	4.54	5.51	6.47	7.44	8.41	9.38	10.37	11.36		12.47	8 / 1			2.98	2.90	2.95
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
wind	-0.5 m/s	velocity	5.14	8.17	8.76	8.76	8.85	8.76	8.76	8.76	8.59	8.59	9.05	8.02				8.56	8.79	8.64
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)																				
date	08-Jul-23	time	2.57	3.59	4.58	5.57	6.56	7.54	8.53	9.52	10.53	11.56		12.70	8 / 8			3.00	2.96	3.03
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
wind	0.4 m/s	velocity	5.06	8.33	8.59	8.59	8.59	8.67	8.59	8.59	8.42	8.25	8.82	7.87				8.50	8.61	8.42
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)																				
date	10-Jun-23	time	2.50	3.52	4.54	5.50	6.52	7.52	8.50	9.49	10.51	11.53		12.72	2 / 5			3.00	3.00	3.03
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
wind	3.8 m/s	velocity	5.20	8.33	8.33	8.85	8.33	8.50	8.67	8.59	8.33	8.33	8.45	7.86				8.50	8.50	8.42
Semi Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)																				
date	20-Jun-21	time	2.50	3.50	4.50	5.50	6.47	7.47	8.50	9.50	10.50	11.58		12.79	3 / 8			3.00	3.00	3.08
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
wind	1.3 m/s	velocity	5.20	8.50	8.50	8.50	8.76	8.50	8.25	8.50	8.50	7.87	8.31	7.82				8.50	8.50	8.28
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)																				
date	12-Jun-21	time	2.57	3.60	4.60	5.60	6.61	7.59	8.57	9.57	10.60	11.63		12.89	6 / 4			3.03	2.97	3.06
reaction time	0.207	interval		1.03	1.00	1.00	1.01	0.98	0.98	1.00	1.03	1.03	1.26					3.03	2.97	3.06
wind	0.4 m/s	velocity	5.06	8.25	8.50	8.50	8.42	8.67	8.67	8.50	8.25	8.25	7.98	7.76				8.42	8.59	8.33
Steenkamp, Rikenette (RSA) (1992)																				
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)																				
date	06-Oct-19	time	2.42	3.46	4.48	5.48	6.48	7.48	8.50	9.52	10.56	11.62		12.96	3 / 7			3.06	3.02	3.12
reaction time	0.145	interval		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
wind	0.8 m/s	velocity	5.37	8.17	8.33	8.50	8.50	8.50	8.33	8.33	8.17	8.02	7.50	7.72				8.33	8.44	8.17
Stewart, Talia (USA) (1986)																				
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2005 USATF National Junior Championships (Carson, CA)																				
date	23-Jun-05	time	2.72	3.87	4.96	6.04	7.11	8.22	9.31	10.41	11.53	12.66		13.89	5 / 2			3.32	3.27	3.35
reaction time		interval		1.15	1.09	1.08	1.07	1.11	1.09	1.10	1.12	1.13	1.23					3.32	3.27	3.35
wind	-0.7 m/s	velocity	4.78	7.39	7.80	7.87	7.94	7.66	7.80	7.73	7.59	7.52	8.54	7.20				7.68	7.80	7.61
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)																				
date	22-Jun-03	time	2.61	3.75	4.86	5.94	7.02	8.14	9.24	10.36	11.46	12.58		13.92	3 / 5			3.33	3.30	3.34
reaction time		interval		1.14	1.11	1.08	1.08	1.12	1.10	1.12	1.10	1.12	1.34					3.33	3.30	3.34

wind 2.3 m/s velocity 4.98 7.46 7.66 7.87 7.87 7.59 7.73 7.59 7.73 7.59 7.84 7.18 7.66 7.73 7.63

Stowers, Jasmin (USA) (1991)														H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 New Balance Indoor Grand Prix (Boston, MA)																					<i>PrimeTime Timing (2020) - https://results.nbindoorgrandprix.com/</i>								
date	25-Jan-20	time	2.68											dnf	7 / --														
reaction time		interval																											
		velocity	4.85																										
FINAL - 2018 Bislett Games (Oslo, NOR) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>								
date	07-Jun-18	time	2.52	3.56	4.58	5.58	6.60	7.62	8.64	9.66	10.68	11.78	12.99	6 / 8															
reaction time	0.157	interval	1.04	1.02	1.00	1.02	1.02	1.02	1.02	1.02	1.02	1.10	1.21		3.06	3.06	3.14												
wind	1.1 m/s	velocity	5.16	8.17	8.33	8.50	8.33	8.33	8.33	8.33	8.33	8.33	7.73	8.68	7.70	8.33	8.33	8.12											
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>								
date	12-May-18	time	2.50	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													
wind	0.9 m/s	velocity	5.20	8.33	8.48	8.69	8.67	8.67	8.50	8.50	8.50	8.17	8.68	7.87	8.50	8.61	8.39												
FINAL - 2018 Doha Diamond League (Doha, QAT) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>								
date	04-May-18	time	2.52	3.54	4.54	5.52	6.50	7.50	8.50	9.50	10.52	11.54	12.77	2 / 4															
reaction time	0.137	interval	1.02	1.00	0.98	0.98	1.00	1.00	1.00	1.02	1.02	1.23		3.00	2.98	3.04													
wind	0.5 m/s	velocity	5.16	8.33	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.33	8.54	7.83	8.50	8.56	8.39												
FINAL - 2017 Weltklasse (Zürich, SUI) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>								
date	24-Aug-17	time	2.58	3.58	4.62	5.62	6.62	7.62	8.64	9.70	10.70	11.78	12.95	3 / 7															
reaction time	0.135	interval	1.00	1.04	1.00	1.00	1.00	1.02	1.06	1.00	1.08	1.17		3.04	3.02	3.14													
wind	-0.3 m/s	velocity	5.04	8.50	8.17	8.50	8.50	8.50	8.33	8.02	8.50	7.87	8.97	7.72	8.39	8.44	8.12												
FINAL - 2017 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>								
date	21-Jul-17	time	2.56	3.58	4.56	5.56	6.54	7.52	8.52	9.54	10.54	11.58	12.75	3 / 6															
reaction time	0.134	interval	1.02	0.98	1.00	0.98	0.98	1.00	1.02	1.00	1.04	1.17		3.00	2.96	3.06													
wind	-0.2 m/s	velocity	5.08	8.33	8.67	8.50	8.67	8.67	8.50	8.33	8.50	8.17	8.97	7.84	8.50	8.61	8.33												
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>								
date	09-Jul-17	time	2.50	3.50	4.48	5.44	6.40	7.36	8.34	9.30	10.30		dnf	6 / --															
reaction time	0.124	interval	1.00	0.98	0.96	0.96	0.96	0.96	0.98	0.96	1.00				2.94	2.90													
wind	0.2 m/s	velocity	5.20	8.50	8.67	8.85	8.85	8.85	8.67	8.85	8.50				8.67	8.79													
FINAL - 2017 Athletissima (Lausanne, SUI) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>								
date	06-Jul-17	time	2.46	3.46	4.44	5.43	6.40	7.35	8.33	9.32	10.32	11.33	12.57	5 / 2															
reaction time	0.119	interval	1.00	0.98	0.99	0.97	0.95	0.98	0.99	1.00	1.01	1.24		2.97	2.90	3.00													
wind	-0.1 m/s	velocity	5.28	8.50	8.67	8.59	8.76	8.95	8.67	8.59	8.50	8.42	8.47	7.96	8.59	8.79	8.50												
FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>								
date	04-Jul-17	time	2.50	3.50	4.50	5.46	6.42	7.40	8.38	9.38	10.40	11.42	12.66	6 / 2															
reaction time	0.148	interval	1.00	1.00	0.96	0.96	0.98	0.98	1.00	1.02	1.02	1.24		2.96	2.92	3.04													
wind	0.1 m/s	velocity	5.20	8.50	8.50	8.85	8.85	8.67	8.67	8.50	8.33	8.33	8.47	7.90	8.61	8.73	8.39												
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>								
date	27-May-17	time	2.50	3.50	4.48	5.46	6.42	7.40	8.40	9.40	10.40	11.40	12.59	2 / 1															
reaction time	0.154	interval	1.00	0.98	0.98	0.96	0.98	1.00	1.00	1.00	1.00	1.19		2.96	2.94	3.00													
wind	0.8 m/s	velocity	5.20	8.50	8.67	8.67	8.85	8.67	8.50	8.50	8.50	8.50	8.82	7.94	8.61	8.67	8.50												
FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>								
date	29-Apr-17	time	2.56	3.58	4.56	5.56	6.53	7.53	8.53	9.53	10.53	11.53	12.76	2 / 2															
reaction time		interval	1.02	0.98	1.00	0.97	1.00	1.00	1.00	1.00	1.00	1.23		3.00	2.97	3.00													
wind	1.0 m/s	velocity	5.08	8.33	8.67	8.50	8.76	8.50	8.50	8.50	8.50	8.50	8.54	7.84	8.50	8.59	8.50												
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)																					<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>								
date	09-Sep-16	time	2.56	3.58	4.56	5.56	6.54	7.52	8.50	9.50	10.52	11.54	12.78	6 / 1															
reaction time	0.186	interval	1.02	0.98	1.00	0.98	0.98	0.98	1.00	1.02	1.02	1.24		3.00	2.94	3.04													
wind	0.1 m/s	velocity	5.08	8.33	8.67	8.50	8.67	8.67	8.67	8.50	8.33	8.33	8.47	7.82	8.50	8.67	8.39												
FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>								
date	01-Sep-16	time	2.48	3.52	4.50	5.50	6.50	7.50	8.48	9.50	10.52	11.56	12.78	3 / 4															
reaction time	0.120	interval	1.04	0.98	1.00	1.00	1.00	0.98	1.02	1.02	1.04	1.22		3.02	2.98	3.08													
wind	0.4 m/s	velocity	5.24	8.17	8.67	8.50	8.50	8.50	8.67	8.33	8.33	8.17	8.61	7.82	8.44	8.56	8.28												
FINAL - 2016 Meeting Paris (Saint-Denis, FRA) (TV Analysis)																					<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>								
date	27-Aug-16	time	2.54	3.58	4.58	5.56	6.54	7.52	8.52	9.52	10.54	11.58	12.76	6 / 4															
reaction time	0.140	interval	1.04	1.00	0.98	0.98	0.98	1.00	1.00	1.02	1.04	1.18		3.02	2.96	3.06													
wind	0.2 m/s	velocity	5.12	8.17	8.50	8.67	8.67	8.67	8.50	8.50	8.33	8.17	8.90	7.84	8.44	8.61	8.33												

FINAL - 2016 Athletissime (Luasanne, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	25-Aug-16	time	2.56	3.58	4.58	5.56	6.54	7.54	8.54	9.54	10.56	11.58	12.75	6 / 3			
reaction time	0.135	interval		1.02	1.00	0.98	0.98	1.00	1.00	1.00	1.02	1.02	1.17		3.00	2.98	3.04
wind	0.7 m/s	velocity	5.08	8.33	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.33	8.97	7.84	8.50	8.56	8.39

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

date	22-Jul-16	time	2.52	3.52	4.50	5.50								dnf	4 / --		
reaction time	0.132	interval		1.00	0.98	1.00										2.98	
wind	0.3 m/s	velocity	5.16	8.50	8.67	8.50										8.56	

Heat 2 - 2016 London Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	22-Jul-16	time	2.56	3.56	4.56	5.54	6.52	7.48	8.44	9.44	10.40	11.44	12.58	7 / 2			
reaction time	0.143	interval		1.00	1.00	0.98	0.98	0.96	0.96	1.00	0.96	1.04	1.14		2.98	2.90	3.00
wind	0.2 m/s	velocity	5.08	8.50	8.50	8.67	8.67	8.85	8.85	8.50	8.85	8.17	9.21	7.95	8.56	8.79	8.50

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

date	08-Jul-16	time	2.53	3.53	4.50	5.48	6.44	7.40	8.37	9.34	10.34	11.31	17.13	7 / 8			
reaction time	0.190	interval		1.00	0.97	0.98	0.96	0.96	0.97	0.97	1.00	0.97	5.82		2.95	2.89	2.94
wind	1.2 m/s	velocity	5.14	8.50	8.76	8.67	8.85	8.85	8.76	8.76	8.50	8.76	1.80	5.84	8.64	8.82	8.67

FINAL - 2016 Bislett Games (Oslo, NOR) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	09-Jun-16	time	2.60	3.64	4.62	5.60	6.58	7.54	8.56	9.56	10.58	11.60	12.79	6 / 3			
reaction time	0.188	interval		1.04	0.98	0.98	0.98	0.96	1.02	1.00	1.02	1.02	1.19		3.00	2.96	3.04
wind	-0.4 m/s	velocity	5.00	8.17	8.67	8.67	8.67	8.85	8.33	8.50	8.33	8.33	8.82	7.82	8.50	8.61	8.39

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

date	28-May-16	time	2.54	3.54	4.50	5.46	6.42	7.38	8.34	9.34	10.32	11.32	12.55	7 / 3			
reaction time		interval		1.00	0.96	0.96	0.96	0.96	0.96	1.00	0.98	1.00	1.23		2.92	2.88	2.98
wind	0.7 m/s	velocity	5.12	8.50	8.85	8.85	8.85	8.85	8.85	8.50	8.67	8.50	8.54	7.97	8.73	8.85	8.56

Su Yiping (CHN) (1979)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2001 Chinese National Games (Beijing, CHN)***Xu (2007) - comparative study on technical parameters of china & world female 100m hurdlers*

date	18-Nov-01	time	2.62	3.66	4.65	5.63	6.59	7.57	8.55	9.54	10.56	11.59	12.70	1 / 1			
reaction time		interval		1.04	0.99	0.98	0.96	0.98	0.98	0.99	1.02	1.03	1.11		3.01	2.92	3.04
wind	2.2 m/s	velocity	4.96	8.17	8.59	8.67	8.85	8.67	8.67	8.59	8.33	8.25	9.46	7.87	8.47	8.73	8.39

Suchelová, Nikola (CZE) (1991)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)***Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles*

date	25-Feb-12	time	2.98	4.18	5.40	6.64	7.87						9.47	7 / 5			
reaction time	0.258	interval		1.20	1.22	1.24	1.23						1.60		3.66		
		velocity	4.36	7.08	6.97	6.85	6.91						8.13	6.34	6.97		

Sulek-Schubert, Adrianna (POL) (199**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.56	3.66	4.73	5.78	6.82	7.86	8.91	9.95	10.99	12.05	13.32	4 / 1			
reaction time	0.153	interval		1.10	1.07	1.05	1.04	1.04	1.05	1.04	1.04	1.06	1.27		3.22	3.13	3.14
wind	0.1 m/s	velocity	5.08	7.73	7.94	8.10	8.17	8.17	8.10	8.17	8.17	8.02	7.91	7.51	7.92	8.15	8.12

Sun Jingyuan (CHN) (2002)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (76cm)***CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.94	4.12	5.24	6.39	7.56	8.71	9.88	11.06	12.25	13.48	14.83	2 / 8			
reaction time	0.224	interval		1.18	1.12	1.15	1.17	1.15	1.17	1.18	1.19	1.23	1.35		3.45	3.49	3.60
wind	0.0 m/s	velocity	4.42	7.20	7.59	7.39	7.26	7.39	7.26	7.20	7.14	6.91	7.78	6.74	7.39	7.31	7.08

Sun Lan (CHN) (2002)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)***CAA Hurdle Development (2021)*

date	24-Jun-21	time	2.93	4.14	5.35	6.59	7.80	9.06	10.29	11.60	12.91	14.25	15.70	7 / 6			
reaction time	0.203	interval		1.21	1.21	1.24	1.21	1.26	1.23	1.31	1.31	1.34	1.45		3.66	3.70	3.96
wind	0.6 m/s	velocity	4.44	7.02	7.02	6.85	7.02	6.75	6.91	6.49	6.49	6.34	6.93	6.37	6.97	6.89	6.44

Heptathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)*CAA Hurdle Development (2019)*

date	23-Aug-19	time	2.88	4.09	5.27	6.46	7.66	8.83	10.03	11.25	12.48	13.70	15.09	4 / 4			
reaction time	0.199	interval		1.21	1.18	1.19	1.20	1.17	1.20	1.22	1.23	1.22	1.39		3.58	3.57	3.67
wind	?? m/s	velocity	4.51	7.02	7.20	7.14	7.08	7.26	7.08	6.97	6.91	6.97	7.55	6.63	7.12	7.14	6.95

Heptathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	08-Jul-19	time	2.87	4.10	5.29	6.47	7.64	8.84	9.99	11.21	12.43	13.65	15.01	6 / 5			
reaction time	0.193	interval		1.23	1.19	1.18	1.17	1.20	1.15	1.22	1.22	1.22	1.36	PB	3.60	3.52	3.66
wind	0.8 m/s	velocity	4.53	6.91	7.14	7.20	7.26	7.08	7.39	6.97	6.97	6.97	7.72	6.66	7.08	7.24	6.97

Sun Minjing (CHN) (1988)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2017 Chinese National Games (Tianjin, CHN)***Henson (2017) - coaching observations*

date	04-Sep-17	time	2.75	3.83	4.92	5.98	7.03	8.09	9.13	10.23	11.34	12.49	13.78	9 / 8			
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reaction time	interval	1.08	1.09	1.06	1.05	1.06	1.04	1.10	1.11	1.15	1.29			3.23	3.15	3.36	
wind	-0.2 m/s	velocity	4.73	7.87	7.80	8.02	8.10	8.02	8.17	7.73	7.66	7.39	8.14	7.26	7.89	8.10	7.59

Sun Xue (CHN)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1993 Chinese National Games (Beijing, CHN)																	
<i>Bo (1996) - a study on female 100m hurdles running rhythm in the 7th national games</i>																	
date	09-Sep-93	time	2.69	3.75	4.79	5.83	6.87	7.91	8.95	9.99	11.05	12.13		13.28	1 / 7		
reaction time	interval	1.06	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.06	1.08	1.15			3.14	3.12	3.18
wind	0.1 m/s	velocity	4.83	8.02	8.17	8.17	8.17	8.17	8.17	8.17	8.02	7.87	9.13	7.53	8.12	8.17	8.02

Šutová, Eva (CZE) (1990)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)																	
<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>																	
date	15-Jun-13	time	2.87	4.05	5.26	6.46	7.66	8.91	10.17	11.45	12.74	14.12		15.47	2 / 5		
reaction time	0.168	interval	1.18	1.21	1.20	1.20	1.25	1.26	1.28	1.29	1.38	1.35			3.59	3.71	3.95
wind	-0.9 m/s	velocity	4.53	7.20	7.02	7.08	7.08	6.80	6.75	6.64	6.59	6.16	7.78	6.46	7.10	6.87	6.46

Suzuki, Miho (JPN) (1996)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Japanese National Championships (Osaka, JPN)																	
<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>																	
date	03-Jun-23	time	2.73	3.80	4.84	5.86	6.89	7.90	8.95	10.01	11.09	12.19		13.42	3 / 7		
reaction time	0.224	interval	1.07	1.04	1.02	1.03	1.01	1.05	1.06	1.08	1.10	1.23			3.13	3.09	3.24
wind	-1.2 m/s	velocity	4.76	7.94	8.17	8.33	8.25	8.42	8.10	8.02	7.87	7.73	8.17	7.45	8.15	8.25	7.87
FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)																	
<i>Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season</i>																	
date	07-May-23	time	2.67	3.74	4.78	5.81	6.85	7.88	8.94	10.00	11.07	12.17		13.39	2 / 7		
reaction time	0.155	interval	1.07	1.04	1.03	1.04	1.03	1.06	1.06	1.07	1.10	1.22			3.14	3.13	3.23
wind	0.7 m/s	velocity	4.87	7.94	8.17	8.25	8.17	8.25	8.02	8.02	7.94	7.73	8.24	7.47	8.12	8.15	7.89
FINAL - 2022 Japanese National Championships (Osaka, JPN)																	
<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>																	
date	11-Jun-22	time	2.74	3.82	4.86	5.92	6.98	8.02	9.09	10.14	11.24	12.34		13.52	9 / 7		
reaction time	0.171	interval	1.08	1.04	1.06	1.06	1.04	1.07	1.05	1.10	1.10	1.18			3.18	3.17	3.25
wind	0.8 m/s	velocity	4.74	7.87	8.17	8.02	8.02	8.17	7.94	8.10	7.73	7.73	8.52	7.40	8.02	8.04	7.85
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)																	
<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>																	
date	08-May-22	time	2.72	3.80	4.85	5.90	6.93	7.98	9.04	10.11	11.19	12.29		13.48	1 / 8		
reaction time	0.168	interval	1.08	1.05	1.05	1.03	1.05	1.06	1.07	1.08	1.10	1.19			3.18	3.14	3.25
wind	-0.1 m/s	velocity	4.78	7.87	8.10	8.10	8.25	8.10	8.02	7.94	7.87	7.73	8.45	7.42	8.02	8.12	7.85
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)																	
<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>																	
date	01-May-22	time	2.70	3.74	4.77	5.80	6.82	7.85	8.89	9.96	11.03	12.12		13.33	3 / 3		
reaction time	0.183	interval	1.04	1.03	1.03	1.02	1.03	1.04	1.07	1.07	1.09	1.21			3.10	3.09	3.23
wind	-0.6 m/s	velocity	4.81	8.17	8.25	8.25	8.33	8.25	8.17	7.94	7.94	7.80	8.31	7.50	8.23	8.25	7.89
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)																	
<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>																	
date	29-Apr-22	time	2.76	3.87	4.93	6.02	7.09	8.17	9.26	10.35	11.44	12.54		13.72	2 / 7		
reaction time	0.266	interval	1.11	1.06	1.09	1.07	1.08	1.09	1.09	1.09	1.10	1.18			3.26	3.24	3.28
wind	-2.8 m/s	velocity	4.71	7.66	8.02	7.80	7.94	7.87	7.80	7.80	7.73	8.52	7.29		7.82	7.87	7.77
FINAL - 2021 Japanese National Championships (Osaka, JPN)																	
<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																	
date	27-Jun-21	time	2.70	3.79	4.83	5.87	6.90	7.92	8.98	10.03	11.10	12.18		13.35	4 / 3		
reaction time	0.170	interval	1.09	1.04	1.04	1.03	1.02	1.06	1.05	1.07	1.08	1.17			3.17	3.11	3.20
wind	0.0 m/s	velocity	4.81	7.80	8.17	8.17	8.25	8.33	8.02	8.10	7.94	7.87	8.59	7.49	8.04	8.20	7.97
FINAL - 2021 Fuse Sprint (Tottori, JPN)																	
<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																	
date	06-Jun-21	time	2.68	3.72	4.75	5.75	6.76	7.77	8.78	9.79	10.83	11.89		13.01	6 / 3		
reaction time	0.163	interval	1.04	1.03	1.00	1.01	1.01	1.01	1.01	1.04	1.06	1.12			3.07	3.03	3.11
wind	1.8 m/s	velocity	4.85	8.17	8.25	8.50	8.42	8.42	8.42	8.42	8.17	8.02	8.97	7.69	8.31	8.42	8.20
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)																	
<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																	
date	01-Jun-21	time	2.70	3.76	4.79	5.82	6.82	7.84	8.87	9.91	10.97	12.02		13.15	7 / 2		
reaction time	0.199	interval	1.06	1.03	1.03	1.00	1.02	1.03	1.04	1.06	1.05	1.13	=PB		3.12	3.05	3.15
wind	0.3 m/s	velocity	4.81	8.02	8.25	8.25	8.50	8.33	8.25	8.17	8.02	8.10	8.89	7.60	8.17	8.36	8.10
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)																	
<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																	
date	09-May-21	time	2.71	3.76	4.80	5.84	6.85	7.89	8.93	9.97	11.04	12.23		13.52	4 / 4		
reaction time	0.160	interval	1.05	1.04	1.04	1.01	1.04	1.04	1.04	1.07	1.19	1.29			3.13	3.09	3.30
wind	-0.8 m/s	velocity	4.80	8.10	8.17	8.17	8.42	8.17	8.17	8.17	7.94	7.14	7.79	7.40	8.15	8.25	7.73
FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)																	
<i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																	
date	29-Apr-21	time	2.72	3.78	4.82	5.86	6.89	7.90	8.93	9.96	11.00	12.06		13.22	6 / 2		
reaction time	interval	1.06	1.04	1.04	1.03	1.01	1.03	1.03	1.04	1.06	1.16				3.14	3.07	3.13
wind	1.6 m/s	velocity	4.78	8.02	8.17	8.17	8.25	8.42	8.25	8.25	8.17	8.02	8.66	7.56	8.12	8.31	8.15
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)																	
<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>																	
date	24-Oct-20	time	2.60	3.68	4.75	5.80	6.85	7.90	8.95	10.03	11.13	12.25		13.66	4 / 6		

reaction time	interval	1.08	1.07	1.05	1.05	1.05	1.05	1.08	1.10	1.12	1.41		3.20	3.15	3.30		
wind	-1.4 m/s	velocity	5.00	7.87	7.94	8.10	8.10	8.10	8.10	7.87	7.73	7.59	7.13	7.32	7.97	8.10	7.73
FINAL - 2020 Japanese National Championships (Niigata, JPN)																	
<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>																	
date	03-Oct-20	time	2.69	3.78	4.83	5.89	6.92	7.96	9.04	10.11	11.17	12.28	13.49	9 / 5			
reaction time	0.153	interval	1.09	1.05	1.06	1.03	1.04	1.08	1.07	1.06	1.11	1.21		3.20	3.15	3.24	
wind	-0.1 m/s	velocity	4.83	7.80	8.10	8.02	8.25	8.17	7.87	7.94	8.02	7.66	8.31	7.41	7.97	8.10	7.87
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)																	
<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>																	
date	20-Sep-20	time	2.72	3.76	4.80	5.82	6.84	7.86	8.90	9.94	11.02	12.10	13.30	5 / 2			
reaction time	0.202	interval	1.04	1.04	1.02	1.02	1.02	1.04	1.04	1.08	1.08	1.20		3.10	3.08	3.20	
wind	0.0 m/s	velocity	4.78	8.17	8.17	8.33	8.33	8.33	8.17	8.17	7.87	7.87	8.37	7.52	8.23	8.28	7.97
FINAL - 2020 Athlete Night Games (Fukui, JPN)																	
<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>																	
date	29-Aug-20	time	2.69	3.73	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	
wind	2.1 m/s	velocity	4.83	8.17	8.42	8.33	8.50	8.42	8.33	8.10	8.10	7.73	8.89	7.62	8.31	8.42	7.97
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)																	
<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>																	
date	23-Aug-20	time	2.72	3.78	4.83	5.86	6.89	7.92	8.96	10.03	11.08	12.17	13.30	2 / 5			
reaction time	0.184	interval	1.06	1.05	1.03	1.03	1.03	1.04	1.07	1.05	1.09	1.13		3.14	3.10	3.21	
wind	0.3 m/s	velocity	4.78	8.02	8.10	8.25	8.25	8.25	8.17	7.94	8.10	7.80	8.89	7.52	8.12	8.23	7.94
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)																	
<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>																	
date	01-Sep-19	time	2.73	3.78	4.82	5.85	6.86	7.90	8.95	10.00	11.07	12.13	13.29	2 / 4			
reaction time		interval	1.05	1.04	1.03	1.01	1.04	1.05	1.05	1.07	1.06	1.16		3.12	3.10	3.18	
wind	1.2 m/s	velocity	4.76	8.10	8.17	8.25	8.42	8.17	8.10	8.10	7.94	8.02	9.05	7.52	8.17	8.23	8.02
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)																	
<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	29-Jun-19	time	2.72	3.77	4.80	5.84	6.87	7.91	8.95	10.00	11.07	12.14	13.31	8 / 7			
reaction time	0.191	interval	1.05	1.03	1.04	1.03	1.04	1.04	1.05	1.07	1.07	1.17	PB	3.12	3.11	3.19	
wind	0.6 m/s	velocity	4.78	8.10	8.25	8.17	8.25	8.17	8.10	7.94	7.94	8.97	7.51	8.17	8.20	7.99	
FINAL - 2019 Fuse Sprint (Tottori, JPN)																	
<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	02-Jun-19	time	2.72	3.78	4.82	5.87	6.92	7.95	8.99	10.03	11.11	12.19	13.35	9 / 6			
reaction time	0.155	interval	1.06	1.04	1.05	1.05	1.03	1.04	1.04	1.04	1.08	1.08	1.16		3.15	3.12	3.20
wind	3.5 m/s	velocity	4.78	8.02	8.17	8.10	8.10	8.25	8.17	8.17	7.87	7.87	9.05	7.49	8.10	8.17	7.97
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																	
<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	28-Apr-19	time	2.72	3.80	4.87	5.93	6.97	8.05	9.12	10.20	11.29	12.40	13.62	1 / 7			
reaction time		interval	1.08	1.07	1.06	1.04	1.08	1.07	1.08	1.09	1.11	1.22		3.21	3.19	3.28	
wind	0.6 m/s	velocity	4.78	7.87	7.94	8.02	8.17	7.87	7.94	7.87	7.80	7.66	8.61	7.34	7.94	7.99	7.77
Suzuki, Risa (JPN) (2003)																	
H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10																	
U18 FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (76cm)																	
<i>Enomoto (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	06-Oct-19	time	2.80	3.93	5.03	6.12	7.21	8.29	9.38	10.48	11.58	12.68	13.90	9 / 4			
reaction time	0.226	interval	1.13	1.10	1.09	1.09	1.08	1.09	1.10	1.10	1.10	1.22		3.32	3.26	3.30	
wind	1.6 m/s	velocity	4.64	7.52	7.73	7.80	7.80	7.87	7.80	7.73	7.73	8.61	7.19	7.68	7.82	7.73	
Švehlíková, Eva (CZE) (1998)																	
H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10																	
Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)																	
<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																	
date	28-Jun-14	time	3.01	4.27	5.54	6.81	8.08	9.38	10.66	11.95	13.23	14.55	15.98	1 / 8			
reaction time	0.239	interval	1.26	1.27	1.27	1.27	1.30	1.28	1.29	1.28	1.32	1.43		3.80	3.85	3.89	
wind	-1.3 m/s	velocity	4.32	6.75	6.69	6.69	6.69	6.54	6.64	6.59	6.64	6.44	7.34	6.26	6.71	6.62	6.56
Svobodová, Lenka (CZE) (1995)																	
H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10																	
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE)																	
<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																	
date	28-Jun-14	time	2.75	3.89	5.05	6.21	7.36	8.51	9.65	10.85	12.04	13.24	14.57	5 / 2			
reaction time	0.123	interval	1.14	1.16	1.16	1.15	1.15	1.14	1.20	1.19	1.20	1.33		3.46	3.44	3.59	
wind	-3.9 m/s	velocity	4.73	7.46	7.33	7.33	7.39	7.39	7.46	7.08	7.14	7.08	7.89	6.86	7.37	7.41	7.10
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE)																	
<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																	
date	28-Jun-14	time	2.77	3.93	5.08	6.24	7.40	8.56	9.74	10.91	12.11	13.34	14.76	7 / 1			
reaction time	0.389	interval	1.16	1.15	1.16	1.16	1.16	1.18	1.17	1.20	1.23	1.42		3.47	3.50	3.60	
wind	-1.5 m/s	velocity	4.69	7.33	7.39	7.33	7.33	7.33	7.20	7.26	7.08	6.91	7.39	6.78	7.35	7.29	7.08
Svojanovská, Michaela (CZE) (1990)																	
H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10																	
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)																	
<i>Fehér (2012) - Czech Republic indoor national championships - women's 60m hurdles</i>																	
date	25-Feb-12	time	2.97	4.19	5.42	6.63	7.88						9.52	8 / 6			
reaction time	0.159	interval	1.22	1.23	1.21	1.25						1.64		3.66			
		velocity	4.38	6.97	6.91	7.02	6.80					7.93	6.30	6.97			
Taguchi, Mayu (JPN) (2003)																	
H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10																	

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

Shibayama (2021) - national high school and U20 national championships

date	01-Aug-21	time	2.70	3.78	4.84	5.89	6.93	7.98	9.03	10.10	11.19	12.29		13.52	5 / 1			
reaction time	0.138	interval		1.08	1.06	1.05	1.04	1.05	1.05	1.07	1.09	1.10	1.23	PB		3.19	3.14	3.26
wind	1.8 m/s	velocity	4.81	7.87	8.02	8.10	8.17	8.10	8.10	7.94	7.80	7.73	8.17	7.40		7.99	8.12	7.82

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

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

date	26-Jun-21	time	2.72	3.85	4.94	6.01	7.08	8.17	9.28	10.39	11.54	12.70		13.96	2 / 6			
reaction time	0.153	interval		1.13	1.09	1.07	1.07	1.09	1.11	1.11	1.15	1.16	1.26	PB		3.29	3.27	3.42
wind	0.2 m/s	velocity	4.78	7.52	7.80	7.94	7.94	7.80	7.66	7.66	7.39	7.33	7.98	7.16		7.75	7.80	7.46

Takahashi, Ami (JPN) (2005)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2023 Japanese U20 National Championships (Osaka, JPN)**

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

date	03-Jun-23	time	2.72	3.81	4.91	6.00	7.07	8.15	9.26	10.35	11.47	12.59		13.88	9 / 3			
reaction time	0.180	interval		1.09	1.10	1.09	1.07	1.08	1.11	1.09	1.12	1.12	1.29			3.28	3.26	3.33
wind	-1.4 m/s	velocity	4.78	7.80	7.73	7.80	7.94	7.87	7.66	7.80	7.59	7.59	7.79	7.20		7.77	7.82	7.66

FINAL - 2022 Japanese National High School Championships (Naruto, JPN)

Kishima (2022) - national high school championships biomechanics data collection

date	07-Aug-22	time	2.64	3.76	4.87	5.96	7.06	8.15	9.26	10.36	11.47	12.61		13.85	6 / 2			
reaction time	0.141	interval		1.12	1.11	1.09	1.10	1.09	1.11	1.10	1.11	1.14	1.24			3.32	3.30	3.35
wind	-1.5 m/s	velocity	4.92	7.59	7.66	7.80	7.73	7.80	7.66	7.73	7.66	7.46	8.10	7.22		7.68	7.73	7.61

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

Shibayama (2021) - national high school and U20 national championships

date	01-Aug-21	time	2.69	3.81	4.89	5.97	7.05	8.15	9.22	10.33	11.42	12.54		13.75	7 / 6			
reaction time	0.151	interval		1.12	1.08	1.08	1.08	1.10	1.07	1.11	1.09	1.12	1.21	PB		3.28	3.25	3.32
wind	1.8 m/s	velocity	4.83	7.59	7.87	7.87	7.87	7.73	7.94	7.66	7.80	7.59	8.31	7.27		7.77	7.85	7.68

Takahashi, Makato (JPN)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 2 - 2016 Japanese National Junior Championships (Mizuho, JPN)**(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en

date	21-Oct-16	time	2.80	3.93	5.05	6.15	7.25	8.35	9.45	10.56	11.70	12.83		14.02	3 / 2			
reaction time		interval		1.13	1.12	1.10	1.10	1.10	1.10	1.11	1.14	1.13	1.19			3.35	3.30	3.38
wind	1.3 m/s	velocity	4.64	7.52	7.59	7.73	7.73	7.73	7.73	7.66	7.46	7.52	8.82	7.13		7.61	7.73	7.54

FINAL - 2016 Kanto Area High School Championships (Tokyo, JPN)(2016.06.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	17-Jun-16	time	2.79	3.92	5.11	6.24	7.36	8.48	9.63	10.77	11.88	13.04		14.27	3 / 1			
reaction time		interval		1.13	1.19	1.13	1.12	1.12	1.15	1.14	1.11	1.16	1.23			3.45	3.39	3.41
wind	-1.5 m/s	velocity	4.66	7.52	7.14	7.52	7.59	7.59	7.39	7.46	7.66	7.33	8.54	7.01		7.39	7.52	7.48

Takahashi, Natsuki (JPN) (1998)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2016 Japanese National High School Championships (Okayama, JPN)**

Kota (2016) - 69th high school championships: JAF scientific committee- biomechanics data

date	02-Aug-16	time	2.79	3.91	5.02	6.14	7.24	8.34	9.44	10.54	11.65	12.76		13.95	6 / 7			
reaction time	0.183	interval		1.12	1.11	1.12	1.10	1.10	1.10	1.10	1.11	1.11	1.19	PB		3.35	3.30	3.32
wind	1.5 m/s	velocity	4.66	7.59	7.66	7.59	7.73	7.73	7.73	7.73	7.66	7.66	8.82	7.17		7.61	7.73	7.68

Takami, Towa (JPN) (2004)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2021 Japanese High School National Championships (Fukui, JPN)**

Shibayama (2021) - national high school and U20 national championships

date	01-Aug-21	time	2.66	3.72	4.78	5.84	6.94	8.02	9.11	10.21	11.33	12.44		13.64	1 / 3			
reaction time	0.158	interval		1.06	1.06	1.06	1.10	1.08	1.09	1.10	1.12	1.11	1.20	PB		3.18	3.27	3.33
wind	1.8 m/s	velocity	4.89	8.02	8.02	8.02	7.73	7.87	7.80	7.73	7.59	7.66	8.37	7.33		8.02	7.80	7.66

Takebe, Mao (JPN) (1995)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)**(2017) - [tfdata-store.com/2017/05/01/458/](https://data-store.com/2017/05/01/458/)

date	29-Apr-17	time	2.71	3.79	4.85	5.91	6.98	8.01	9.09	10.16	11.26	12.39		13.73	7 / 6			
reaction time		interval		1.08	1.06	1.06	1.07	1.03	1.08	1.07	1.10	1.13	1.34			3.20	3.18	3.30
wind	4.1 m/s	velocity	4.80	7.87	8.02	8.02	7.94	8.25	7.87	7.94	7.73	7.52	7.84	7.28		7.97	8.02	7.73

FINAL - 2016 National Sports Festival (Kitakami, JPN)(2016.11.14) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	10-Oct-16	time	2.71	3.80	4.86	5.92	6.96	8.03	9.11	10.20	11.30	12.43		13.66	5 / 5			
reaction time	0.172	interval		1.09	1.06	1.06	1.04	1.07	1.08	1.09	1.10	1.13	1.23			3.21	3.19	3.32
wind	2.8 m/s	velocity	4.80	7.80	8.02	8.02	8.17	7.94	7.87	7.80	7.73	7.52	8.54	7.32		7.94	7.99	7.68

Takeuchi, Maya (JPN) (1998)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)**

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

date	29-Apr-22	time	2.70	3.84	4.95	6.03	7.09	8.18	9.25	10.34	11.47	12.59		13.79	3 / 4			
reaction time	0.179	interval		1.14	1.11	1.08	1.06	1.09	1.07	1.09	1.13	1.12	1.20			3.33	3.22	3.34
wind	0.3 m/s	velocity	4.81	7.46	7.66	7.87	8.02	7.80	7.94	7.80	7.52	7.59	8.38	7.25		7.66	7.92	7.63

FINAL - 2021 Japanese National Championships (Osaka, JPN)

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

date	27-Jun-21	time	2.61	3.69	4.76	5.81	6.86	7.91	9.00	10.07	11.17	12.26		13.42	8 / 4			
reaction time	0.143	interval		1.08	1.07	1.05	1.05	1.05	1.09	1.07	1.10	1.09	1.16	PB		3.20	3.19	3.26
wind	0.0 m/s	velocity	4.98	7.87	7.94	8.10	8.10	8.10	7.80	7.94	7.73	7.80	8.66	7.45		7.97	7.99	7.82

FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)

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

date	09-May-21	time	2.67	3.77	4.86	5.93	7.01	8.10	9.19	10.31	11.44	12.58		13.66	8 / 8			
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reaction time	0.156	interval	1.10	1.09	1.07	1.08	1.09	1.09	1.12	1.13	1.14	1.08			3.26	3.26	3.39
wind	-0.8 m/s	velocity	4.87	7.73	7.80	7.94	7.87	7.80	7.80	7.59	7.52	7.46	9.31	7.32	7.82	7.82	7.52

FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	29-Apr-21	time	2.63	3.72	4.76	5.81	6.86	7.91	8.98	10.06	11.17	12.30		13.52		1 / 7			
reaction time	0.132	interval	1.09	1.04	1.05	1.05	1.05	1.07	1.08	1.11	1.13	1.22		=PB			3.18	3.17	3.32
wind	1.6 m/s	velocity	4.94	7.80	8.17	8.10	8.10	8.10	7.94	7.87	7.66	7.52	8.24	7.40			8.02	8.04	7.68

FINAL - 2020 Japanese National Championships (Niigata, JPN)*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	03-Oct-20	time	2.62	3.71	4.78	5.82	6.89	7.94	9.00	10.08	11.18	12.30		13.52		8 / 7			
reaction time	0.154	interval	1.09	1.07	1.04	1.07	1.05	1.06	1.08	1.10	1.12	1.22		PB			3.20	3.18	3.30
wind	-0.1 m/s	velocity	4.96	7.80	7.94	8.17	7.94	8.10	8.02	7.87	7.73	7.59	8.24	7.40			7.97	8.02	7.73

Talay, Alina (BLR) (1989)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	10-Jun-18	time	2.58	3.60	4.60	5.56	6.52	7.48	8.44	9.42	10.42	11.42		12.55		4 / 3			
reaction time	0.132	interval	1.02	1.00	0.96	0.96	0.96	0.96	0.96	0.98	1.00	1.00	1.13				2.98	2.88	2.98
wind	1.3 m/s	velocity	5.04	8.33	8.50	8.85	8.85	8.85	8.85	8.67	8.50	8.50	9.29	7.97			8.56	8.85	8.56

FINAL - 2018 Bislett Games (Oslo, NOR) (TV Analysis)*Henson (2020) - Athlete First: 2018 year end hurdle report*

date	07-Jun-18	time	2.56	3.56	4.56	5.52	6.48	7.46	8.44	9.40	10.42	11.44		12.63		5 / 2			
reaction time	0.231	interval	1.00	1.00	0.96	0.96	0.98	0.98	0.96	1.02	1.02	1.19					2.96	2.92	3.00
wind	1.1 m/s	velocity	5.08	8.50	8.50	8.85	8.85	8.67	8.67	8.85	8.33	8.33	8.82	7.92			8.61	8.73	8.50

FINAL - 2018 Leise Prokop Memorial (St. Pölten, AUT) (TV Analysis)*Henson (2021) - Athlete First: 2018 year end hurdle report*

date	31-May-18	time	2.52	3.52	4.50	5.46	6.42	7.38	8.34	9.30	10.26	11.26		12.41		4 / 1			
reaction time		interval	1.00	0.98	0.96	0.96	0.96	0.96	0.96	0.96	0.96	1.00	1.15	NR PB			2.94	2.88	2.92
wind	0.5 m/s	velocity	5.16	8.50	8.67	8.85	8.85	8.85	8.85	8.85	8.85	8.50	9.13	8.06			8.67	8.85	8.73

Heat 1 - 2018 Leise Prokop Memorial (St. Pölten, AUT) (TV Analysis)*Henson (2021) - Athlete First: 2018 year end hurdle report*

date	31-May-18	time	2.56	3.58	4.58	5.56	6.52	7.48	8.46	9.42	10.42	11.40		12.61		3 / 1			
reaction time		interval	1.02	1.00	0.98	0.96	0.96	0.98	0.96	1.00	0.98	1.21		NR PB			3.00	2.90	2.94
wind	0.1 m/s	velocity	5.08	8.33	8.50	8.67	8.85	8.85	8.67	8.85	8.50	8.67	8.68	7.93			8.50	8.79	8.67

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

date	24-Aug-17	time	2.56	3.58	4.56	5.54	6.52	7.50	8.50	9.54	10.54	11.58		12.80		2 / 5			
reaction time	0.134	interval	1.02	0.98	0.98	0.98	0.98	1.00	1.04	1.00	1.04	1.22					2.98	2.96	3.08
wind	-0.3 m/s	velocity	5.08	8.33	8.67	8.67	8.67	8.67	8.50	8.17	8.50	8.17	8.61	7.81			8.56	8.61	8.28

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

date	12-Aug-17	time	2.46	3.49	4.49	5.47	6.46	7.47	8.48	9.49	10.50	11.54		12.81		8 / 6			
reaction time	0.139	interval	1.03	1.00	0.98	0.99	1.01	1.01	1.01	1.01	1.04	1.27					3.01	3.01	3.06
wind	0.1 m/s	velocity	5.28	8.25	8.50	8.67	8.59	8.42	8.42	8.42	8.42	8.17	8.27	7.81			8.47	8.47	8.33

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

date	11-Aug-17	time	2.47	3.52	4.52	5.50	6.50	7.48	8.47	9.48	10.50	11.55		12.85		6 / 2			
reaction time	0.119	interval	1.05	1.00	0.98	1.00	0.98	0.99	1.01	1.02	1.05	1.30					3.03	2.97	3.08
wind	0.5 m/s	velocity	5.26	8.10	8.50	8.67	8.50	8.67	8.59	8.42	8.33	8.10	8.08	7.78			8.42	8.59	8.28

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

date	15-Jun-17	time	2.60	3.62	4.62	5.62	6.60	7.58	8.58	9.60	10.64	11.72		12.90		7 / 4			
reaction time	0.141	interval	1.02	1.00	1.00	0.98	0.98	1.00	1.02	1.04	1.08	1.18					3.02	2.96	3.14
wind	0.8 m/s	velocity	5.00	8.33	8.50	8.50	8.67	8.67	8.50	8.33	8.17	7.87	8.90	7.75			8.44	8.61	8.12

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

date	27-May-17	time	2.54	3.58	4.58	5.58	6.58	7.56	8.56	9.58	10.64	11.68		12.97		1 / 8			
reaction time	0.159	interval	1.04	1.00	1.00	1.00	0.98	1.00	1.02	1.06	1.04	1.29					3.04	2.98	3.12
wind	0.8 m/s	velocity	5.12	8.17	8.50	8.50	8.50	8.67	8.50	8.33	8.02	8.17	8.14	7.71			8.39	8.56	8.17

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

date	22-Jul-16	time	2.52	3.52	4.50	5.48	6.44	7.42	8.40	9.40	10.42	11.46		12.66		3 / 5			
reaction time	0.118	interval	1.00	0.98	0.98	0.96	0.98	0.98	1.00	1.02	1.04	1.20					2.96	2.92	3.06
wind	0.3 m/s	velocity	5.16	8.50	8.67	8.67	8.85	8.67	8.67	8.50	8.33	8.17	8.75	7.90			8.61	8.73	8.33

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

date	07-Jul-16	time	2.52	3.54	4.52	5.50	6.48	7.44	8.42	9.44	10.46	11.48		12.68		5 / 2			
reaction time	0.153	interval	1.02	0.98	0.98	0.98	0.98	0.96	0.98	1.02	1.02	1.02	1.20				2.98	2.92	3.06
wind	-0.7 m/s	velocity	5.16	8.33	8.67	8.67	8.67	8.85	8.67	8.33	8.33	8.33	8.75	7.89			8.56	8.73	8.33

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

date	16-Jun-16	time	2.50	3.52	4.52	5.52	6.50	7.50	8.50	9.52	10.54	11.58		12.90		3 / 4			
reaction time	0.148	interval	1.02	1.00	1.00	0.98	1.00	1.00	1.00	1.02	1.02	1.04	1.32				3.02	2.98	3.08
wind	-0.4 m/s	velocity	5.20	8.33	8.50	8.50	8.67	8.50	8.50	8.33	8.33	8.17	7.95	7.75			8.44	8.56	8.28

FINAL - 2016 Sparkassen Gala (Regensburg, GER)*Unfried (2016) - Austrian Athletics: athlete competition analysis*

date	05-Jun-16	time	2.58	3.58	4.58	5.55	6.51	7.48	8.47	9.47	10.49	11.51	12.63	/ 1				
reaction time		interval		1.00	1.00	0.97	0.96	0.97	0.99	1.00	1.02	1.02	1.12	NR	2.97	2.92	3.04	
wind	0.0 m/s	velocity	5.04	8.50	8.50	8.76	8.85	8.76	8.59	8.50	8.33	8.33	9.37	7.92	8.59	8.73	8.39	

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

date	28-May-16	time	2.52	3.52	4.54	5.52	6.50	7.50	8.48	9.50	10.54	11.58	12.85	8 / 6				
reaction time		interval		1.00	1.02	0.98	0.98	1.00	0.98	1.02	1.04	1.04	1.27		3.00	2.96	3.10	
wind	0.7 m/s	velocity	5.16	8.50	8.33	8.67	8.67	8.50	8.67	8.33	8.17	8.17	8.27	7.78	8.50	8.61	8.23	

FINAL - 2015 IAAF World Championships (Beijing, CHN)*Мирзоев (2015) - Временные характеристики технического мастерства бега на 100м с барьерами*

date	28-Aug-15	time	2.60	3.60	4.57	5.54	6.51	7.48	8.46	9.45	10.46	11.49	12.66	2 / 3				
reaction time	0.146	interval		1.00	0.97	0.97	0.97	0.97	0.98	0.99	1.01	1.03	1.17	NR	2.94	2.92	3.03	
wind	-0.3 m/s	velocity	5.00	8.50	8.76	8.76	8.76	8.76	8.67	8.59	8.42	8.25	8.97	7.90	8.67	8.73	8.42	

FINAL - 2013 European Indoor Championships (Göteborg, SWE)*Blomkvist (2013) - www.elitfandslag.se/SprintHäck/KortHäck.aspx*

date	01-Mar-13	time	2.62	3.65	4.64	5.64	6.62						7.94	5 / 2-1				
reaction time	0.154	interval		1.03	0.99	1.00	0.98						1.32	=PB	3.02			
		velocity	4.96	8.25	8.59	8.50	8.67						9.85	7.56	8.44			

Tamai, Nana (JPN) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****A FINAL - 2018 National Sports Festival (Fukui, JPN)***Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	08-Oct-18	time	2.69	3.79	4.88	5.95	7.03	8.09	9.22	10.38	11.51	12.66	13.94	2 / 7				
reaction time	0.132	interval		1.10	1.09	1.07	1.08	1.06	1.13	1.16	1.13	1.15	1.28		3.26	3.27	3.44	
wind	2.5 m/s	velocity	4.83	7.73	7.80	7.94	7.87	8.02	7.52	7.33	7.52	7.39	8.20	7.17	7.82	7.80	7.41	

Tamaoki, Nanako (JPN) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)***Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	01-May-22	time	2.64	3.73	4.80	5.84	6.87	7.95	9.00	10.10	11.19	12.29	13.52	2 / 5				
reaction time	0.143	interval		1.09	1.07	1.04	1.03	1.08	1.05	1.10	1.09	1.10	1.23		3.20	3.16	3.29	
wind	-0.6 m/s	velocity	4.92	7.80	7.94	8.17	8.25	7.87	8.10	7.73	7.80	7.73	8.17	7.40	7.97	8.07	7.75	

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

date	29-Apr-22	time	2.68	3.78	4.87	5.95	7.04	8.11	9.20	10.28	11.37	12.48	13.66	8 / 6				
reaction time	0.161	interval		1.10	1.09	1.08	1.09	1.07	1.09	1.08	1.09	1.11	1.18		3.27	3.25	3.28	
wind	-2.8 m/s	velocity	4.85	7.73	7.80	7.87	7.80	7.94	7.80	7.87	7.80	7.66	8.52	7.32	7.80	7.85	7.77	

Tanaka, Anri (JPN) (1994)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)***Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers*

date	29-Apr-16	time	2.66	3.78	4.86	5.92	6.99	8.06	9.12	10.20	11.28	12.40	13.66	7 / 5				
reaction time		interval		1.12	1.08	1.06	1.07	1.07	1.06	1.08	1.08	1.12	1.26		3.26	3.20	3.28	
wind	1.1 m/s	velocity	4.89	7.59	7.87	8.02	7.94	7.94	8.02	7.87	7.87	7.59	8.33	7.32	7.82	7.97	7.77	

FINAL - 2015 Japanese National Championships (Niigata, JPN)*Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions*

date	27-Jun-15	time	2.65	3.69	4.73	5.75	6.77	7.80	8.83	9.88	10.94	12.05	13.30	9 / 2				
reaction time	0.159	interval		1.04	1.04	1.02	1.02	1.03	1.03	1.05	1.06	1.11	1.25	PB	3.10	3.08	3.22	
wind	-0.2 m/s	velocity	4.91	8.17	8.17	8.33	8.33	8.25	8.25	8.10	8.02	7.66	8.40	7.52	8.23	8.28	7.92	

Tanaka, Hikari (JPN) (1998)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)***Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season*

date	29-Apr-22	time	2.72	3.85	4.93	6.01	7.08	8.15	9.25	10.36	11.48	12.62	13.87	2 / 7				
reaction time	0.185	interval	7 steps	1.13	1.08	1.08	1.07	1.07	1.10	1.11	1.12	1.14	1.25		3.29	3.24	3.37	
wind	0.3 m/s	velocity	4.78	7.52	7.87	7.87	7.94	7.94	7.73	7.66	7.59	7.46	8.04	7.21	7.75	7.87	7.57	

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

date	09-May-21	time	2.67	3.75	4.81	5.87	6.92	7.98	9.06	10.14	11.22	12.36	13.82	2 / 9				
reaction time	0.140	interval	7 steps	1.08	1.06	1.06	1.05	1.06	1.08	1.08	1.08	1.14	1.46		3.20	3.19	3.30	
wind	-0.8 m/s	velocity	4.87	7.87	8.02	8.02	8.10	8.02	7.87	7.87	7.87	7.46	6.88	7.24	7.97	7.99	7.73	

FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	29-Apr-21	time	2.67	3.72	4.80	5.86	6.92	7.98	9.05	10.14	11.23	12.33	13.55	7 / 8				
reaction time		interval	7 steps	1.05	1.08	1.06	1.06	1.06	1.07	1.09	1.09	1.10	1.22		3.19	3.19	3.28	
wind	1.6 m/s	velocity	4.87	8.10	7.87	8.02	8.02	8.02	7.94	7.80	7.80	7.73	8.24	7.38	7.99	7.99	7.77	

A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)*Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

date	28-Apr-19	time	2.70	3.78	4.85	5.91	6.97	8.03	9.11	10.20	12.29	12.41	13.65	5 / 8				
reaction time		interval	7 steps	1.08	1.07	1.06	1.06	1.06	1.08	1.09	2.09	0.12	1.24		3.21	3.20	3.30	
wind	0.6 m/s	velocity	4.81	7.87	7.94	8.02	8.02	8.02	7.87	7.80	4.07	70.83	8.47	7.33	7.94	7.97	7.73	

FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)*Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad*

date	24-Jun-18	time	2.68	3.79	4.87	5.92	6.97	8.03	9.08	10.14	11.22	12.31	13.52	6 / 6				
reaction time	0.190	interval		1.11	1.08	1.05	1.05	1.06	1.05	1.06	1.08	1.09	1.21		3.24	3.16	3.23	

wind	1.1 m/s	velocity	4.85	7.66	7.87	8.10	8.10	8.02	8.10	8.02	7.87	7.80	8.68	7.40		7.87	8.07	7.89	
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)															(2017) - tfdata-store.com/2017/05/08/post-413/				
date	07-May-17	time	2.76	3.89	5.01	6.13	7.25	8.36	9.49	10.64	11.78	12.94		14.21		7 / 7			
reaction time		interval		1.13	1.12	1.12	1.12	1.11	1.13	1.15	1.14	1.16	1.27				3.37	3.36	3.45
wind	-0.2 m/s	velocity	4.71	7.52	7.59	7.59	7.59	7.66	7.52	7.39	7.46	7.33	8.27	7.04			7.57	7.59	7.39
FINAL - 2017 Michitaka Memorial (Osaka, JPN)															(2017) - tfdata-store.com/2017/05/08/post-413/				
date	07-May-17	time	2.75	3.87	4.99	6.11	7.23	8.34	9.47	10.61	11.75	12.92		14.18		3 / 8			
reaction time		interval		1.12	1.12	1.12	1.12	1.11	1.13	1.14	1.14	1.17	1.26				3.36	3.36	3.45
wind	-0.6 m/s	velocity	4.73	7.59	7.59	7.59	7.59	7.66	7.52	7.46	7.46	7.26	8.33	7.05			7.59	7.59	7.39
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)															(2017) - tfdata-store.com/2017/05/01/458/				
date	29-Apr-17	time	2.72	3.84	4.93	6.00	7.08	8.17	9.25	10.36	11.47	12.59		13.80		8 / 8			
reaction time		interval		1.12	1.09	1.07	1.08	1.09	1.08	1.11	1.11	1.12	1.21				3.28	3.25	3.34
wind	4.1 m/s	velocity	4.78	7.59	7.80	7.94	7.87	7.80	7.87	7.66	7.66	7.59	8.68	7.25			7.77	7.85	7.63
FINAL - 2017 Japanese National Indoor Junior Championships (Osaka, JPN)															(2017.02.04) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en				
date	04-Feb-17	time	2.70	3.82	4.92	6.02	7.10							8.55		3 / 1			
reaction time		interval		1.12	1.10	1.10	1.08						1.45	PB			3.32		
		velocity	4.81	7.59	7.73	7.73	7.87						8.97	11.70			7.68		
FINAL - 2016 Japanese National High School Championships (Okayama, JPN)															Kota (2016) - 69th high school championships: JAF scientific committee- biomechanics data				
date	02-Aug-16	time	2.71	3.82	4.90	5.97	7.02	8.09	9.16	10.23	11.34	12.42		13.64		4 / 2			
reaction time	0.153	interval		1.11	1.08	1.07	1.05	1.07	1.07	1.07	1.11	1.08	1.22	PB			3.26	3.19	3.26
wind	1.5 m/s	velocity	4.80	7.66	7.87	7.94	8.10	7.94	7.94	7.94	7.66	7.87	8.61	7.33			7.82	7.99	7.82
FINAL - 2016 Saitama Prefecture High School Meeting (Kumagaya, JPN)															(2016.05.11) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en				
date	10-May-16	time	2.73	3.85	4.96	6.04	7.13	8.23	9.33	10.45	11.57	12.71		13.92		4 / 1			
reaction time		interval		1.12	1.11	1.08	1.09	1.10	1.10	1.12	1.12	1.14	1.21				3.31	3.29	3.38
wind	1.8 m/s	velocity	4.76	7.59	7.66	7.87	7.80	7.73	7.73	7.59	7.59	7.46	8.68	7.18			7.70	7.75	7.54
Tanaka, Kiyono (JPN) (2002)																			
FINAL - 2022 Japanese National Championships (Osaka, JPN)															Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season				
date	11-Jun-22	time	2.60	3.69	4.75	5.78	6.82	7.87	8.92	10.00	11.07	12.18		13.42		2 / 6			
reaction time	0.148	interval		1.09	1.06	1.03	1.04	1.05	1.05	1.08	1.07	1.11	1.24				3.18	3.14	3.26
wind	0.8 m/s	velocity	5.00	7.80	8.02	8.25	8.17	8.10	8.10	7.87	7.94	7.66	8.10	7.45			8.02	8.12	7.82
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)															Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season				
date	01-Jun-21	time	2.64	3.72	4.76	5.82	6.86	7.93	8.99	10.08	11.17	12.27		13.49		2 / 8			
reaction time	0.171	interval		1.08	1.04	1.06	1.04	1.07	1.06	1.09	1.09	1.10	1.22	PB			3.18	3.17	3.28
wind	0.3 m/s	velocity	4.92	7.87	8.17	8.02	8.17	7.94	8.02	7.80	7.80	7.73	8.24	7.41			8.02	8.04	7.77
Tanaka, Yoko (JPN)																			
Heat 3 - 2016 Japanese National Junior Championships (Mizuho, JPN)															(2016.11.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en				
date	21-Oct-16	time	2.74	3.88	4.99	6.09	7.19	8.30	9.42	10.54	11.67	12.82		14.13		3 / 2			
reaction time		interval		1.14	1.11	1.10	1.10	1.11	1.12	1.12	1.13	1.15	1.31				3.35	3.33	3.40
wind	1.5 m/s	velocity	4.74	7.46	7.66	7.73	7.73	7.66	7.59	7.59	7.52	7.39	8.02	7.08			7.61	7.66	7.50
Tanaka, Yumi (JPN) (1998)																			
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)															Paris 2024 Olympic Games - Results Book (2024)				
date	09-Aug-24	time	2.43	3.49	4.49	5.48	6.46	7.46	8.47	9.50	10.55	11.60		12.91		9 / 7			
reaction time	0.152	interval		1.06	1.00	0.99	0.98	1.00	1.01	1.03	1.05	1.05	1.31				3.05	2.99	3.13
wind	0.5 m/s	velocity	5.35	8.02	8.50	8.59	8.67	8.50	8.42	8.25	8.10	8.10	7.67	7.75			8.36	8.53	8.15
Repechage 3 - 2024 Olympic Games (Paris, FRA)															Paris 2024 Olympic Games - Results Book (2024)				
date	08-Aug-24	time	2.46	3.52	4.52	5.52	6.52	7.51	8.52	9.54	10.57	11.62		12.89		8 / 2			
reaction time	0.146	interval		1.06	1.00	1.00	1.00	0.99	1.01	1.02	1.03	1.05	1.27				3.06	3.00	3.10
wind	-0.2 m/s	velocity	5.28	8.02	8.50	8.50	8.50	8.59	8.42	8.33	8.25	8.10	7.91	7.76			8.33	8.50	8.23
Heat 2 - 2024 Olympic Games (Paris, FRA)															Paris 2024 Olympic Games - Results Book (2024)				
date	07-Aug-24	time	2.44	3.49	4.49	5.49	6.46	7.45	8.46	9.48	10.55	11.62		12.90		4 / 5			
reaction time	0.151	interval		1.05	1.00	1.00	0.97	0.99	1.01	1.02	1.07	1.07	1.28				3.05	2.97	3.16
wind	0.0 m/s	velocity	5.33	8.10	8.50	8.50	8.76	8.59	8.42	8.33	7.94	7.94	7.85	7.75			8.36	8.59	8.07
Heat 5 - 2023 World Athletics Championships (Budapest, HUN)															Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season				
date	22-Aug-23	time	2.68	3.72	4.74	5.73	6.74	7.76	8.80	9.81	10.90	11.97		13.12		6 / 7			
reaction time	0.196	interval		1.04	1.02	0.99	1.01	1.02	1.04	1.01	1.09	1.07	1.15				3.05	3.07	3.17
wind	0.4 m/s	velocity	4.85	8.17	8.33	8.59	8.42	8.33	8.17	8.42	7.80	7.94	8.74	7.62			8.36	8.31	8.04
FINAL - 2023 Japanese National Championships (Osaka, JPN)															Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season				
date	03-Jun-23	time	2.62	3.65	4.65	5.63	6.61	7.62	8.63	9.66	10.69	11.77		12.96		4 / 3			
reaction time	0.162	interval		1.03	1.00	0.98	0.98	1.01	1.01	1.03	1.03	1.08	1.19				3.01	3.00	3.14

wind	-1.2 m/s	velocity	4.96	8.25	8.50	8.67	8.67	8.42	8.42	8.25	8.25	7.87	8.45	7.72		8.47	8.50	8.12
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)																		
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)																		
date	21-May-23	time	2.58	3.62	4.64	5.63	6.63	7.62	8.61	9.62	10.67	11.75		12.89	4 / 2			
reaction time	0.146	interval	1.04	1.02	0.99	1.00	0.99	0.99	1.01	1.05	1.08	1.14	PB			3.05	2.98	3.14
wind	0.4 m/s	velocity	5.04	8.17	8.33	8.59	8.50	8.59	8.59	8.42	8.10	7.87	8.82	7.76		8.36	8.56	8.12
FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)																		
FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)																		
date	07-May-23	time	2.61	3.65	4.67	5.67	6.66	7.68	8.69	9.70	10.71	11.76		12.91	4 / 2			
reaction time	0.147	interval	1.04	1.02	1.00	0.99	1.02	1.01	1.01	1.01	1.01	1.05	1.15	PB		3.06	3.02	3.07
wind	0.7 m/s	velocity	4.98	8.17	8.33	8.50	8.59	8.33	8.42	8.42	8.42	8.10	8.74	7.75		8.33	8.44	8.31
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)																		
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)																		
date	29-Apr-23	time	2.62	3.66	4.68	5.70	6.70	7.69	8.70	9.73	10.76	11.82		12.97	4 / 1			
reaction time	0.155	interval	1.04	1.02	1.02	1.00	0.99	1.01	1.03	1.03	1.06	1.15	PB			3.08	3.00	3.12
wind	0.6 m/s	velocity	4.96	8.17	8.33	8.33	8.50	8.59	8.42	8.25	8.25	8.02	8.74	7.71		8.28	8.50	8.17
FINAL - 2022 Japanese National Championships (Osaka, JPN)																		
FINAL - 2022 Japanese National Championships (Osaka, JPN)																		
date	11-Jun-22	time	2.69	3.75	4.81	5.86	6.88	7.93	8.95	10.01	11.09	12.17		13.35	3 / 3			
reaction time	0.175	interval	1.06	1.06	1.05	1.02	1.05	1.02	1.06	1.08	1.08	1.18				3.17	3.09	3.22
wind	0.8 m/s	velocity	4.83	8.02	8.02	8.10	8.33	8.10	8.33	8.02	7.87	7.87	8.52	7.49		8.04	8.25	7.92
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)																		
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)																		
date	08-May-22	time	2.67	3.79	4.84	5.89	6.92	7.97	9.01	10.06	11.13	12.20		13.39	8 / 7			
reaction time	0.175	interval	1.12	1.05	1.05	1.03	1.05	1.04	1.05	1.07	1.07	1.19				3.22	3.12	3.19
wind	-0.1 m/s	velocity	4.87	7.59	8.10	8.10	8.25	8.10	8.17	8.10	7.94	7.94	8.45	7.47		7.92	8.17	7.99
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)																		
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)																		
date	01-May-22	time	2.68	3.75	4.80	5.84	6.87	7.90	8.98	10.05	11.13	12.25		13.49	7 / 4			
reaction time	0.172	interval	1.07	1.05	1.04	1.03	1.03	1.08	1.07	1.08	1.12	1.24				3.16	3.14	3.27
wind	-0.6 m/s	velocity	4.85	7.94	8.10	8.17	8.25	8.25	7.87	7.94	7.87	7.59	8.10	7.41		8.07	8.12	7.80
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)																		
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)																		
date	29-Apr-22	time	2.66	3.73	4.80	5.84	6.89	7.95	9.00	10.11	11.20	12.28		13.52	7 / 5			
reaction time	0.154	interval	1.07	1.07	1.04	1.05	1.06	1.05	1.11	1.09	1.08	1.24				3.18	3.16	3.28
wind	-2.8 m/s	velocity	4.89	7.94	7.94	8.17	8.10	8.02	8.10	7.66	7.80	7.87	8.10	7.40		8.02	8.07	7.77
FINAL - 2021 Japanese National Championships (Osaka, JPN)																		
FINAL - 2021 Japanese National Championships (Osaka, JPN)																		
date	27-Jun-21	time	2.64	3.72	4.78	5.83	6.86	7.92	8.98	10.07	11.17	12.30		13.57	9 / 6			
reaction time	0.127	interval	1.08	1.06	1.05	1.03	1.06	1.06	1.09	1.10	1.13	1.27				3.19	3.15	3.32
wind	0.0 m/s	velocity	4.92	7.87	8.02	8.10	8.25	8.02	8.02	7.80	7.73	7.52	7.91	7.37		7.99	8.10	7.68
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)																		
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)																		
date	01-Jun-21	time	2.64	3.67	4.73	5.77	6.79	7.82	8.84	9.90	10.97	12.05		13.23	5 / 3			
reaction time	0.157	interval	1.03	1.06	1.04	1.02	1.03	1.02	1.06	1.07	1.08	1.18				3.13	3.07	3.21
wind	0.3 m/s	velocity	4.92	8.25	8.02	8.17	8.33	8.25	8.33	8.02	7.94	7.87	8.52	7.56		8.15	8.31	7.94
FINAL - 2020 Japanese National Championships (Niigata, JPN)																		
FINAL - 2020 Japanese National Championships (Niigata, JPN)																		
date	03-Oct-20	time	2.64	3.69	4.74	5.77	6.82	7.85	8.90	9.95	11.02	12.13		13.37	3 / 4			
reaction time	0.150	interval	1.05	1.05	1.03	1.05	1.03	1.05	1.05	1.05	1.07	1.11	1.24			3.13	3.13	3.23
wind	-0.1 m/s	velocity	4.92	8.10	8.10	8.25	8.10	8.25	8.10	8.10	7.94	7.66	8.10	7.48		8.15	8.15	7.89
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)																		
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)																		
date	23-Aug-20	time	2.62	3.67	4.72	5.73	6.77	7.82	8.88	9.92	10.98	12.06		13.27	3 / 4			
reaction time	0.157	interval	1.05	1.05	1.01	1.04	1.05	1.06	1.04	1.06	1.08	1.21				3.11	3.15	3.18
wind	0.3 m/s	velocity	4.96	8.10	8.10	8.42	8.17	8.10	8.02	8.17	8.02	7.87	8.31	7.54		8.20	8.10	8.02
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)																		
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)																		
date	19-May-19	time	2.63	3.65	4.68	5.69	6.71	7.74	8.76	9.83	10.90	12.01		13.22	1 / 7			
reaction time	0.148	interval	1.02	1.03	1.01	1.02	1.03	1.02	1.07	1.07	1.11	1.21	PB			3.06	3.07	3.25
wind	0.4 m/s	velocity	4.94	8.33	8.25	8.42	8.33	8.25	8.33	7.94	7.94	7.66	8.68	7.56		8.33	8.31	7.85
FINAL - 2019 Kinami Memorial (Osaka, JPN)																		
FINAL - 2019 Kinami Memorial (Osaka, JPN)																		
date	06-May-19	time	2.59	3.65	4.71	5.74	6.78	7.82	8.86	9.90	10.99	12.09		13.33	4 / 5			
reaction time		interval	1.06	1.06	1.03	1.04	1.04	1.04	1.04	1.04	1.09	1.10	1.24	PB		3.15	3.12	3.23
wind	0.6 m/s	velocity	5.02	8.02	8.02	8.25	8.17	8.17	8.17	8.17	7.80	7.73	8.47	7.50		8.10	8.17	7.89
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																		
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																		
date	28-Apr-19	time	2.62	3.70	4.73	5.78	6.80											

date	06-May-18	time	2.70	3.77	4.82	5.87	6.93	7.98	9.03	10.11	11.18	12.28		13.47	5 / 4			
reaction time		interval		1.07	1.05	1.05	1.06	1.05	1.05	1.08	1.07	1.10	1.19			3.17	3.16	3.25
wind	-0.5 m/s	velocity	4.81	7.94	8.10	8.10	8.02	8.10	8.10	7.87	7.94	7.73	8.82	7.42		8.04	8.07	7.85
FINAL - 2017 Japanese National Championships (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/07/19/post-1068/</i>				
date	25-Jun-17	time	2.67	3.75	4.82	5.88	6.94	8.01	9.09	10.20	11.32	12.44		13.71	2 / 7			
reaction time	0.156	interval		1.08	1.07	1.06	1.06	1.07	1.08	1.11	1.12	1.12	1.27			3.21	3.21	3.35
wind	0.4 m/s	velocity	4.87	7.87	7.94	8.02	8.02	7.94	7.87	7.66	7.59	7.59	8.27	7.29		7.94	7.94	7.61
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>				
date	11-May-17	time	2.66	3.76	4.84	5.92	6.98	8.04	9.12	10.20	11.31	12.43		13.70	6 / 1			
reaction time		interval		1.10	1.08	1.08	1.06	1.06	1.08	1.08	1.11	1.12	1.27			3.26	3.20	3.31
wind	-1.2 m/s	velocity	4.89	7.73	7.87	7.87	8.02	8.02	7.87	7.87	7.66	7.59	8.27	7.30		7.82	7.97	7.70
FINAL - 2016 Japanese National Championships (Nagoya, JPN)														<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>				
date	26-Jun-16	time	2.64	3.72	4.77	5.82	6.87	7.93	9.00	10.07	11.16	12.26		13.45	2 / 6			
reaction time	0.151	interval		1.08	1.05	1.05	1.05	1.06	1.07	1.07	1.09	1.10	1.19			3.18	3.18	3.26
wind	2.1 m/s	velocity	4.92	7.87	8.10	8.10	8.10	8.02	7.94	7.94	7.80	7.73	8.82	7.43		8.02	8.02	7.82
Semi-Final 3 - 2016 Japanese National Junior Championships (Mizuho, JPN)														<i>(2016.10.22) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	21-Oct-16	time	2.67	3.76	4.86	5.91	6.98	8.05	9.13	10.20	11.27	12.39		13.65	4 / 1			
reaction time		interval		1.09	1.10	1.05	1.07	1.07	1.08	1.07	1.07	1.12	1.26			3.24	3.22	3.26
wind	0.9 m/s	velocity	4.87	7.80	7.73	8.10	7.94	7.94	7.87	7.94	7.94	7.59	8.33	7.33		7.87	7.92	7.82
Heat 4 - 2016 Japanese National Junior Championships (Mizuho, JPN)														<i>(2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	21-Oct-16	time	2.66	3.75	4.82	5.89	6.95	8.03	9.12	10.21	11.31	12.44		13.73	8 / 1			
reaction time		interval		1.09	1.07	1.07	1.06	1.08	1.09	1.09	1.10	1.13	1.29			3.23	3.23	3.32
wind	1.5 m/s	velocity	4.89	7.80	7.94	7.94	8.02	7.87	7.80	7.80	7.73	7.52	8.14	7.28		7.89	7.89	7.68
FINAL - 2016 Japanese National High School Championships (Okayama, JPN)														<i>Kota (2016) - 69th high school championships: JAF scientific committee- biomechanics data</i>				
date	02-Aug-16	time	2.64	3.71	4.78	5.84	6.89	7.94	9.00	10.09	11.18	12.26		13.50	7 / 1			
reaction time	0.156	interval		1.07	1.07	1.06	1.05	1.05	1.06	1.09	1.09	1.08	1.24			3.20	3.16	3.26
wind	1.5 m/s	velocity	4.92	7.94	7.94	8.02	8.10	8.10	8.02	7.80	7.80	7.87	8.47	7.41		7.97	8.07	7.82
Semi-Final 1 - 2016 IAAF World Junior Championships (Bydgoszcz, POL)														<i>(2016.07.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	23-Jul-16	time	2.63	3.69	4.75	5.80	6.82	7.90	8.95	10.03	11.14	12.25		13.46	9 / 4			
reaction time	0.138	interval		1.06	1.06	1.05	1.02	1.08	1.05	1.08	1.11	1.11	1.21	PB		3.17	3.15	3.30
wind	0.6 m/s	velocity	4.94	8.02	8.02	8.10	8.33	7.87	8.10	7.87	7.66	7.66	8.68	7.43		8.04	8.10	7.73
FINAL - 2016 Kinki Area High School Championships (Kobe, JPN)														<i>(2016.06.19) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	19-Jun-16	time	2.63	3.73	4.81	5.87	6.94	8.01	9.13	10.23	11.34	12.49		13.77	7 / 1			
reaction time		interval		1.10	1.08	1.06	1.07	1.07	1.12	1.10	1.11	1.15	1.28			3.24	3.26	3.36
wind	-0.6 m/s	velocity	4.94	7.73	7.87	8.02	7.94	7.94	7.59	7.73	7.66	7.39	8.20	7.26		7.87	7.82	7.59
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)														<i>Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics data</i>				
date	02-Aug-15	time	2.67	3.75	4.84	5.92	6.99	8.04	9.22	10.35	11.47	12.60		13.87	6 / 1			
reaction time		interval		1.08	1.09	1.08	1.07	1.05	1.18	1.13	1.12	1.13	1.27			3.25	3.30	3.38
wind	0.9 m/s	velocity	4.87	7.87	7.80	7.87	7.94	8.10	7.20	7.52	7.59	7.52	8.27	7.21		7.85	7.73	7.54
Tanaka, Yuzo (JPN)																		
Semi-Final 3 - 2016 Japanese National Junior Championships (Mizuho, JPN)														<i>(2016.10.22) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	21-Oct-16	time	2.72	3.83	4.93	6.03	7.12	8.22	9.32	10.44	11.56	12.70		13.93	5 / 2			
reaction time		interval		1.11	1.10	1.10	1.09	1.10	1.10	1.12	1.12	1.14	1.23			3.31	3.29	3.38
wind	0.9 m/s	velocity	4.78	7.66	7.73	7.73	7.80	7.73	7.73	7.59	7.59	7.46	8.54	7.18		7.70	7.75	7.54
Taninaka, Tennka (JPN) (2006)																		
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)														<i>Takashima (2024) - national high school sports festival - biomechanics data</i>				
date	01-Aug-24	time	2.66	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
wind	1.0 m/s	velocity	4.89	8.10	8.10	8.10	8.10	8.17	7.80	7.87	7.66	7.59	8.10	7.39		8.10	8.02	7.70
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)														<i>Kishima (2022) - national high school championships biomechanics data collection</i>				
date	07-Aug-22	time	2.64	3.74	4.82	5.89	6.97	8.06	9.16	10.29	11.40	12.59		14.11	5 / 7			
reaction time	0.147	interval		1.10	1.08	1.07	1.08	1.09	1.10	1.13	1.11	1.19	1.52			3.25	3.27	3.43
wind	-1.5 m/s	velocity	4.92	7.73	7.87	7.94	7.87	7.80	7.73	7.52	7.66	7.14	6.61	7.09		7.85	7.80	7.43
Tapper, Megan (JAM) (1994)																		
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	27-Apr-24	time	2.57	3.61	4.61	5.57	6.54	7.54	8.56	9.58	10.61	11.64		12.83	8 / 8-7			
reaction time	0.123	interval		1.04	1.00	0.96	0.97	1.00	1.02	1.02	1.03	1.03	1.19			3.00	2.99	3.08
wind	0.3 m/s	velocity	5.06	8.17	8.50	8.85	8.76	8.50	8.33	8.33	8.25	8.25	8.45	7.79		8.50	8.53	8.28
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)														<i>Omega Timing (2024) - diamond league race analysis</i>				

date	20-Apr-24	time	2.45	3.50	4.50	5.50	6.49	7.49	8.49	9.51	10.53	11.58	12.88	7 / 8			
reaction time	0.144	interval		1.05	1.00	1.00	0.99	1.00	1.00	1.02	1.02	1.05	1.30		3.05	2.99	3.09
wind	-0.2 m/s	velocity	5.31	8.10	8.50	8.50	8.59	8.50	8.50	8.33	8.33	8.10	7.73	7.76	8.36	8.53	8.25
FINAL - 2024 Millrose Games (New York, NY) (TV Analysis)			<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>														
date	11-Feb-24	time	2.60	3.60	4.62	5.60	6.56							7.98	8 / 7		
reaction time	0.190	interval		1.00	1.02	0.98	0.96						1.42	PB	3.00		
		velocity	5.00	8.50	8.33	8.67	8.85						9.15	7.52	8.50		
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)			<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>														
date	04-Feb-24	time	2.55	3.60	4.62	5.62	6.58							8.02	7 / 7		
reaction time	0.189	interval		1.05	1.02	1.00	0.96						1.44	PB	3.07		
		velocity	5.10	8.10	8.33	8.50	8.85						9.03	7.48	8.31		
FINAL - 2023 Prefontaine Classic (Eugene, OR)			<i>Omega Timing (2023) - diamond league race analysis</i>														
date	17-Sep-23	time	2.43	3.47	4.46	5.42	6.37	7.32	8.28	9.25	10.24	11.24	12.48	9 / 5			
reaction time	0.148	interval		1.04	0.99	0.96	0.95	0.95	0.96	0.97	0.99	1.00	1.24		2.99	2.86	2.96
wind	1.8 m/s	velocity	5.35	8.17	8.59	8.85	8.95	8.95	8.85	8.76	8.59	8.50	8.10	8.01	8.53	8.92	8.61
FINAL - 2023 Weltklasse (Zürich, SU)			<i>Omega Timing (2023) - diamond league race analysis</i>														
date	31-Aug-23	time	2.43	3.46	4.45	5.42	6.39	7.35	8.34	9.34	10.36	11.39	12.64	8 / 5			
reaction time	0.150	interval		1.03	0.99	0.97	0.96	0.96	0.99	1.00	1.02	1.03	1.25		2.99	2.92	3.05
wind	-0.2 m/s	velocity	5.35	8.25	8.59	8.76	8.76	8.85	8.59	8.50	8.33	8.25	8.04	7.91	8.53	8.73	8.36
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>														
date	23-Aug-23	time	2.53	3.53	4.52	5.48	6.44	7.40	8.38	9.37	10.37	11.40	12.55	5 / 4			
reaction time	0.162	interval		1.00	0.99	0.96	0.96	0.96	0.98	0.99	1.00	1.03	1.15		2.95	2.90	3.02
wind	0.5 m/s	velocity	5.14	8.50	8.59	8.85	8.85	8.85	8.67	8.59	8.50	8.25	8.74	7.97	8.64	8.79	8.44
Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>														
date	22-Aug-23	time	2.58	3.58	4.56	5.53	6.50	7.45	8.42	9.38	10.36	11.41	12.51	3 / 2			
reaction time	0.168	interval		1.00	0.98	0.97	0.97	0.95	0.97	0.96	0.98	1.05	1.10		2.95	2.89	2.99
wind	0.4 m/s	velocity	5.04	8.50	8.67	8.76	8.76	8.95	8.76	8.85	8.67	8.10	9.14	7.99	8.64	8.82	8.53
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)			<i>Omega Timing (2023) - diamond league race analysis</i>														
date	16-Jul-23	time	2.41	3.45	4.43	5.40	6.36	7.32	8.28	9.25	10.24	11.24	12.49	8 / 4			
reaction time	0.150	interval		1.04	0.98	0.97	0.96	0.96	0.96	0.97	0.99	1.00	1.25		2.99	2.88	2.96
wind	0.9 m/s	velocity	5.39	8.17	8.67	8.76	8.85	8.85	8.85	8.76	8.59	8.50	8.04	8.01	8.53	8.85	8.61
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>														
date	24-Jun-23	time	2.53	3.57	4.55	5.53	6.51	7.49	8.48	9.49	10.51	11.53	12.68	6 / 5			
reaction time	0.216	interval		1.04	0.98	0.98	0.98	0.98	0.99	1.01	1.02	1.02	1.15		3.00	2.95	3.05
wind	2.8 m/s	velocity	5.14	8.17	8.67	8.67	8.67	8.67	8.59	8.42	8.33	8.33	8.74	7.89	8.50	8.64	8.36
FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>														
date	21-May-23	time	2.53	3.54	4.49	5.44	6.39	7.37	8.34	9.32	10.33	11.35	12.47	6 / 4			
reaction time	0.183	interval		1.01	0.95	0.95	0.95	0.98	0.97	0.98	1.01	1.02	1.12		2.91	2.90	3.01
wind	3.5 m/s	velocity	5.14	8.42	8.95	8.95	8.95	8.67	8.76	8.67	8.42	8.33	8.97	8.02	8.76	8.79	8.47
FINAL - 2023 Doha Diamond League (Doha, QAT) (TV Analysis)			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>														
date	05-May-23	time	2.60	3.60	4.60	5.60	6.56	7.58	8.58	9.58	10.58	11.62	12.76	8 / 4			
reaction time	0.163	interval		1.00	1.00	1.00	0.96	1.02	1.00	1.00	1.00	1.04	1.14		3.00	2.98	3.04
wind	1.1 m/s	velocity	5.00	8.50	8.50	8.50	8.85	8.33	8.50	8.50	8.50	8.17	8.82	7.84	8.50	8.56	8.39
FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>														
date	04-Sep-22	time	2.52	3.54	4.52	5.48	6.44	7.44	8.44	9.44	10.42	11.46	12.66	6 / 3			
reaction time	0.146	interval		1.02	0.98	0.96	0.96	1.00	1.00	1.00	0.98	1.04	1.20		2.96	2.96	3.02
wind	-0.3 m/s	velocity	5.16	8.33	8.67	8.85	8.85	8.50	8.50	8.50	8.67	8.17	8.38	7.90	8.61	8.61	8.44
FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>														
date	02-Sep-22	time	2.47	3.47	4.44	5.42	6.40	7.37	8.34	9.31	10.31	11.31	12.51	2 / 5			
reaction time	0.163	interval		1.00	0.97	0.98	0.98	0.97	0.97	0.97	1.00	1.00	1.20	PB	2.95	2.92	2.97
wind	0.1 m/s	velocity	5.26	8.50	8.76	8.67	8.67	8.76	8.76	8.76	8.50	8.50	8.38	7.99	8.64	8.73	8.59
FINAL - 2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>														
date	07-Aug-22	time	2.52	3.52	4.48	5.44	6.40	7.38	8.36	9.36	10.40	11.44	12.67	4 / 4			
reaction time	0.154	interval		1.00	0.96	0.96	0.96	0.98	0.98	1.00	1.04	1.04	1.23		2.92	2.92	3.08
wind	-0.2 m/s	velocity	5.16	8.50	8.85	8.85	8.85	8.67	8.67	8.50	8.17	8.17	8.17	7.89	8.73	8.73	8.28
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>														
date	24-Jul-22	time	2.46	3.46	4.44	5.42	6.38	7.32	8.30	9.27	10.29	11.32	12.52	4 / 3			
reaction time	0.173	interval		1.00	0.98	0.98	0.96	0.94	0.98	0.97	1.02	1.03	1.20	PB	2.96	2.88	3.02
wind	-0.1 m/s	velocity	5.28	8.50	8.67	8.67	8.85	9.04	8.67	8.76	8.33	8.25	8.38	7.99	8.61	8.85	8.44

Heat 5 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

date	23-Jul-22	time	2.53	3.53	4.53	5.50	6.50	7.47	8.47	9.47	10.50	11.50	12.73	2 / 2			
reaction time	0.166	interval		1.00	1.00	0.97	1.00	0.97	1.00	1.00	1.03	1.00	1.23	2.97	2.97	3.03	
wind	0.5 m/s	velocity	5.14	8.50	8.50	8.76	8.50	8.76	8.50	8.50	8.25	8.50	8.17	7.86	8.59	8.59	8.42

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

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

date	09-Jun-22	time	2.50	3.53	4.53	5.53	6.53	7.53	8.57	9.60	10.67	11.80	13.08	3 / 7			
reaction time	0.155	interval		1.03	1.00	1.00	1.00	1.00	1.04	1.03	1.07	1.13	1.28	3.03	3.04	3.23	
wind	0.1 m/s	velocity	5.20	8.25	8.50	8.50	8.50	8.50	8.17	8.25	7.94	7.52	7.85	7.65	8.42	8.39	7.89

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

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

date	13-May-22	time	2.52	3.58	4.60	5.60	6.58	7.57	8.56	9.58	10.61	11.67	12.92	3 / 8			
reaction time	0.153	interval		1.06	1.02	1.00	0.98	0.99	0.99	1.02	1.03	1.06	1.25	3.08	2.96	3.11	
wind	3.8 m/s	velocity	5.16	8.02	8.33	8.50	8.67	8.59	8.59	8.33	8.25	8.02	8.04	7.74	8.28	8.61	8.20

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

FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)

date	08-May-22	time	2.66	3.71	4.73	5.73	6.76	7.78	8.80	9.86	10.92	12.02	13.30	6 / 5			
reaction time	0.186	interval		1.05	1.02	1.00	1.03	1.02	1.02	1.06	1.06	1.10	1.28	3.07	3.07	3.22	
wind	-0.1 m/s	velocity	4.89	8.10	8.33	8.50	8.25	8.33	8.33	8.02	8.02	7.73	7.85	7.52	8.31	8.31	7.92

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

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

date	09-Sep-21	time	2.48	3.50	4.48	5.44	6.40	7.36	8.32	9.30	10.30	11.32	12.55	5 / 3			
reaction time	0.151	interval		1.02	0.98	0.96	0.96	0.96	0.96	0.98	1.00	1.02	1.23	2.96	2.88	3.00	
wind	0.4 m/s	velocity	5.24	8.33	8.67	8.85	8.85	8.85	8.85	8.67	8.50	8.33	8.17	7.97	8.61	8.85	8.50

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

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

date	03-Sep-21	time	2.52	3.54	4.52	5.48	6.46	7.44	8.44	9.46	10.48	11.54	12.77	6 / 3			
reaction time	0.154	interval		1.02	0.98	0.96	0.98	0.98	1.00	1.02	1.02	1.06	1.23	2.96	2.96	3.10	
wind	0.7 m/s	velocity	5.16	8.33	8.67	8.85	8.67	8.67	8.50	8.33	8.33	8.02	8.17	7.83	8.61	8.61	8.23

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

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

date	28-Aug-21	time	2.52	3.52	4.52	5.50	6.46	7.42	8.40	9.40	10.40	11.44	12.66	5 / 3			
reaction time	0.152	interval		1.00	1.00	0.98	0.96	0.96	0.98	1.00	1.00	1.04	1.22	2.98	2.90	3.04	
wind	1.7 m/s	velocity	5.16	8.50	8.50	8.67	8.85	8.85	8.67	8.50	8.50	8.17	8.24	7.90	8.56	8.79	8.39

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

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

date	02-Aug-21	time	2.48	3.48	4.46	5.42	6.38	7.34	8.30	9.30	10.30	11.32	12.55	9 / 3			
reaction time	0.166	interval		1.00	0.98	0.96	0.96	0.96	0.96	1.00	1.00	1.02	1.23	2.94	2.88	3.02	
wind	-0.3 m/s	velocity	5.24	8.50	8.67	8.85	8.85	8.85	8.85	8.50	8.50	8.33	8.17	7.97	8.67	8.85	8.44

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

Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

date	31-Jul-21	time	2.53	3.54	4.50	5.47	6.44	7.39	8.34	9.34	10.32	11.34	12.53	5 / 2			
reaction time	0.152	interval		1.01	0.96	0.97	0.97	0.95	0.95	1.00	0.98	1.02	1.19	PB	2.94	2.87	3.00
wind	0.3 m/s	velocity	5.14	8.42	8.85	8.76	8.76	8.95	8.95	8.50	8.67	8.33	8.45	7.98	8.67	8.89	8.50

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

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

date	10-Jun-21	time	2.52	3.56	4.56	5.56	6.56	7.58	8.58	9.60	10.64	11.70	12.94	4 / 4			
reaction time	0.170	interval		1.04	1.00	1.00	1.00	1.02	1.00	1.02	1.04	1.06	1.24	3.04	3.02	3.12	
wind	-0.8 m/s	velocity	5.16	8.17	8.50	8.50	8.50	8.33	8.50	8.33	8.17	8.02	8.10	7.73	8.39	8.44	8.17

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

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

date	23-May-21	time	2.60	3.64	4.70	5.76	6.82	7.88	8.96	10.04	11.14	12.24	13.53	1 / 5			
reaction time	0.153	interval		1.04	1.06	1.06	1.06	1.06	1.08	1.08	1.10	1.10	1.29	3.16	3.20	3.28	
wind	-3.9 m/s	velocity	5.00	8.17	8.02	8.02	8.02	8.02	7.87	7.87	7.73	7.73	7.79	7.39	8.07	7.97	7.77

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

FINAL - 2019 IAAF World Championships (Doha, QAT)

date	06-Oct-19	time	2.67	4.08											dnf	CAA Hurdle Development (2019)	
reaction time	0.209	interval	10 step	1.41												9 / --	
wind	0.3 m/s	velocity	4.87	6.03													

Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)

date	06-Oct-19	time	2.38	3.38	4.36	5.32	6.28	7.26	8.24	9.24	10.26	11.28	12.61	4 / 2			
reaction time	0.175	interval		1.00	0.98	0.96	0.96	0.98	0.98	1.00	1.02	1.02	1.33	PB	2.94	2.92	3.04
wind	0.8 m/s	velocity	5.46	8.50	8.67	8.85	8.85	8.67	8.67	8.50	8.33	8.33	7.56	7.93	8.67	8.73	8.39

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

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

date	08-Aug-19	time	2.53	3.57	4.60	5.58	6.58	7.58	8.60	9.62	10.67	11.74	13.01	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	
wind	0.1 m/s	velocity	5.14	8.17	8.25	8.67	8.50	8.50	8.33	8.33	8.10	7.94	8.27	7.69	8.36	8.44	8.12

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

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

date	20-Jul-19	time	2.48	3.48	4.44	5.42	6.40	7.40	8.40	9.42	10.42	11.48	12.66	5 / 4			

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

reaction time	0.142	interval	1.00	0.96	0.98	0.98	1.00	1.00	1.02	1.00	1.06	1.18			2.94	2.98	3.08
wind	0.8 m/s	velocity	5.24	8.50	8.85	8.67	8.67	8.50	8.50	8.33	8.50	8.02	8.90	7.90	8.67	8.56	8.28

Simmonds, Megan (JAM) (1994)

Semi-Final 1 - 2017 IAAF World Championships (London, GBR)													<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>				
date	11-Aug-17	time	2.41	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
wind	0.5 m/s	velocity	5.39	8.17	8.33	8.33	8.50	8.76	8.33	8.33	8.10	7.94	8.02	7.73	8.28	8.53	8.12

FINAL - 2017 Doha Diamond League (Doha, QAT) (TV Analysis)													<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	05-May-17	time	2.52	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	1.00	1.02	1.04	1.06	1.08	1.25			3.08	3.06	3.22
wind	-2.3 m/s	velocity	5.16	8.50	8.17	8.17	8.50	8.33	8.17	8.02	7.87	7.87	8.40	7.62	8.28	8.33	7.92

FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	01-Sep-16	time	2.56	3.56	4.58	5.58	6.56	7.56	8.56	9.58	10.62	11.66	12.90	8 / 6			
reaction time	0.180	interval	1.00	1.02	1.00	0.98	1.00	1.00	1.02	1.04	1.04	1.24			3.02	2.98	3.10
wind	0.4 m/s	velocity	5.08	8.50	8.33	8.50	8.67	8.50	8.50	8.33	8.17	8.17	8.47	7.75	8.44	8.56	8.23

FINAL - 2016 Athletissima (Luusanne, SUI) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	25-Aug-16	time	2.48	3.52	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
wind	0.7 m/s	velocity	5.24	8.17	8.50	8.67	8.33	8.33	8.17	8.02	7.73	7.46	8.27	7.60	8.44	8.28	7.73

Tarasova, Yuliya (UZB) (1986)

Heptathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	15-Aug-09	time	2.85	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
wind	-0.2 m/s	velocity	4.56	7.52	7.73	7.59	7.73	7.66	7.52	7.39	7.39	7.20	8.68	7.03	7.61	7.63	7.33

Taylor, Charisma (BAH) (1999)

Semi-Final 2 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	09-Aug-24	time	2.41	3.43	4.43	5.41	6.37	7.35	8.32	9.32	10.35	11.40	12.63	8 / 3				
reaction time	0.151	interval	7 steps	1.02	1.00	0.98	0.96	0.98	0.97	1.00	1.03	1.05	1.23	PB		3.00	2.91	3.08
wind	0.4 m/s	velocity	5.39	8.33	8.50	8.67	8.85	8.67	8.76	8.50	8.25	8.10	8.17	7.92	8.50	8.76	8.28	

Heat 3 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.45	3.48	4.49	5.47	6.45	7.44	8.44	9.45	10.48	11.53	12.78	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
wind	0.8 m/s	velocity	5.31	8.25	8.42	8.67	8.67	8.59	8.50	8.42	8.25	8.10	8.04	7.82	8.44	8.59	8.25

FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)													<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>				
date	03-Mar-24	time	2.60	3.60	4.58	5.62	6.58						7.92	2 / 6			
reaction time	0.139	interval	7 Steps	1.00	0.98	1.04	0.96						1.34		3.02		
		velocity	5.00	8.50	8.67	8.17	8.85						9.70	7.58	8.44		

Taylor, Naomi (USA) (1998)

FINAL - 2020 Leonard Hilton Memorial Invitational (Houston, TX)													<i>CAA Hurdle Development (2020)</i>				
date	17-Jan-20	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		

FINAL - 2019 NCAA Indoor Championships (Birmingham, AL) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	9-Mar-19	time	2.53	3.55	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		

Tebichova, Milena (TCH) (1962)

FINAL - 1987 European Cup (Prague, TCH)													<i>Sušanka (1987) - hints on computer processing of biomechanical data</i>				
date	28-Jun-87	time	2.64	3.75	4.80	5.88	6.92	8.00	9.08	10.16	11.28	12.40	13.58	8 / 6			
reaction time		interval	1.11	1.05	1.08	1.04	1.08	1.08	1.08	1.12	1.12	1.18			3.24	3.20	3.32
wind	-0.9 m/s	velocity	4.92	7.66	8.10	7.87	8.17	7.87	7.87	7.87	7.59	7.59	8.90	7.36	7.87	7.97	7.68

Tejeda, Anay (CUB) (1983)

FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)													<i>Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships</i>				
date	13-Mar-10	time	2.58	3.60	4.59	5.57	6.55						7.91	4 / 4			
reaction time	0.144	interval	1.02	0.99	0.98	0.98							1.36		2.99		
		velocity	5.04	8.33	8.59	8.67	8.67						9.56	7.59	8.53		

Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	19-Aug-09	time	2.64	3.69	4.70	5.68	6.66	7.66	8.66	9.68	10.68	11.71	12.82	6 / 4			
reaction time	0.163	interval	1.05	1.01	0.98	0.98	1.00	1.00	1.02	1.00	1.03	1.11			3.04	2.98	3.05
wind	0.1 m/s	velocity	4.92	8.10	8.42	8.67	8.67	8.50	8.50	8.33	8.50	8.25	9.46	7.80	8.39	8.56	8.36

Heat 5 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	2.63	3.66	4.67	5.67	6.66	7.65	8.63	9.64	10.67	11.70	12.82	2 / 3			
reaction time	0.149	interval		1.03	1.01	1.00	0.99	0.99	0.98	1.01	1.03	1.03	1.12		3.04	2.96	3.07
wind	0.1 m/s	velocity	4.94	8.25	8.42	8.50	8.59	8.59	8.67	8.42	8.25	8.25	9.37	7.80	8.39	8.61	8.31

Tenka, Yanaka (JPN)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)***Takashima (2023) - national high school sports festival - biomechanics data*

date	06-Aug-23	time	2.74	3.80	4.88	5.96	7.02	8.09	9.17	10.26	11.37	12.49	13.71	7 / 3			
reaction time	0.229	interval		1.06	1.08	1.08	1.06	1.07	1.08	1.09	1.11	1.12	1.22		3.22	3.21	3.32
wind	0.8 m/s	velocity	4.74	8.02	7.87	7.87	8.02	7.94	7.87	7.80	7.66	7.59	8.24	7.29	7.92	7.94	7.68

Terada, Asuka (JPN) (1990)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 2 - 2023 World Athletics Championships (Budapest, HUN)***Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season*

date	22-Aug-23	time	2.62	3.67	4.71	5.73	6.75	7.77	8.80	9.85	10.90	11.99	13.15	1 / 6			
reaction time	0.153	interval		1.05	1.04	1.02	1.02	1.02	1.03	1.05	1.05	1.09	1.16		3.11	3.07	3.19
wind	0.0 m/s	velocity	4.96	8.10	8.17	8.33	8.33	8.33	8.25	8.10	8.10	7.80	8.66	7.60	8.20	8.31	7.99

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

date	03-Jun-23	time	2.58	3.62	4.62	5.61	6.62	7.62	8.63	9.66	10.71	11.77	12.95	6 / 1			
reaction time	0.149	interval		1.04	1.00	0.99	1.01	1.00	1.01	1.03	1.05	1.06	1.18		3.03	3.02	3.14
wind	-1.2 m/s	velocity	5.04	8.17	8.50	8.59	8.42	8.50	8.42	8.25	8.10	8.02	8.52	7.72	8.42	8.44	8.12

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

date	21-May-23	time	2.56	3.58	4.58	5.57	6.58	7.59	8.61	9.63	10.66	11.71	12.86	6 / 1			
reaction time	0.136	interval		1.02	1.00	0.99	1.01	1.01	1.02	1.02	1.03	1.05	1.15	=PB	3.01	3.04	3.10
wind	0.4 m/s	velocity	5.08	8.33	8.50	8.59	8.42	8.42	8.33	8.33	8.25	8.10	8.74	7.78	8.47	8.39	8.23

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

date	07-May-23	time	2.60	3.61	4.62	5.62	6.61	7.61	8.63	9.64	10.68	11.74	12.86	6 / 1			
reaction time	0.149	interval		1.01	1.01	1.00	0.99	1.00	1.02	1.01	1.04	1.06	1.12	PB	3.02	3.01	3.11
wind	0.7 m/s	velocity	5.00	8.42	8.42	8.50	8.59	8.50	8.33	8.42	8.17	8.02	8.97	7.78	8.44	8.47	8.20

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

date	08-May-22	time	2.59	3.66	4.70	5.72	6.73	7.75	8.75	9.80	10.84	11.92	13.07	3 / 4			
reaction time	0.152	interval		1.07	1.04	1.02	1.01	1.02	1.00	1.05	1.04	1.08	1.15		3.13	3.03	3.17
wind	-0.1 m/s	velocity	5.02	7.94	8.17	8.33	8.42	8.33	8.50	8.10	8.17	7.87	8.74	7.65	8.15	8.42	8.04

FINAL - 2021 Japanese National Championships (Osaka, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	27-Jun-21	time	2.61	3.67	4.69	5.71	6.72	7.74	8.78	9.81	10.87	11.96	13.09	6 / 1			
reaction time	0.147	interval		1.06	1.02	1.02	1.01	1.02	1.04	1.03	1.06	1.09	1.13		3.10	3.07	3.18
wind	0.0 m/s	velocity	4.98	8.02	8.33	8.33	8.42	8.33	8.17	8.25	8.02	7.80	8.89	7.64	8.23	8.31	8.02

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

date	06-Jun-21	time	2.56	3.60	4.58	5.63	6.64	7.63	8.65	9.67	10.71	11.74	12.89	7 / 2			
reaction time	0.133	interval		1.04	0.98	1.05	1.01	0.99	1.02	1.02	1.04	1.03	1.15		3.07	3.02	3.09
wind	1.8 m/s	velocity	5.08	8.17	8.67	8.10	8.42	8.59	8.33	8.33	8.17	8.25	8.74	7.76	8.31	8.44	8.25

FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	01-Jun-21	time	2.60	3.62	4.63	5.61	6.61	7.60	8.63	9.67	10.69	11.76	12.89	6 / 1			
reaction time	0.168	interval		1.02	1.01	0.98	1.00	0.99	1.03	1.04	1.02	1.07	1.13		3.01	3.02	3.13
wind	0.3 m/s	velocity	5.00	8.33	8.42	8.67	8.50	8.59	8.25	8.17	8.33	7.94	8.89	7.76	8.47	8.44	8.15

Heat 1 - 2021 Michitaka Kinami Memorial (Osaka, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	01-Jun-21	time	2.64	3.69	4.68	5.67	6.67	7.67	8.66	9.68	10.69	11.74	12.87	5 / 1			
reaction time	0.187	interval		1.05	0.99	0.99	1.00	1.00	0.99	1.02	1.01	1.05	1.13	NR PB	3.03	2.99	3.08
wind	0.6 m/s	velocity	4.92	8.10	8.59	8.59	8.50	8.50	8.59	8.33	8.42	8.10	8.89	7.77	8.42	8.53	8.28

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

date	09-May-21	time	2.58	3.63	4.65	5.66	6.66	7.67	8.70	9.73	10.79	11.86	12.99	5 / 1			
reaction time	0.134	interval		1.05	1.02	1.01	1.00	1.01	1.03	1.03	1.06	1.07	1.13		3.08	3.04	3.16
wind	-0.8 m/s	velocity	5.04	8.10	8.33	8.42	8.50	8.42	8.25	8.25	8.02	7.94	8.89	7.70	8.28	8.39	8.07

FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)*Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season*

date	29-Apr-21	time	2.59	3.65	4.65	5.64	6.64	7.62	8.68	9.72	10.76	11.81	12.96	5 / 1			
reaction time		interval		1.06	1.00	0.99	1.00	0.98	1.06	1.04	1.04	1.05	1.15	NR PB	3.05	3.04	3.13
wind	1.6 m/s	velocity	5.02	8.02	8.50	8.59	8.50	8.67	8.02	8.17	8.17	8.10	8.74	7.72	8.36	8.39	8.15

FINAL - 2020 Japanese National Championships (Niigata, JPN)*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	03-Oct-20	time	2.62	3.68	4.71	5.72	6.74	7.77	8.79	9.83	10.88	11.96	13.14	4 / 2			
reaction time	0.154	interval		1.06	1.03	1.01	1.02	1.03	1.02	1.04	1.05	1.08	1.18		3.10	3.07	3.17
wind	-0.1 m/s	velocity	4.96	8.02	8.25	8.42	8.33	8.25	8.33	8.17	8.10	7.87	8.52	7.61	8.23	8.31	8.04

FINAL - 2020 Athlete Night Games (Fukui, JPN)*Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers*

date	29-Aug-20	time	2.61	3.63	4.64	5.65	6.65	7.66	8.67	9.69	10.73	11.78	12.93	/ 2			
reaction time		interval		1.02	1.01	1.01	1.00	1.01	1.01	1.02	1.04	1.05	1.15		3.04	3.02	3.11
wind	2.1 m/s	velocity	4.98	8.33	8.42	8.42	8.50	8.42	8.42	8.33	8.17	8.10	8.74	7.73	8.39	8.44	8.20
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)													<i>Kijima (2020) - race analysis of 2020 top domestic japanese 100m hurdlers</i>				
date	23-Aug-20	time	2.61	3.69	4.69	5.69	6.71	7.71	8.74	9.77	10.81	11.88	13.03	5 / 1			
reaction time	0.164	interval		1.08	1.00	1.00	1.02	1.00	1.03	1.03	1.04	1.07	1.15		3.08	3.05	3.14
wind	0.3 m/s	velocity	4.98	7.87	8.50	8.50	8.33	8.50	8.25	8.25	8.17	7.94	8.74	7.67	8.28	8.36	8.12
Heat 1 - 2019 IAAF World Championships (Doha, QAT)													<i>(2019) - http://tfdata-store.com/2019/09/02/post-1606/</i>				
date	05-Oct-19	time	2.66	3.69	4.72	5.74	6.76	7.79	8.82	9.88	10.94	12.03	13.20	5 / 5			
reaction time	0.170	interval		1.03	1.03	1.02	1.02	1.03	1.03	1.06	1.06	1.09	1.17		3.08	3.08	3.21
wind	0.3 m/s	velocity	4.89	8.25	8.25	8.33	8.33	8.25	8.25	8.02	8.02	7.80	8.59	7.58	8.28	8.28	7.94
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)													<i>Kijima (2019) - race analysis 100m hurdle top-ranked women 2019 Japanese and international comps</i>				
date	01-Sep-19	time	2.58	3.62	4.62	5.63	6.63	7.65	8.67	9.70	10.76	11.82	12.97	4 / 1			
reaction time		interval		1.04	1.00	1.01	1.00	1.02	1.02	1.03	1.06	1.06	1.15	NR PB	3.05	3.04	3.15
wind	1.2 m/s	velocity	5.04	8.17	8.50	8.42	8.50	8.33	8.33	8.25	8.02	8.02	8.74	7.71	8.36	8.39	8.10
FINAL - 2019 Athlete Night Games (Fukui, JPN)													<i>(2019) - http://tfdata-store.com/2019/09/02/post-1606/</i>				
date	17-Aug-19	time	2.61	3.67	4.70	5.69	6.69	7.70	8.72	9.75	10.80	11.86	13.00	5 / 1			
reaction time		interval		1.06	1.03	0.99	1.00	1.01	1.02	1.03	1.05	1.06	1.14	NR	3.08	3.03	3.14
wind	1.4 m/s	velocity	4.98	8.02	8.25	8.59	8.50	8.42	8.33	8.25	8.10	8.02	8.82	7.69	8.28	8.42	8.12
FINAL - 2019 Corporate Team vs College Team (Hiratsukai, JPN)													<i>(2019) - http://tfdata-store.com/2019/09/02/post-1606/</i>				
date	27-Jul-19	time	2.63	3.68	4.71	5.73	6.73	7.75	8.77	9.80	10.84	11.90	13.07	2 / 1			
reaction time		interval		1.05	1.03	1.02	1.00	1.02	1.02	1.03	1.04	1.06	1.17		3.10	3.04	3.13
wind	1.3 m/s	velocity	4.94	8.10	8.25	8.33	8.50	8.33	8.33	8.25	8.17	8.02	8.59	7.65	8.23	8.39	8.15
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)													<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>				
date	29-Jun-19	time	2.61	3.66	4.69	5.70	6.73	7.76	8.80	9.84	10.92	11.98	13.16	5 / 3			
reaction time	0.172	interval		1.05	1.03	1.01	1.03	1.03	1.04	1.04	1.08	1.06	1.18		3.09	3.10	3.18
wind	0.6 m/s	velocity	4.98	8.10	8.25	8.42	8.25	8.25	8.17	8.17	7.87	8.02	8.90	7.60	8.25	8.23	8.02
FINAL - 2010 National Sports Festival (Chiba, JPN)													<i>(2017.03.26) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	04-Oct-10	time	2.63	3.67	4.70	5.71	6.73	7.76	8.78	9.82	10.88	11.95	13.12	4 / 1			
reaction time		interval		1.04	1.03	1.01	1.02	1.03	1.02	1.04	1.06	1.07	1.17		3.08	3.07	3.17
wind	0.5 m/s	velocity	4.94	8.17	8.25	8.42	8.33	8.25	8.33	8.17	8.02	7.94	8.97	7.62	8.28	8.31	8.04
FINAL - 2009 Japanese National Championships (Hiroshima, JPN)													<i>Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season</i>				
date	26-Jun-09	time	2.47	3.53	4.57	5.60	6.62	7.65	8.67	9.70	10.74	11.79	13.05	3 / 1			
reaction time		interval		1.06	1.04	1.03	1.02	1.03	1.02	1.03	1.04	1.05	1.26	NJR / PB	3.13	3.07	3.12
wind	1.9 m/s	velocity	5.26	8.02	8.17	8.25	8.33	8.25	8.33	8.25	8.17	8.10	8.33	7.66	8.15	8.31	8.17
FINAL - 2008 Japanese National Championships (Kawasaki, JPN)													<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>				
date	28-Jun-08	time	2.48	3.57	4.64	5.69	6.75	7.79	8.85	9.92	11.00	12.13	13.51	/ 1			
reaction time		interval		1.09	1.07	1.05	1.06	1.04	1.06	1.07	1.08	1.13	1.38		3.21	3.16	3.28
wind	-1.5 m/s	velocity	5.24	7.80	7.94	8.10	8.02	8.17	8.02	7.94	7.87	7.52	7.61	7.40	7.94	8.07	7.77
FINAL - 2008 Miko Oda Memorial (Hiroshima, JPN)													<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>				
date	29-Apr-08	time	2.50	3.60	4.68	5.73	6.78	7.84	8.90	9.96	11.05	12.14	13.46	/ 2			
reaction time		interval		1.10	1.08	1.05	1.05	1.06	1.06	1.06	1.09	1.09	1.32		3.23	3.17	3.24
wind	-0.1 m/s	velocity	5.20	7.73	7.87	8.10	8.10	8.02	8.02	8.02	7.80	7.80	7.95	7.43	7.89	8.04	7.87
Tezuka, Mai (JPN) (2001)																	
B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)													<i>Aoki (2023) - domestic & foreign first-class women's 100m hurdles in the 2022 season</i>				
date	29-Apr-22	time	2.75	3.85	4.93	6.01	7.09	8.15	9.24	10.33	11.42	12.55	13.75	1 / 3			
reaction time	0.171	interval		1.10	1.08	1.08	1.08	1.06	1.09	1.09	1.09	1.13	1.20		3.26	3.23	3.31
wind	0.3 m/s	velocity	4.73	7.73	7.87	7.87	7.87	8.02	7.80	7.80	7.80	7.52	8.38	7.27	7.82	7.89	7.70
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)													<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data</i>				
date	08-Aug-19	time	2.71	3.84	4.93	6.01	7.14	8.27	9.41	10.56	11.72	12.88	14.15	6 / 3			
reaction time		interval		1.13	1.09	1.08	1.13	1.13	1.14	1.15	1.16	1.16	1.27		3.30	3.40	3.47
wind	-4.1 m/s	velocity	4.80	7.52	7.80	7.87	7.52	7.52	7.46	7.39	7.33	7.33	8.27	7.07	7.73	7.50	7.35
Theele, Heike (GDR) (1964)																	
FINAL - 1986 East German National Championships (Jena, GDR)													<i>Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes</i>				
date	27-Jun-86	time	2.58	3.60	4.60	5.58	6.57	7.54	8.53	9.51	10.52	11.53	12.63	/ 2			
reaction time		interval		1.02	1.00	0.98	0.99	0.97	0.99	0.98	1.01	1.01	1.10	PB	3.00	2.95	3.00
wind	1.4 m/s	velocity	5.04	8.33	8.50	8.67	8.59	8.76	8.59	8.67	8.42	8.42	9.55	7.92	8.50	8.64	8.50
Theisen, Brianne (CAN) (1988)																	
Heptathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				

date	15-Aug-09	time	2.76	3.84	4.91	5.99	7.06	8.14	9.22	10.30	11.40	12.50		13.69	5 / 4				
reaction time	0.159	interval		1.08	1.07	1.08	1.07	1.08	1.08	1.08	1.10	1.10	1.19			3.23	3.23	3.28	
wind	-0.2 m/s	velocity	4.71	7.87	7.94	7.87	7.94	7.87	7.87	7.87	7.73	7.73	8.82	7.30		7.89	7.89	7.77	
Thiam, Nafissatou (BEL) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)																<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	08-Aug-24	time	2.56	3.65	4.71	5.76	6.81	7.86	8.92	10.00	11.09	12.21		13.56	7 / 5				
reaction time	0.168	interval	7 steps	1.09	1.06	1.05	1.05	1.05	1.06	1.08	1.09	1.12	1.35			3.20	3.16	3.29	
wind	0.0 m/s	velocity	5.08	7.80	8.02	8.10	8.10	8.10	8.02	7.87	7.80	7.59	7.44	7.37		7.97	8.07	7.75	
Thomas, Vashti (USA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 Windsprint (Sundsvall, SWE)																<i>(2013) - www.ssg.se/windsprint/Splittider/</i>			
date	28-Jul-13	time	2.59	3.62	4.67	5.70	6.72	7.74	8.78	9.81	10.85	11.91		13.11	4 / 2				
reaction time		interval		1.03	1.05	1.03	1.02	1.02	1.04	1.03	1.04	1.06	1.20			3.11	3.08	3.13	
wind	1.2 m/s	velocity	5.02	8.25	8.10	8.25	8.33	8.33	8.17	8.25	8.17	8.02	8.75	7.63		8.20	8.28	8.15	
Thompson, Yanique (JAM) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat A - 2024 Kamila Skolimowska Memorial (Silesia, POL)																<i>Omega Timing (2024) - diamond league race analysis</i>			
date	25-Aug-24	time	2.55	3.72	4.81	5.81	6.81	7.79	8.79	9.78	10.80	11.85		13.17	3 / 7				
reaction time	0.147	interval		1.17	1.09	1.00	1.00	0.98	1.00	0.99	1.02	1.05	1.32			3.26	2.98	3.06	
wind	-0.3 m/s	velocity	5.10	7.26	7.80	8.50	8.50	8.67	8.50	8.59	8.33	8.10	7.61	7.59		7.82	8.56	8.33	
FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)																<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>			
date	25-Sep-20	time	2.60	3.66	4.76	5.83	6.86	7.90	8.93	10.00	11.06	12.20		13.52	6 / 8				
reaction time	0.144	interval		1.06	1.10	1.07	1.03	1.04	1.03	1.07	1.06	1.14	1.32			3.23	3.10	3.27	
wind	1.1 m/s	velocity	5.00	8.02	7.73	7.94	8.25	8.17	8.25	7.94	8.02	7.46	7.61	7.40		7.89	8.23	7.80	
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)																<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	06-Oct-19	time	2.44	3.48	4.50	5.50	6.46	7.42	8.42	9.42	10.42	11.42		12.80	6 / 3				
reaction time	0.150	interval		1.04	1.02	1.00	0.96	0.96	1.00	1.00	1.00	1.00	1.38			3.06	2.92	3.00	
wind	0.8 m/s	velocity	5.33	8.17	8.33	8.50	8.85	8.85	8.50	8.50	8.50	8.50	7.28	7.81		8.33	8.73	8.50	
FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)																<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	08-Aug-19	time	2.51	3.59	4.63	5.63	6.65	7.67	8.67	9.67	10.72	11.77		13.11	6 / 4				
reaction time	0.178	interval		1.08	1.04	1.00	1.02	1.02	1.00	1.00	1.05	1.05	1.34			3.12	3.04	3.10	
wind	0.1 m/s	velocity	5.18	7.87	8.17	8.50	8.33	8.33	8.50	8.50	8.10	8.10	7.84	7.63		8.17	8.39	8.23	
FINAL - 2018 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)																<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	13-Jul-18	time	2.56	3.58	4.62	5.62	6.62	7.62	8.60	9.62	10.62	11.64		12.93	1 / 8				
reaction time	0.155	interval		1.02	1.04	1.00	1.00	1.00	0.98	1.02	1.00	1.02	1.29			3.06	2.98	3.04	
wind	0.1 m/s	velocity	5.08	8.33	8.17	8.50	8.50	8.50	8.67	8.33	8.50	8.33	8.14	7.73		8.33	8.56	8.39	
FINAL - 2018 Spitzzen Leichtathletik (Luzern, SUI) (TV Analysis)																<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	09-Jul-18	time	2.58	3.60	4.60	5.58	6.54	7.52	8.58	9.64	10.70	11.74		13.00	1 / 7				
reaction time		interval		1.02	1.00	0.98	0.96	0.98	1.06	1.06	1.06	1.04	1.26			3.00	3.00	3.16	
wind	0.9 m/s	velocity	5.04	8.33	8.50	8.67	8.85	8.67	8.02	8.02	8.02	8.17	8.33	7.69		8.50	8.50	8.07	
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)																<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles</i>			
date	11-Aug-17	time	2.49	3.55	4.57	5.58	6.58	7.55	8.55	9.56	10.57	11.61		12.88	7 / 3				
reaction time	0.143	interval		1.06	1.02	1.01	1.00	0.97	1.00	1.01	1.01	1.04	1.27			3.09	2.97	3.06	
wind	0.5 m/s	velocity	5.22	8.02	8.33	8.42	8.50	8.76	8.50	8.42	8.42	8.17	8.27	7.76		8.25	8.59	8.33	
Thorp, Angela (GBR) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1997 European Cup (Munich, GER)																<i>Jung (2003) - http://www.fgs.uni-halle.de</i>			
date	22-Jun-97	time	2.69	3.76	4.76	5.79	6.81	7.87	8.89	9.92	10.95	12.03		13.16	1 / 3				
reaction time		interval		1.07	1.00	1.03	1.02	1.06	1.02	1.03	1.03	1.08	1.13			3.10	3.10	3.14	
wind	0.7 m/s	velocity	4.83	7.94	8.50	8.25	8.33	8.02	8.33	8.25	8.25	7.87	9.29	7.60		8.23	8.23	8.12	
Tillack, Heike (GDR) (1968)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1986 IAAF World Junior Championships (Athens, GRE)																<i>Miskos (1986) - IAAF biomechanical research - Athens 1986 - hurdle races</i>			
date	19-Jul-86	time	2.68	3.74	4.76	5.77	6.79	7.78	8.80	9.79	10.86	11.93		13.10	1 / 1				
reaction time		interval		1.06	1.02	1.01	1.02	0.99	1.02	0.99	1.07	1.07	1.17	CR		3.09	3.03	3.13	
wind	-0.7 m/s	velocity	4.85	8.02	8.33	8.42	8.33	8.59	8.33	8.59	7.94	7.94	8.97	7.63		8.25	8.42	8.15	
Tjin-A-Lim, Maayke (NED) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)																<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	09-Aug-24	time	2.50	3.56	4.59	5.59	6.59	7.60	8.62	9.64	10.68	11.73		13.03	2 / 7				
reaction time	0.152	interval	7 steps	1.06	1.03	1.00	1.00	1.01	1.02	1.02	1.04	1.05	1.30			3.09	3.03	3.11	
wind	-0.7 m/s	velocity	5.20	8.02	8.25	8.50	8.50	8.42	8.33	8.33	8.17	8.10	7.73	7.67		8.25	8.42	8.20	
Repechage 1 - 2024 Olympic Games (Paris, FRA)																<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	08-Aug-24	time	2.49	3.55	4.57	5.57	6.55	7.53	8.54	9.55	10.57	11.61		12.87	5 / 2				
reaction time	0.161	interval	7 steps	1.06	1.02	1.00	0.98	0.98	1.01	1.01	1.02	1.04	1.26			3.08	2.97	3.07	

wind	0.1 m/s	velocity	5.22	8.02	8.33	8.50	8.67	8.67	8.42	8.42	8.33	8.17	7.98	7.77		8.28	8.59	8.31	
Heat 1 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.51	3.58	4.60	5.59	6.59	7.60	8.62	9.64	10.68	11.72		12.98		5 / 7			
reaction time	0.151	interval	7 steps	1.07	1.02	0.99	1.00	1.01	1.02	1.02	1.04	1.04	1.26			3.08	3.03	3.10	
wind	-0.1 m/s	velocity	5.18	7.94	8.33	8.59	8.50	8.42	8.33	8.33	8.17	8.17	7.98	7.70		8.28	8.42	8.23	
Heat 2 - 2024 FBK Games (Hengelo, NED)															<i>Omega Timing (2024) - continental tour gold race analysis</i>				
date	07-Jul-24	time	2.43	3.49	4.49	5.50	6.51	7.53	8.55	9.56	10.59	11.64		12.91		3 / 5			
reaction time	0.108	interval		1.06	1.00	1.01	1.01	1.02	1.02	1.01	1.03	1.05	1.27			3.07	3.05	3.09	
wind	0.3 m/s	velocity	5.35	8.02	8.50	8.42	8.42	8.33	8.33	8.42	8.25	8.10	7.91	7.75		8.31	8.36	8.25	
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	23-Aug-23	time	2.57	3.60	4.63	5.63	6.64	7.66	8.68	9.72	10.76	11.82		13.05		2 / 7			
reaction time	0.135	interval		1.03	1.03	1.00	1.01	1.02	1.02	1.04	1.04	1.06	1.23			3.06	3.05	3.14	
wind	0.5 m/s	velocity	5.06	8.25	8.25	8.50	8.42	8.33	8.33	8.17	8.17	8.02	8.17	7.66		8.33	8.36	8.12	
Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	22-Aug-23	time	2.56	3.63	4.63	5.65	6.65	7.65	8.65	9.68	10.70	11.75		12.92		2 / 5			
reaction time	0.155	interval		1.07	1.00	1.02	1.00	1.00	1.00	1.03	1.02	1.05	1.17			3.09	3.00	3.10	
wind	0.4 m/s	velocity	5.08	7.94	8.50	8.33	8.50	8.50	8.50	8.25	8.33	8.10	8.59	7.74		8.25	8.50	8.23	
FINAL - 2023 FBK Games (Hengelo, NED)															<i>Omega Timing (2023) - continental tour race analysis</i>				
date	04-Jun-23	time	2.50	3.58	4.62	5.65	6.67	7.69	8.72	9.76	10.81	11.87		13.16		2 / 7			
reaction time	0.149	interval		1.08	1.04	1.03	1.02	1.02	1.03	1.04	1.05	1.06	1.29			3.15	3.07	3.15	
wind	0.2 m/s	velocity	5.20	7.87	8.17	8.25	8.33	8.33	8.25	8.17	8.10	8.02	7.79	7.60		8.10	8.31	8.10	
Toki, Asaki (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U18 FINAL - 2018 National Sports Festival (Fukui, JPN) (76cm)															<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>				
date	07-Oct-18	time	2.70	3.77	4.84	5.90	6.97	8.06	9.15	10.26	11.38	12.52		13.77		5 / 3			
reaction time	0.164	interval		1.07	1.07	1.06	1.07	1.09	1.09	1.11	1.12	1.14	1.25			3.20	3.25	3.37	
wind	2.0 m/s	velocity	4.81	7.94	7.94	8.02	7.94	7.80	7.80	7.66	7.59	7.46	8.40	7.26		7.97	7.85	7.57	
Tolbert-Goode, Lynda (USA) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1996 Olympic Games (Atlanta, GA)															<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>				
date	31-Jul-96	time	2.43	3.50	4.52	5.52	6.55	7.58	8.62	9.65	10.72	11.80		13.11		7 / 8-7			
reaction time	0.175	interval		1.07	1.02	1.00	1.03	1.03	1.04	1.03	1.07	1.08	1.31			3.09	3.10	3.18	
wind	0.2 m/s	velocity	5.35	7.94	8.33	8.50	8.25	8.25	8.17	8.25	7.94	7.87	8.02	7.63		8.25	8.23	8.02	
FINAL - 1996 USA Olympic Trials (Atlanta, GA)															<i>USATF Women's Sprint Development (1996)</i>				
date	23-Jun-96	time	2.24	3.31	4.34	5.35	6.33	7.31	8.31	9.28	10.30	11.31		12.69		5 / 2			
reaction time		interval		1.07	1.03	1.01	0.98	0.98	1.00	0.97	1.02	1.01	1.38			3.11	2.96	3.00	
wind	0.6 m/s	velocity	5.80	7.94	8.25	8.42	8.67	8.67	8.50	8.76	8.33	8.42	7.61	7.88		8.20	8.61	8.50	
Quarter-Final 2 - 1992 Olympic Games (Barcelona, ESP)															<i>Lyle - miscellaneous coaching notes</i>				
date	05-Aug-92	time	2.56	3.59	4.57	5.56	6.55	7.55	8.55	9.55	10.58	11.63		12.96		5 / 2			
reaction time		interval		1.03	0.98	0.99	0.99	1.00	1.00	1.00	1.03	1.05	1.33			3.00	2.99	3.08	
wind	1.4 m/s	velocity	5.08	8.25	8.67	8.59	8.59	8.50	8.50	8.50	8.25	8.10	7.89	7.72		8.50	8.53	8.28	
Heat 5 - 1992 Olympic Games (Barcelona, ESP)															<i>Lyle - miscellaneous coaching notes</i>				
date	05-Aug-92	time	2.58	3.62	4.64	5.63	6.62	7.62	8.63	9.66	10.71	11.80		12.96		5 / 1			
reaction time		interval		1.04	1.02	0.99	0.99	1.00	1.01	1.03	1.05	1.09	1.16			3.05	3.00	3.17	
wind	0.7 m/s	velocity	5.04	8.17	8.33	8.59	8.59	8.50	8.42	8.25	8.10	7.80	9.05	7.72		8.36	8.50	8.04	
Tolbert, Lynda (USA) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1989 IAAF World Cup (Barcelona, ESP)															<i>Gill (1990) - atletismo (I) carreras y marcha</i>				
date	09-Sep-89	time	2.57	3.61	4.62	5.64	6.64	7.65	8.68	9.69	10.72	11.77		12.86		1 / 3			
reaction time		interval		1.04	1.01	1.02	1.00	1.01	1.03	1.01	1.03	1.05	1.09			3.07	3.04	3.09	
wind	-0.33 m/s	velocity	5.06	8.17	8.42	8.33	8.50	8.42	8.25	8.42	8.25	8.10	9.63	7.78		8.31	8.39	8.25	
Tomicic Prezelj, Joni (SLO) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Memorial Van Damme (Brussels, BEL) (TV Analysis)															<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	04-Sep-20	time	2.67	3.73	4.80	5.87	6.93	7.97	9.07	10.13	11.23	12.33		13.64		8 / 5			
reaction time	0.147	interval		1.06	1.07	1.07	1.06	1.04	1.10	1.06	1.10	1.10	1.31			3.20	3.20	3.26	
wind	-0.2 m/s	velocity	4.87	8.02	7.94	7.94	8.02	8.17	7.73	8.02	7.73	7.73	7.67	7.33		7.97	7.97	7.82	
Tomková, Helena (CZE) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)															<i>Feher (2014) - Final report from the Czech Republic national championships</i>				
date	02-Aug-14	time	2.81	3.91	4.98	6.05	7.11	8.18	9.27	10.35	11.45	12.56		13.76		6 / 3			
reaction time	0.176	interval		1.10	1.07	1.07	1.06	1.07	1.09	1.08	1.10	1.11	1.20			3.24	3.22	3.29	
wind	0.4 m/s	velocity	4.63	7.73	7.94	7.94	8.02	7.94	7.80	7.87	7.73	7.66	8.75	7.27		7.87	7.92	7.75	
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)															<i>Feher (2014) - Final report from the Czech Republic national championships</i>				
date	02-Aug-14	time	2.89	4.04	5.12	6.26	7.35	8.44	9.52	10.62	11.74	12.90		14.07		6 / 2			

reaction time	0.178	interval	1.15	1.08	1.14	1.09	1.09	1.08	1.10	1.12	1.16	1.17			3.37	3.26	3.38
wind	-1.0 m/s	velocity	4.50	7.39	7.87	7.46	7.80	7.80	7.87	7.73	7.59	7.33	8.97	7.11	7.57	7.82	7.54

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

date	25-Feb-12	time	2.75	3.85	4.97	6.06	7.15							8.60	3 / 2		
reaction time	0.118	interval	1.10	1.12	1.09	1.09						1.45		PB		3.31	
		velocity	4.73	7.73	7.59	7.80	7.80					8.97		6.98		7.70	

Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)*Feher (2012) - Czech Republic indoor national championships - women's 60m hurdles*

date	25-Feb-12	time	2.78	3.89	5.00	6.08	7.18							8.67	3 / 2		
reaction time	0.146	interval	1.11	1.11	1.08	1.10						1.49				3.30	
		velocity	4.68	7.66	7.66	7.87	7.73					8.72		6.92		7.73	

Tong Menghui (CHN) (2000)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN)																		
date	14-Aug-19	time	2.77	3.90	5.02	6.16	7.29	8.42	9.57	10.73	11.89	13.11		14.43	7 / 5			
reaction time	0.152	interval	1.13	1.12	1.14	1.13	1.13	1.15	1.16	1.16	1.22	1.32				3.39	3.41	3.54
wind	0.5 m/s	velocity	4.69	7.52	7.59	7.46	7.52	7.52	7.39	7.33	7.33	6.97	7.95	6.93		7.52	7.48	7.20

Töth, Anna (HUN) (2003)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)																		
date	04-Sep-22	time	2.68	3.76	4.80	5.84	6.88	7.92	8.96	10.00	11.08	12.16		13.43	8 / 7			
reaction time	0.165	interval	1.08	1.04	1.04	1.04	1.04	1.04	1.04	1.08	1.08	1.27				3.16	3.12	3.20
wind	-0.3 m/s	velocity	4.85	7.87	8.17	8.17	8.17	8.17	8.17	7.87	7.87	7.91	7.45			8.07	8.17	7.97

*Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season***Tran Thi Yen Hao (VIE) (1990)**

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)																		
date	07-Jun-19	time	2.60	3.70	4.78	5.83	6.90	7.94	8.99	10.14	11.27	12.39		13.61	6 / 6			
reaction time	0.165	interval	1.10	1.08	1.05	1.07	1.04	1.05	1.15	1.13	1.12	1.22				3.23	3.16	3.40
wind	2.3 m/s	velocity	5.00	7.73	7.87	8.10	7.94	8.17	8.10	7.39	7.52	7.59	8.61	7.35		7.89	8.07	7.50

FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)*CAA Hurdle Development (2019)*

date	04-Jun-19	time	2.61	3.71	4.80	5.87	6.95	8.04	9.12	10.22	11.32	12.47		13.67	6 / 5			
reaction time	0.147	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
wind	-1.2 m/s	velocity	4.98	7.73	7.80	7.94	7.87	7.80	7.87	7.73	7.73	7.39	8.75	7.32		7.82	7.85	7.61

Troppa, Claudia (ESP) (1985)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2007 European Cup (Munich, GER)																		
date	24-Jun-07	time	2.78	3.85	4.97	6.04	7.12	8.18	9.26	10.33	11.42	12.54		13.77	1 / 8			
reaction time	0.147	interval	1.07	1.12	1.07	1.08	1.06	1.08	1.07	1.09	1.12	1.23				3.26	3.22	3.28
wind	0.9 m/s	velocity	4.68	7.94	7.59	7.94	7.87	8.02	7.87	7.94	7.80	7.59	8.54	7.26		7.82	7.92	7.77

*Graubner (2007) - http://www.fgs.uni-halle.de***Truwant, Véronique (FRA) (1965)**

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)																	
date	25-Jan-86	time	2.67	3.78	4.88	5.93	7.01						8.46	1 / 6			
reaction time		interval	1.11	1.10	1.05	1.08						1.45				3.26	
		velocity	4.87	7.66	7.73	8.10	7.87					8.97	7.09			7.82	

*Aubert (1986) - indoor - video - haies, etude des performances***Heat ?** - 1986 French National Indoor Championships (Lievin, FRA)*Aubert (1986) - indoor - video - haies, etude des performances*

date	25-Jan-86	time	2.74	3.85	4.93	5.98	7.07						8.51	1 / 6		
reaction time		interval	1.11	1.08	1.05	1.09						1.44				3.24
		velocity	4.74	7.66	7.87	8.10	7.80					9.03	7.05			7.87

Trywiańska-Kollasch, Aurelia (POL) (1976)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 1 - 2008 Olympic Games (Beijing, CHN)																		
date	18-Aug-08	time	2.56	3.69	4.70	5.72	6.73	7.75	8.75	9.76	10.79	11.84		12.96	3 / 5			
reaction time	0.118	interval	1.13	1.01	1.02	1.01	1.02	1.00	1.01	1.03	1.05	1.12				3.16	3.03	3.09
wind	0.2 m/s	velocity	5.08	7.52	8.42	8.33	8.42	8.33	8.50	8.42	8.25	8.10	9.37	7.72		8.07	8.42	8.25

*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance***Trywiańska, Aurelia (POL) (1976)**

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2007 Osaka Grand Prix (Osaka, JPN)																		
date	05-May-07	time	2.52	3.57	4.59	5.59	6.59	7.60	8.60	9.62	10.64	11.68		12.93	1 / 4			
reaction time		interval	1.05	1.02	1.00	1.00	1.01	1.00	1.00	1.02	1.04	1.25				3.07	3.01	3.08
wind	0.0 m/s	velocity	5.16	8.10	8.33	8.50	8.50	8.42	8.50	8.33	8.33	8.17	8.40	7.73		8.31	8.47	8.28

*Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles***FINAL** - 2007 Mikio Oda Memorial (Hiroshima, JPN)*Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles*

date	29-Apr-07	time	2.47	3.51	4.52	5.51	6.49	7.48	8.48	9.49	10.53	11.57		12.83	1 / 1			
reaction time		interval	1.04	1.01	0.99	0.98	0.99	1.00	1.01	1.04	1.04	1.26				3.04	2.97	3.09
wind	1.4 m/s	velocity	5.26	8.17	8.42	8.59	8.67	8.59	8.50	8.42	8.17	8.17	8.33	7.79		8.39	8.59	8.25

Tsuchiya, Honoka (JPN) (2004)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
U18 FINAL - 2018 National Sports Festival (Fukui, JPN) (76cm)																		
date	07-Oct-18	time	2.72	3.80	4.89	5.95	7.06	8.14	9.23	10.35	11.48	12.60		13.83	3 / 5			
reaction time	0.167	interval	1.08	1.09	1.06	1.11	1.08	1.09	1.12	1.13	1.12	1.23				3.23	3.28	3.37

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

wind	2.0 m/s	velocity	4.78	7.87	7.80	8.02	7.66	7.87	7.80	7.59	7.52	7.59	8.54	7.23		7.89	7.77	7.57
Tuvesson, Emma (SWE) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Windsprint (Sundsvall, SWE)																<i>(2013) - www.ssg.se/windsprint/Splittider/</i>		
date	28-Jul-13	time	2.78	3.89	5.03	6.11	7.19	8.25	9.33	10.42	11.53	12.65		13.90	6 / 4			
reaction time		interval	1.11	1.14	1.08	1.08	1.06	1.08	1.09	1.11	1.12	1.25				3.33	3.22	3.32
wind	1.2 m/s	velocity	4.68	7.66	7.46	7.87	7.87	8.02	7.87	7.80	7.66	7.59	8.40	7.19		7.66	7.92	7.68
FINAL - 2011 Windsprint (Sundsvall, SWE)																<i>Blomkvist (2011) - www.sub13.se</i>		
date	31-Jul-11	time	2.73	3.80	4.85	5.92	6.97	8.02	9.06	10.11	11.17	12.25		13.43	/ 3			
reaction time		interval	1.07	1.05	1.07	1.05	1.05	1.04	1.05	1.06	1.08	1.18				3.19	3.14	3.19
wind	1.4 m/s	velocity	4.76	7.94	8.10	7.94	8.10	8.10	8.17	8.10	8.02	7.87	8.90	7.45		7.99	8.12	7.99
Race 1 - 2011 European Team Championships (Stockholm, SWE)																<i>Blomkvist (2011) - www.sub13.se</i>		
date	19-Jun-11	time	2.68	3.76	4.84	5.90	6.96	8.03	9.10	10.18	11.24	12.32		13.62	/ 5			
reaction time	0.195	interval	1.08	1.08	1.06	1.06	1.07	1.07	1.08	1.06	1.08	1.30				3.22	3.20	3.22
wind	-1.0 m/s	velocity	4.85	7.87	7.87	8.02	8.02	7.94	7.94	7.87	8.02	7.87	8.08	7.34		7.92	7.97	7.92
FINAL - 2011 Landskamp FIN-SWE-NOR (Tammefors, FIN)																<i>Blomkvist (2011) - www.sub13.se</i>		
date	05-Feb-11	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		
FINAL - 2010 Swedish National Championships (Falun, SWE)																<i>Blomkvist (2010) - www.sub13.se</i>		
date	22-Aug-10	time	2.77	3.89	4.97	6.04	7.11	8.15	9.23	10.32	11.41	12.50		13.71	/ 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
wind	-0.2 m/s	velocity	4.69	7.59	7.87	7.94	7.94	8.17	7.87	7.80	7.80	7.80	8.68	7.29		7.80	7.99	7.80
Tuzzi, Carla (ITA) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1997 European Cup (Munich, GER)																<i>Jung (2003) - http://www.fgs.uni-halle.de</i>		
date	22-Jun-97	time	2.68	3.76	4.80	5.81	6.84	7.84	8.87	9.95	11.00	12.10		13.23	/ 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
wind	0.7 m/s	velocity	4.85	7.87	8.17	8.42	8.25	8.50	8.25	7.87	8.10	7.73	9.29	7.56		8.15	8.33	7.89
Tymińska, Karolina (POL) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 1 - 2011 European Team Championships (Stockholm, SWE)																<i>Blomkvist (2011) - www.sub13.se</i>		
date	19-Jun-11	time	2.62	3.68	4.76	5.80	6.86	7.88	8.92	9.96	11.06	12.20		13.51	/ 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
wind	-1.0 m/s	velocity	4.96	8.02	7.87	8.17	8.02	8.33	8.17	8.17	7.73	7.46	8.02	7.40		8.02	8.17	7.77
Heptathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)																<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>		
date	15-Aug-09	time	2.75	3.88	4.99	6.04	7.12	8.19	9.23	10.30	11.40	12.50		13.67	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
wind	-0.1 m/s	velocity	4.73	7.52	7.66	8.10	7.87	7.94	8.17	7.94	7.73	7.73	8.97	7.32		7.75	7.99	7.80
Uenosono, Yuiko (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
A FINAL - 2018 National Sports Festival (Fukui, JPN)																<i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>		
date	08-Oct-18	time	2.67	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
wind	2.5 m/s	velocity	4.87	7.80	7.80	7.94	7.94	7.46	7.52	7.46	7.39	7.46	8.40	7.17		7.85	7.63	7.43
FNAL - 2018 Japanese National High School Championships (Nagoya, JPN)																<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>		
date	02-Aug-18	time	2.72	3.85	4.95	6.06	7.20	8.33	9.46	10.59	11.78	12.95		14.26	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
wind	-0.3 m/s	velocity	4.78	7.52	7.73	7.66	7.46	7.52	7.52	7.52	7.14	7.26	8.02	7.01		7.63	7.50	7.31
Ukiya, Saito (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Gunma Prefecture High School Championships (Gunma, JPN)																<i>(2016.10.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>		
date	24-Sep-16	time	2.70	3.85	4.97	6.09	7.20	8.31	9.46	10.61	11.76	12.94		14.22	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
wind	-0.3 m/s	velocity	4.81	7.39	7.59	7.59	7.66	7.66	7.39	7.39	7.39	7.20	8.20	7.03		7.52	7.57	7.33
Umahara, Satsuki (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Japanese University Championships (Kumagaya, JPN)																<i>(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>		
date	04-Sep-16	time	2.69	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
wind	-0.2 m/s	velocity	4.83	7.87	8.02	7.94	8.10	7.94	7.94	7.87	7.73	7.59	8.75	7.36		7.94	7.99	7.73
Urech, Lisa (SUI) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Swiss National Championships (Zürich, SUI)																<i>Rees (2009) - wettkampauswertung 100m hürden - frauen/w.jgd.A+B</i>		
date	02-Aug-09	time	2.62	3.66	4.70	5.70	6.70	7.70	8.74	9.78	10.82	11.86		13.01	/ 1			
reaction time		interval	1.04	1.04	1.00	1.00	1.00	1.04	1.04	1.04	1.04	1.15		NUR		3.08	3.04	3.12
wind	1.2 m/s	velocity	4.96	8.17	8.17	8.50	8.50	8.50	8.17	8.17	8.17	8.17	9.13	7.69		8.28	8.39	8.17

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Utsunomiya, Eri (JPN) (1993)																	
Heptathlon - Heat 3 - 2019 Japanese National Multi-Event Championships (Nagano, JPN)												<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>					
date	08-Jun-19	time	2.75	3.88	4.98	6.07	7.15	8.23	9.31	10.41	11.51	12.61	13.81	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
wind	2.3 m/s	velocity	4.73	7.52	7.73	7.80	7.87	7.87	7.73	7.73	7.73	8.75	7.24		7.68	7.87	7.73
Heptathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)																	
<i>Matsubayashi (2018) - research on athlete performance and technique</i>																	
date	16-Jun-18	time	2.74	3.83	4.94	6.02	7.09	8.19	9.31	10.39	11.49	12.62	13.80	5 / 3			
reaction time		interval	1.09	1.11	1.08	1.07	1.10	1.12	1.08	1.10	1.13	1.18	PB		3.28	3.29	3.31
wind	1.6 m/s	velocity	4.74	7.80	7.66	7.87	7.94	7.73	7.59	7.87	7.73	7.52	8.90	7.25	7.77	7.75	7.70
Heptathlon - Heat 2 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN)																	
<i>Matsubayashi (2018) - research on athlete performance and technique- 2018 data book</i>																	
date	21-Apr-18	time	2.74	3.89	4.98	6.08	7.17	8.29	9.40	10.51	11.61	12.72	13.92	4 / 1			
reaction time		interval	1.15	1.09	1.10	1.09	1.12	1.11	1.11	1.10	1.11	1.20	=PB		3.34	3.32	3.32
wind	-2.4 m/s	velocity	4.74	7.39	7.80	7.73	7.80	7.59	7.66	7.66	7.73	7.66	8.75	7.18	7.63	7.68	7.68
Vachová, Anna (CZE) (1995)																	
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE)												<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.85	4.01	5.18	6.34	7.53	8.71	9.89	11.10	12.30	13.55	14.81	3 / 3			
reaction time	0.171	interval	1.16	1.17	1.16	1.19	1.18	1.18	1.21	1.20	1.25	1.26			3.49	3.55	3.66
wind	-3.9 m/s	velocity	4.56	7.33	7.26	7.33	7.14	7.20	7.20	7.02	7.08	6.80	8.33	6.75	7.31	7.18	6.97
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE)																	
<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																	
date	28-Jun-14	time	2.83	4.00	5.15	6.30	7.49	8.65	9.86	11.07	12.27	13.54	14.89	4 / 2			
reaction time	0.184	interval	1.17	1.15	1.15	1.19	1.16	1.21	1.21	1.20	1.27	1.35			3.47	3.56	3.68
wind	-1.5 m/s	velocity	4.59	7.26	7.39	7.39	7.14	7.33	7.02	7.02	7.08	6.69	7.78	6.72	7.35	7.16	6.93
Valadzko, Yauhenia (BLR) (1981)																	
FINAL - 2007 European Cup (Munich, GER)												<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>					
date	24-Jun-07	time	2.76	3.80	4.83	5.84	6.85	7.88	8.89	9.93	10.99	12.09	13.25	1 / 6			
reaction time	0.248	interval	1.04	1.03	1.01	1.01	1.03	1.01	1.04	1.06	1.10	1.16			3.08	3.05	3.20
wind	0.9 m/s	velocity	4.71	8.17	8.25	8.42	8.42	8.25	8.42	8.17	8.02	7.73	9.05	7.55	8.28	8.36	7.97
Likhuta, Yauhenia (BLR) (1981)																	
FINAL - 2001 European Cup (Bremen, GER)												<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>					
date	24-Jun-01	time	2.72	3.79	4.90	5.98	7.03	8.16	9.28								
reaction time	0.151	interval	1.07	1.11	1.08	1.05	1.13	1.12					DQ		3.26	3.30	
wind	0.6 m/s	velocity	4.78	7.94	7.66	7.87	8.10	7.52	7.59						7.82	7.73	
Valášková, Tereza (CZE) (1998)																	
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)												<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.84	4.06	5.31	6.62	8.00	9.35	10.73	12.14	13.63	15.09	16.82	6 / 6			
reaction time	0.166	interval	1.22	1.25	1.31	1.38	1.35	1.38	1.41	1.49	1.46	1.73			3.78	4.11	4.36
wind	-7.3 m/s	velocity	4.58	6.97	6.80	6.49	6.16	6.30	6.16	6.03	5.70	5.82	6.07	5.95	6.75	6.20	5.85
Valette, Laura (FRA) (1997)																	
Heat 1 - 2024 FBK Games (Hengelo, NED)												<i>Omega Timing (2024) - continental tour gold race analysis</i>					
date	07-Jul-24	time	2.55	3.65	4.74	5.75	6.82	7.89	8.98	10.08	11.19	12.32	13.71	2 / 8			
reaction time	0.133	interval	1.10	1.09	1.01	1.07	1.07	1.09	1.10	1.11	1.13	1.39			3.20	3.23	3.34
wind	0.3 m/s	velocity	5.10	7.73	7.80	8.42	7.94	7.94	7.80	7.73	7.66	7.52	7.23	7.29	7.97	7.89	7.63
FINAL - 2021 Müller Grand Prix (Gateshead, GBR) (TV Analysis)																	
<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																	
date	23-May-21	time	2.64	3.74	4.80	5.88	6.94	7.98	9.04	10.10	11.20	12.32	13.59	7 / 8			
reaction time	0.142	interval	1.10	1.06	1.08	1.06	1.04	1.06	1.06	1.10	1.12	1.27			3.24	3.16	3.28
wind	-3.9 m/s	velocity	4.92	7.73	8.02	7.87	8.02	8.17	8.02	8.02	7.73	7.59	7.91	7.36	7.87	8.07	7.77
FINAL - 2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																	
date	31-May-18	time	2.60	3.68	4.72	5.76	6.80	7.84	8.86	9.88	10.94	12.04	13.30	9 / 7			
reaction time	0.138	interval	1.08	1.04	1.04	1.04	1.04	1.02	1.02	1.06	1.10	1.26			3.16	3.10	3.18
wind	0.0 m/s	velocity	5.00	7.87	8.17	8.17	8.17	8.17	8.33	8.33	8.02	7.73	8.33	7.52	8.07	8.23	8.02
Vanninen, Saga (FIN) (2003)																	
Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)												<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	08-Aug-24	time	2.59	3.69	4.74	5.81	6.86	7.91	8.99	10.06	11.15	12.25	13.61	5 / 6			
reaction time	0.160	interval	1.10	1.05	1.07	1.05	1.05	1.08	1.07	1.09	1.10	1.36			3.22	3.18	3.26
wind	0.0 m/s	velocity	5.02	7.73	8.10	7.94	8.10	8.10	7.87	7.94	7.80	7.73	7.39	7.35	7.92	8.02	7.82
Vargas, Andrea Carolina (CRC) (1996)																	
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)												<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	24-Jul-22	time	2.60	3.62	4.62	5.60	6.53	7.50	8.52	9.54	10.54	11.62	12.82	8 / 7			
reaction time	0.154	interval	1.02	1.00	0.98	0.93	0.97	1.02	1.02	1.00	1.08	1.20			3.00	2.92	3.10
wind	0.9 m/s	velocity	5.00	8.33	8.50	8.67	9.14	8.76	8.33	8.33	8.50	7.87	8.37	7.80	8.50	8.73	8.23

Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	23-Jul-22	time	2.56	3.66	4.70	5.72	6.72	7.74	8.76	9.83	10.86	11.93	13.12	5 / 3			
reaction time	0.122	interval		1.10	1.04	1.02	1.00	1.02	1.02	1.07	1.03	1.07	1.19		3.16	3.04	3.17
wind	0.7 m/s	velocity	5.08	7.73	8.17	8.33	8.50	8.33	8.33	7.94	8.25	7.94	8.45	7.62	8.07	8.39	8.04

FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	12-Jun-22	time	2.53	3.58	4.62	5.63	6.65	7.63	8.63	9.65	10.67	11.70	12.90	7 / 5			
reaction time	0.124	interval		1.05	1.04	1.01	1.02	0.98	1.00	1.02	1.02	1.03	1.20		3.10	3.00	3.07
wind	2.0 m/s	velocity	5.14	8.10	8.17	8.42	8.33	8.67	8.50	8.33	8.33	8.25	8.37	7.75	8.23	8.50	8.31

FINAL - 2019 IAAF World Championships (Doha, QAT)*CAA Hurdle Development (2019)*

date	06-Oct-19	time	2.48	3.52	4.50	5.49	6.47	7.44	8.43	9.41	10.43	11.44	12.64	3 / 5			
reaction time	0.157	interval		1.04	0.98	0.99	0.98	0.97	0.99	0.98	1.02	1.01	1.20	NR	3.01	2.94	3.01
wind	0.3 m/s	velocity	5.24	8.17	8.67	8.59	8.67	8.76	8.59	8.67	8.33	8.42	8.37	7.91	8.47	8.67	8.47

Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)*CAA Hurdle Development (2019)*

date	06-Oct-19	time	2.57	3.60	4.57	5.56	6.53	7.51	8.51	9.49	10.50	11.53	12.65	4 / 3			
reaction time	0.150	interval		1.03	0.97	0.99	0.97	0.98	1.00	0.98	1.01	1.03	1.12	NR	2.99	2.95	3.02
wind	0.6 m/s	velocity	5.06	8.25	8.76	8.59	8.76	8.67	8.50	8.67	8.42	8.25	8.97	7.91	8.53	8.64	8.44

FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	08-Aug-19	time	2.51	3.54	4.54	5.54	6.52	7.52	8.50	9.52	10.52	11.56	12.82	4 / 1			
reaction time	0.149	interval		1.03	1.00	1.00	0.98	1.00	0.98	1.02	1.00	1.04	1.26		3.03	2.96	3.06
wind	0.1 m/s	velocity	5.18	8.25	8.50	8.50	8.67	8.50	8.67	8.33	8.50	8.17	8.33	7.80	8.42	8.61	8.33

Vávrová, Denisa (CZE) (1998)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)***Fehér (2015) - Final report U18 & U20 Czech Republic indoor national championships*

date	14-Feb-15	time	2.78	3.94	5.05	6.23	7.38						8.94	2 / 5			
reaction time	0.149	interval		1.16	1.11	1.18	1.15						1.56		3.45		
		velocity	4.68	7.33	7.66	7.20	7.39						8.33	6.71	7.39		

FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)*Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.76	3.89	5.03	6.20	7.40	8.58	9.78	11.16	12.39	13.74	15.15	1 / 7			
reaction time	0.138	interval		1.13	1.14	1.17	1.20	1.18	1.20	1.38	1.23	1.35	1.41		3.44	3.58	3.96
wind	-3.6 m/s	velocity	4.71	7.52	7.46	7.26	7.08	7.20	7.08	6.16	6.91	6.30	7.45	6.60	7.41	7.12	6.44

Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)*Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.78	3.91	5.05	6.19	7.35	8.54	9.72	10.95	12.18	13.47	14.94	8 / 3			
reaction time	0.141	interval		1.13	1.14	1.14	1.16	1.19	1.18	1.23	1.23	1.29	1.47		3.41	3.53	3.75
wind	-1.8 m/s	velocity	4.68	7.52	7.46	7.46	7.33	7.14	7.20	6.91	6.91	6.59	7.14	6.69	7.48	7.22	6.80

Vazquez, Paolo (PUR) (1998)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)***Henson (2023) - Athlete First: 2023 year end hurdle report*

date	24-Jun-23	time	2.75	3.83	4.87	5.90	6.90	7.91	8.93	9.96	11.02	12.09	13.29	9 / 8			
reaction time	0.251	interval		1.08	1.04	1.03	1.00	1.01	1.02	1.03	1.06	1.07	1.20		3.15	3.03	3.16
wind	2.8 m/s	velocity	4.73	7.87	8.17	8.25	8.50	8.42	8.33	8.25	8.02	7.94	8.38	7.52	8.10	8.42	8.07

FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	12-Jun-22	time	2.60	3.70	4.73	5.80	6.83	7.83	8.86	9.90	10.93	12.03	13.29	1 / 8			
reaction time	0.179	interval		1.10	1.03	1.07	1.03	1.00	1.03	1.04	1.03	1.10	1.26		3.20	3.06	3.17
wind	2.0 m/s	velocity	5.00	7.73	8.25	7.94	8.25	8.50	8.25	8.17	8.25	7.73	7.98	7.52	7.97	8.33	8.04

Vento, Lotta (FIN) (1997)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2020 Finnish National Championships (Turku, FIN) (TV Analysis)***Henson (2020) - Athlete First: 2020 year end hurdle report*

date	14-Aug-20	time	2.76	3.86	4.93	6.03	7.13	8.20	9.30	10.36	11.46	12.56	13.84	1 / 6			
reaction time	0.154	interval		1.10	1.07	1.10	1.10	1.07	1.10	1.06	1.10	1.10	1.28		3.27	3.27	3.26
wind	1.0 m/s	velocity	4.71	7.73	7.94	7.73	7.73	7.94	7.73	8.02	7.73	7.73	7.85	7.23	7.80	7.80	7.82

Vesana, Veronica (ITA) (2002)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 2 - 2024 FBK Games (Hengelo, NED)***Omega Timing (2024) - continental tour gold race analysis*

date	07-Jul-24	time	2.46	3.53	4.58	5.61	6.64	7.72	8.80	9.88	10.94	12.04	13.37	9 / 7			
reaction time	0.146	interval		1.07	1.05	1.03	1.03	1.08	1.08	1.08	1.06	1.10	1.33		3.15	3.19	3.24
wind	0.3 m/s	velocity	5.28	7.94	8.10	8.25	8.25	7.87	7.87	7.87	8.02	7.73	7.56	7.48	8.10	7.99	7.87

Vetter, Anouk (NED) (1993)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.55	3.64	4.69	5.74	6.78	7.82	8.88	9.95	11.03	12.15	13.49	8 / 4			
reaction time	0.167	interval		1.09	1.05	1.05	1.04	1.04	1.06	1.07	1.08	1.12	1.34		3.19	3.14	3.27
wind	0.0 m/s	velocity	5.10	7.80	8.10	8.10	8.17	8.17	8.02	7.94	7.87	7.59	7.50	7.41	7.99	8.12	7.80

Vidts, Noor (BEL) (1996)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	2.52	3.60	4.64	5.65	6.66	7.67	8.70	9.73	10.77	11.82	13.10	4 / 3			
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reaction time	0.152	interval	1.08	1.04	1.01	1.01	1.01	1.03	1.03	1.04	1.05	1.28	PB	3.13	3.05	3.12	
wind	-0.1 m/s	velocity	5.16	7.87	8.17	8.42	8.42	8.42	8.25	8.25	8.17	8.10	7.85	7.63	8.15	8.36	8.17

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

date	03-Sep-21	time	2.66	3.78	4.84	5.90	6.90	7.96	9.02	10.08	11.18	12.28	13.55	1 / 7	3.24	3.12	3.26
reaction time	0.150	interval	1.12	1.06	1.06	1.00	1.06	1.06	1.06	1.06	1.10	1.10	1.27		7.87	8.17	7.82
wind	0.7 m/s	velocity	4.89	7.59	8.02	8.02	8.50	8.02	8.02	8.02	7.73	7.73	7.91	7.38			

Viková, Natálie (CZE) (1998)**Heat 1** - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm) *Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.96	4.22	5.49	6.74	8.01	9.26	10.53	11.78	13.06	14.37	15.69	5 / 6	3.78	3.79	3.84
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		6.75	6.73	6.64	
wind	-1.8 m/s	velocity	4.39	6.75	6.69	6.80	6.69	6.80	6.69	6.80	6.64	6.49	7.95	6.37			

Visser, Nadine (NED) (1995)**FINAL** - 2024 Memorial van damme (Brussels, BEL) *Omega Timing (2024) - diamond league race analysis*

date	14-Sep-24	time	2.57	3.56	4.54	5.51	6.46	7.42	8.39	9.37	10.37	11.41	12.54	2 / 2	2.94	2.88	3.02
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		8.67	8.85	8.44	
wind	0.4 m/s	velocity	5.06	8.59	8.67	8.76	8.95	8.85	8.76	8.67	8.50	8.17	8.89	7.97			

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

date	05-Sep-24	time	2.45	3.49	4.46	5.42	6.38	7.33	8.29	9.27	10.26	11.29	12.54	3 / 5	2.97	2.87	3.00
reaction time	0.140	interval	1.04	0.97	0.96	0.96	0.96	0.95	0.96	0.98	0.99	1.03	1.25		8.59	8.89	8.50
wind	0.8 m/s	velocity	5.31	8.17	8.76	8.85	8.85	8.95	8.85	8.67	8.59	8.25	8.04	7.97			

FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA) *Omega Timing (2024) - diamond league race analysis*

date	30-Aug-24	time	2.44	3.46	4.43	5.40	6.36	7.33	8.30	9.29	10.28	11.28	12.52	3 / 3	2.96	2.90	2.98
reaction time	0.145	interval	1.02	0.97	0.97	0.96	0.97	0.97	0.99	0.99	1.00	1.24		8.61	8.79	8.56	
wind	-0.4 m/s	velocity	5.33	8.33	8.76	8.76	8.85	8.76	8.76	8.59	8.59	8.50	8.10	7.99			

FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL) *Omega Timing (2024) - diamond league race analysis*

date	25-Aug-24	time	2.40	3.44	4.42	5.36	6.32	7.28	8.24	9.22	10.24	11.23	12.49	2 / 7	2.96	2.88	2.99
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		8.61	8.85	8.53	
wind	-0.5 m/s	velocity	5.42	8.17	8.67	9.04	8.85	8.85	8.85	8.67	8.33	8.59	7.98	8.01			

Heat B - 2024 Kamila Skolimowska Memorial (Silesia, POL) *Omega Timing (2024) - diamond league race analysis*

date	25-Aug-24	time	2.46	3.45	4.41	5.37	6.31	7.28	8.25	9.21	10.21	11.24	12.52	4 / 3	2.91	2.88	2.99
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		8.76	8.85	8.53	
wind	0.6 m/s	velocity	5.28	8.59	8.85	8.85	9.04	8.76	8.76	8.85	8.50	8.25	7.85	7.99			

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

date	22-Aug-24	time	2.43	3.46	4.44	5.39	6.33	7.28	8.24	9.22	10.22	11.24	12.49	6 / 4	2.96	2.85	3.00
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		8.61	8.95	8.50	
wind	-0.9 m/s	velocity	5.35	8.25	8.67	8.95	9.04	8.95	8.85	8.67	8.50	8.33	8.04	8.01			

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

date	10-Aug-24	time	2.40	3.43	4.40	5.37	6.32	7.26	8.23	9.19	10.18	11.17	12.43	3 / 4	2.97	2.86	2.94
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		8.59	8.92	8.67	
wind	-0.3 m/s	velocity	5.42	8.25	8.76	8.76	8.95	9.04	8.76	8.85	8.59	8.59	7.98	8.05			

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

date	09-Aug-24	time	2.42	3.44	4.41	5.36	6.29	7.25	8.21	9.19	10.17	11.18	12.43	7 / 2	2.94	2.85	2.97
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		8.67	8.95	8.59	
wind	0.4 m/s	velocity	5.37	8.33	8.76	8.95	9.14	8.85	8.85	8.67	8.67	8.42	8.04	8.05			

Heat 3 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympic Games - Results Book (2024)*

date	07-Aug-24	time	2.43	3.46	4.45	5.41	6.36	7.31	8.28	9.26	10.26	11.28	12.53	9 / 1	2.98	2.87	3.00
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		8.56	8.89	8.50	
wind	0.8 m/s	velocity	5.35	8.25	8.59	8.85	8.95	8.95	8.76	8.67	8.50	8.33	8.04	7.98			

A FINAL - 2024 Resisprint International (La Chaux-de-Fonds, SUI) (TV Analysis) *Henson (2024) - Athlete First: 2024 year end hurdle report*

date	14-Jul-24	time	2.56	3.58	4.56	5.50	6.45	7.38	8.33	9.29	10.28	11.28	12.36	4 / 1	2.94	2.83	2.95
reaction time		interval	1.02	0.98	0.94	0.95	0.93	0.95	0.96	0.99	1.00	1.08	NR PB		8.67	9.01	8.64
wind	1.6 m/s	velocity	5.08	8.33	8.67	9.04	8.95	9.14	8.95	8.85	8.59	8.50	9.31	8.09			

FINAL - 2024 FBK Games (Hengelo, NED) (TV Analysis) *Henson (2024) - Athlete First: 2024 year end hurdle report*

date	07-Jul-24	time	2.52	3.53	4.51	5.45	6.41	7.35	8.32	9.28	10.28	11.32	12.46	5 / 2	2.93	2.87	3.00
reaction time	0.133	interval	1.01	0.98	0.94	0.96	0.94	0.97	0.96	1.00	1.04	1.14	NR PB		8.70	8.89	8.50
wind	1.6 m/s	velocity	5.16	8.42	8.67	9.04	8.85	9.04	8.76	8.85	8.50	8.17	8.82	8.03			

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

date	07-Jul-24	time	2.40	3.48	4.43	5.43	6.39	7.39	8.40	9.39	10.40	11.43	12.69	6 / 2	3.03	2.97	3.03
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					

wind	0.3 m/s	velocity	5.42	7.87	8.95	8.50	8.85	8.50	8.42	8.59	8.42	8.25	7.98	7.88	8.42	8.59	8.42
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>			
date	08-Jun-24	time	2.57	3.63	4.63	5.57	6.53	7.50	8.48	9.47	10.48	11.53		12.72	3 / 5		
reaction time	0.150	interval		1.06	1.00	0.94	0.96	0.97	0.98	0.99	1.01	1.05	1.19		3.00	2.91	3.05
wind	0.8 m/s	velocity	5.06	8.02	8.50	9.04	8.85	8.76	8.67	8.59	8.42	8.10	8.45	7.86	8.50	8.76	8.36
FINAL - 2024 Villa de Madrid Indoor Meeting (Madrid, ESP) (TV Analysis)														<i>Henson (2024) Athlete First: Devynne Charlton 2024 Women's 60m Hurdles World Indoor Record</i>			
date	23-Feb-24	time	2.52	3.53	4.52	5.48	6.42							7.78	5 / 2		
reaction time	0.136	interval		1.01	0.99	0.96	0.94						1.36		2.96		
		velocity	5.16	8.42	8.59	8.85	9.04						9.56	7.71	8.61		
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	23-Aug-23	time	2.53	3.57	4.55	5.52	6.49	7.45	8.42	9.41	10.41	11.46		12.64	6 / 3		
reaction time	0.131	interval		1.04	0.98	0.97	0.97	0.96	0.97	0.99	1.00	1.05	1.18		2.99	2.90	3.04
wind	-0.7 m/s	velocity	5.14	8.17	8.67	8.76	8.76	8.85	8.76	8.59	8.50	8.10	8.52	7.91	8.53	8.79	8.39
Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	22-Aug-23	time	2.56	3.58	4.56	5.54	6.51	7.49	8.47	9.47	10.47	11.50		12.68	4 / 2		
reaction time	0.146	interval		1.02	0.98	0.98	0.97	0.98	0.98	1.00	1.00	1.03	1.18		2.98	2.93	3.03
wind	0.0 m/s	velocity	5.08	8.33	8.67	8.67	8.76	8.67	8.67	8.50	8.50	8.25	8.52	7.89	8.56	8.70	8.42
FINAL - 2023 Bauhaus Galan (Stockholm, SWE)														<i>Omega Timing (2023) - diamond league race analysis</i>			
date	02-Jul-23	time	2.47	3.52	4.54	5.54	6.54	7.53	8.54	9.56	10.59	11.65		12.97	6 / 5		
reaction time	0.149	interval		1.05	1.02	1.00	1.00	0.99	1.01	1.02	1.03	1.06	1.32		3.07	3.00	3.11
wind	0.9 m/s	velocity	5.26	8.10	8.33	8.50	8.50	8.59	8.42	8.33	8.25	8.02	7.61	7.71	8.31	8.50	8.20
FINAL - 2023 Athletissima (Lausanne, SUI)														<i>Omega Timing (2023) - diamond league race analysis</i>			
date	30-Jun-23	time	2.50	3.57	4.59	5.60	6.59	7.59	8.61	9.64	10.69	11.76		13.09	1 / 7		
reaction time	0.182	interval		1.07	1.02	1.01	0.99	1.00	1.02	1.03	1.05	1.07	1.33		3.10	3.01	3.15
wind	-1.4 m/s	velocity	5.20	7.94	8.33	8.42	8.59	8.50	8.33	8.25	8.10	7.94	7.56	7.64	8.23	8.47	8.10
FINAL - 2023 FBK Games (Hengelo, NED)														<i>Omega Timing (2023) - continental tour race analysis</i>			
date	04-Jun-23	time	2.39	3.43	4.42	5.40	6.38	7.36	8.35	9.35	10.36	11.41		12.71	4 / 2		
reaction time	0.133	interval		1.04	0.99	0.98	0.98	0.98	0.99	1.00	1.01	1.05	1.30		3.01	2.95	3.06
wind	0.2 m/s	velocity	5.44	8.17	8.59	8.67	8.67	8.67	8.59	8.50	8.42	8.10	7.73	7.87	8.47	8.64	8.33
FINAL - 2022 Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	02-Sep-22	time	2.50	3.53	4.50	5.47	6.47	7.47	8.47	9.50	10.57	11.64		12.88	8 / 8		
reaction time	0.174	interval		1.03	0.97	0.97	1.00	1.00	1.00	1.03	1.07	1.07	1.24		2.97	3.00	3.17
wind	0.1 m/s	velocity	5.20	8.25	8.76	8.76	8.50	8.50	8.50	8.25	7.94	7.94	8.10	7.76	8.59	8.50	8.04
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	26-Aug-22	time	2.50	3.53	4.53	5.53	6.51	7.51	8.51	9.51	10.53	11.58		12.81	1 / 7		
reaction time	0.171	interval		1.03	1.00	1.00	0.98	1.00	1.00	1.00	1.02	1.05	1.23		3.03	2.98	3.07
wind	-0.9 m/s	velocity	5.20	8.25	8.50	8.50	8.67	8.50	8.50	8.50	8.33	8.10	8.17	7.81	8.42	8.56	8.31
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	21-Aug-22	time	2.56	3.58	4.57	5.56	6.53	7.50	8.50	9.48	10.49	11.55		12.75	4 / 4		
reaction time	0.156	interval		1.02	0.99	0.99	0.97	0.97	1.00	0.98	1.01	1.06	1.20		3.00	2.94	3.05
wind	-0.1 m/s	velocity	5.08	8.33	8.59	8.59	8.76	8.76	8.50	8.67	8.42	8.02	8.38	7.84	8.50	8.67	8.36
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	24-Jul-22	time	2.53	3.53	4.53	5.52	6.48	7.46	8.44	9.46	10.46	11.52		12.66	6 / 3		
reaction time	0.125	interval		1.00	1.00	0.99	0.96	0.98	0.98	1.02	1.00	1.06	1.14		2.99	2.92	3.08
wind	0.3 m/s	velocity	5.14	8.50	8.50	8.59	8.85	8.67	8.67	8.33	8.50	8.02	8.82	7.90	8.53	8.73	8.28
Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	23-Jul-22	time	2.52	3.53	4.53	5.53	6.50	7.50	8.50	9.50	10.53	11.56		12.76	8 / 2		
reaction time	0.136	interval		1.01	1.00	1.00	0.97	1.00	1.00	1.00	1.03	1.03	1.20		3.01	2.97	3.06
wind	0.7 m/s	velocity	5.16	8.42	8.50	8.50	8.76	8.50	8.50	8.50	8.25	8.25	8.38	7.84	8.47	8.59	8.33
FINAL - 2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	30-Jun-22	time	2.50	3.52	4.50	5.50	6.46	7.46	8.46	9.46	10.50	11.55		12.76	1 / 6		
reaction time	0.136	interval		1.02	0.98	1.00	0.96	1.00	1.00	1.00	1.04	1.05	1.21		3.00	2.96	3.09
wind	-0.5 m/s	velocity	5.20	8.33	8.67	8.50	8.85	8.50	8.50	8.50	8.17	8.10	8.31	7.84	8.50	8.61	8.25
FINAL - 2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>			
date	14-Jun-22	time	2.56	3.60	4.56	5.56	6.52	7.50	8.48	9.48	10.50	11.54		12.72	5 / 3		
reaction time	0.167	interval		1.04	0.96	1.00	0.96	0.98	0.98	1.00	1.02	1.04	1.18		3.00	2.92	3.06
wind	0.2 m/s	velocity	5.08	8.17	8.85	8.50	8.85	8.67	8.67	8.50	8.33	8.17	8.52	7.86	8.50	8.73	8.33
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			

date	09-Jun-22	time	2.50	3.53	4.53	5.51	6.51	7.51	8.53	9.60	10.65	11.72		12.98	8 / 6			
reaction time	0.146	interval		1.03	1.00	0.98	1.00	1.00	1.02	1.07	1.05	1.07	1.26			3.01	3.02	3.19
wind	0.1 m/s	velocity	5.20	8.25	8.50	8.67	8.50	8.50	8.33	7.94	8.10	7.94	7.98	7.70		8.47	8.44	7.99
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	09-Sep-21	time	2.50	3.52	4.48	5.44	6.40	7.36	8.32	9.30	10.30	11.34		12.51	4 / 2			
reaction time	0.141	interval		1.02	0.96	0.96	0.96	0.96	0.96	0.98	1.00	1.04	1.17	NR PB		2.94	2.88	3.02
wind	0.4 m/s	velocity	5.20	8.33	8.85	8.85	8.85	8.85	8.85	8.67	8.50	8.17	8.59	7.99		8.67	8.85	8.44
FINAL - 2021 Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	03-Sep-21	time	2.54	3.56	4.54	5.52	6.50	7.46	8.44	9.44	10.46	11.50		12.69	7 / 1			
reaction time	0.141	interval		1.02	0.98	0.98	0.98	0.96	0.98	1.00	1.02	1.04	1.19			2.98	2.92	3.06
wind	0.7 m/s	velocity	5.12	8.33	8.67	8.67	8.67	8.85	8.67	8.50	8.33	8.17	8.45	7.88		8.56	8.73	8.33
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	28-Aug-21	time	2.52	3.52	4.52	5.50	6.46	7.42	8.40	9.38	10.38	11.40		12.58	3 / 2			
reaction time	0.152	interval		1.00	1.00	0.98	0.96	0.96	0.98	0.98	1.00	1.02	1.18	NR PB		2.98	2.90	3.00
wind	1.7 m/s	velocity	5.16	8.50	8.50	8.67	8.85	8.85	8.67	8.67	8.50	8.33	8.52	7.95		8.56	8.79	8.50
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	02-Aug-21	time	2.50	3.52	4.50	5.48	6.46	7.44	8.44	9.44	10.46	11.54		12.73	3 / 5			
reaction time	0.152	interval		1.02	0.98	0.98	0.98	0.98	1.00	1.00	1.02	1.08	1.19			2.98	2.96	3.10
wind	-0.3 m/s	velocity	5.20	8.33	8.67	8.67	8.67	8.67	8.50	8.50	8.33	7.87	8.45	7.86		8.56	8.61	8.23
FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	06-Jul-21	time	2.57	3.58	4.58	5.54	6.54	7.54	8.54	9.54	10.57	11.62		12.85	5 / 6			
reaction time	0.152	interval		1.01	1.00	0.96	1.00	1.00	1.00	1.00	1.03	1.05	1.23			2.97	3.00	3.08
wind	0.2 m/s	velocity	5.06	8.42	8.50	8.85	8.50	8.50	8.50	8.50	8.25	8.10	8.17	7.78		8.59	8.50	8.28
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	13-Jul-21	time	2.57	3.60	4.58	5.56	6.54	7.51	8.49	9.49	10.51	11.58		12.78	7 / 3			
reaction time	0.180	interval		1.03	0.98	0.98	0.98	0.97	0.98	1.00	1.02	1.07	1.20			2.99	2.93	3.09
wind	1.5 m/s	velocity	5.06	8.25	8.67	8.67	8.67	8.76	8.67	8.50	8.33	7.94	8.38	7.82		8.53	8.70	8.25
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	07-Mar-21	time	2.46	3.50	4.46	5.44	6.42							7.77	5 / 1			
reaction time	0.135	interval		1.04	0.96	0.98	0.98						1.35	NR PB		2.98		
		velocity	5.28	8.17	8.85	8.67	8.67						9.63	7.72		8.56		
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	17-Sep-20	time	2.52	3.56	4.56	5.52	6.50	7.48	8.48	9.48	10.52	11.56		12.72	6 / 1			
reaction time	0.156	interval		1.04	1.00	0.96	0.98	0.98	1.00	1.00	1.04	1.04	1.16			3.00	2.96	3.08
wind	0.1 m/s	velocity	5.16	8.17	8.50	8.85	8.67	8.67	8.50	8.50	8.17	8.17	8.66	7.86		8.50	8.61	8.28
FINAL - 2020 Galà dei Castelli (Bellinzona, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	15-Sep-20	time	2.52	3.56	4.56	5.56	6.56	7.54	8.52	9.52	10.56	11.62		12.79	5 / 1			
reaction time		interval		1.04	1.00	1.00	1.00	0.98	0.98	1.00	1.04	1.06	1.17			3.04	2.96	3.10
wind	0.0 m/s	velocity	5.16	8.17	8.50	8.50	8.50	8.67	8.67	8.50	8.17	8.02	8.59	7.82		8.39	8.61	8.23
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	19-Aug-20	time	2.49	3.50	4.50	5.47	6.44	7.41	8.41	9.41	10.42	11.44		12.68	5 / 1			
reaction time	0.145	interval		1.01	1.00	0.97	0.97	0.97	1.00	1.00	1.01	1.02	1.24			2.98	2.94	3.03
wind	-0.2 m/s	velocity	5.22	8.42	8.50	8.76	8.76	8.76	8.50	8.50	8.42	8.33	8.10	7.89		8.56	8.67	8.42
FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	11-Aug-20	time	2.50	3.52	4.54	5.54	6.50	7.48	8.48	9.46	10.48	11.50		12.68	4 / 1			
reaction time	0.137	interval		1.02	1.02	1.00	0.96	0.98	1.00	0.98	1.02	1.02	1.18			3.04	2.94	3.02
wind	1.2 m/s	velocity	5.20	8.33	8.33	8.50	8.85	8.67	8.50	8.67	8.33	8.33	8.52	7.89		8.39	8.67	8.44
FINAL - 2019 IAAF World Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>				
date	06-Oct-19	time	2.48	3.51	4.49	5.46	6.43	7.38	8.37	9.36	10.36	11.43		12.66	2 / 6			
reaction time	0.147	interval		1.03	0.98	0.97	0.97	0.95	0.99	0.99	1.00	1.07	1.23			2.98	2.91	3.06
wind	0.3 m/s	velocity	5.24	8.25	8.67	8.76	8.76	8.95	8.59	8.59	8.50	7.94	8.17	7.90		8.56	8.76	8.33
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	06-Oct-19	time	2.48	3.50	4.48	5.44	6.40	7.38	8.34	9.32	10.34	11.38		12.62	5 / 3			
reaction time	0.148	interval		1.02	0.98	0.96	0.96	0.98	0.96	0.98	1.02	1.04	1.24	NR		2.96	2.90	3.04
wind	1.0 m/s	velocity	5.24	8.33	8.67	8.85	8.85	8.67	8.85	8.67	8.33	8.17	8.10	7.92		8.61	8.79	8.39
FINAL - 2019 Bislett Games (Oslo, NOR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	13-Jun-19	time	2.60	3.64	4.64	5.66	6.66	7.66	8.66	9.68	10.72	11.80		13.00	2 / 5			
reaction time	0.159	interval		1.04	1.00	1.02	1.00	1.00	1.00	1.02	1.04	1.08	1.20			3.06	3.00	3.14
wind	1.1 m/s	velocity	5.00	8.17	8.50	8.33	8.50	8.50	8.50	8.33	8.17	7.87	8.75	7.69		8.33	8.50	8.12

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

date	30-May-19	time	2.60	3.68	4.68	5.72	6.74	7.76	8.80	9.84	10.92	12.08	13.39	7 / 8			
reaction time	0.162	interval		1.08	1.00	1.04	1.02	1.02	1.04	1.04	1.08	1.16	1.31		3.12	3.08	3.28
wind	1.3 m/s	velocity	5.00	7.87	8.50	8.17	8.33	8.33	8.17	8.17	7.87	7.33	8.02	7.47	8.17	8.28	7.77

*Henson (2020) - Athlete First: 2019 year end hurdle report***FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)**

date	31-Aug-18	time	2.56	3.56	4.56	5.54	6.52	7.52	8.52	9.52	10.54	11.60	12.81	8 / 6			
reaction time	0.151	interval		1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.02	1.06	1.21		2.98	2.98	3.08
wind	0.1 m/s	velocity	5.08	8.50	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.02	8.68	7.81	8.56	8.56	8.28

*Henson (2020) - Athlete First: 2018 year end hurdle report***FINAL - 2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)**

date	10-Jun-18	time	2.54	3.56	4.54	5.52	6.48	7.46	8.46	9.42	10.46	11.50	12.71	1 / 4			
reaction time	0.135	interval		1.02	0.98	0.98	0.96	0.98	1.00	0.96	1.04	1.04	1.21	NR PB	2.98	2.94	3.04
wind	1.3 m/s	velocity	5.12	8.33	8.67	8.67	8.85	8.67	8.50	8.85	8.17	8.17	8.68	7.87	8.56	8.67	8.39

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

date	31-May-18	time	2.56	3.60	4.58	5.60	6.60	7.60	8.60	9.60	10.62	11.66	12.90	8 / 4			
reaction time	0.156	interval		1.04	0.98	1.02	1.00	1.00	1.00	1.00	1.02	1.04	1.24		3.04	3.00	3.06
wind	0.0 m/s	velocity	5.08	8.17	8.67	8.33	8.50	8.50	8.50	8.50	8.33	8.17	8.47	7.75	8.39	8.50	8.33

*Henson (2020) - Athlete First: 2018 year end hurdle report***FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)**

date	12-May-18	time	2.52	3.54	4.52	5.50	6.50	7.50	8.50	9.50	10.52	11.58	12.81	3 / 6			
reaction time	0.137	interval		1.02	0.98	0.98	1.00	1.00	1.00	1.00	1.02	1.06	1.23		2.98	3.00	3.08
wind	0.9 m/s	velocity	5.16	8.33	8.67	8.67	8.50	8.50	8.50	8.50	8.33	8.02	8.54	7.81	8.56	8.50	8.28

*Henson (2020) - Athlete First: 2018 year end hurdle report***FINAL - 2018 Doha Diamond League (Doha, QAT) (TV Analysis)**

date	04-May-18	time	2.56	3.60	4.60	5.60	6.60	7.58	8.60	9.60	10.64	11.68	12.94	8 / 7			
reaction time	0.160	interval		1.04	1.00	1.00	1.00	0.98	1.02	1.00	1.04	1.04	1.26		3.04	3.00	3.08
wind	0.5 m/s	velocity	5.08	8.17	8.50	8.50	8.50	8.67	8.33	8.50	8.17	8.17	8.33	7.73	8.39	8.50	8.28

*Henson (2020) - Athlete First: 2018 year end hurdle report***FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)**

date	03-Mar-18	time	2.65	3.66	4.67	5.63	6.58						7.84	4 / 3			
reaction time	0.153	interval		1.01	1.01	0.96	0.95						1.26		2.98		
		velocity	4.91	8.42	8.42	8.85	8.95						10.32	12.76	8.56		

*Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60m Hurdles Women***FINAL - 2017 IAAF World Championships (London, GBR)**

date	12-Aug-17	time	2.47	3.52	4.52	5.51	6.49	7.54	8.51	9.51	10.53	11.56	12.83	2 / 7			
reaction time	0.154	interval		1.05	1.00	0.99	0.98	1.05	0.97	1.00	1.02	1.03	1.27		3.04	3.00	3.05
wind	0.1 m/s	velocity	5.26	8.10	8.50	8.59	8.67	8.10	8.76	8.50	8.33	8.25	8.27	7.79	8.39	8.50	8.36

*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles***Semi-Final 1 - 2017 IAAF World Championships (London, GBR)**

date	11-Aug-17	time	2.48	3.53	4.54	5.54	6.53	7.50	8.49	9.49	10.50	11.54	12.83	7 / 3			
reaction time	0.175	interval		1.05	1.01	1.00	0.99	0.97	0.99	1.00	1.01	1.04	1.29		3.06	2.95	3.05
wind	0.5 m/s	velocity	5.24	8.10	8.42	8.50	8.59	8.76	8.59	8.50	8.42	8.17	8.14	7.79	8.33	8.64	8.36

*Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles***FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)**

date	09-Jul-17	time	2.54	3.56	4.58	5.56	6.54	7.52	8.54	9.54	10.58	11.62	12.86	9 / 6			
reaction time	0.146	interval		1.02	1.02	0.98	0.98	0.98	1.02	1.00	1.04	1.04	1.24		3.02	2.98	3.08
wind	0.2 m/s	velocity	5.12	8.33	8.33	8.67	8.67	8.67	8.33	8.50	8.17	8.17	8.47	7.78	8.44	8.56	8.28

*Henson (2020) - Athlete First: 2017 year end hurdle report***Vokálová, Tereza (CZE) (1998)****FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)**

date	14-Feb-15	time	2.72	3.79	4.87	5.94	7.04						8.45	5 / 1			
reaction time	0.179	interval		1.07	1.08	1.07	1.10						1.41		3.22		
		velocity	4.78	7.94	7.87	7.94	7.73						9.22	7.10	7.92		

*Fehér (2015) - Final report U18 & U20 Czech Republic indoor national championships***FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)**

date	28-Jun-14	time	2.75	3.87	4.98	6.08	7.18	8.27	9.39	10.50	11.65	12.79	14.05	6 / 2			
reaction time	0.149	interval		1.12	1.11	1.10	1.10	1.09	1.12	1.11	1.15	1.14	1.26		3.33	3.31	3.40
wind	-3.6 m/s	velocity	4.73	7.59	7.66	7.73	7.73	7.80	7.59	7.66	7.39	7.46	8.33	7.12	7.66	7.70	7.50

*Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships***Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)**

date	28-Jun-14	time	2.74	3.89	5.00	6.14	7.29	8.44	9.60	10.76	11.93	13.13	14.42	5 / 1			
reaction time	0.156	interval		1.15	1.11	1.14	1.15	1.15	1.16	1.16	1.17	1.20	1.29		3.40	3.46	3.53
wind	-7.3 m/s	velocity	4.74	7.39	7.66	7.46	7.39	7.39	7.33	7.33	7.26	7.08	8.14	6.93	7.50	7.37	7.22

*Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships***von Gerber, Alva (SWE) (2000)****National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)**

date	02-Jul-23	time	2.60	3.75	4.89	5.97	7.05	8.14	9.22	10.32	11.43	12.57	13.98	2 / 7			
reaction time	0.141	interval		1.15	1.14	1.08	1.08	1.09	1.08	1.10	1.11	1.14	1.41		3.37	3.25	3.35
wind	0.6 m/s	velocity	5.00	7.39	7.46	7.87	7.87	7.80	7.87	7.73	7.66	7.46	7.13	7.15	7.57	7.85	7.61

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	
Voronkova, Nelli (BLR) (1972)																		
FINAL - 1997 European Cup (Munich, GER)																		
date	22-Jun-97	time	2.79	3.94	4.99	6.10	7.17	8.26	9.35	10.47	11.59	12.73		13.90				
reaction time		interval		1.15	1.05	1.11	1.07	1.09	1.09	1.12	1.12	1.14	1.17			3.31	3.25	3.38
wind	0.7 m/s	velocity	4.66	7.39	8.10	7.66	7.94	7.80	7.80	7.59	7.59	7.46	8.97	7.19		7.70	7.85	7.54
Votinská, Barbora (CZE) (1996)																		
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE)																		
date	28-Jun-14	time	3.04	4.37	5.69	7.00	8.28	9.59	10.91	12.25	13.62	15.04		16.48	1 / 5			
reaction time	0.156	interval		1.33	1.32	1.31	1.28	1.31	1.32	1.34	1.37	1.42	1.44			3.96	3.91	4.13
wind	-1.5 m/s	velocity	4.28	6.39	6.44	6.49	6.64	6.49	6.44	6.34	6.20	5.99	7.29	6.07		6.44	6.52	6.17
Vukicevic, Christina (NOR) (1987)																		
FINAL - 2011 Landskamp FIN-SWE-NOR (Tammefors, FIN)																		
date	05-Feb-11	time	2.44	3.48	4.48	5.44	6.44							7.92	1 / 1			
reaction time		interval		1.04	1.00	0.96	1.00						1.48	NR		3.00		
		velocity	5.33	8.17	8.50	8.85	8.50						8.78	7.58		8.50		
Heat 4 - 2009 IAAF World Championships (Berlin, GER)																		
date	18-Aug-09	time	2.62	3.64	4.64	5.63	6.61	7.62	8.62	9.65	10.70	11.78		12.95	1 / 4			
reaction time	0.144	interval		1.02	1.00	0.99	0.98	1.01	1.00	1.03	1.05	1.08	1.17			3.01	2.99	3.16
wind	-0.3 m/s	velocity	4.96	8.33	8.50	8.59	8.67	8.42	8.50	8.25	8.10	7.87	8.97	7.72		8.47	8.53	8.07
FINAL - 2009 ISTAF (Berlin, GER)																		
date	14-Jun-09	time	2.61	3.63	4.63	5.65	6.66	7.67	8.69	9.73	10.79	11.87		13.04	1 / 5			
reaction time	0.175	interval		1.02	1.00	1.02	1.01	1.01	1.02	1.04	1.06	1.08	1.17			3.04	3.04	3.18
wind	-0.1 m/s	velocity	4.98	8.33	8.50	8.33	8.42	8.42	8.33	8.17	8.02	7.87	8.97	7.67		8.39	8.39	8.02
Vytlačilová, Tereza (CZE) (1995)																		
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)																		
date	02-Aug-14	time	2.95	4.16	5.36	6.57	7.77	9.00	10.21	11.45	12.72	14.02		15.41	8 / 7			
reaction time	0.141	interval		1.21	1.20	1.21	1.20	1.23	1.21	1.24	1.27	1.30	1.39			3.62	3.64	3.81
wind	-1.0 m/s	velocity	4.41	7.02	7.08	7.02	7.08	6.91	7.02	6.85	6.69	6.54	7.55	6.49		7.04	7.01	6.69
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE)																		
date	28-Jun-14	time	2.92	4.13	5.33	6.56	7.81	9.07	10.36	11.65	12.93	14.23		15.67	7 / 4			
reaction time	0.149	interval		1.21	1.20	1.23	1.25	1.26	1.29	1.29	1.28	1.30	1.44			3.64	3.80	3.87
wind	-4.5 m/s	velocity	4.45	7.02	7.08	6.91	6.80	6.75	6.59	6.59	6.64	6.54	7.29	6.38		7.01	6.71	6.59
Wada, Yuki (JPN) (1998)																		
FINAL - 2016 Fukui Perfecture High School Meeting (Fukui, JPN)																		
date	28-May-16	time	2.73	3.88	4.99	6.10	7.20	8.31	9.44	10.57	11.73	12.90		14.18	5 / 1			
reaction time		interval		1.15	1.11	1.11	1.10	1.11	1.13	1.13	1.16	1.17	1.28			3.37	3.34	3.46
wind	1.1 m/s	velocity	4.76	7.39	7.66	7.66	7.73	7.66	7.52	7.52	7.33	7.26	8.20	7.05		7.57	7.63	7.37
Walker, Astia (JAM) (1975)																		
FINAL - 1997 Southeastern Conference Championships (Auburn, AL)																		
date	18-May-97	time	2.50	3.51	4.51	5.51	6.51	7.49	8.46	9.42	10.39	11.38		12.82	1 / 1			
reaction time		interval		1.01	1.00	1.00	1.00	0.98	0.97	0.96	0.97	0.99	1.44			3.01	2.95	2.92
wind	1.4 m/s	velocity	5.20	8.42	8.50	8.50	8.50	8.67	8.76	8.85	8.76	8.59	7.29	7.80		8.47	8.64	8.73
Wallace, Sasha (USA) (1995)																		
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)																		
date	20-May-18	time	2.63	3.68	4.74	5.80	6.84	7.91	9.00	10.09	11.21	12.34		13.57	3 / 7			
reaction time	0.141	interval	7 steps	1.05	1.06	1.06	1.04	1.07	1.09	1.09	1.12	1.13	1.23			3.17	3.20	3.34
wind	-0.6 m/s	velocity	4.94	8.10	8.02	8.02	8.17	7.94	7.80	7.80	7.59	7.52	8.54	7.37		8.04	7.97	7.63
Wang Dou (CHN) (1993)																		
FINAL - 2021 Chinese National Games (Xi'an, CHN)																		
date	22-Sep-21	time	2.56	3.60	4.63	5.63	6.65	7.67	8.69	9.71	10.73	11.80		13.00	7 / 3			
reaction time	0.152	interval		1.04	1.03	1.00	1.02	1.02	1.02	1.02	1.02	1.07	1.20			3.07	3.06	3.11
wind	0.1 m/s	velocity	5.08	8.17	8.25	8.50	8.33	8.33	8.33	8.33	8.33	7.94	8.38	7.69		8.31	8.33	8.20
FINAL - 2021 Chinese National Championships (Chongqing, CHN)																		
date	25-Jun-21	time	2.70	3.73	4.75	5.75	6.75	7.77	8.79	9.81	10.86	11.91		13.02	5 / 3			
reaction time	0.235	interval		1.03	1.02	1.00	1.00	1.02	1.02	1.02	1.05	1.05	1.11			3.05	3.04	3.12
wind	1.7 m/s	velocity	4.81	8.25	8.33	8.50	8.50	8.33	8.33	8.33	8.10	8.10	9.05	7.68		8.36	8.39	8.17
Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)																		
date	25-Jun-21	time	2.75	3.81	4.87	5.91	6.93	7.97	9.02	10.09	11.16	12.25		13.41	5 / 2			
reaction time	0.202	interval		1.06	1.06	1.04	1.02	1.04	1.05	1.07	1.07	1.09	1.16			3.16	3.11	3.23
wind	-0.3 m/s	velocity	4.73	8.02	8.02	8.17	8.33	8.17	8.10	7.94	7.94	7.80	8.66	7.46		8.07	8.20	7.89

FINAL - 2021 Happy Chengdu Meeting (Chengdu, CHN)

date	15-May-21	time	2.67	3.74	4.79	5.86	6.87	7.90	8.93	9.96	11.00	12.04		13.16
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	
wind	-0.1 m/s	velocity	4.87	7.94	8.10	7.94	8.42	8.25	8.25	8.25	8.17	8.17	8.97	7.60

CAA Hurdle Development (2021)

4 / 1	3.19	3.07	3.11
	7.99	8.31	8.20

FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)

date	08-Apr-21	time	2.72	3.80	4.84	5.88	6.92	7.96	9.00	10.06	11.12	12.16		13.27
reaction time		interval		1.08	1.04	1.04	1.04	1.04	1.04	1.06	1.06	1.04	1.11	
wind	-0.1 m/s	velocity	4.78	7.87	8.17	8.17	8.17	8.17	8.17	8.02	8.02	8.17	9.05	7.54

CAA Hurdle Development (2021)

3 / 2	3.16	3.12	3.16
	8.07	8.17	8.07

FINAL - 2020 Chinese National Championships (Shaoxing, CHN)

date	15-Sep-20	time	2.72	3.79	4.83	5.88	6.92	7.98	9.04	10.10	11.18	12.27		13.40
reaction time	0.184	interval		1.07	1.04	1.05	1.04	1.06	1.06	1.06	1.08	1.09	1.13	
wind	-0.4 m/s	velocity	4.78	7.94	8.17	8.10	8.17	8.02	8.02	8.02	7.87	7.80	8.89	7.46

CAA Hurdle Development (2020)

5 / 3	3.16	3.16	3.23
	8.07	8.07	7.89

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

date	15-Sep-20	time	2.73	3.81	4.88	5.94	7.00	8.06	9.12	10.19	11.27	12.37		13.52
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	
wind	0.3 m/s	velocity	4.76	7.87	7.94	8.02	8.02	8.02	8.02	7.94	7.87	7.73	8.74	7.40

CAA Hurdle Development (2020)

7 / 2	3.21	3.18	3.25
	7.94	8.02	7.85

Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

date	23-Aug-19	time	2.82	3.94	5.04	6.14	7.24	8.34	9.46	10.61	11.75	12.86		14.13
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	
wind	-0.2 m/s	velocity	4.61	7.59	7.73	7.73	7.73	7.73	7.59	7.39	7.46	7.66	8.27	7.08

CAA Hurdle Development (2019)

6 / 5	3.32	3.32	3.40
	7.68	7.68	7.50

FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)

date	02-Aug-19	time	2.70	3.78	4.84	5.91	6.95	7.98	9.09	10.16	11.23	12.34		13.52
reaction time	0.170	interval		1.08	1.06	1.07	1.04	1.03	1.11	1.07	1.07	1.11	1.18	
wind	0.0 m/s	velocity	4.81	7.87	8.02	7.94	8.17	8.25	7.66	7.94	7.94	7.66	8.90	7.40

CAA Hurdle Development (2019)

7 / 4	3.21	3.18	3.25
	7.94	8.02	7.85

Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)

date	02-Aug-19	time	2.74	3.85	4.94	6.00	7.07	8.16	9.24	10.31	11.41	12.51		13.71
reaction time	0.180	interval		1.11	1.09	1.06	1.07	1.09	1.08	1.07	1.10	1.10	1.20	
wind	-0.3 m/s	velocity	4.74	7.66	7.80	8.02	7.94	7.80	7.87	7.94	7.73	7.73	8.75	7.29

CAA Hurdle Development (2019)

1 / 3	3.26	3.24	3.27
	7.82	7.87	7.80

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

date	08-Jul-19	time	2.79	3.88	4.96	6.04	7.10	8.20	9.28	10.38	11.48	12.60		13.79
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	
wind	1.3 m/s	velocity	4.66	7.80	7.87	7.87	8.02	7.73	7.87	7.73	7.73	7.59	8.82	7.25

CAA Hurdle Development (2019)

8 / 4	3.25	3.24	3.32
	7.85	7.87	7.68

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

date	23-May-19	time	2.76	3.82	4.88	5.92	6.98	8.04	9.10	10.16	11.26	12.34		13.53
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	
wind	0.4 m/s	velocity	4.71	8.02	8.02	8.17	8.02	8.02	8.02	8.02	7.73	7.87	8.82	7.39

CAA Hurdle Development (2019)

9 / 4	3.16	3.18	3.24
	8.07	8.02	7.87

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

date	13-Apr-19	time	2.71	3.80	4.84	5.88	6.94	8.00	9.06	10.13	11.20	12.30		13.48
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	
wind	0.3 m/s	velocity	4.80	7.80	8.17	8.17	8.02	8.02	8.02	7.94	7.94	7.73	8.90	7.42

CAA Hurdle Development (2019)

3 / 4	3.17	3.18	3.24
	8.04	8.02	7.87

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

date	13-Apr-19	time	2.78	3.86	4.94	6.02	7.08	8.16	9.28	10.38	11.51	12.66		13.91
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	
wind	0.2 m/s	velocity	4.68	7.87	7.87	7.87	8.02	7.87	7.59	7.73	7.52	7.39	8.40	7.19

CAA Hurdle Development (2019)

6 / 3	3.24	3.26	3.38
	7.87	7.82	7.54

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

date	09-Apr-19	time	2.71	3.78	4.84	5.90	6.94	8.02	9.06	10.12	11.18	12.28		13.47
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	
wind	0.1 m/s	velocity	4.80	7.94	8.02	8.02	8.17	7.87	8.17	8.02	8.02	7.73	8.82	7.42

CAA Hurdle Development (2019)

7 / 2	3.19	3.16	3.22
	7.99	8.07	7.92

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

date	08-Apr-19	time	2.74	3.80	4.86	5.92	6.98	8.02	9.09	10.16	11.26	12.34		13.58
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	
wind	-1.0 m/s	velocity	4.74	8.02	8.02	8.02	8.02	8.17	7.94	7.94	7.73	7.87	8.47	7.36

CAA Hurdle Development (2019)

2 / 2	3.18	3.17	3.25
	8.02	8.04	7.85

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

date	20-Mar-19	time	2.71	3.79	4.86	5.90	6.96							8.35
reaction time		interval		1.08	1.07	1.04	1.06						1.39	
		velocity	4.80	7.87	7.94	8.17	8.02						9.35	7.19

CAA Hurdle Development (2019)

5 / 2	3.19		
	7.99		

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

date	24-Feb-19	time	2.73	3.84	4.92	5.99	7.06							8.47
reaction time		interval		1.11	1.08	1.07	1.07						1.41	

CAA Hurdle Development (2019)

4 / 1	3.26		
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velocity	4.76	7.66	7.87	7.94	7.94							9.22	7.08		7.82
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A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)

date	20-Feb-19	time	2.73	3.82	4.89	5.96	7.00								8.43				CAA Hurdle Development (2019)
reaction time		interval		1.09	1.07	1.07	1.04						1.43						4 / 2
		velocity	4.76	7.80	7.94	7.94	8.17						9.09	7.12					3.23
																			7.89

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)

date	16-Sep-18	time	2.72	3.80	4.85	5.90	6.96	8.01	9.06	10.14	11.23	12.32			13.48					Henson (2018) - coaching observations
reaction time		interval		1.08	1.05	1.05	1.06	1.05	1.05	1.08	1.09	1.09	1.16							7 / 3
wind	-0.2 m/s	velocity	4.78	7.87	8.10	8.10	8.02	8.10	8.10	7.87	7.80	7.80	9.05	7.42						3.18 3.16 3.26
																				8.02 8.07 7.82

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

date	15-Sep-18	time	2.75	3.85	4.94	6.01	7.07	8.14	9.21	10.29	11.40	12.48			13.65					Henson (2018) - coaching observations
reaction time		interval		1.10	1.09	1.07	1.06	1.07	1.07	1.08	1.11	1.08	1.17							7 / 3
wind	0.0 m/s	velocity	4.73	7.73	7.80	7.94	8.02	7.94	7.94	7.87	7.66	7.87	8.97	7.33						3.26 3.20 3.27
																				7.82 7.97 7.80

FINAL - 2017 Chinese National Games (Tianjin, CHN)

date	04-Sep-17	time	2.68	3.75	4.82	5.85	6.86	7.93	8.97	10.03	11.11	12.19			13.34					Henson (2017) - coaching observations
reaction time		interval		1.07	1.07	1.03	1.01	1.07	1.04	1.06	1.08	1.08	1.15							6 / 2
wind	-0.2 m/s	velocity	4.85	7.94	7.94	8.25	8.42	7.94	8.17	8.02	7.87	7.87	9.13	7.50						3.17 3.12 3.22
																				8.04 8.17 7.92

Wang Huiqiong (CHN) (1990)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heptathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																			
date	24-Jun-21	time	2.95	4.15	5.35	6.55	7.76	8.97	10.19	11.42	12.74	14.06			15.72				CAA Hurdle Development (2021)
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						4 / 5
wind	0.3 m/s	velocity	4.41	7.08	7.08	7.08	7.02	7.02	6.97	6.91	6.44	6.44	6.05	6.36					3.60 3.64 3.87
																			7.08 7.01 6.59

Heptathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

date	23-Aug-19	time	2.92	4.10	5.26	6.41	7.57	8.72	9.94	11.18	12.43	13.68			15.08					CAA Hurdle Development (2019)
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							2 / 5
wind	?? m/s	velocity	4.45	7.20	7.33	7.39	7.33	7.39	6.97	6.85	6.80	6.80	7.50	6.63						3.49 3.53 3.74
																				7.31 7.22 6.82

Heptathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.88	4.05	5.22	6.37	7.52	8.67	9.85	11.03	12.26	13.51			14.87					CAA Hurdle Development (2019)
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							2 / 4
wind	0.8 m/s	velocity	4.51	7.26	7.26	7.39	7.39	7.39	7.20	7.20	6.91	6.80	7.72	6.72						3.49 3.48 3.66
																				7.31 7.33 6.97

Wang Li (CHN) (1999)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2021 Chinese National Games (Xi'an, CHN)																				
date	22-Sep-21	time	2.53	3.63	4.70	5.73	6.76	7.80	8.83	9.86	10.96	12.03			13.29					CAA Hurdle Development (2021)
reaction time	0.175	interval		1.10	1.07	1.03	1.03	1.04	1.03	1.03	1.10	1.07	1.26							4 / 6
wind	0.1 m/s	velocity	5.14	7.73	7.94	8.25	8.25	8.17	8.25	8.25	7.73	7.94	7.98	7.52						3.20 3.10 3.20
																				7.97 8.23 7.97

FINAL - 2021 Chinese Student Games (Qingdao, CHN)

date	14-Jul-21	time	2.62	3.67	4.70	5.77	6.81	7.84	8.90	9.97	11.07	12.17			13.42					CAA Hurdle Development (2021)
reaction time		interval		1.05	1.03	1.07	1.04	1.03	1.06	1.07	1.10	1.10	1.25							4 / 3
wind	-0.7 m/s	velocity	4.96	8.10	8.25	7.94	8.17	8.25	8.02	7.94	7.73	7.73	8.04	7.45						3.15 3.13 3.27
																				8.10 8.15 7.80

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

date	25-Jun-21	time	2.67	3.75	4.80	5.87	6.94	7.99	9.06	10.13	11.28	12.41			13.65					CAA Hurdle Development (2021)
reaction time	0.173	interval		1.08	1.05	1.07	1.07	1.05	1.07	1.07	1.07	1.15	1.13	1.24						3 / 3
wind	-1.6 m/s	velocity	4.87	7.87	8.10	7.94	7.94	8.10	7.94	7.94	7.39	7.52	8.10	7.33						3.20 3.19 3.35
																				7.97 7.99 7.61

FINAL - 2021 Chinese East Region Athletics Meeting (Fuzhou, CHN)

date	23-May-21	time	2.71	3.80	4.85	5.93	6.98	8.05	9.12	10.25	11.35	12.49			13.77					CAA Hurdle Development (2021)
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							8 / 6
wind	-0.5 m/s	velocity	4.80	7.80	8.10	7.87	8.10	7.94	7.94	7.52	7.73	7.46	7.85	7.26						3.22 3.19 3.37
																				7.92 7.99 7.57

FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)

date	08-Apr-21	time	2.72	3.80	4.88	6.00	7.08	8.20	9.32	10.44	11.60	12.76			14.05					CAA Hurdle Development (2021)
reaction time		interval		1.08	1.08	1.12	1.08	1.12	1.12	1.12	1.16	1.16	1.29							5 / 6
wind	-0.1 m/s	velocity	4.78	7.87	7.87	7.59	7.87	7.59	7.59	7.59	7.33	7.33	7.79	7.12						3.28 3.32 3.44
																				7.77 7.68 7.41

FINAL - 2020 Chinese National Championships (Shaoxing, CHN)

date	15-Sep-20	time	2.65	3.76	4.85	5.91	6.97	8.03	9.10	10.17	11.27	12.39			13.61					CAA Hurdle Development (2020)
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							9 / 6
wind	-0.4 m/s	velocity	4.91	7.66	7.80	8.02	8.02	8.02	7.94	7.94	7.73	7.59	8.24	7.35						3.26 3.19 3.29
																				7.82 7.99 7.75

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

date	15-Sep-20	time	2.69	3.76	4.82	5.89	6.95	8.03	9.11	10.23	11.34	12.46			13.64					CAA Hurdle Development (2020)
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							4 / 3
wind	0.3 m/s	velocity	4.83	7.94	8.02	7.94	8.02	7.87	7.87	7.59	7.66	7.59	8.52	7.33						3.20 3.22 3.35
																				7.97 7.92 7.61

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

date	23-Aug-19	time	2.82	3.95													dnf
reaction time	0.174	interval		1.13													
wind	0.2 m/s	velocity	4.61	7.52													

CAA Hurdle Development (2019)
8 / --**FINAL - 2019 Chinese National Championships (Shenyang, CHN)**

date	08-Jul-19	time	2.70	3.75	4.80	5.84	6.89	7.94	9.01	10.09	11.18	12.28		13.46				
reaction time	0.174	interval		1.05	1.05	1.04	1.05	1.05	1.07	1.08	1.09	1.10	1.18	PB		3.14	3.17	3.27
wind	0.2 m/s	velocity	4.81	8.10	8.10	8.17	8.10	8.10	7.94	7.87	7.80	7.73	8.90	7.43		8.12	8.04	7.80

CAA Hurdle Development (2019)

6 / 4

Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.70	3.76	4.82	5.88	6.92	7.97	9.02	10.10	11.20	12.32		13.56				
reaction time	0.178	interval		1.06	1.06	1.06	1.04	1.05	1.05	1.08	1.10	1.12	1.24			3.18	3.14	3.30
wind	0.5 m/s	velocity	4.81	8.02	8.02	8.02	8.17	8.10	8.10	7.87	7.73	7.59	8.47	7.37		8.02	8.12	7.73

CAA Hurdle Development (2019)

6 / 1

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

date	30-May-19	time	2.68	3.77	4.83	5.88	6.92	7.97	9.04	10.12	11.18	12.31		13.51				
reaction time	0.170	interval		1.09	1.06	1.05	1.04	1.05	1.07	1.08	1.06	1.13	1.20	PB		3.20	3.16	3.27
wind	-0.1 m/s	velocity	4.85	7.80	8.02	8.10	8.17	8.10	7.94	7.87	8.02	7.52	8.75	7.40		7.97	8.07	7.80

CAA Hurdle Development (2019)

8 / 2

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

date	23-May-19	time	2.70	3.80	4.86	5.92	6.98	8.04	9.14	10.22	11.32	12.46		13.75				
reaction time	0.179	interval		1.10	1.06	1.06	1.06	1.06	1.10	1.08	1.10	1.14	1.29			3.22	3.22	3.32
wind	0.4 m/s	velocity	4.81	7.73	8.02	8.02	8.02	8.02	7.73	7.87	7.73	7.46	8.14	7.27		7.92	7.92	7.68

CAA Hurdle Development (2019)

3 / 7

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

date	13-Apr-19	time	2.73	3.84	4.93	6.01	7.11	8.22	9.36	10.50	11.68	12.87		14.22				
reaction time	0.186	interval		1.11	1.09	1.08	1.10	1.11	1.14	1.14	1.18	1.19	1.35			3.28	3.35	3.51
wind	0.3 m/s	velocity	4.76	7.66	7.80	7.87	7.73	7.66	7.46	7.46	7.20	7.14	7.78	7.03		7.77	7.61	7.26

CAA Hurdle Development (2019)

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Heat 3 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)

date	13-Apr-19	time	2.68	3.76	4.82	5.90	6.95	8.03	9.11	10.25	11.39	12.56		13.86				
reaction time	0.192	interval		1.08	1.06	1.08	1.05	1.08	1.08	1.14	1.14	1.17	1.30			3.22	3.21	3.45
wind	1.0 m/s	velocity	4.85	7.87	8.02	7.87	8.10	7.87	7.87	7.46	7.46	7.26	8.08	7.22		7.92	7.94	7.39

CAA Hurdle Development (2019)

2 / 2

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

date	09-Apr-19	time	2.73	3.80	4.88	5.96	7.04	8.13	9.22	10.32	11.43	12.56		13.81				
reaction time	0.179	interval		1.07	1.08	1.08	1.08	1.09	1.09	1.10	1.11	1.13	1.25			3.23	3.26	3.34
wind	0.1 m/s	velocity	4.76	7.94	7.87	7.87	7.87	7.80	7.80	7.73	7.66	7.52	8.40	7.24		7.89	7.82	7.63

CAA Hurdle Development (2019)

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

date	08-Apr-19	time	2.73	3.83	4.93	5.99	7.06	8.14	9.24	10.32	11.45	12.58		13.83				
reaction time	0.178	interval		1.10	1.10	1.06	1.07	1.08	1.10	1.08	1.13	1.13	1.25			3.26	3.25	3.34
wind	-0.2 m/s	velocity	4.76	7.73	7.73	8.02	7.94	7.87	7.73	7.87	7.52	7.52	8.40	7.23		7.82	7.85	7.63

CAA Hurdle Development (2019)

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

date	20-Mar-19	time	2.70	3.80	4.89	5.97	7.04										8.51	
reaction time		interval		1.10	1.09	1.08	1.07										1.47	
		velocity	4.81	7.73	7.80	7.87	7.94										8.84	7.05

CAA Hurdle Development (2019)

2 / 4

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

date	24-Feb-19	time	2.70	3.80	4.89	5.97	7.05										8.52	
reaction time		interval		1.10	1.09	1.08	1.08										1.47	
		velocity	4.81	7.73	7.80	7.87	7.87										8.84	7.04

CAA Hurdle Development (2019)

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

date	20-Feb-19	time	2.73	3.85	4.94	6.00	7.07										8.50	
reaction time		interval		1.12	1.09	1.06	1.07										1.43	
		velocity	4.76	7.59	7.80	8.02	7.94										9.09	7.06

CAA Hurdle Development (2019)

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FINAL - 2018 Chinese National Championships (Taiyuan, CHN)

date	16-Sep-18	time	2.72	3.82	4.86	5.92	6.97	8.04	9.11	10.21	11.33	12.45		13.62				
reaction time		interval		1.10	1.04	1.06	1.05	1.07	1.07	1.10	1.12	1.12	1.17	PB		3.20	3.19	3.34
wind	-0.2 m/s	velocity	4.78	7.73	8.17	8.02	8.10	7.94	7.94	7.73	7.59	7.59	8.97	7.34		7.97	7.99	7.63

Henson (2018) - coaching observations

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Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)

date	15-Sep-18	time	2.72	3.80	4.89	5.94	7.01	8.06	9.14	10.24	11.35	12.46		13.64				
reaction time		interval		1.08	1.09	1.05	1.07	1.05	1.08	1.10	1.11	1.11	1.18	PB		3.22	3.20	3.32
wind	-0.6 m/s	velocity	4.78	7.87	7.80	8.10	7.94	8.10	7.87	7.73	7.66	7.66	8.90	7.33		7.92	7.97	7.68

Henson (2018) - coaching observations

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Wang Meiqing (CHN) (1996)**Heptathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)**

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

CAA Hurdle Development (2021)

date	24-Jun-21	time	2.77	3.92	5.07	6.20	7.33	8.47	9.64	10.79	11.96	13.16		14.42	8 / 1			
reaction time	0.216	interval		1.15	1.15	1.13	1.13	1.14	1.17	1.15	1.17	1.20	1.26			3.43	3.44	3.52
wind	0.3 m/s	velocity	4.69	7.39	7.39	7.52	7.52	7.46	7.26	7.39	7.26	7.08	7.98	6.93		7.43	7.41	7.24
Heptathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																		
CAA Hurdle Development (2019)																		
date	23-Aug-19	time	2.77	3.92	5.09	6.24	7.42	8.58	9.74	10.94	12.13	13.35		14.60	7 / 3			
reaction time	0.206	interval		1.15	1.17	1.15	1.18	1.16	1.16	1.20	1.19	1.22	1.25			3.47	3.50	3.61
wind	?? m/s	velocity	4.69	7.39	7.26	7.39	7.20	7.33	7.33	7.08	7.14	6.97	8.40	6.85		7.35	7.29	7.06
Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)																		
CAA Hurdle Development (2019)																		
date	08-Jul-19	time	2.78	3.94	5.05	6.16	7.29	8.44	9.62	10.79	11.98	13.20		14.47	5 / 1			
reaction time	0.186	interval		1.16	1.11	1.11	1.13	1.15	1.18	1.17	1.19	1.22	1.27	PB		3.38	3.46	3.58
wind	0.1 m/s	velocity	4.68	7.33	7.66	7.66	7.52	7.39	7.20	7.26	7.14	6.97	8.27	6.91		7.54	7.37	7.12
Wang Qingling (CHN) (1993)																		
CAA Hurdle Development (2021)																		
Heptathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)																		
date	24-Jun-21	time	2.73	3.80	4.90	5.97	7.06	8.14	9.22	10.34	11.46	12.59		13.84	8 / 1			
reaction time	0.200	interval		1.07	1.10	1.07	1.09	1.08	1.08	1.12	1.12	1.13	1.25			3.24	3.25	3.37
wind	0.6 m/s	velocity	4.76	7.94	7.73	7.94	7.80	7.87	7.87	7.59	7.59	7.52	8.04	7.23		7.87	7.85	7.57
FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)																		
CAA Hurdle Development (2021)																		
date	18-Mar-21	time	2.69	3.74	4.79	5.84	6.87							8.45	5 / 4			
reaction time	0.185	interval		1.05	1.05	1.05	1.03						1.58			3.15		
		velocity	4.83	8.10	8.10	8.10	8.25						8.23			8.10		
Heptathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																		
CAA Hurdle Development (2019)																		
date	23-Aug-19	time	2.75	3.84	4.92	5.97	7.06	8.14	9.21	10.33	11.43	12.59		13.82	4 / 1			
reaction time	0.201	interval		1.09	1.08	1.05	1.09	1.08	1.07	1.12	1.10	1.16	1.23			3.22	3.24	3.38
wind	?? m/s	velocity	4.73	7.80	7.87	8.10	7.80	7.87	7.94	7.59	7.73	7.33	8.54	7.24		7.92	7.87	7.54
Heptathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)																		
CAA Hurdle Development (2019)																		
date	08-Jul-19	time	2.70	3.77	4.84	5.91	6.99	8.07	9.14	10.24	11.34	12.48		13.71	4 / 1			
reaction time	0.189	interval		1.07	1.07	1.07	1.08	1.08	1.07	1.10	1.10	1.14	1.23			3.21	3.23	3.34
wind	0.8 m/s	velocity	4.81	7.94	7.94	7.94	7.87	7.87	7.94	7.73	7.73	7.46	8.54	7.29		7.94	7.89	7.63
Wang Yan (CHN) (2000)																		
CAA Hurdle Development (2019)																		
U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN)																		
date	14-Aug-19	time	2.75	3.89	5.06	6.21	7.36	8.51	9.68	10.88	12.06	13.30		14.64	4 / 5			
reaction time	0.170	interval		1.14	1.17	1.15	1.15	1.15	1.17	1.20	1.18	1.24	1.34			3.46	3.47	3.62
wind	-0.2 m/s	velocity	4.73	7.46	7.26	7.39	7.39	7.39	7.26	7.08	7.20	6.85	7.84	6.83		7.37	7.35	7.04
Wang Yingjie (CHN) (2003)																		
CAA Hurdle Development (2021)																		
FINAL - 2021 Central China Athletics Meeting (Ji'an, CHN)																		
date	11-May-21	time	2.97	4.27						12.31	13.73	15.18		16.67	9 / 7			
reaction time		interval		1.30						8.04	1.42	1.45	1.49					
wind	-0.6 m/s	velocity	4.38	6.54						5.29	5.99	5.86	6.74	6.00				
Webster, Alexandra (USA) (2002)																		
CAA Hurdle Development (2024)																		
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																		
date	29-Jun-24	time	2.63	3.67	4.71	5.71	6.69	7.65	8.62	9.61	10.64	11.67		12.84	7 / 4			
reaction time		interval		1.04	1.04	1.00	0.98	0.96	0.97	0.99	1.03	1.03	1.17			3.08	2.91	3.05
wind	1.0 m/s	velocity	4.94	8.17	8.17	8.50	8.67	8.85	8.76	8.59	8.25	8.25	8.59	7.79		8.28	8.76	8.36
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																		
CAA Hurdle Development (2024)																		
date	28-Jun-24	time	2.63	3.67	4.69	5.70	6.70	7.70	8.69	9.67	10.67	11.67		12.83	3 / 3			
reaction time		interval		1.04	1.02	1.01	1.00	1.00	0.99	0.98	1.00	1.00	1.16			3.07	2.99	2.98
wind	1.7 m/s	velocity	4.94	8.17	8.33	8.42	8.50	8.50	8.59	8.67	8.50	8.50	8.66	7.79		8.31	8.53	8.56
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)																		
CAA Hurdle Development (2024)																		
date	08-Jun-24	time	2.67	3.71	4.74	5.75	6.75	7.76	8.74	9.72	10.71			dnf	1 / 9			
reaction time		interval		1.04	1.03	1.01	1.00	1.01	0.98	0.98	0.99					3.08	2.99	
wind	-0.5 m/s	velocity	4.87	8.17	8.25	8.42	8.50	8.42	8.67	8.67	8.59					8.28	8.53	
Wei Huang (CHN) (2002)																		
CAA Hurdle Development (2019)																		
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (76cm)																		
date	14-Aug-19	time	2.75	3.89	5.04	6.17	7.31	8.46	9.63	10.78	11.95	13.13		14.47	9 / 4			
reaction time	0.160	interval		1.14	1.15	1.13	1.14	1.15	1.17	1.15	1.17	1.18	1.34			3.42	3.46	3.50
wind	0.0 m/s	velocity	4.73	7.46	7.39	7.52	7.46	7.39	7.26	7.39	7.26	7.20	7.84	6.91		7.46	7.37	7.29
Wei Yuhui (CHN) (2002)																		
CAA Hurdle Development (2021)																		
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																		
date	25-Jun-21	time	2.77	3.90	5.02	6.12	7.22	8.33	9.44	10.58	11.74	12.96		14.31	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

wind	-0.3 m/s	velocity	4.69	7.52	7.59	7.73	7.73	7.66	7.66	7.46	7.33	6.97	7.44	6.99	7.61	7.68	7.24	228 of 250	W100H athlete
Heat 3 - 2021 National Grand Prix (Chengdu, CHN)																			
date	02-Apr-21	time	2.76	3.88	4.98	6.08	7.16	8.26	9.36	10.48	11.64	12.80		14.13	CAA Hurdle Development (2021)				
reaction time	0.168	interval	1.12	1.10	1.10	1.08	1.10	1.10	1.12	1.16	1.16	1.33		PB	3.32	3.28	3.44	6 / 4	
wind	1.0 m/s	velocity	4.71	7.59	7.73	7.73	7.87	7.73	7.73	7.59	7.33	7.33	7.56	7.08	7.68	7.77	7.41		
B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)																			
date	13-Mar-21	time	2.75	3.85	4.94	6.04	7.14							8.68	CAA Hurdle Development (2021)				
reaction time	0.160	interval	1.10	1.09	1.10	1.10						1.54			3.29			2 / 5	
		velocity	4.73	7.73	7.80	7.73	7.73					8.44	6.91		7.75				
Heat 3 - 2021 National Indoor Grand Prix (Chengdu, CHN)																			
date	13-Mar-21	time	2.77	3.87	4.95	6.02	7.09							8.64	CAA Hurdle Development (2021)				
reaction time	0.171	interval	1.10	1.08	1.07	1.07						1.55		PB	3.25			4 / 2	
		velocity	4.69	7.73	7.87	7.94	7.94					8.39	6.94		7.85				
Wells, Kellie (USA) (1982)																			
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)																			
date	07-Aug-12	time	2.46	3.46	4.42	5.38	6.36	7.34	8.32	9.30	10.28	11.30		12.48	Henson (2021) - Athlete First: major championships report				
reaction time	0.137	interval	1.00	0.96	0.96	0.98	0.98	0.98	0.98	0.98	1.02	1.18		PB	2.92	2.94	2.98	5 / 3	
wind	-0.2 m/s	velocity	5.28	8.50	8.85	8.85	8.67	8.67	8.67	8.67	8.67	8.33	8.90	8.01	8.73	8.67	8.56		
Heat 1 - 2011 IAAF World Championships (Daegu, KOR)																			
date	02-Sep-11	time	2.60	3.64	4.62	5.59	6.59	7.57	8.55	9.54	10.56	11.58		12.73	KSSB (2011) - biomechanical analysis of women's 100m hurdle				
reaction time	0.182	interval	1.04	0.98	0.97	1.00	0.98	0.98	0.99	1.02	1.02	1.15			2.99	2.96	3.03	2 / 1	
wind	1.0 m/s	velocity	5.00	8.17	8.67	8.76	8.50	8.67	8.67	8.59	8.33	8.33	9.13	7.86	8.53	8.61	8.42		
Wen Xiaoyun (CHN) (1999)																			
Heptathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)																			
date	08-Jul-19	time	3.15	4.50	5.77	6.99	8.19	9.41	10.61	11.86	13.11	14.36		15.69	CAA Hurdle Development (2019)				
reaction time	0.245	interval	1.35	1.27	1.22	1.20	1.22	1.20	1.25	1.25	1.25	1.33			3.84	3.62	3.75	5 / 6	
wind	0.8 m/s	velocity	4.13	6.30	6.69	6.97	7.08	6.97	7.08	6.80	6.80	6.80	7.89	6.37	6.64	7.04	6.80		
Wengler, Gudrun (FRG)																			
FINAL - 1974 West German National Championships (Hannover, FRG)																			
date	28-Jul-74	time	2.55				6.93							14.01	Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften				
reaction time		interval					4.38						7.08					1 / 4	
wind	2.8 m/s	velocity	5.10				7.76						7.49	7.14					
Wennersten, Julia (SWE) (2001)																			
FINAL - 2020 Bauhaus Galan (Stockholm, SWE) (TV Analysis)																			
date	23-Aug-20	time	2.60	3.70	4.77	5.87	6.97	8.03	9.13	10.20	11.33	12.47		13.72	Henson (2020) - Athlete First: 2020 year end hurdle report				
reaction time	0.144	interval	1.10	1.07	1.10	1.10	1.06	1.10	1.07	1.13	1.14	1.25			3.27	3.26	3.34	7 / 4	
wind	1.4 m/s	velocity	5.00	7.73	7.94	7.73	7.73	8.02	7.73	7.94	7.52	7.46	8.04	7.29	7.80	7.82	7.63		
West, Tori (AUS) (1995)																			
Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)																			
date	08-Aug-24	time	2.52	3.65	4.73	5.80	6.86	7.91	8.98	10.06	11.15	12.26		13.62	Paris 2024 Olympic Games - Results Book (2024)				
reaction time	0.112	interval	1.13	1.08	1.07	1.06	1.05	1.07	1.08	1.09	1.11	1.36		PB	3.28	3.18	3.28	8 / 6	
wind	0.1 m/s	velocity	5.16	7.52	7.87	7.94	8.02	8.10	7.94	7.87	7.80	7.66	7.39	7.34	7.77	8.02	7.77		
Westerlund, Elin (SWE) (1990)																			
FINAL - 2018 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)																			
date	10-Jun-18	time	2.56	3.62	4.70	5.76	6.78	7.80	8.84	9.90	10.96	12.04		13.29	Henson (2020) - Athlete First: 2018 year end hurdle report				
reaction time	0.148	interval	1.06	1.08	1.06	1.02	1.04	1.06	1.06	1.08	1.11	1.25			3.20	3.08	3.20	8 / 8	
wind	1.3 m/s	velocity	5.08	8.02	7.87	8.02	8.33	8.33	8.17	8.02	8.02	7.87	8.40	7.52	7.97	8.28	7.97		
FINAL - 2016 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)																			
date	16-Jun-16	time	2.53	3.57	4.60	5.64	6.68	7.72	8.77	9.91	11.02	12.17		13.55	Henson (2020) - Athlete First: 2016 year end hurdle report				
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	1 / 8	
wind	-0.4 m/s	velocity	5.14	8.17	8.25	8.17	8.17	8.17	8.10	7.46	7.66	7.39	7.61	7.38	8.20	8.15	7.50		
FINAL - 2010 Swedish National Championships (Falun, SWE)																			
date	22-Aug-10	time	2.75	3.82	4.87	5.90	6.98	8.03	9.10	10.19	11.30	12.40		13.60	Blomkvist (2010) - www.sub13.se				
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	1 / 1	
wind	-0.2 m/s	velocity	4.73	7.94	8.10	8.25	7.87	8.10	7.94	7.80	7.66	7.73	8.75	7.35	8.10	7.97	7.73		
White, Kayla (USA) (1996)																			
FINAL - 2019 NCAA Indoor Championships (Birmingham, AL) (TV Analysis)																			
date	9-Mar-19	time	2.50	3.52	4.50	5.52	6.53							7.92	Henson (2020) - Athlete First: 2019 year end hurdle report				
reaction time	0.146	interval	1.02	0.98	1.02	1.01							1.39		3.02			5 / 2	
		velocity	5.20	8.33	8.67	8.33	8.42						9.35	7.58	8.44				

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

Whyte, Angela (CAN) (1980)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)													<i>Henson (2021) - Athlete First: major championships report</i>				
date	17-Aug-13	time	2.52	3.56	4.56	5.54	6.52	7.50	8.48	9.48	10.50	11.52	12.78	9 / 6			
reaction time	0.152	interval		1.04	1.00	0.98	0.98	0.98	1.00	1.02	1.02	1.02	1.26		3.02	2.94	3.04
wind	-0.6 m/s	velocity	5.16	8.17	8.50	8.67	8.67	8.67	8.67	8.50	8.33	8.33	8.33	7.82	8.44	8.67	8.39
FINAL - 2004 Olympic Games (Athens, GRE)													<i>Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance</i>				
date	24-Aug-04	time	2.56	3.59	4.58	5.57	6.57	7.56	8.53	9.55	10.61	11.64	12.81	7 / 6			
reaction time	0.139	interval		1.03	0.99	0.99	1.00	0.99	0.97	1.02	1.06	1.03	1.17		3.01	2.96	3.11
wind	0.3 m/s	velocity	5.08	8.25	8.59	8.59	8.50	8.59	8.76	8.33	8.02	8.25	8.97	7.81	8.47	8.61	8.20
Williams, Camee (USA) (1980)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1996 USATF National Junior Championships													<i>USATF Women's Sprint Development (1996)</i>				
date	29-Jun-96	time	2.57	3.73	4.83	5.91	7.02	8.14	9.29	10.46	11.63	12.80	14.31	8 / 5			
reaction time		interval		1.16	1.10	1.08	1.11	1.12	1.15	1.17	1.17	1.17	1.51		3.34	3.38	3.51
wind	-2.5 m/s	velocity	5.06	7.33	7.73	7.87	7.66	7.59	7.39	7.26	7.26	7.26	6.95	6.99	7.63	7.54	7.26
Williams, Danielle (JAM) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Memorial van damme (Brussels, BEL)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	14-Sep-24	time	2.56	3.55	4.54	5.50	6.47	7.44	8.42	9.44	10.44	11.48	12.62	7 / 5			
reaction time	0.129	interval		0.99	0.99	0.96	0.97	0.97	0.98	1.02	1.00	1.04	1.14		2.94	2.92	3.06
wind	0.4 m/s	velocity	5.08	8.59	8.59	8.85	8.76	8.76	8.67	8.33	8.50	8.17	8.82	7.92	8.67	8.73	8.33
FINAL - 2024 Weltklasse (Zürich, SUI)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	05-Sep-24	time	2.42	3.46	4.43	5.39	6.35	7.30	8.29	9.28	10.29	11.32	12.57	2 / 6			
reaction time	0.108	interval		1.04	0.97	0.96	0.96	0.95	0.99	0.99	1.01	1.03	1.25		2.97	2.90	3.03
wind	0.8 m/s	velocity	5.37	8.17	8.76	8.85	8.85	8.95	8.59	8.59	8.42	8.25	8.04	7.96	8.59	8.79	8.42
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	25-Aug-24	time	2.42	3.43	4.37	5.33	6.28	7.23	8.21	9.19	10.19	11.18	12.38	4 / 3			
reaction time	0.129	interval		1.01	0.94	0.96	0.95	0.95	0.98	0.98	1.00	0.99	1.20		2.91	2.88	2.97
wind	-0.5 m/s	velocity	5.37	8.42	9.04	8.85	8.95	8.95	8.67	8.67	8.50	8.59	8.37	8.08	8.76	8.85	8.59
Heat A - 2024 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	25-Aug-24	time	2.37	3.40	4.36	5.33	6.26	7.22	8.18	9.15	10.14	11.14	12.37	4 / 1			
reaction time	0.116	interval		1.03	0.96	0.97	0.93	0.96	0.96	0.97	0.99	1.00	1.23		2.96	2.85	2.96
wind	-0.3 m/s	velocity	5.49	8.25	8.85	8.76	9.14	8.85	8.85	8.76	8.59	8.50	8.17	8.08	8.61	8.95	8.61
FINAL - 2024 Athletissima (Lausanne, SUI)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	22-Aug-24	time	2.42	3.45	4.44	5.40	6.36	7.32	8.31	9.31	10.30	11.31	12.53	1 / 5			
reaction time	0.138	interval		1.03	0.99	0.96	0.96	0.96	0.99	1.00	0.99	1.01	1.22		2.98	2.91	3.00
wind	-0.9 m/s	velocity	5.37	8.25	8.59	8.85	8.85	8.85	8.59	8.50	8.59	8.42	8.24	7.98	8.56	8.76	8.50
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	09-Aug-24	time	2.40	3.43	4.47	5.50	6.47	7.49	8.53	9.54	10.54	11.57	12.82	5 / 6			
reaction time	0.121	interval		1.03	1.04	1.03	0.97	1.02	1.04	1.01	1.00	1.03	1.25		3.10	3.03	3.04
wind	0.5 m/s	velocity	5.42	8.25	8.17	8.25	8.76	8.33	8.17	8.42	8.50	8.25	8.04	7.80	8.23	8.42	8.39
Heat 4 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.39	3.42	4.41	5.38	6.35	7.33	8.31	9.31	10.31	11.33	12.59	9 / 1			
reaction time	0.119	interval		1.03	0.99	0.97	0.97	0.98	0.98	1.00	1.00	1.02	1.26		2.99	2.93	3.02
wind	0.0 m/s	velocity	5.44	8.25	8.59	8.76	8.76	8.67	8.67	8.50	8.50	8.33	7.98	7.94	8.53	8.70	8.44
FINAL - 2024 Jamaican National Senior Championships (Kingston, JAM) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	28-Jun-24	time	2.52	3.53	4.50	5.50	6.47	7.44	8.42	9.42	10.42	11.44	12.53	4 / 2			
reaction time	0.168	interval		1.01	0.97	1.00	0.97	0.97	0.98	1.00	1.00	1.02	1.09		2.98	2.92	3.02
wind	0.1 m/s	velocity	5.16	8.42	8.76	8.50	8.76	8.76	8.67	8.50	8.50	8.33	9.22	7.98	8.56	8.73	8.44
FINAL - 2024 Prefontaine Classic (Eugene, OR)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	25-May-24	time	2.44	3.47	4.46	5.44	6.41	7.38	8.36	9.36	10.37	11.41	12.65	5 / 6			
reaction time	0.127	interval		1.03	0.99	0.98	0.97	0.97	0.98	1.00	1.01	1.04	1.24		3.00	2.92	3.05
wind	-0.9 m/s	velocity	5.33	8.25	8.59	8.67	8.76	8.76	8.67	8.50	8.42	8.17	8.10	7.91	8.50	8.73	8.36
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	27-Apr-24	time	2.50	3.54	4.52	5.50	6.47	7.45	8.45	9.45	10.47	11.52	12.74	3 / 4 3			
reaction time	0.123	interval		1.04	0.98	0.98	0.97	0.98	1.00	1.00	1.02	1.05	1.22		3.00	2.95	3.07
wind	0.3 m/s	velocity	5.20	8.17	8.67	8.67	8.76	8.67	8.50	8.50	8.33	8.10	8.24	7.85	8.50	8.64	8.31
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	20-Apr-24	time	2.42	3.45	4.44	5.41	6.37	7.32	8.28	9.27	10.28	11.31	12.56	3 / 4			
reaction time	0.142	interval		1.03	0.99	0.97	0.96	0.95	0.96	0.99	1.01	1.03	1.25		2.99	2.87	3.03
wind	-0.2 m/s	velocity	5.37	8.25	8.59	8.76	8.85	8.95	8.85	8.59	8.42	8.25	8.04	7.96	8.53	8.89	8.42

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

date	11-Feb-24	time	2.52	3.54	4.52	5.50	6.46											
reaction time	0.127	interval		1.02	0.98	0.98	0.96							1.33				2.98
		velocity	5.16	8.33	8.67	8.67	8.85							9.77	7.70			8.56

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

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FINAL - 2023 Prefontaine Classic (Eugene, OR)

date	17-Sep-23	time	2.41	3.44	4.43	5.40	6.36	7.31	8.27	9.25	10.23	11.23		12.47						
reaction time	0.140	interval		1.03	0.99	0.97	0.96	0.95	0.96	0.98	0.98	1.00	1.24					2.99	2.87	2.96
wind	1.8 m/s	velocity	5.39	8.25	8.59	8.76	8.85	8.95	8.85	8.67	8.67	8.50	8.10	8.02				8.53	8.89	8.61

Omega Timing (2023) - diamond league race analysis

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FINAL - 2023 Weltklasse (Zürich, SUI)

date	31-Aug-23	time	2.37	3.40	4.38	5.35	6.32	7.29	8.27	9.27	10.28	11.30		12.54						
reaction time	0.122	interval		1.03	0.98	0.97	0.97	0.97	0.98	1.00	1.01	1.02	1.24					2.98	2.92	3.03
wind	-0.2 m/s	velocity	5.49	8.25	8.67	8.76	8.76	8.76	8.67	8.50	8.42	8.33	8.10	7.97				8.56	8.73	8.42

Omega Timing (2023) - diamond league race analysis

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FINAL - 2023 World Athletics Championships (Budapest, HUN)

date	24-Aug-23	time	2.53	3.51	4.48	5.45	6.41	7.37	8.33	9.32	10.31	11.32		12.43						
reaction time	0.138	interval		0.98	0.97	0.97	0.96	0.96	0.96	0.99	0.99	1.01	1.11					2.92	2.88	2.99
wind	-0.2 m/s	velocity	5.14	8.67	8.76	8.76	8.85	8.85	8.85	8.59	8.59	8.42	9.05	8.05				8.73	8.85	8.53

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

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Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

date	23-Aug-23	time	2.51	3.50	4.48	5.44	6.40	7.38	8.35	9.34	10.34	11.36		12.50						
reaction time	0.133	interval		0.99	0.98	0.96	0.96	0.98	0.97	0.99	1.00	1.02	1.14					2.93	2.91	3.01
wind	-0.4 m/s	velocity	5.18	8.59	8.67	8.85	8.85	8.67	8.76	8.59	8.50	8.33	8.82	8.00				8.70	8.76	8.47

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

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Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

date	22-Aug-23	time	2.50	3.47	4.44	5.41	6.37	7.34	8.30	9.28	10.28	11.32		12.51						
reaction time	0.116	interval		0.97	0.97	0.97	0.96	0.97	0.96	0.98	1.00	1.04	1.19					2.91	2.89	3.02
wind	0.1 m/s	velocity	5.20	8.76	8.76	8.76	8.85	8.76	8.85	8.67	8.50	8.17	8.45	7.99				8.76	8.82	8.44

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

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FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)

date	16-Jul-23	time	2.41	3.44	4.42	5.38	6.33	7.29	8.25	9.25	10.27	11.30		12.55						
reaction time	0.141	interval		1.03	0.98	0.96	0.95	0.96	0.96	1.00	1.02	1.03	1.25					2.97	2.87	3.05
wind	0.9 m/s	velocity	5.39	8.25	8.67	8.85	8.95	8.85	8.85	8.50	8.33	8.25	8.04	7.97				8.59	8.89	8.36

Omega Timing (2023) - diamond league race analysis

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

date	24-Jun-23	time	2.47	3.50	4.46	5.42	6.37	7.31	8.26	9.22	10.21	11.21		12.33						
reaction time	0.331	interval		1.03	0.96	0.96	0.95	0.94	0.95	0.96	0.99	1.00	1.12					2.95	2.84	2.95
wind	2.8 m/s	velocity	5.26	8.25	8.85	8.85	8.95	9.04	8.95	8.85	8.85	8.50	8.97	8.11				8.64	8.98	8.64

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

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

date	27-May-23	time	2.53	3.53	4.52	5.48	6.44	7.40	8.40	9.38	10.40	11.42		12.59						
reaction time	0.437	interval		1.00	0.99	0.96	0.96	0.96	1.00	0.98	1.02	1.02	1.17					2.95	2.92	3.02
wind	-0.2 m/s	velocity	5.14	8.50	8.59	8.85	8.85	8.85	8.50	8.67	8.33	8.33	8.59	7.94				8.64	8.73	8.44

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

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

date	21-May-23	time	2.53	3.54	4.50	5.46	6.39	7.34	8.29	9.27	10.25	11.26		12.38						
reaction time	0.521	interval		1.01	0.96	0.96	0.93	0.95	0.95	0.98	0.98	1.01	1.12					2.93	2.83	2.97
wind	3.5 m/s	velocity	5.14	8.42	8.85	8.85	9.14	8.95	8.95	8.67	8.67	8.42	8.97	8.08				8.70	9.01	8.59

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

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

date	07-Aug-22	time	2.48	3.48	4.48	5.46	6.44	7.44	8.44	9.44	10.46	11.48		12.69						
reaction time	0.128	interval		1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.02	1.02	1.21					2.98	2.98	3.04
wind	-0.2 m/s	velocity	5.24	8.50	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.33	8.31	7.88				8.56	8.56	8.39

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

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FINAL - 2022 World Athletics Championships (Eugene, OR)

date	24-Jul-22	time	2.49	3.47	4.43	5.38	6.33	7.27	8.27	9.25	10.26	11.30		12.44						
reaction time	0.105	interval		0.98	0.96	0.95	0.95	0.94	1.00	0.98	1.01	1.04	1.14					2.89	2.89	3.03
wind	2.5 m/s	velocity	5.22	8.67	8.85	8.95	8.95	9.04	8.50	8.67	8.42	8.17	8.82	8.04				8.82	8.82	8.42

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

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Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

date	24-Jul-22	time	2.43	3.43	4.40	5.33	6.30	7.26	8.23	9.23	10.23	11.23		12.41						
reaction time	0.105	interval		1.00	0.97	0.93	0.97	0.96	0.97	1.00	1.00	1.00	1.18					2.90	2.90	3.00
wind	0.9 m/s	velocity	5.35	8.50	8.76	9.14	8.76	8.85	8.76	8.50	8.50	8.50	8.52	8.06				8.79	8.79	8.50

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

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Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

date	23-Jul-22	time	2.53	3.56	4.56	5.54	6.53	7.53	8.53	9.53	10.53	11.63		12.87						
reaction time	0.194	interval		1.03	1.00	0.98	0.99	1.00	1.00	1.00	1.00	1.10	1.24					3.01	2.99	3.10
wind	1.5 m/s	velocity	5.14	8.25	8.50	8.67	8.59	8.50	8.50	8.50	8.50	7.73	8.10	7.77				8.47	8.53	8.23

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

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

date	30-Jun-22	time	2.46	3.46	4.44	5.41	6.36	7.33	8.33	9.33	10.33	11.40		12.59					

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

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reaction time	0.130	interval	1.00	0.98	0.97	0.95	0.97	1.00	1.00	1.00	1.07	1.19			2.95	2.92	3.07	
wind	-0.5 m/s	velocity	5.28	8.50	8.67	8.76	8.95	8.76	8.50	8.50	8.50	7.94	8.45	7.94	8.64	8.73	8.31	
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	09-Jun-22	time	2.47	3.48	4.48	5.50	6.48	7.48	8.50	9.52	10.60	11.65		12.90	7 / 5			
reaction time	0.131	interval	1.01	1.00	1.02	0.98	1.00	1.02	1.02	1.08	1.05	1.25			3.03	3.00	3.15	
wind	0.1 m/s	velocity	5.26	8.42	8.50	8.33	8.67	8.50	8.33	8.33	7.87	8.10	8.04	7.75	8.42	8.50	8.10	
FINAL - 2022 Prefontaine Classic (Eugene, OR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	28-May-22	time	2.48	3.50	4.50	5.48	6.48	7.46	8.44	9.46	10.48	11.51		12.71	3 / 5			
reaction time	0.139	interval	1.02	1.00	0.98	1.00	0.98	1.00	0.98	1.02	1.02	1.03	1.20		3.00	2.96	3.07	
wind	-0.7 m/s	velocity	5.24	8.33	8.50	8.67	8.50	8.67	8.67	8.33	8.33	8.25	8.37	7.87	8.50	8.61	8.31	
FINAL - 2022 Puerto Rico International Athletics Classic (Ponce, PUR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	12-May-22	time	2.46	3.48	4.47	5.46	6.44	7.42	8.40	9.38	10.42	11.47		12.67	4 / 3			
reaction time	0.172	interval	1.02	0.99	0.99	0.98	0.98	0.98	0.98	1.04	1.05	1.20			3.00	2.94	3.07	
wind	0.3 m/s	velocity	5.28	8.33	8.59	8.59	8.67	8.67	8.67	8.67	8.17	8.10	8.38	7.89	8.50	8.67	8.31	
FINAL - 2021 Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	03-Sep-21	time	2.48	3.52	4.52	5.50	6.52	7.60	8.64	9.80					3 / --			
reaction time	0.129	interval	1.04	1.00	0.98	1.02	1.08	1.04	1.16						DQ	3.02	3.14	
wind	0.7 m/s	velocity	5.24	8.17	8.50	8.67	8.33	7.87	8.17	7.33					8.44	8.12		
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	28-Aug-21	time	2.44	3.44	4.44	5.42	6.40	7.36	8.32	9.30	10.30	11.32		12.50	2 / 1			
reaction time	0.137	interval	1.00	1.00	0.98	0.98	0.98	0.96	0.96	0.98	1.00	1.02	1.18		2.98	2.90	3.00	
wind	1.7 m/s	velocity	5.33	8.50	8.50	8.67	8.67	8.85	8.85	8.67	8.50	8.33	8.52	8.00	8.56	8.79	8.50	
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	13-Jul-21	time	2.50	3.54	4.57	5.55	6.54	7.51	8.48	9.49	10.51	11.54		12.78	6 / 4			
reaction time	0.158	interval	1.04	1.03	0.98	0.99	0.97	0.97	1.01	1.02	1.03	1.24			3.05	2.93	3.06	
wind	1.5 m/s	velocity	5.20	8.17	8.25	8.67	8.59	8.76	8.76	8.42	8.33	8.25	8.10	7.82	8.36	8.70	8.33	
FINAL - 2019 IAAF World Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>				
date	06-Oct-19	time	2.45	3.46	4.42	5.39	6.37	7.33	8.30	9.28	10.28	11.28		12.47	5 / 3			
reaction time	0.127	interval	1.01	0.96	0.97	0.98	0.96	0.96	0.97	0.98	1.00	1.00	1.19		2.94	2.91	2.98	
wind	0.3 m/s	velocity	5.31	8.42	8.85	8.76	8.67	8.85	8.76	8.67	8.50	8.50	8.45	8.02	8.67	8.76	8.56	
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	06-Oct-19	time	2.44	3.44	4.42	5.38	6.34	7.30	8.26	9.24	10.22	11.20		12.41	6 / 1			
reaction time	0.122	interval	1.00	0.98	0.96	0.96	0.96	0.96	0.96	0.98	0.98	0.98	1.21		2.94	2.88	2.94	
wind	1.0 m/s	velocity	5.33	8.50	8.67	8.85	8.85	8.85	8.85	8.67	8.67	8.67	8.31	8.06	8.67	8.85	8.67	
Heat 3 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)														<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>				
date	05-Oct-19	time	2.42	3.42	4.40	5.36	6.32	7.28	8.24	9.22	10.22	11.24		12.51	5 / 1			
reaction time	0.126	interval	1.00	0.98	0.96	0.96	0.96	0.96	0.96	0.98	1.00	1.02	1.27		2.94	2.88	3.00	
wind	0.4 m/s	velocity	5.37	8.50	8.67	8.85	8.85	8.85	8.85	8.67	8.50	8.33	7.91	7.99	8.67	8.85	8.50	
FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	06-Sep-19	time	2.44	3.43	4.40	5.38	6.34	7.31	8.28	9.26	10.26	11.26		12.46	5 / 1			
reaction time	0.119	interval	0.99	0.97	0.98	0.96	0.96	0.97	0.97	0.98	1.00	1.00	1.20		2.94	2.90	2.98	
wind	0.0 m/s	velocity	5.33	8.59	8.76	8.67	8.85	8.76	8.76	8.67	8.50	8.50	8.75	8.03	8.67	8.79	8.56	
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	18-Aug-19	time	2.44	3.44	4.42	5.40	6.37	7.33	8.30	9.28	10.27	11.28		12.46	5 / 1			
reaction time	0.135	interval	1.00	0.98	0.98	0.97	0.96	0.97	0.98	0.99	1.01	1.18			2.96	2.90	2.98	
wind	-0.2 m/s	velocity	5.33	8.50	8.67	8.67	8.76	8.85	8.76	8.67	8.59	8.42	8.90	8.03	8.61	8.79	8.56	
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	20-Jul-19	time	2.44	3.42	4.38	5.32	6.28	7.22	8.18	9.14	10.14	11.14		12.32	7 / 1			
reaction time	0.119	interval	0.98	0.96	0.94	0.96	0.94	0.96	0.96	0.96	1.00	1.00	1.18		AR PB	2.88	2.86	2.96
wind	0.8 m/s	velocity	5.33	8.67	8.85	9.04	8.85	9.04	8.85	8.85	8.50	8.50	8.90	8.12	8.85	8.92	8.61	
Heat 1 - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	20-Jul-19	time	2.42	3.42	4.38	5.34	6.30	7.26	8.24	9.22	10.22	11.22		12.41	6 / 1			
reaction time	0.132	interval	1.00	0.96	0.96	0.96	0.96	0.96	0.98	0.98	1.00	1.00	1.19		PB	2.92	2.90	2.98
wind	-1.1 m/s	velocity	5.37	8.50	8.85	8.85	8.85	8.85	8.67	8.67	8.50	8.50	8.82	8.06	8.73	8.79	8.56	
FINAL - 2019 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	12-Jul-19	time	2.46	3.48	4.44	5.40	6.36	7.32	8.32	9.32	10.32	11.34		12.52	3 / 2			
reaction time	0.150	interval	1.02	0.96	0.96	0.96	0.96	0.96	1.00	1.00	1.00	1.02	1.18		2.94	2.92	3.02	
wind	0.1 m/s	velocity	5.28	8.33	8.85	8.85	8.85	8.85	8.50	8.50	8.50	8.33	8.90	7.99	8.67	8.73	8.44	

reaction time	0.164	interval	1.04	1.00	1.00	0.96	0.97	0.97	1.03	1.00	1.00	1.31			3.04	2.90	3.03
wind	0.6 m/s	velocity	5.28	8.17	8.50	8.50	8.85	8.76	8.76	8.25	8.50	8.50	8.02	7.85	8.39	8.79	8.42

Williams, Kendall (USA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 3 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)																		
<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>																		
date	03-Oct-19	time	2.40	3.42	4.40	5.38	6.34	7.30	8.28	9.26	10.26	11.28		12.58		7 / 1		
reaction time	0.146	interval	1.02	0.98	0.98	0.96	0.96	0.98	0.98	1.00	1.02	1.30		CHB PB		2.98	2.90	3.00
wind	0.4 m/s	velocity	5.42	8.33	8.67	8.67	8.85	8.85	8.67	8.67	8.50	8.33	7.73	7.95		8.56	8.79	8.50

Williams, Michelle (USA) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1996 USATF National Junior Championships																		
<i>USATF Women's Sprint Development (1996)</i>																		
date	29-Jun-96	time	2.63	3.81	4.98	6.11	7.20	8.41	9.58	10.73	11.89	13.07		14.56		2 / 7		
reaction time		interval	1.18	1.17	1.13	1.09	1.21	1.17	1.15	1.16	1.18	1.49		6.87		3.48	3.47	3.49
wind	-2.5 m/s	velocity	4.94	7.20	7.26	7.52	7.80	7.02	7.26	7.39	7.33	7.20	7.05	6.87		7.33	7.35	7.31

Williams, Shermaine (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)																		
<i>Henson (2021) - Athlete First: major championships report</i>																		
date	28-Aug-15	time	2.58	3.60	4.60	5.60	6.60	7.58	8.60	9.60	10.66	11.74		12.95		9 / 7		
reaction time	0.177	interval	7 steps	1.02	1.00	1.00	1.00	0.98	1.02	1.00	1.06	1.08	1.21			3.02	3.00	3.14
wind	-0.3 m/s	velocity	5.04	8.33	8.50	8.50	8.50	8.67	8.33	8.50	8.02	7.87	8.68	7.72		8.44	8.50	8.12

Wisse, Yvonne (NED) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	15-Aug-09	time	2.81	3.89	4.96	6.04	7.10	8.14	9.22	10.29	11.38	12.49		13.66		1 / 7		
reaction time	0.162	interval	1.08	1.07	1.08	1.06	1.04	1.08	1.07	1.09	1.11	1.17		7.32		3.23	3.18	3.27
wind	-0.4 m/s	velocity	4.63	7.87	7.94	7.87	8.02	8.17	7.87	7.94	7.80	7.66	8.97	7.32		7.89	8.02	7.80

Wojtunik, Klaudia (POL) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat B - 2024 Kamila Skolimowska Memorial (Silesia, POL)																		
<i>Omega Timing (2024) - diamond league race analysis</i>																		
date	25-Aug-24	time	2.44	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		7.68		3.07	3.02	3.16
wind	0.6 m/s	velocity	5.33	7.94	8.50	8.50	8.59	8.42	8.33	8.17	8.02	8.02	7.56	7.68		8.31	8.44	8.07

FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)																		
<i>Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season</i>																		
date	04-Sep-22	time	2.64	3.68	4.74	5.76	6.80	7.82	8.86	9.92	11.00	12.04		13.27		7 / 6		
reaction time	0.127	interval	1.04	1.06	1.02	1.04	1.02	1.04	1.06	1.08	1.04	1.23		7.54		3.12	3.10	3.18
wind	-0.3 m/s	velocity	4.92	8.17	8.02	8.33	8.17	8.33	8.17	8.02	7.87	8.17	8.17	7.54		8.17	8.23	8.02

FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																		
date	25-Sep-20	time	2.56	3.63	4.66	5.70	6.73	7.76	8.80	9.83	10.86	11.96		13.21		8 / 4		
reaction time	0.137	interval	1.07	1.03	1.04	1.03	1.03	1.04	1.03	1.03	1.03	1.10	1.25			3.14	3.10	3.16
wind	1.1 m/s	velocity	5.08	7.94	8.25	8.17	8.25	8.25	8.17	8.25	8.25	7.73	8.04	7.57		8.12	8.23	8.07

Wolf, Birgit (FRG) (1969)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1986 West German National Junior Championships (Krefeld, FRG)																		
<i>Hucklekemes (1997) - velocity in the women's 100m sprint hurdles (in Jarver (ed) - the hurdles, 1997)</i>																		
date	26-Jul-86	time	2.70	3.82	4.90	5.98	7.06	8.12	9.20	10.28	11.38	12.50		13.70		1 / 1		
reaction time		interval	1.12	1.08	1.08	1.08	1.06	1.08	1.08	1.10	1.12	1.20		7.30		3.28	3.22	3.30
wind	1.3 m/s	velocity	4.81	7.59	7.87	7.87	7.87	8.02	7.87	7.87	7.73	7.59	8.75	7.30		7.77	7.92	7.73

Woods, Shana (USA) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2005 USATF National Junior Championships (Carson, CA)																		
<i>USATF Women's Sprint Development (2005)</i>																		
date	23-Jun-05	time	2.80	3.92	5.07	6.19	7.31	8.44	9.58	10.73	11.88	13.03		14.27		3 / 7		
reaction time		interval	1.12	1.15	1.12	1.12	1.13	1.14	1.15	1.15	1.15	1.24		7.01		3.39	3.39	3.45
wind	-0.7 m/s	velocity	4.64	7.59	7.39	7.59	7.59	7.52	7.46	7.39	7.39	7.39	8.47	7.01		7.52	7.52	7.39

Wu Binbin (CHN) (2006)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
National FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)																		
<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																		
date	02-Sep-23	time	2.70	3.79	4.85	5.94	7.03	8.14	9.24	10.41	11.54	12.71		13.92		3 / 8		
reaction time	0.159	interval	1.09	1.06	1.09	1.09	1.11	1.10	1.17	1.13	1.17	1.21		7.18		3.24	3.30	3.47
wind	0.1 m/s	velocity	4.81	7.80	8.02	7.80	7.80	7.66	7.73	7.26	7.52	7.26	8.31	7.18		7.87	7.73	7.35

Wu Shuijiao (CHN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																		
date	12-May-18	time	2.54	3.60	4.66	5.68	6.70	7.72	8.74	9.76	10.78	11.82		13.08		9 / 9		
reaction time	0.156	interval	1.06	1.06	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.04	1.26			3.14	3.06	3.08
wind	0.9 m/s	velocity	5.12	8.02	8.02	8.33	8.33	8.33	8.33	8.33	8.33	8.17	8.33	7.65		8.12	8.33	8.28

FINAL - 2017 Chinese National Games (Tianjin, CHN)																		
<i>Henson (2017) - coaching observations</i>																		
date	04-Sep-17	time	2.65	3.69	4.69	5.69	6.69	7.70	8.70	9.72	10.76	11.82		12.97		7 / 1		
reaction time		interval	1.04	1.00	1.00	1.00	1.01	1.00	1.02	1.04	1.06	1.15		7.71		3.04	3.01	3.12
wind	-0.2 m/s	velocity	4.91	8.17	8.50	8.50	8.50	8.42	8.50	8.33	8.17	8.02	9.13	7.71		8.39	8.47	8.17

Heat 1 - 2017 Chinese National Games (Tianjin, CHN)																
<i>Henson (2017) - coaching observations</i>																

date	03-Sep-17	time	2.65	3.69	4.73	5.75	6.77	7.79	8.82	9.89	10.94	12.02		13.24	4 / 1			
reaction time		interval		1.04	1.04	1.02	1.02	1.02	1.03	1.07	1.05	1.08	1.22			3.10	3.07	3.20
wind	0.0 m/s	velocity	4.91	8.17	8.17	8.33	8.33	8.33	8.25	7.94	8.10	7.87	8.61	7.55		8.23	8.31	7.97
Semi-Final 3 - 2015 IAAF World Championships (Beijing, CHN)										<i>Xu (2015) - the 15th world track and field special report: Men's and women's hurdle project</i>								
date	28-Aug-15	time							8.71				11.63	13.06	2 / 7			
reaction time	0.179	interval							4.04				2.92	1.43				2.92
wind	-0.8 m/s	velocity				6.42			8.42				8.73	7.34	7.66			8.73
FINAL - 2015 World Challenge (Beijing, CHN)										<i>Liu (2017) - study on the characteristics of speed rhythm of athletes at different levels of women's 100m hurdles</i>								
date	20-May-15	time	2.39	3.41	4.42	5.42	6.39	7.39	8.38	9.39	10.42	11.47		12.85	/ 1			
reaction time		interval		1.02	1.01	1.00	0.97	1.00	0.99	1.01	1.03	1.05	1.38			3.03	2.96	3.09
wind	0.8 m/s	velocity	5.44	8.33	8.42	8.50	8.76	8.50	8.59	8.42	8.25	8.10	7.61	7.78		8.42	8.61	8.25
Wu Wenya (CHN) (2003)																		
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (76cm)										<i>CAA Hurdle Development (2019)</i>								
date	14-Aug-19	time	2.80	3.95	5.10	6.26	7.41	8.56	9.73	10.91	12.11	13.38		14.79	8 / 7			
reaction time	0.178	interval		1.15	1.15	1.16	1.15	1.15	1.17	1.18	1.20	1.27	1.41			3.46	3.47	3.65
wind	0.0 m/s	velocity	4.64	7.39	7.39	7.33	7.39	7.39	7.26	7.20	7.08	6.69	7.45	6.76		7.37	7.35	6.99
Wu Yanni (CHN) (1997)																		
Repechage 3 - 2024 Olympic Games (Paris, FRA)										<i>Paris 2024 Olympic Games - Results Book (2024)</i>								
date	08-Aug-24	time	2.51	3.56	4.58	5.58	6.58	7.57	8.58	9.60	10.64	11.69		12.98	3 / 4			
reaction time	0.132	interval		1.05	1.02	1.00	1.00	0.99	1.01	1.02	1.04	1.05	1.29			3.07	3.00	3.11
wind	-0.2 m/s	velocity	5.18	8.10	8.33	8.50	8.50	8.59	8.42	8.33	8.17	8.10	7.79	7.70		8.31	8.50	8.20
Heat 1 - 2024 Olympic Games (Paris, FRA)										<i>Paris 2024 Olympic Games - Results Book (2024)</i>								
date	07-Aug-24	time	2.54	3.60	4.61	5.61	6.59	7.59	8.61	9.62	10.65	11.69		12.97	8 / 6			
reaction time	0.185	interval		1.06	1.01	1.00	0.98	1.00	1.02	1.01	1.03	1.04	1.28			3.07	3.00	3.08
wind	-0.1 m/s	velocity	5.12	8.02	8.42	8.50	8.67	8.50	8.33	8.42	8.25	8.17	7.85	7.71		8.31	8.50	8.28
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)										<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>								
date	27-Apr-24	time	2.64	3.67	4.71	5.71	6.74	7.74	8.76	9.78	10.84	11.91		13.15	9 / 9-8			
reaction time	0.166	interval		1.03	1.04	1.00	1.03	1.00	1.02	1.02	1.06	1.07	1.24			3.07	3.05	3.15
wind	0.3 m/s	velocity	4.92	8.25	8.17	8.50	8.25	8.50	8.33	8.33	8.02	7.94	8.10	7.60		8.31	8.36	8.10
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)										<i>Omega Timing (2024) - diamond league race analysis</i>								
date	20-Apr-24	time	2.54	3.60	4.62	5.63	6.62	7.63	8.64	9.66	10.69	11.74		13.04	1 / 10			
reaction time	0.161	interval		1.06	1.02	1.01	0.99	1.01	1.01	1.02	1.03	1.05	1.30			3.09	3.01	3.10
wind	-0.2 m/s	velocity	5.12	8.02	8.33	8.42	8.59	8.42	8.42	8.33	8.25	8.10	7.73	7.67		8.25	8.47	8.23
FINAL - 2021 Chinese National Games (Xi'an, CHN)										<i>CAA Hurdle Development (2021)</i>								
date	22-Sep-21	time	2.50	3.53	4.56	5.56	6.56	7.56	8.56	9.60	10.60	11.67		12.91	5 / 2			
reaction time	0.131	interval		1.03	1.03	1.00	1.00	1.00	1.00	1.04	1.00	1.07	1.24			3.06	3.00	3.11
wind	0.1 m/s	velocity	5.20	8.25	8.25	8.50	8.50	8.50	8.50	8.17	8.50	7.94	8.10	7.75		8.33	8.50	8.20
Semi-Final 3 - 2021 Chinese National Games (Xi'an, CHN)										<i>CAA Hurdle Development (2021)</i>								
date	21-Sep-21	time	2.53	3.54	4.55	5.53	6.53	7.52	8.54	9.56	10.58	11.65		12.96	5 / 2			
reaction time	0.144	interval		1.01	1.01	0.98	1.00	0.99	1.02	1.02	1.02	1.07	1.31			3.00	3.01	3.11
wind	0.1 m/s	velocity	5.14	8.42	8.42	8.67	8.50	8.59	8.33	8.33	8.33	7.94	7.67	7.72		8.50	8.47	8.20
FINAL - 2021 Chinese National Championships (Chongqing, CHN)										<i>CAA Hurdle Development (2021)</i>								
date	25-Jun-21	time	2.63	3.67	4.67	5.67	6.66	7.67	8.67	9.67	10.69	11.73		12.87	6 / 1			
reaction time	0.134	interval		1.04	1.00	1.00	0.99	1.01	1.00	1.00	1.02	1.04	1.14	PB		3.04	3.00	3.06
wind	1.7 m/s	velocity	4.94	8.17	8.50	8.50	8.59	8.42	8.50	8.50	8.33	8.17	8.82	7.77		8.39	8.50	8.33
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)										<i>CAA Hurdle Development (2021)</i>								
date	25-Jun-21	time	2.68	3.75	4.79	5.82	6.84	7.87	8.89	9.93	10.99	12.04		13.23	3 / 1			
reaction time	0.149	interval		1.07	1.04	1.03	1.02	1.03	1.02	1.04	1.06	1.05	1.19			3.14	3.07	3.15
wind	-0.3 m/s	velocity	4.85	7.94	8.17	8.25	8.33	8.25	8.33	8.17	8.02	8.10	8.45	7.56		8.12	8.31	8.10
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)										<i>CAA Hurdle Development (2021)</i>								
date	12-Jun-21	time	2.66	3.70	4.70	5.70	6.72	7.72	8.72	9.74	10.78	11.84		12.98	6 / 1			
reaction time	0.162	interval		1.04	1.00	1.00	1.02	1.00	1.00	1.02	1.04	1.06	1.14	PB		3.04	3.02	3.12
wind	1.0 m/s	velocity	4.89	8.17	8.50	8.50	8.33	8.50	8.50	8.33	8.17	8.02	8.82	7.70		8.39	8.44	8.17
Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)										<i>CAA Hurdle Development (2021)</i>								
date	12-Jun-21	time	2.57	3.60	4.65	5.69	6.72	7.76	8.81	9.87	10.94	12.06		13.44	6 / 1			
reaction time	0.135	interval		1.03	1.05	1.04	1.03	1.04	1.05	1.06	1.07	1.12	1.38			3.12	3.12	3.25
wind	-0.2 m/s	velocity	5.06	8.25	8.10	8.17	8.25	8.17	8.10	8.02	7.94	7.59	7.28	7.44		8.17	8.17	7.85
FINAL - 2021 Happy Chengdu Meeting (Chengdu, CHN)										<i>CAA Hurdle Development (2021)</i>								
date	15-May-21	time	2.70	3.74	4.79	5.83	6.83	7.87	8.89	9.93	10.97	12.02		13.19	7 / 2			

																	235 of 250	W100H athlete		
reaction time	0.188	interval	1.04	1.05	1.04	1.00	1.04	1.02	1.04	1.04	1.05	1.17					3.13	3.06	3.13	
wind	-0.1 m/s	velocity	4.81	8.17	8.10	8.17	8.50	8.17	8.33	8.17	8.17	8.10	8.59	7.58			8.15	8.33	8.15	
FINAL - 2021 National Grand Prix (Chengdu, CHN)																				
date	02-Apr-21	time	2.72	3.77	4.84	5.86	6.87	7.90	8.92	9.96	11.01	12.07		13.25			CAA Hurdle Development (2021)			
reaction time	0.212	interval	1.05	1.07	1.02	1.01	1.03	1.02	1.04	1.05	1.06	1.18					3.14	3.06	3.15	
wind	0.1 m/s	velocity	4.78	8.10	7.94	8.33	8.42	8.25	8.33	8.17	8.10	8.02	8.52	7.55			8.12	8.33	8.10	
Heat 1 - 2021 National Grand Prix (Chengdu, CHN)																				
date	02-Apr-21	time	2.68	3.74	4.80	5.82	6.84	7.86	8.88	9.94	11.00	12.12		13.42			CAA Hurdle Development (2021)			
reaction time	0.153	interval	1.06	1.06	1.02	1.02	1.02	1.02	1.06	1.06	1.12	1.30					3.14	3.06	3.24	
wind	0.4 m/s	velocity	4.85	8.02	8.02	8.33	8.33	8.33	8.33	8.02	8.02	7.59	7.73	7.45			8.12	8.33	7.87	
B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)																				
date	13-Mar-21	time	2.67	3.73	4.78	5.80	6.82								8.18		CAA Hurdle Development (2021)			
reaction time	0.140	interval	1.06	1.05	1.02	1.02							1.36		PB		3.13			
		velocity	4.87	8.02	8.10	8.33	8.33						9.56		7.33		8.15			
Heat 3 - 2021 National Indoor Grand Prix (Chengdu, CHN)																				
date	13-Mar-21	time	2.70	3.77	4.82	5.85	6.87								8.32		CAA Hurdle Development (2021)			
reaction time	0.171	interval	1.07	1.05	1.03	1.02						1.45			PB		3.15			
		velocity	4.81	7.94	8.10	8.25	8.33					8.97			7.21		8.10			
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)																				
date	15-Sep-20	time	2.65	3.70	4.72	5.73	6.74	7.76	8.79	9.82	10.87	11.94		13.09			CAA Hurdle Development (2020)			
reaction time	0.143	interval	1.05	1.02	1.01	1.01	1.02	1.03	1.03	1.05	1.07	1.15					3.08	3.06	3.15	
wind	-0.4 m/s	velocity	4.91	8.10	8.33	8.42	8.42	8.33	8.25	8.25	8.10	7.94	8.74	7.64			8.28	8.33	8.10	
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)																				
date	15-Sep-20	time	2.70	3.78	4.82	5.85	6.88	7.91	8.95	10.01	11.07	12.17		13.37			CAA Hurdle Development (2020)			
reaction time	0.130	interval	1.08	1.04	1.03	1.03	1.03	1.03	1.04	1.06	1.06	1.10	1.20				3.15	3.10	3.22	
wind	0.3 m/s	velocity	4.81	7.87	8.17	8.25	8.25	8.25	8.17	8.02	8.02	7.73	8.38	7.48			8.10	8.23	7.92	
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)																				
date	24-Aug-19	time	2.79	3.87	4.94	5.99	7.06	8.13	9.21	10.29	11.40	12.53		13.75			CAA Hurdle Development (2019)			
reaction time	0.196	interval	1.08	1.07	1.05	1.07	1.07	1.07	1.08	1.08	1.11	1.13	1.22				3.20	3.22	3.32	
wind	-0.1 m/s	velocity	4.66	7.87	7.94	8.10	7.94	7.94	7.87	7.87	7.66	7.52	8.61	7.27			7.97	7.92	7.68	
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																				
date	23-Aug-19	time	2.79	3.85	4.91	5.96	7.02	8.08	9.14	10.23	11.33	12.45		13.68			CAA Hurdle Development (2019)			
reaction time	0.193	interval	1.06	1.06	1.05	1.06	1.06	1.06	1.06	1.09	1.10	1.12	1.23				3.17	3.18	3.31	
wind	0.2 m/s	velocity	4.66	8.02	8.02	8.10	8.02	8.02	8.02	7.80	7.73	7.59	8.54	7.31			8.04	8.02	7.70	
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)																				
date	02-Aug-19	time	2.74	3.80	4.86	5.89	6.92	7.96	9.00	10.09	11.17	12.26		13.49			CAA Hurdle Development (2019)			
reaction time	0.169	interval	1.06	1.06	1.03	1.03	1.04	1.04	1.09	1.08	1.09	1.23					3.15	3.11	3.26	
wind	0.0 m/s	velocity	4.74	8.02	8.02	8.25	8.25	8.17	8.17	7.80	7.87	7.80	8.54	7.41			8.10	8.20	7.82	
Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)																				
date	02-Aug-19	time	2.70	3.79	4.86	5.92	6.97	8.02	9.09	10.16	11.24	12.33		13.57			CAA Hurdle Development (2019)			
reaction time	0.162	interval	1.09	1.07	1.06	1.05	1.05	1.07	1.07	1.07	1.08	1.09	1.24				3.22	3.17	3.24	
wind	0.2 m/s	velocity	4.81	7.80	7.94	8.02	8.10	8.10	7.94	7.94	7.87	7.80	8.47	7.37			7.92	8.04	7.87	
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)																				
date	21-May-19	time	2.73	3.78	4.83	5.88	6.93	7.97	9.02	10.07	11.12			13.44			CAA Hurdle Development (2019)			
reaction time	0.173	interval	1.05	1.05	1.05	1.05	1.04	1.05	1.05	1.05	1.05						3.15	3.14		
wind	-1.0 m/s	velocity	4.76	8.10	8.10	8.10	8.10	8.17	8.10	8.10	8.10			7.44			8.10	8.12		
Heat 2 - 3rd Leg - 2019 IAAF World Relays - Shuttle Hurdle Relay (Yokohama, JPN)																				
date	11-May-19	time	2.65	3.75	4.82	5.88	6.97	8.04	9.12	10.19	11.28	12.41		13.63			CAA Hurdle Development (2019)			
reaction time		interval	1.10	1.07	1.06	1.09	1.07	1.08	1.07	1.09	1.13	1.22	(14.84)				3.23	3.24	3.29	
wind	na	velocity	4.91	7.73	7.94	8.02	7.80	7.94	7.87	7.94	7.80	7.52	8.61	7.34			57.54	7.89	7.87	7.75
FINAL - 2019 Asian Athletics Championships (Doha, QAT)																				
date	24-Apr-19	time	2.74	3.79	4.83	5.86	6.89	7.91	8.93	9.97	11.03	12.11		13.33			CAA Hurdle Development (2019)			
reaction time	0.152	interval	1.05	1.04	1.03	1.03	1.02	1.02	1.04	1.06	1.08	1.22					3.12	3.07	3.18	
wind	1.3 m/s	velocity	4.74	8.10	8.17	8.25	8.25	8.33	8.33	8.17	8.02	7.87	8.61	7.50			8.17	8.31	8.02	
Heat 2 - 2019 Asian Athletics Championships (Doha, QAT)																				
date	23-Apr-19	time	2.75	3.80	4.84	5.90	6.96	8.01	9.05	10.11	11.16	12.28		13.52			CAA Hurdle Development (2019)			
reaction time	0.161	interval	1.05	1.04	1.06	1.06	1.05	1.04	1.06	1.05	1.12	1.24					3.15	3.15	3.23	
wind	1.9 m/s	velocity	4.73	8.10	8.17	8.02	8.02	8.10	8.17	8.02	8.10	7.59	8.47	7.40			8.10	8.10	7.89	

FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)

date	09-Apr-19	time	2.78	3.86	4.92	5.97	7.02	8.06	9.11	10.20	11.28	12.38		13.63
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	
wind	0.1 m/s	velocity	4.68	7.87	8.02	8.10	8.10	8.17	8.10	7.80	7.87	7.73	8.40	7.34

CAA Hurdle Development (2019)
5 / 33.19 3.14 3.27
7.99 8.12 7.80**Heat 1 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)**

date	08-Apr-19	time	2.73	3.79	4.86	5.90	6.93	7.98	9.04	10.10	11.17	12.27		13.51
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	
wind	-1.0 m/s	velocity	4.76	8.02	7.94	8.17	8.25	8.10	8.02	8.02	7.94	7.73	8.47	7.40

CAA Hurdle Development (2019)
4 / 13.17 3.14 3.23
8.04 8.12 7.89**FINAL - 2018 Chinese National Championships (Taiyuan, CHN)**

date	16-Sep-18	time	2.69	3.75	4.78	5.80	6.81	7.81	8.84	9.88	10.93	12.00		13.17
reaction time		interval		1.06	1.03	1.02	1.01	1.00	1.03	1.04	1.05	1.07	1.17	PB
wind	-0.2 m/s	velocity	4.83	8.02	8.25	8.33	8.42	8.50	8.25	8.17	8.10	7.94	8.97	7.59

Henson (2018) - coaching observations
3 / 13.11 3.04 3.16
8.20 8.39 8.07**Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)**

date	15-Sep-18	time	2.76	3.82	4.87	5.89	6.92	7.93	8.95	9.99	11.06	12.12		13.33
reaction time		interval		1.06	1.05	1.02	1.03	1.01	1.02	1.04	1.07	1.06	1.21	PB
wind	0.0 m/s	velocity	4.71	8.02	8.10	8.33	8.25	8.42	8.33	8.17	7.94	8.02	8.68	7.50

Henson (2018) - coaching observations
5 / 13.13 3.06 3.17
8.15 8.33 8.04**FINAL - 2017 Chinese National Games (Tianjin, CHN)**

date	04-Sep-17	time	2.72	3.79	4.82	5.85	6.85	7.91	8.94	10.00	11.06	12.16		13.36
reaction time		interval		1.07	1.03	1.03	1.00	1.06	1.03	1.06	1.06	1.10	1.20	PB
wind	-0.2 m/s	velocity	4.78	7.94	8.25	8.25	8.50	8.02	8.25	8.02	8.02	7.73	8.75	7.49

Henson (2017) - coaching observations
4 / 33.13 3.09 3.22
8.15 8.25 7.92**Wu Zheng (CHN) (2001)**

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heptathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)

date	24-Jun-21	time	2.75	3.90	5.04	6.16	7.29	8.39	9.52	10.71	11.89	13.09		14.44
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	
wind	0.2 m/s	velocity	4.73	7.39	7.46	7.59	7.52	7.73	7.52	7.14	7.20	7.08	7.44	6.93

CAA Hurdle Development (2021)
5 / 23.41 3.36 3.57
7.48 7.59 7.14**Heat 2 - 2021 National Indoor Grand Prix (Chengdu, CHN)**

date	13-Mar-21	time	2.73	3.87	4.99	6.09	7.22							8.74
reaction time	0.206	interval		1.14	1.12	1.10	1.13						1.52	PB
		velocity	4.76	7.46	7.59	7.73	7.52						8.55	6.86

CAA Hurdle Development (2021)
1 / 43.36
7.59**Heptathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)**

date	23-Aug-19	time	2.82	3.94	5.05	6.16	7.29	8.43	9.56	10.71	11.89	13.10		14.44
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	
wind	?? m/s	velocity	4.61	7.59	7.66	7.66	7.52	7.46	7.52	7.39	7.20	7.02	7.84	6.93

CAA Hurdle Development (2019)
6 / 23.34 3.40 3.54
7.63 7.50 7.20**Xia Sining (CHN) (2003)**

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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National FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)

date	02-Sep-23	time	2.70	3.77	4.82	5.84	6.87	7.90	8.92	9.94	11.00	12.04		13.19
reaction time	0.158	interval		1.07	1.05	1.02	1.03	1.03	1.02	1.02	1.06	1.04	1.15	
wind	0.1 m/s	velocity	4.81	7.94	8.10	8.33	8.25	8.25	8.33	8.33	8.02	8.17	8.74	7.58

Henson (2023) - Athlete First: 2023 year end hurdle report
6 / 23.14 3.08 3.12
8.12 8.28 8.17**Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)**

date	25-Jun-21	time	2.74	3.84	4.90	5.95	7.04	8.10	9.19	10.26	11.38	12.50		13.75
reaction time	0.216	interval		1.10	1.06	1.05	1.09	1.06	1.09	1.07	1.12	1.12	1.25	
wind	-0.3 m/s	velocity	4.74	7.73	8.02	8.10	7.80	8.02	7.80	7.94	7.59	7.59	8.04	7.27

CAA Hurdle Development (2021)
6 / 33.21 3.24 3.31
7.94 7.87 7.70**Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)**

date	12-Jun-21	time	2.62	3.70	4.77	5.86	6.92	7.99	9.05	10.13	11.23	12.34		13.67
reaction time	0.159	interval		1.08	1.07	1.09	1.06	1.07	1.06	1.08	1.10	1.11	1.33	
wind	2.2 m/s	velocity	4.96	7.87	7.94	7.80	8.02	7.94	8.02	7.87	7.73	7.66	7.56	7.32

CAA Hurdle Development (2021)
6 / 53.24 3.19 3.29
7.87 7.99 7.75**FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)**

date	19-May-21	time	2.75	3.85	4.91	5.97	7.00	8.04	9.09	10.16	11.21	12.31		13.53
reaction time	0.259	interval		1.10	1.06	1.06	1.03	1.04	1.05	1.07	1.05	1.10	1.22	PB
wind	0.2 m/s	velocity	4.73	7.73	8.02	8.02	8.25	8.17	8.10	7.94	8.10	7.73	8.24	7.39

CAA Hurdle Development (2021)
7 / 13.22 3.12 3.22
7.92 8.17 7.92**U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (76cm)**

date	14-Aug-19	time	2.72	3.79	4.82	5.87	6.89	7.91	8.93	9.97	11.03	12.10		13.30
reaction time	0.172	interval		1.07	1.03	1.05	1.02	1.02	1.02	1.04	1.06	1.07	1.20	NYR
wind	0.0 m/s	velocity	4.78	7.94	8.25	8.10	8.33	8.33	8.33	8.17	8.02	7.94	8.75	7.52

CAA Hurdle Development (2019)
7 / 13.15 3.06 3.17
8.10 8.33 8.04**Xiao Juxiu (CHN) (1998)**

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)

date	25-Jun-21	time	2.65	3.75	4.84	5.89	6.96	8.01	9.11	10.19	11.29	12.36		13.58
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
wind	-0.3 m/s	velocity	4.91	7.73	7.80	8.10	7.94	8.10	7.73	7.87	7.73	7.94	8.24	7.36

CAA Hurdle Development (2021)
4 / 43.24 3.22 3.25
7.87 7.92 7.85

FINAL - 2021 Central China Athletics Meeting (Ji'an, CHN)

date	11-May-21	time	2.72	3.81	4.89	5.99	7.04	8.11	9.18	10.27	11.37	12.49		13.70
reaction time		interval		1.09	1.08	1.10	1.05	1.07	1.07	1.09	1.10	1.12	1.21	
wind	-0.6 m/s	velocity	4.78	7.80	7.87	7.73	8.10	7.94	7.94	7.80	7.73	7.59	8.31	7.30

CAA Hurdle Development (2021)

4 / 2	3.27	3.19	3.31
	7.80	7.99	7.70

FINAL - 2021 National Grand Prix (Chengdu, CHN)

date	02-Apr-21	time	2.69	3.82	4.92	6.00	7.08	8.17	9.27	10.36	11.50	12.62		13.87
reaction time	0.202	interval		1.13	1.10	1.08	1.08	1.09	1.10	1.09	1.14	1.12	1.25	
wind	0.1 m/s	velocity	4.83	7.52	7.73	7.87	7.87	7.80	7.73	7.80	7.46	7.59	8.04	7.21

CAA Hurdle Development (2021)

7 / 6	3.31	3.27	3.35
	7.70	7.80	7.61

Heat 1 - 2021 National Grand Prix (Chengdu, CHN)

date	02-Apr-21	time	2.70	3.82	4.92	6.00	7.08	8.16	9.24	10.30	11.42	12.54		13.79
reaction time	0.175	interval		1.12	1.10	1.08	1.08	1.08	1.08	1.06	1.12	1.12	1.25	
wind	0.4 m/s	velocity	4.81	7.59	7.73	7.87	7.87	7.87	7.87	8.02	7.59	7.59	8.04	7.25

CAA Hurdle Development (2021)

2 / 2	3.30	3.24	3.30
	7.73	7.87	7.73

B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)

date	13-Mar-21	time	2.68	3.78	4.85	5.90	6.96							8.38
reaction time	0.151	interval		1.10	1.07	1.05	1.06						1.42	PB
		velocity	4.85	7.73	7.94	8.10	8.02						9.15	7.16

CAA Hurdle Development (2021)

5 / 4	3.22		
	7.92		

Heat 1 - 2021 National Indoor Grand Prix (Chengdu, CHN)

date	13-Mar-21	time	2.72	3.85	4.93	5.99	7.04							8.47
reaction time	0.180	interval		1.13	1.08	1.06	1.05						1.43	
		velocity	4.78	7.52	7.87	8.02	8.10						9.09	7.08

CAA Hurdle Development (2021)

3 / 1	3.27		
	7.80		

FINAL - 2020 Chinese National Championships (Shaoxing, CHN)

date	15-Sep-20	time	2.68	3.77	4.84	5.91	6.98	8.05	9.13	10.25	11.38	12.52		13.71
reaction time	0.161	interval		1.09	1.07	1.07	1.07	1.07	1.08	1.12	1.13	1.14	1.19	
wind	-0.4 m/s	velocity	4.85	7.80	7.94	7.94	7.94	7.94	7.87	7.59	7.52	7.46	8.45	7.29

CAA Hurdle Development (2020)

8 / 7	3.23	3.22	3.39
	7.89	7.92	7.52

Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)

date	02-Aug-19	time	2.70	3.83	4.91	5.99	7.02	8.11	9.19	10.29	11.42	12.53		13.75
reaction time	0.166	interval		1.13	1.08	1.08	1.03	1.09	1.08	1.10	1.13	1.11	1.22	
wind	0.2 m/s	velocity	4.81	7.52	7.87	7.87	8.25	7.80	7.87	7.73	7.52	7.66	8.61	7.27

CAA Hurdle Development (2019)

2 / 5	3.29	3.20	3.34
	7.75	7.97	7.63

Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.76	3.86	4.98	6.04	7.14	8.22	9.32	10.42	11.54	12.66		13.84
reaction time	0.196	interval		1.10	1.12	1.06	1.10	1.08	1.10	1.10	1.12	1.12	1.18	
wind	0.5 m/s	velocity	4.71	7.73	7.59	8.02	7.73	7.87	7.73	7.73	7.59	7.59	8.90	7.23

CAA Hurdle Development (2019)

3 / 4	3.28	3.28	3.34
	7.77	7.77	7.63

FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)

date	30-May-19	time	2.68	3.80	4.85	5.90	6.96	8.04	9.14	10.22	11.32	12.46		13.65
reaction time	0.168	interval		1.12	1.05	1.05	1.06	1.08	1.10	1.08	1.10	1.14	1.19	
wind	-0.1 m/s	velocity	4.85	7.59	8.10	8.10	8.02	7.87	7.73	7.87	7.73	7.46	8.82	7.33

CAA Hurdle Development (2019)

6 / 4	3.22	3.24	3.32
	7.92	7.87	7.68

FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)

date	23-May-19	time	2.72	3.82	4.90	5.96	7.02	8.10	9.18	10.26	11.36	12.48		13.67
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	
wind	0.4 m/s	velocity	4.78	7.73	7.87	8.02	8.02	7.87	7.87	7.87	7.73	7.59	8.82	7.32

CAA Hurdle Development (2019)

4 / 5	3.24	3.22	3.30
	7.87	7.92	7.73

B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)

date	20-Feb-19	time	2.77	3.87	4.99	6.10	7.19							8.60
reaction time		interval		1.10	1.12	1.11	1.09						1.41	
		velocity	4.69	7.73	7.59	7.66	7.80						9.22	6.98

CAA Hurdle Development (2019)

2 / 2	3.33		
	7.66		

Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)

date	15-Sep-18	time	2.81	3.94	5.04	6.14	7.22	8.34	9.44	10.58	11.73	12.91		14.10
reaction time		interval		1.13	1.10	1.10	1.08	1.12	1.10	1.14	1.15	1.18	1.19	
wind	-0.6 m/s	velocity	4.63	7.52	7.73	7.73	7.87	7.59	7.73	7.46	7.39	7.20	8.82	7.09

Henson (2018) - coaching observations

7 / 6	3.33	3.30	3.47
	7.66	7.73	7.35

Xie Liuying (CHN) (1967)**FINAL - 1993 Chinese National Games (Beijing, CHN)**

date	09-Sep-93	time	2.55	3.57	4.57	5.55	6.53	7.53	8.55	9.57	10.60	11.65		12.75
reaction time		interval		1.02	1.00	0.98	0.98	1.00	1.02	1.02	1.03	1.05	1.10	
wind	0.1 m/s	velocity	5.10	8.33	8.50	8.67	8.67	8.50	8.33	8.33	8.25	8.10	9.55	7.84

Bo (1996) - a study on female 100m hurdles running rhythm in the 7th national games

1 / 2	3.00	3.00	3.10
	8.50	8.50	8.23

Yamada, Hiromi (JPN) (2004)**FINAL - 2023 Japanese U20 National Championships (Osaka, JPN)**

date	03-Jun-23	time	2.75	3.89	5.01	6.13	7.25	8.37	9.49	10.65	11.79	12.92		14.15
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	
wind	-1.4 m/s	velocity	4.73	7.46	7.59	7.59	7.59	7.59	7.59	7.33	7.46	7.52	8.17	7.07

Kishima (2024) - race analysis of top domestic and overseas women's 100m hurdles in the 2023 season

8 / 7	3.38	3.36	3.43
	7.54	7.59	7.43

Yamanaka, Aya (JPN) (1995)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)*Henson (2021) - Athlete First: major championships report*

date	07-Aug-12	time	2.50	3.50	4.50	5.46	6.42	7.42	8.40	9.40	10.42	11.42	12.58	6 / 5			
reaction time	0.161	interval		1.00	1.00	0.96	0.96	1.00	0.98	1.00	1.02	1.00	1.16	DV	2.96	2.94	3.02
wind	-0.2 m/s	velocity	5.20	8.50	8.50	8.85	8.85	8.50	8.67	8.50	8.33	8.50	9.05	7.95	8.61	8.67	8.44

FINAL - 2010 European Championships (Barcelona, ESP)*Graubner (2010) - <http://www.fgs.uni-halle.de>*

date	31-Jul-10	time	2.57	3.60	4.61	5.59	6.58	7.56	8.54	9.54	10.53	11.56	12.63	3 / 1			
reaction time	0.184	interval		1.03	1.01	0.98	0.99	0.98	0.98	1.00	0.99	1.03	1.07	NR	3.02	2.95	3.02
wind	-0.5 m/s	velocity	5.06	8.25	8.42	8.67	8.59	8.67	8.67	8.50	8.59	8.25	9.81	7.92	8.44	8.64	8.44

Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.60	3.64	4.66	5.68	6.68	7.69	8.71	9.74	10.78	11.86	12.99	8 / 5			
reaction time	0.153	interval		1.04	1.02	1.02	1.00	1.01	1.02	1.03	1.04	1.08	1.13	3.08	3.03	3.15	
wind	-0.1 m/s	velocity	5.00	8.17	8.33	8.33	8.50	8.42	8.33	8.25	8.17	7.87	9.29	7.70	8.28	8.42	8.10

Heat 4 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	2.61	3.66	4.66	5.65	6.64	7.65	8.67	9.70	10.74	11.80	12.92	7 / 3			
reaction time	0.165	interval		1.05	1.00	0.99	0.99	1.01	1.02	1.03	1.04	1.06	1.12	3.04	3.02	3.13	
wind	-0.3 m/s	velocity	4.98	8.10	8.50	8.59	8.59	8.42	8.33	8.25	8.17	8.02	9.38	7.74	8.39	8.44	8.15

Semi-Final 1 - 2008 Olympic Games (Beijing, CHN)*Tsiokanos (2017) - race pattern of women's 100m hurdles: time analysis of olympic hurdle performance*

date	18-Aug-08	time	2.62	3.68	4.70	5.72	6.73	7.76	8.81	9.87	11.10	12.19	13.28	8 / 7			
reaction time	0.201	interval		1.06	1.02	1.02	1.01	1.03	1.05	1.06	1.23	1.09	1.09	3.10	3.09	3.38	
wind	0.2 m/s	velocity	4.96	8.02	8.33	8.33	8.42	8.25	8.10	8.02	6.91	7.80	9.63	7.53	8.23	8.25	7.54

Yanovska, Olena (UKR) (1990)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Race 1 - 2011 European Team Championships (Stockholm, SWE)***Blomkvist (2011) - www.sub13.se*

date	19-Jun-11	time	2.58	3.68	4.74	5.80	6.88	7.92	9.00	10.06	11.16	12.28	13.56	1 / 4			
reaction time	0.165	interval		1.10	1.06	1.06	1.08	1.04	1.08	1.06	1.10	1.12	1.28	3.22	3.20	3.28	
wind	-1.0 m/s	velocity	5.04	7.73	8.02	8.02	7.87	8.17	7.87	8.02	7.73	7.59	8.20	7.37	7.92	7.97	7.77

Yao Hui (CHN) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)***CAA Hurdle Development (2021)*

date	25-Jun-21	time	2.80	3.94	5.06	6.20	7.31	8.44	9.56	10.73	11.88	13.09	14.43	7 / 6			
reaction time	0.211	interval		1.14	1.12	1.14	1.11	1.13	1.12	1.17	1.15	1.21	1.34	3.40	3.36	3.53	
wind	-0.3 m/s	velocity	4.64	7.46	7.59	7.46	7.66	7.52	7.59	7.26	7.39	7.02	7.50	6.93	7.50	7.59	7.22

FINAL - 2020 Chinese National Championships (Shaoxing, CHN)*CAA Hurdle Development (2020)*

date	15-Sep-20	time	2.66	3.76	4.85	5.93	7.02	8.11	9.23	10.37	11.52	12.68	13.90	3 / 8			
reaction time	0.143	interval		1.10	1.09	1.08	1.09	1.09	1.12	1.14	1.15	1.16	1.22	PB	3.27	3.30	3.45
wind	-0.4 m/s	velocity	4.89	7.73	7.80	7.87	7.80	7.80	7.59	7.46	7.39	7.33	8.24	7.19	7.80	7.73	7.39

Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)*CAA Hurdle Development (2020)*

date	15-Sep-20	time	2.76	3.88	4.98	6.09	7.19	8.29	9.41	10.54	11.67	12.80	14.02	5 / 6			
reaction time	0.218	interval		1.12	1.10	1.11	1.10	1.10	1.12	1.13	1.13	1.13	1.22	3.33	3.32	3.39	
wind	-0.6 m/s	velocity	4.71	7.59	7.73	7.66	7.73	7.73	7.59	7.52	7.52	7.52	8.24	7.13	7.66	7.68	7.52

Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)*CAA Hurdle Development (2019)*

date	23-Aug-19	time	2.75	3.90	5.12									dnf	3 / --
reaction time	0.200	interval		1.15	1.22										
wind	-0.2 m/s	velocity	4.73	7.39	6.97										

U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)*CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.71	3.84	4.94	6.06	7.16	8.27	9.39	10.54	11.68	12.83	14.14	9 / 5			
reaction time	0.374	interval		1.13	1.10	1.12	1.10	1.11	1.12	1.15	1.14	1.15	1.31	PB	3.35	3.33	3.44
wind	-0.1 m/s	velocity	4.80	7.52	7.73	7.59	7.73	7.66	7.59	7.39	7.46	7.39	8.02	7.07	7.61	7.66	7.41

U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN)*CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.72	3.84	4.94	6.03	7.17	8.29	9.44	10.58	11.74	12.91	14.15	4 / 2			
reaction time	0.170	interval		1.12	1.10	1.09	1.14	1.12	1.15	1.14	1.16	1.17	1.24	=PB	3.31	3.41	3.47
wind	0.0 m/s	velocity	4.78	7.59	7.73	7.80	7.46	7.59	7.39	7.46	7.33	7.26	8.47	7.07	7.70	7.48	7.35

Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	02-Aug-19	time	2.70	3.87	5.02	6.14	7.27	8.39	9.54	10.68	11.84	13.01	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	
wind	0.2 m/s	velocity	4.81	7.26	7.39	7.59	7.52	7.59	7.39	7.46	7.33	7.26	8.20	7.00	7.41	7.50	7.35

Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)*CAA Hurdle Development (2019)*

date	08-Jul-19	time	2.76	3.95	5.04	6.14	7.26	8.40	9.54	10.70	11.86	13.04	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	
wind	1.3 m/s	velocity	4.71	7.14	7.80	7.73	7.59	7.46	7.46	7.33	7.33	7.20	8.08	6.97	7.54	7.50	7.29

Heat 4 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)

CAA Hurdle Development (2019)
date 13-Apr-19 time 2.70 3.82 4.92 6.02 7.12 8.24 9.36 10.52 11.69 12.87 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
wind 0.1 m/s velocity 4.81 7.59 7.73 7.73 7.73 7.59 7.59 7.33 7.26 7.20 7.84 7.04 7.68 7.63 7.26

B-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)

CAA Hurdle Development (2019)
date 24-Feb-19 time 2.77 3.93 5.07 6.19 7.32 8.82 3 / 4
reaction time interval 1.16 1.14 1.12 1.13 1.50 3.42
velocity 4.69 7.33 7.46 7.59 7.52 8.67 6.80 7.46

Yarraj, Jyothi (IND) (1999)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Repechage 1 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympic Games - Results Book (2024)
date 08-Aug-24 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
wind 0.1 m/s velocity 5.16 7.80 8.10 8.25 8.50 8.25 8.17 8.17 8.25 7.94 7.91 7.59 8.04 8.31 8.12

Heat 4 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)
date 07-Aug-24 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 1.02 1.01 1.02 1.02 1.03 1.05 1.06 1.28 3.12 3.05 3.14
wind 0.0 m/s 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

Yasuda, Shiori (JPN) (1998)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 5 - 2016 Japanese National Junior Championships (Mizuho, JPN) (2016.11.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en
date 21-Oct-16 time 2.73 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
wind 0.9 m/s velocity 4.76 7.33 7.52 7.46 7.46 7.52 7.39 7.39 7.26 7.20 8.08 6.95 7.43 7.46 7.29

Yasui, Ayana (JPN) (1997)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN) (2017) - tdata-store.com/2017/05/13/post-441/
date 11-May-17 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
wind -1.2 m/s velocity 4.80 7.66 7.66 7.80 7.52 7.62 7.88 7.17 7.70 7.59

FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)

(2017) - tdata-store.com/2017/04/07/post-249/
date 06-Apr-17 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
wind -1.8 m/s 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

Heat 6 - 2016 Japanese National Junior Championships (Mizuho, JPN)

(2016.11.03) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en
date 21-Oct-16 time 2.72 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
wind 2.1 m/s 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

Yasui, Mari (JPN) (2003)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
U18 FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (76cm) Enomoto (2019) - research on athlete performance and technique- 2019 data book
date 06-Oct-19 time 2.75 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 1.15 1.25 3.34 3.32 3.46
wind 1.6 m/s velocity 4.73 7.52 7.73 7.66 7.73 7.80 7.52 7.33 7.39 7.39 8.40 7.08 7.63 7.68 7.37

Yin Xiaoxia (CHN) (2000)

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN) CAA Hurdle Development (2021)
date 25-Jun-21 time 2.85 4.02 5.17 6.34 7.48 8.66 9.84 11.04 12.24 13.51 14.81 8 / 6
reaction time 0.239 interval 1.17 1.15 1.17 1.14 1.18 1.18 1.20 1.20 1.27 1.30 3.49 3.50 3.67
wind -1.8 m/s velocity 4.56 7.26 7.39 7.26 7.46 7.20 7.20 7.08 7.08 6.69 7.73 6.75 7.31 7.29 6.95

FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)

CAA Hurdle Development (2021)
date 19-May-21 time 2.78 3.90 5.00 6.12 7.24 8.38 9.49 10.63 11.81 12.99 14.28 5 / 5
reaction time interval 1.12 1.10 1.12 1.12 1.14 1.11 1.14 1.18 1.18 1.29 3.34 3.37 3.50
wind 0.2 m/s velocity 4.68 7.59 7.73 7.59 7.59 7.46 7.66 7.46 7.20 7.20 7.79 7.00 7.63 7.57 7.29

FINAL - 2021 Central China Athletics Meeting (Ji'an, CHN)

CAA Hurdle Development (2021)
date 11-May-21 time 2.82 3.99 5.14 6.29 7.45 8.61 9.79 10.99 12.21 13.41 14.69 3 / 4
reaction time interval 1.17 1.15 1.15 1.16 1.16 1.18 1.20 1.22 1.20 1.28 3.47 3.50 3.62
wind -0.6 m/s velocity 4.61 7.26 7.39 7.39 7.33 7.33 7.20 7.08 6.97 7.08 7.85 6.81 7.35 7.29 7.04

Heat 2 - 2021 National Indoor Grand Prix (Chengdu, CHN)

CAA Hurdle Development (2021)
date 13-Mar-21 time 2.87 4.00 5.12 6.24 7.35 8.87 1 / 4
reaction time 0.245 interval 1.13 1.12 1.12 1.11 1.52 PB 3.37
velocity 4.53 7.52 7.59 7.59 7.66 8.55 6.76 7.57

U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN)

CAA Hurdle Development (2019)
date 14-Aug-19 time 2.75 3.89 4.99 6.12 7.26 8.38 9.53 10.66 11.83 12.98 14.20 7 / 4
reaction time 0.152 interval 1.14 1.10 1.13 1.14 1.12 1.15 1.13 1.17 1.15 1.22 3.37 3.41 3.45

wind -0.2 m/s velocity 4.73 7.46 7.73 7.52 7.46 7.59 7.39 7.52 7.26 7.39 8.61 7.04 7.57 7.48 7.39

Yin Xinyi (CHN) (2000)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heptathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN) <i>CAA Hurdle Development (2021)</i>																		
date	24-Jun-21	time	2.87	4.02	5.19	6.32	7.49	8.69	9.91	11.09	12.31	13.55		14.86	5 / 3			
reaction time	0.195	interval	1.15	1.17	1.13	1.17	1.20	1.22	1.18	1.22	1.24	1.31	PB		3.45	3.59	3.64	
wind	0.6 m/s	velocity	4.53	7.39	7.26	7.52	7.26	7.08	6.97	7.20	6.97	6.85	7.67	6.73		7.39	7.10	7.01

Heptathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

<i>CAA Hurdle Development (2019)</i>																		
date	23-Aug-19	time	2.95	4.19	5.41	6.62	7.84	9.09	10.38	11.66	12.96	14.28		15.74	8 / 7			
reaction time	0.245	interval	1.24	1.22	1.21	1.22	1.25	1.29	1.28	1.30	1.32	1.46				3.67	3.76	3.90
wind	?? m/s	velocity	4.41	6.85	6.97	7.02	6.97	6.80	6.59	6.64	6.54	6.44	7.19	6.35		6.95	6.78	6.54

Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)

<i>CAA Hurdle Development (2019)</i>																		
date	08-Jul-19	time	2.95	4.17	5.37	6.57	7.81	9.06	10.31	11.63	12.93	14.31		15.81	4 / 8			
reaction time	0.176	interval	1.22	1.20	1.20	1.24	1.25	1.25	1.32	1.30	1.38	1.50	PB			3.62	3.74	4.00
wind	0.1 m/s	velocity	4.41	6.97	7.08	7.08	6.85	6.80	6.80	6.44	6.54	6.16	7.00	6.33		7.04	6.82	6.38

Yoda, Ikuko (JPN) (1938)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles) <i>Breitschaft (1965) - die leichtathletik wettkämpfe der 1964 olympischen sommerspielen - 80m hürdenlauf</i>																
date	19-Oct-64	time		3.8		7.2						10.7	6 / 5			
reaction time		interval				3.40					3.50	(10.72)				
wind	2.3 m/s	velocity		7.37		7.06					6.86	9.35				
Semi-Final 2 - 1964 Olympic Games (Tokyo, JPN) (80m Hurdles) <i>Breitschaft (1965) - die leichtathletik wettkämpfe der 1964 olympischen sommerspielen - 80m hürdenlauf</i>																
date	19-Oct-64	time		4.4		7.3						10.7	/ 2			
reaction time		interval				2.90					3.40	(10.72)				
wind	???	velocity		6.36		8.28					7.06	9.35				

Yokoyama, Suzuha (JPN) (2006)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN) <i>Takashima (2024) - national high school sports festival - biomechanics data</i>																		
date	01-Aug-24	time	2.62	3.65	4.69	5.73	6.76	7.80	8.85	9.95	11.03	12.15		13.42	6 / 1			
reaction time	0.158	interval	1.03	1.04	1.04	1.03	1.04	1.05	1.10	1.08	1.12	1.27	PB		3.11	3.12	3.30	
wind	1.0 m/s	velocity	4.96	8.25	8.17	8.17	8.25	8.17	8.10	7.73	7.87	7.59	7.91	7.45		8.20	8.17	7.73

Yoshida, Erika (JPN) (2004)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2021 Japanese High School National Championships (Fukui, JPN) <i>Shibayama (2021) - national high school and U20 national championships</i>																		
date	01-Aug-21	time	2.72	3.82	4.92	5.97	7.04	8.11	9.17	10.25	11.33	12.44		13.72	6 / 5			
reaction time	0.167	interval	1.10	1.10	1.05	1.07	1.07	1.06	1.08	1.08	1.11	1.28				3.25	3.20	3.27
wind	1.8 m/s	velocity	4.78	7.73	7.73	8.10	7.94	7.94	8.02	7.87	7.87	7.66	7.85	7.29		7.85	7.97	7.80
FINAL - 2021 Japanese U20 National Championships (Osaka, JPN) <i>Onishi (2021) - race analysis of the domestic first-class women's 100m hurdles in the 2021 season</i>																		
date	26-Jun-21	time	2.69	3.80	4.90	5.97	7.03	8.10	9.19	10.29	11.39	12.53		13.77	9 / 2			
reaction time	0.172	interval	1.11	1.10	1.07	1.06	1.07	1.09	1.10	1.10	1.14	1.24	PB			3.28	3.22	3.34
wind	0.2 m/s	velocity	4.83	7.66	7.73	7.94	8.02	7.94	7.80	7.73	7.73	7.46	8.10	7.26		7.77	7.92	7.63

Yoshida, Yui (JPN) (1999)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) <i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data collection</i>																		
date	02-Aug-17	time	2.65	3.75	4.83	5.89	6.95	8.01	9.10	10.20	11.29	12.43		13.68	6 / 1			
reaction time	0.140	interval	1.10	1.08	1.06	1.06	1.06	1.09	1.10	1.09	1.14	1.25				3.24	3.21	3.33
wind	-2.9 m/s	velocity	4.91	7.73	7.87	8.02	8.02	8.02	7.80	7.73	7.80	7.46	8.40	7.31		7.87	7.94	7.66
Heat 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (76cm) <i>(2016.11.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																		
date	21-Oct-16	time	2.72	3.80	4.86	5.91	6.93	8.02	9.07	10.16	11.22	12.34		13.56	3 / 1			
reaction time		interval	1.08	1.06	1.05	1.02	1.09	1.05	1.09	1.06	1.12	1.22				3.19	3.16	3.27
wind	1.6 m/s	velocity	4.78	7.41	7.55	7.62	7.84	7.34	7.62	7.34	7.55	7.14	12.30	7.37		7.52	7.59	7.34

Yoshii, Ririko (JPN) (2001)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) <i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data</i>																		
date	08-Aug-19	time	2.73	3.82	4.91	6.01	7.14	8.26	9.42	10.64	11.86	13.13		14.53	3 / 8			
reaction time		interval	1.09	1.09	1.10	1.13	1.12	1.16	1.22	1.22	1.27	1.40				3.28	3.41	3.71
wind	-4.1 m/s	velocity	4.76	7.80	7.80	7.73	7.52	7.59	7.33	6.97	6.97	6.69	7.50	6.88		7.77	7.48	6.87

Yoshita, Airi (JPN) (1999)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 2 - 2018 IAAF World Junior Championships (Tampere, FIN) <i>Kota (2018) - Analysis of races of leading women's 100m hurdles at home and abroad</i>																		
date	14-Jul-18	time	2.73	3.80	4.85	5.91	6.94	7.97	9.03	10.11	11.20	12.32		13.55	5 / 5			
reaction time	0.159	interval	1.07	1.05	1.06	1.03	1.03	1.06	1.08	1.09	1.12	1.23				3.18	3.12	3.29
wind	0.9 m/s	velocity	4.76	7.94	8.10	8.02	8.25	8.25	8.02	7.87	7.80	7.59	8.54	7.38		8.02	8.17	7.75
FINAL - 2016 Japanese National High School Championships (Okayama, JPN) <i>Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics data</i>																		
date	02-Aug-16	time	2.69	3.80	4.90	5.96	7.01	8.07	9.12	10.24	11.33	12.46		13.69	5 / 4			
reaction time	0.157	interval	1.11	1.10	1.06	1.05	1.06	1.05	1.12	1.09	1.13	1.23	PB			3.27	3.16	3.34
wind	1.5 m/s	velocity	4.83	7.66	7.73	8.02	8.10	8.02	8.10	7.59	7.80	7.52	8.54	7.30		7.80	8.07	7.63

													Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
													Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yosypenko, Lyudmyla (UKR) (1984)																		
Heptathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)																		
													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	15-Aug-09	time	2.76	3.86	4.92	5.98	7.04	8.13	9.21	10.29	11.40	12.50		13.64	3 / 3			
reaction time	0.169	interval		1.10	1.06	1.06	1.06	1.09	1.08	1.08	1.11	1.10		PB		3.22	3.23	3.29
wind	-0.2 m/s	velocity	4.71	7.73	8.02	8.02	8.02	7.80	7.87	7.87	7.66	7.73	9.21	7.33		7.92	7.89	7.75
You Na (CHN) (1993)																		
FINAL - 2021 Chinese National Games (Xi'an, CHN)																		
													<i>CAA Hurdle Development (2021)</i>					
date	22-Sep-21	time	2.56	3.60	4.66	5.68	6.72	7.76	8.83	9.87	10.93	12.03		13.30	8 / 7			
reaction time	0.153	interval		1.04	1.06	1.02	1.04	1.04	1.07	1.04	1.06	1.10	1.27			3.12	3.15	3.20
wind	0.1 m/s	velocity	5.08	8.17	8.02	8.33	8.17	8.17	7.94	8.17	8.02	7.73	7.91	7.52		8.17	8.10	7.97
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)																		
													<i>CAA Hurdle Development (2021)</i>					
date	25-Jun-21	time	2.72	3.79	4.85	5.90	6.96	8.02	9.10	10.17	11.28	12.39		13.59	3 / 2			
reaction time	0.190	interval		1.07	1.06	1.05	1.06	1.06	1.08	1.07	1.11	1.11	1.20			3.18	3.20	3.29
wind	-1.8 m/s	velocity	4.78	7.94	8.02	8.10	8.02	8.02	7.87	7.94	7.66	7.66	8.38	7.36		8.02	7.97	7.75
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)																		
													<i>CAA Hurdle Development (2021)</i>					
date	12-Jun-21	time	2.68	3.74	4.76	5.80	6.83	7.87	8.94	9.99	11.06	12.16		13.34	4 / 4			
reaction time	0.161	interval		1.06	1.02	1.04	1.03	1.04	1.07	1.05	1.07	1.10	1.18	=PB		3.12	3.14	3.22
wind	1.0 m/s	velocity	4.85	8.02	8.33	8.17	8.25	8.17	7.94	8.10	7.94	7.73	8.52	7.50		8.17	8.12	7.92
Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)																		
													<i>CAA Hurdle Development (2021)</i>					
date	12-Jun-21	time	2.57	3.63	4.67	5.72	6.77	7.79	8.86	9.93	11.02	12.11		13.45	4 / 2			
reaction time	0.150	interval		1.06	1.04	1.05	1.05	1.02	1.07	1.07	1.09	1.09	1.34			3.15	3.14	3.25
wind	-0.2 m/s	velocity	5.06	8.02	8.17	8.10	8.10	8.33	7.94	7.94	7.80	7.80	7.50	7.43		8.10	8.12	7.85
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)																		
													<i>CAA Hurdle Development (2021)</i>					
date	19-May-21	time	2.95	4.10	5.16	6.24	7.30	8.36	9.44	10.52	11.62	12.74		13.98	2 / 4			
reaction time	0.427	interval		1.15	1.06	1.08	1.06	1.06	1.08	1.08	1.10	1.12	1.24			3.29	3.20	3.30
wind	0.2 m/s	velocity	4.41	7.39	8.02	7.87	8.02	8.02	7.87	7.87	7.73	7.59	8.10	7.15		7.75	7.97	7.73
FINAL - 2021 Central China Athletics Meeting (Ji'an, CHN)																		
													<i>CAA Hurdle Development (2021)</i>					
date	11-May-21	time	2.77	3.84	4.93	5.99	7.06	8.13	9.17	10.24	11.35	12.46		13.68	6 / 1			
reaction time		interval		1.07	1.09	1.06	1.07	1.07	1.04	1.07	1.11	1.11	1.22			3.22	3.18	3.29
wind	-0.6 m/s	velocity	4.69	7.94	7.80	8.02	7.94	7.94	8.17	7.94	7.66	7.66	8.24	7.31		7.92	8.02	7.75
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)																		
													<i>CAA Hurdle Development (2021)</i>					
date	24-Apr-21	time	2.68	3.83	4.90	5.98	7.05	8.12	9.18	10.26	11.34	12.42		13.62	4 / 5			
reaction time	0.157	interval		1.15	1.07	1.08	1.07	1.07	1.06	1.08	1.08	1.08	1.20			3.30	3.20	3.24
wind	-0.8 m/s	velocity	4.85	7.39	7.94	7.87	7.94	7.94	8.02	7.87	7.87	7.87	8.38	7.34		7.73	7.97	7.87
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)																		
													<i>CAA Hurdle Development (2021)</i>					
date	24-Apr-21	time	2.72	3.82	4.87	5.93	7.00	8.04	9.07	10.15	11.21	12.30		13.51	6 / 2			
reaction time	0.167	interval		1.10	1.05	1.06	1.07	1.04	1.03	1.08	1.06	1.09	1.21			3.21	3.14	3.23
wind	0.6 m/s	velocity	4.78	7.73	8.10	8.02	7.94	8.17	8.25	7.87	8.02	7.80	8.31	7.40		7.94	8.12	7.89
FINAL - 2021 National Grand Prix (Chengdu, CHN)																		
													<i>CAA Hurdle Development (2021)</i>					
date	02-Apr-21	time	2.72	3.80	4.85	5.88	6.90	7.94	9.02	10.10	11.19	12.30		13.50	4 / 4			
reaction time	0.208	interval		1.08	1.05	1.03	1.02	1.04	1.08	1.08	1.09	1.11	1.20			3.16	3.14	3.28
wind	0.1 m/s	velocity	4.78	7.87	8.10	8.25	8.33	8.17	7.87	7.87	7.80	7.66	8.38	7.41		8.07	8.12	7.77
Heat 3 - 2021 National Grand Prix (Chengdu, CHN)																		
													<i>CAA Hurdle Development (2021)</i>					
date	02-Apr-21	time	2.72	3.82	4.86	5.90	6.98	8.04	9.08	10.14	11.22	12.30		13.50	5 / 1			
reaction time	0.173	interval		1.10	1.04	1.04	1.08	1.06	1.04	1.06	1.08	1.08	1.20			3.18	3.18	3.22
wind	1.0 m/s	velocity	4.78	7.73	8.17	8.17	7.87	8.02	8.17	8.02	7.87	7.87	8.38	7.41		8.02	8.02	7.92
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)																		
													<i>CAA Hurdle Development (2020)</i>					
date	15-Sep-20	time	2.63	3.74	4.80	5.85	6.90	7.96	9.02	10.10	11.20	12.31		13.55	7 / 4			
reaction time	0.148	interval		1.11	1.06	1.05	1.05	1.06	1.06	1.08	1.10	1.11	1.24			3.22	3.17	3.29
wind	-0.4 m/s	velocity	4.94	7.66	8.02	8.10	8.10	8.02	8.02	7.87	7.73	7.66	8.10	7.38		7.92	8.04	7.75
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)																		
													<i>CAA Hurdle Development (2020)</i>					
date	15-Sep-20	time	2.71	3.80	4.84	5.88	6.97	8.04	9.12	10.23	11.30	12.42		13.62	4 / 4			
reaction time	0.147	interval		1.09	1.04	1.04	1.09	1.07	1.08	1.11	1.07	1.12	1.20			3.17	3.24	3.30
wind	-0.6 m/s	velocity	4.80	7.80	8.17	8.17	7.80	7.94	7.87	7.66	7.94	7.59	8.38	7.34		8.04	7.87	7.73
FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)																		
													<i>CAA Hurdle Development (2020)</i>					
date	14-Feb-20	time	2.72	3.79	4.83	5.87	6.90							8.28	6 / 2			
reaction time		interval		1.07	1.04	1.04	1.03						1.38			3.15		
		velocity	4.78	7.94	8.17	8.17	8.25						9.42	7.25		8.10		

Semi-Final 1 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)

date	14-Feb-20	time	2.73	3.80	4.84	5.87	6.92											8.30	CAA Hurdle Development (2020)	
reaction time		interval		1.07	1.04	1.03	1.05											1.38	1 / 2	3.14
		velocity	4.76	7.94	8.17	8.25	8.10											9.42		8.12

Heat 6 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)

date	14-Feb-20	time	2.59	3.69	4.74	5.80	6.89												8.48	CAA Hurdle Development (2020)
reaction time		interval		1.10	1.05	1.06	1.09											1.59	2 / 2	3.21
		velocity	5.02	7.73	8.10	8.02	7.80											8.18		7.94

FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)

date	01-Feb-20	time	2.70	3.76	4.82	5.84	6.91												8.28	CAA Hurdle Development (2020)
reaction time		interval		1.06	1.06	1.02	1.07											1.37	4 / 2	3.14
		velocity	4.81	8.02	8.02	8.33	7.94											9.49		8.12

Heat 2 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)

date	01-Feb-20	time	2.65	3.72	4.77	5.82	6.86												8.26	CAA Hurdle Development (2020)	
reaction time		interval		1.07	1.05	1.05	1.04											1.40	4 / 1	PB	3.17
		velocity	4.91	7.94	8.10	8.10	8.17											9.29		7.26	8.04

FINAL - 2020 Leonard Hilton Memorial Invitational (Houston, TX)

date	17-Jan-20	time	2.57	3.65	4.70	5.76	6.81												8.33	CAA Hurdle Development (2020)	
reaction time		interval		1.08	1.05	1.06	1.05											1.52	5 / 3	PB	3.19
		velocity	5.06	7.87	8.10	8.02	8.10											8.55		7.20	7.99

Heat 3 - 2020 Leonard Hilton Memorial Invitational (Houston, TX)

date	17-Jan-20	time	2.55	3.67	4.72	5.77	6.82												8.37	CAA Hurdle Development (2020)	
reaction time		interval		1.12	1.05	1.05	1.05											1.55	4 / 1		3.22
		velocity	5.10	7.59	8.10	8.10	8.10											8.39		7.17	7.92

FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)

date	24-Aug-19	time	2.70	3.77	4.81	5.83	6.87	7.93	9.11	10.21	11.30	12.43								13.64	CAA Hurdle Development (2019)			
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								6 / 5	3.13	3.28	3.32
wind	-0.1 m/s	velocity	4.81	7.94	8.17	8.33	8.17	8.02	7.20	7.73	7.80	7.52	8.68									8.15	7.77	7.68

Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

date	23-Aug-19	time	2.65	3.74	4.79	5.82	6.87	7.93	8.99	10.08	11.16	12.30								13.53	CAA Hurdle Development (2019)			
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								7 / 1	3.17	3.17	3.31
wind	-0.2 m/s	velocity	4.91	7.80	8.10	8.25	8.10	8.02	8.02	7.80	7.87	7.46	8.54									8.04	8.04	7.70

Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)

date	02-Aug-19	time	2.75	3.84	4.93	5.99	7.06	8.11	9.19	10.26	11.36	12.48								13.69	CAA Hurdle Development (2019)			
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								8 / 4	3.24	3.20	3.29
wind	0.2 m/s	velocity	4.73	7.80	7.80	8.02	7.94	8.10	7.87	7.94	7.73	7.59	8.68									7.87	7.97	7.75

FINAL - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.68	3.72	4.77	5.81	6.85	7.89	8.92	10.01	11.08	12.18								13.38	CAA Hurdle Development (2019)			
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								4 / 3	3.13	3.11	3.26
wind	0.2 m/s	velocity	4.85	8.17	8.10	8.17	8.17	8.17	8.25	7.80	7.94	7.73	8.75									8.15	8.20	7.82

Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.68	3.72	4.77	5.82	6.86	7.90	8.94	9.99	11.10	12.22								13.44	CAA Hurdle Development (2019)			
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								6 / 1	3.14	3.12	3.28
wind	1.3 m/s	velocity	4.85	8.17	8.10	8.10	8.17	8.17	8.17	8.10	7.66	7.59	8.61									8.12	8.17	7.77

FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)

date	30-May-19	time	2.73	3.82	4.92	5.95	7.02	8.09	9.19	10.31	11.42	12.58								13.80	CAA Hurdle Development (2019)			
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								4 / 6	3.22	3.24	3.39
wind	-0.1 m/s	velocity	4.76	7.80	7.73	8.25	7.94	7.94	7.73	7.59	7.66	7.33	8.61									7.92	7.87	7.52

FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)

date	13-Apr-19	time	2.66	3.74	4.79	5.82	6.87	7.91	9.00	10.09	11.15	12.27								13.52	CAA Hurdle Development (2019)			
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								4 / 5	3.16	3.18	3.27
wind	0.3 m/s	velocity	4.89	7.87	8.10	8.25	8.10	8.17	7.80	7.80	8.02	7.59	8.40									8.07	8.02	7.80

Heat 1 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)

date	13-Apr-19	time	2.74	3.82	4.89	5.93	7.02	8.07	9.15	10.24	11.34	12.47								13.70	CAA Hurdle Development (2019)			
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								4 / 2	3.19	3.22	3.32
wind	0.7 m/s	velocity	4.74	7.87	7.94	8.17	7.80	8.10	7.87	7.80	7.73	7.52	8.54									7.99	7.92	7.68

A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)

date	20-Mar-19	time	2.69	3.77	4.84	5.89	7.04													8.36	CAA Hurdle Development (2019)		
reaction time		interval		1.08	1.07	1.05	1.15														3 / 1	3.20	
		velocity																					

velocity	4.83	7.87	7.94	8.10	7.39							9.85	7.18	7.97
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A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)

date	4-Mar-19	time	2.72	3.80	4.87	5.90	6.96								CAA Hurdle Development (2019)
reaction time		interval		1.08	1.07	1.03	1.06					1.45	PB	8.41	3 / 1
		velocity	4.78	7.87	7.94	8.25	8.02					8.97	7.13	8.02	

A-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)

date	28-Feb-19	time	2.69	3.79	4.87	5.93	7.02								CAA Hurdle Development (2019)
reaction time		interval		1.10	1.08	1.06	1.09					1.44	PB	8.46	5 / 2
		velocity	4.83	7.73	7.87	8.02	7.80					9.03	7.09	7.87	

Young, Candy (USA) (1962)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
															<i>Lyle (1979) - coaching observations</i>			
date	13-Jul-79	time	2.57	3.60	4.57	5.66	6.74	7.78	8.85	9.95	11.04	12.22		13.67	1 / 4			
reaction time		interval		1.03	0.97	1.09	1.08	1.04	1.07	1.10	1.09	1.18	1.45		3.09	3.19	3.37	
wind	3.9 m/s	velocity	5.06	8.25	8.76	7.80	7.87	8.17	7.94	7.73	7.80	7.20	7.24	7.32	8.25	7.99	7.57	

Semi-Final 2 - 1979 Pan American Games (San Juan, PUR)

date	12-Jul-79	time	2.39	3.48	4.54	5.57	6.68	7.69	8.79	9.88	11.02	12.24		13.74	<i>Lyle (1979) - coaching observations</i>		
reaction time		interval		1.09	1.06	1.03	1.11	1.01	1.10	1.09	1.14	1.22	1.50		3.18	3.22	3.45
wind	2.8 m/s	velocity	5.44	7.80	8.02	8.25	7.66	8.42	7.73	7.80	7.46	6.97	7.00	7.28	8.02	7.92	7.39

Yu Jiaru (CHN) (1999)

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
															<i>CAA Hurdle Development (2021)</i>			
date	21-Sep-21	time	2.62	3.66	4.72	5.77	6.81	7.87	8.95	10.03	11.13	12.23		13.55	8 / 5			
reaction time	0.175	interval		1.04	1.06	1.05	1.04	1.06	1.08	1.08	1.10	1.10	1.32		3.15	3.18	3.28	
wind	0.1 m/s	velocity	4.96	8.17	8.02	8.10	8.17	8.02	7.87	7.87	7.73	7.73	7.61	7.38	8.10	8.02	7.77	

Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)

date	25-Jun-21	time	2.72	3.78	4.85	5.92	6.99	8.07	9.16	10.24	11.36	12.46		13.65	<i>CAA Hurdle Development (2021)</i>		
reaction time	0.186	interval		1.06	1.07	1.07	1.07	1.08	1.09	1.08	1.12	1.10	1.19		3.20	3.24	3.30
wind	-1.6 m/s	velocity	4.78	8.02	7.94	7.94	7.87	7.80	7.87	7.59	7.73	8.45	7.33		7.97	7.87	7.73

FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)

date	12-Jun-21	time	2.72	3.77	4.83	5.88	6.92	7.96	9.01	10.09	11.18	12.26		13.44	<i>CAA Hurdle Development (2021)</i>		
reaction time	0.169	interval		1.05	1.06	1.05	1.04	1.04	1.05	1.08	1.09	1.08	1.18		3.16	3.13	3.25
wind	1.0 m/s	velocity	4.78	8.10	8.02	8.10	8.17	8.17	8.10	7.87	7.80	7.87	8.52	7.44	8.07	8.15	7.85

Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)

date	12-Jun-21	time	2.65	3.70	4.77	5.84	6.87	7.91	8.96	10.01	11.08	12.14		13.40	<i>CAA Hurdle Development (2021)</i>		
reaction time	0.319	interval		1.05	1.07	1.07	1.03	1.04	1.05	1.05	1.07	1.06	1.26		3.19	3.12	3.18
wind	2.2 m/s	velocity	4.91	8.10	7.94	7.94	8.25	8.17	8.10	8.10	7.94	8.02	7.98	7.46	7.99	8.17	8.02

FINAL - 2021 Chinese East Region Athletics Meeting (Fuzhou, CHN)

date	23-May-21	time	2.77	3.83	4.89	5.94	6.98	8.05	9.12	10.19	11.27	12.37		13.60	<i>CAA Hurdle Development (2021)</i>		
reaction time	0.216	interval		1.06	1.06	1.05	1.04	1.07	1.07	1.07	1.08	1.10	1.23		3.17	3.18	3.25
wind	-0.5 m/s	velocity	4.69	8.02	8.02	8.10	8.17	7.94	7.94	7.94	7.87	7.73	8.17	7.35	8.04	8.02	7.85

FINAL - 2021 East China District Meeting (Zhaoqing, CHN)

date	24-Apr-21	time	2.70	3.80	4.87	5.94	7.00	8.06	9.14	10.23	11.31	12.42		13.62	<i>CAA Hurdle Development (2021)</i>		
reaction time	0.243	interval		1.10	1.07	1.07	1.06	1.06	1.08	1.09	1.08	1.11	1.20		3.24	3.20	3.28
wind	-0.8 m/s	velocity	4.81	7.73	7.94	7.94	8.02	8.02	7.87	7.80	7.87	7.66	8.38	7.34	7.87	7.97	7.77

Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)

date	24-Apr-21	time	2.74	3.80	4.87	5.92	6.97	8.01	9.08	10.14	11.23	12.33		13.56	<i>CAA Hurdle Development (2021)</i>		
reaction time	0.191	interval		1.06	1.07	1.05	1.05	1.04	1.07	1.06	1.09	1.10	1.23		3.18	3.16	3.25
wind	0.5 m/s	velocity	4.74	8.02	7.94	8.10	8.10	8.17	7.94	8.02	7.80	7.73	8.17	7.37	8.02	8.07	7.85

FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)

date	08-Apr-21	time	2.80	3.88	4.92	6.00	7.08	8.18	9.26	10.34	11.46	12.60		13.83	<i>CAA Hurdle Development (2021)</i>		
reaction time		interval		1.08	1.04	1.08	1.08	1.10	1.08	1.08	1.12	1.14	1.23		3.20	3.26	3.34
wind	-0.1 m/s	velocity	4.64	7.87	8.17	7.87	7.87	7.73	7.87	7.87	7.59	7.46	8.17	7.23	7.97	7.82	7.63

Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)

date	15-Sep-20	time	2.77	3.85	4.91	5.99	7.06	8.13	9.21	10.30	11.41	12.54		13.74	<i>CAA Hurdle Development (2020)</i>		
reaction time	0.169	interval		1.08	1.06	1.08	1.07	1.07	1.08	1.09	1.11	1.13	1.20		3.22	3.22	3.33
wind	0.3 m/s	velocity	4.69	7.87	8.02	7.87	7.94	7.94	7.87	7.80	7.66	7.52	8.37	7.28	7.92	7.92	7.66

FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)

date	24-Aug-19	time	2.77	3.87	4.99	6.06	7.12	8.19	9.24	10.36	11.46	12.58		13.80	<i>CAA Hurdle Development (2019)</i>		
reaction time	0.225	interval		1.10	1.12	1.07	1.06	1.07	1.05	1.12	1.10	1.12	1.22		3.29	3.18	3.34
wind	-0.1 m/s	velocity	4.69	7.73	7.59	7.94	8.02	7.94	8.10	7.59	7.73	7.59	8.61	7.25	7.75	8.02	7.63

Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

date	23-Aug-19	time	2.82	3.90	4.99	6.09	7.17	8.27	9.36	10.48	11.60	12.73		13.98
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	
wind	0.2 m/s	velocity	4.61	7.87	7.80	7.73	7.87	7.73	7.80	7.59	7.59	7.52	8.40	7.15

CAA Hurdle Development (2019)

9 / 4			
	3.27	3.27	3.37
	7.80	7.80	7.57

FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)

date	02-Aug-19	time	2.78	3.82	4.89	5.94	6.98	8.03	9.09	10.14	11.24	12.33		13.54
reaction time	0.197	interval		1.04	1.07	1.05	1.04	1.05	1.06	1.05	1.10	1.09	1.21	
wind	0.0 m/s	velocity	4.68	8.17	7.94	8.10	8.17	8.10	8.02	8.10	7.73	7.80	8.68	7.39

CAA Hurdle Development (2019)

8 / 5			
	3.16	3.15	3.24
	8.07	8.10	7.87

Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)

date	02-Aug-19	time	2.72	3.82	4.91	5.97	7.02	8.07	9.13	10.23	11.31	12.49		13.65
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	
wind	0.2 m/s	velocity	4.78	7.73	7.80	8.02	8.10	8.10	8.02	7.73	7.87	7.20	9.05	7.33

CAA Hurdle Development (2019)

1 / 3			
	3.25	3.16	3.36
	7.85	8.07	7.59

FINAL - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.75	3.83	4.91	5.96	7.00	8.06	9.12	10.19	11.28	12.38		13.57
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	
wind	0.2 m/s	velocity	4.73	7.87	7.87	8.10	8.17	8.02	8.02	7.94	7.80	7.73	8.82	7.37

CAA Hurdle Development (2019)

2 / 5			
	3.21	3.16	3.26
	7.94	8.07	7.82

Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)

date	08-Jul-19	time	2.80	3.88	4.98	6.04	7.10	8.16	9.24	10.32	11.40	12.50		13.71
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	
wind	0.5 m/s	velocity	4.64	7.87	7.73	8.02	8.02	8.02	7.87	7.87	7.87	7.73	8.68	7.29

CAA Hurdle Development (2019)

8 / 3			
	3.24	3.20	3.26
	7.87	7.97	7.82

FINAL - 2019 Chinese National Grand Prix 3 (Jinhai, CHN)

date	23-May-19	time	2.72	3.78	4.84	5.88	6.92	7.98	9.04	10.10	11.16	12.24		13.42
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	
wind	0.4 m/s	velocity	4.78	8.02	8.02	8.17	8.17	8.02	8.02	8.02	8.02	7.87	8.90	7.45

CAA Hurdle Development (2019)

7 / 3			
	3.16	3.16	3.20
	8.07	8.07	7.97

FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)

date	13-Apr-19	time	2.72	3.77	4.84	5.87	6.89	7.93	8.97	10.04	11.10	12.20		13.40
reaction time	0.183	interval		1.05	1.07	1.03	1.02	1.04	1.04	1.07	1.06	1.10	1.20	
wind	0.3 m/s	velocity	4.78	8.10	7.94	8.25	8.33	8.17	8.17	7.94	8.02	7.73	8.75	7.46

CAA Hurdle Development (2019)

6 / 3			
	3.15	3.10	3.23
	8.10	8.23	7.89

Heat 1 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)

date	13-Apr-19	time	2.72	3.80	4.87	5.92	6.98	8.02	9.08	10.16	11.24	12.34		13.57
reaction time	0.195	interval		1.08	1.07	1.05	1.06	1.04	1.06	1.08	1.08	1.10	1.23	
wind	0.7 m/s	velocity	4.78	7.87	7.94	8.10	8.02	8.17	8.02	7.87	7.87	7.73	8.54	7.37

CAA Hurdle Development (2019)

8 / 1			
	3.20	3.16	3.26
	7.97	8.07	7.82

FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)

date	09-Apr-19	time	2.77	3.85	4.94	5.99	7.04	8.12	9.18	10.24	11.34	12.44		13.68
reaction time	0.242	interval		1.08	1.09	1.05	1.05	1.08	1.06	1.06	1.10	1.10	1.24	
wind	0.1 m/s	velocity	4.69	7.87	7.80	8.10	8.10	7.87	8.02	8.02	7.73	7.73	8.47	7.31

CAA Hurdle Development (2019)

9 / 4			
	3.22	3.19	3.26
	7.92	7.99	7.82

Heat 3 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)

date	08-Apr-19	time	2.78	3.85	4.92	5.99	7.03	8.09	9.17	10.24	11.30	12.41		13.63
reaction time	0.207	interval		1.07	1.07	1.07	1.04	1.06	1.08	1.07	1.06	1.11	1.22	
wind	1.0 m/s	velocity	4.68	7.94	7.94	7.94	8.17	8.02	7.87	7.94	8.02	7.66	8.61	7.34

CAA Hurdle Development (2019)

8 / 2			
	3.21	3.18	3.24
	7.94	8.02	7.87

A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)

date	20-Mar-19	time	2.74	3.84	4.91	5.99	7.04							8.47
reaction time		interval		1.10	1.07	1.08	1.05						1.43	
		velocity	4.74	7.73	7.94	7.87	8.10						9.09	7.08

CAA Hurdle Development (2019)

2 / 4			
	3.25		
	7.85		

A-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)

date	24-Feb-19	time	2.73	3.84	4.92	6.01	7.09							8.50
reaction time		interval		1.11	1.08	1.09	1.08						1.41	
		velocity	4.76	7.66	7.87	7.80	7.87						9.22	7.06

CAA Hurdle Development (2019)

2 / 2			
	3.28		
	7.77		

B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)

date	20-Feb-19	time	2.73	3.82	4.92	6.02	7.09							8.53
reaction time		interval		1.09	1.10	1.10	1.07						1.44	
		velocity	4.76	7.80	7.73	7.73	7.94						9.03	7.03

CAA Hurdle Development (2019)

3 / 1			
	3.29		
	7.75		

Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)

date	15-Sep-18	time	2.75	3.90	5.00	6.09	7.19	8.27	9.37	10.49	11.61	12.76		14.00
reaction time		interval		1.15	1.10	1.09	1.10	1.08	1.10	1.12	1.12	1.15	1.24	
wind	-0.6 m/s	velocity	4.73	7.39	7.73	7.80	7.73	7.87	7.73	7.59	7.59	7.39	8.47	7.14

Henson (2018) - coaching observations

8 / 5			
	3.34	3.28	3.39
	7.63	7.77	7.52

Yuidori, Yuida (JPN)**FINAL - Japanese National Youth Championships (Mizuho, JPN) (76cm)**

H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
(2016.10.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	21-Oct-16	time	2.64	3.73	4.77	5.80	6.83	7.89	8.93	9.99	11.07	12.17	13.39	6 / 1				
reaction time		interval		1.09	1.04	1.03	1.03	1.06	1.04	1.06	1.08	1.10	1.22	NYR		3.16	3.13	3.24
wind	0.8 m/s	velocity	4.92	7.34	7.69	7.77	7.77	7.55	7.69	7.55	7.41	7.27	12.30	7.47		7.59	7.67	7.41
Semi-Final 1 - Japanese National Youth Championships (Mizuho, JPN) (76cm) (2016.10.22) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																		
date	21-Oct-16	time	2.66	3.77	4.83	5.87	6.92	7.96	9.01	10.05	11.14	12.24	13.45	5 / 1				
reaction time		interval		1.11	1.06	1.04	1.05	1.04	1.05	1.04	1.09	1.10	1.21	NYR		3.21	3.14	3.23
wind	1.2 m/s	velocity	4.89	7.21	7.55	7.69	7.62	7.69	7.62	7.69	7.34	7.27	12.40	7.43		7.48	7.64	7.43
Yuri, Ohiko (JPN)																		
FINAL - 2016 Kanto Student Championships (Sagamihara, JPN) (2016.09.17) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																		
date	17-Sep-16	time	2.75	3.85	4.94	6.01	7.08	8.15	9.19	10.32	11.46	12.59	13.84	4 / 2				
reaction time		interval		1.10	1.09	1.07	1.07	1.07	1.04	1.13	1.14	1.13	1.25			3.26	3.18	3.40
wind	3.2 m/s	velocity	4.73	7.73	7.80	7.94	7.94	7.94	8.17	7.52	7.46	7.52	8.40	7.23		7.82	8.02	7.50
Yuxi Lin (CHN) (2003)																		
FINAL - 2021 Chinese East Region Athletics Meeting (Fuzhou, CHN) CAA Hurdle Development (2021)																		
date	23-May-21	time	2.70	3.80	4.87	5.92	6.96	8.03	9.11	10.19	11.29	12.39	13.60	2 / 4				
reaction time	0.242	interval		1.10	1.07	1.05	1.04	1.07	1.08	1.08	1.10	1.10	1.21	PB		3.22	3.19	3.28
wind	-0.5 m/s	velocity	4.81	7.73	7.94	8.10	8.17	7.94	7.87	7.87	7.73	7.73	8.31	7.35		7.92	7.99	7.77
Zackiewicz, Claudia (FRG) (1962)																		
FINAL - 1988 Olympic Games (Seoul, KOR) Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988																		
date	30-Sep-88	time	2.59	3.61	4.62	5.59	6.58	7.58	8.59	9.58	10.59	11.62	12.75	3 / 3				
reaction time	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
wind	0.2 m/s	velocity	5.02	8.33	8.42	8.76	8.59	8.50	8.42	8.59	8.42	8.25	9.29	7.84		8.50	8.50	8.42
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR) Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988																		
date	29-Sep-88	time	2.58	3.63	4.63	5.62	6.61	7.59	8.59	9.59	10.61	11.67	12.75	6 / 2				
reaction time	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
wind	0.4 m/s	velocity	5.04	8.10	8.50	8.59	8.59	8.67	8.50	8.50	8.33	8.02	9.72	7.84		8.39	8.59	8.28
FINAL - 1987 West German National Championships (Gelsenkirchen, FRG) Hucklekemkes (1997) - velocity in the women's 100m sprint hurdles (in Jarver (ed) - the hurdles, 1997)																		
date	11-Jul-87	time	2.61	3.63	4.63	5.61	6.62	7.60	8.59	9.61	10.63	11.69	12.80	1 / 1				
reaction time		interval		1.02	1.00	0.98	1.01	0.98	0.99	1.02	1.02	1.06	1.11			3.00	2.98	3.10
wind	-0.2 m/s	velocity	4.98	8.33	8.50	8.67	8.42	8.67	8.59	8.33	8.33	8.02	9.46	7.81		8.50	8.56	8.23
FINAL - 1987 European Cup (Prague, TCH) Suřanka (1987) - hints on computer processing of biomechanical data																		
date	28-Jun-87	time	2.64	3.68	4.72	5.70	6.72	7.72	8.72	9.76	10.76	11.84	12.97	5 / 3				
reaction time		interval		1.04	1.04	0.98	1.02	1.00	1.00	1.04	1.00	1.08	1.13			3.06	3.02	3.12
wind	-0.9 m/s	velocity	4.92	8.17	8.17	8.67	8.33	8.50	8.50	8.17	8.50	7.87	9.29	7.71		8.33	8.44	8.17
Zagorcheva, Ginka (BUL) (1958)																		
FINAL - 1987 IAAF World Championships (Rome, ITA) Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics																		
date	04-Sep-87	time	2.51	3.52	4.49	5.46	6.44	7.41	8.38	9.34	10.31	11.28	12.34	5 / 1				
reaction time		interval		1.01	0.97	0.97	0.98	0.97	0.97	0.96	0.97	0.97	1.06	CR		2.95	2.92	2.90
wind	-0.5 m/s	velocity	5.18	8.42	8.76	8.76	8.67	8.76	8.76	8.85	8.76	8.76	9.91	8.10		8.64	8.73	8.79
Semi-Final 2 - 1987 IAAF World Championships (Rome, ITA) Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics																		
date	04-Sep-87	time	2.60	3.63	4.65	5.86	6.66	7.64	8.62	9.62	10.62	11.69	12.75	6 / 2				
reaction time		interval		1.03	1.02	1.21	0.80	0.98	0.98	1.00	1.00	1.07	1.06			3.26	2.76	3.07
wind	-0.2 m/s	velocity	5.00	8.25	8.33	7.02	10.63	8.67	8.67	8.50	8.50	7.94	9.91	7.84		7.82	9.24	8.31
Heat 1 - 1987 IAAF World Championships (Rome, ITA) Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics																		
date	03-Sep-87	time	2.56	3.57	4.57	5.57	6.54	7.53	8.49	9.46	10.45	11.45	12.51	2 / 1				
reaction time		interval		1.01	1.00	1.00	0.97	0.99	0.96	0.97	0.99	1.00	1.06			3.01	2.92	2.96
wind	-1.0 m/s	velocity	5.08	8.42	8.50	8.50	8.76	8.59	8.85	8.76	8.59	8.50	9.91	7.99		8.47	8.73	8.61
FINAL - 1987 Greece vs. Bulgaria vs. USSR (Drama, GRE) Bondarchuk (2007) - transfer of training in sports																		
date	08-Aug-87	time	2.49	3.47	4.42	5.39	6.33	7.26	8.17	9.15	10.15	11.17	12.25	1 / 1				
reaction time		interval		0.98	0.95	0.97	0.94	0.93	0.91	0.98	1.00	1.02	1.08	WR		2.90	2.78	3.00
wind	1.4 m/s	velocity	5.22	8.67	8.95	8.76	9.04	9.14	9.34	8.67	8.50	8.33	9.72	8.16		8.79	9.17	8.50
FINAL - 1983 IAAF World Championships (Helsinki, FIN) Knoke (1984) - the hurdles																		
date	13-Aug-83	time	2.52	3.58	4.59	5.57	6.51	7.45	8.39	9.47	10.41	11.44	12.62	6 / 3				
reaction time	0.117	interval		1.06	1.01	0.98	0.94	0.94	0.94	1.08	0.94	1.03	1.18			3.05	2.82	3.05
wind	2.4 m/s	velocity	5.16	8.02	8.42	8.67	9.04	9.04	9.04	7.87	9.04	8.25	8.90	7.92		8.36	9.04	8.36
Zagrę, Anne (BEL) (1990)																		
FINAL - 2021 Memorial van Damme (Brussels, BEL) (TV Analysis) Henson (2021) - Athlete First: 2021 year end hurdle report																		
date	03-Sep-21	time	2.60	3.62	4.64	5.62	6.60	7.60	8.60	9.64	10.66	11.70	12.96	8 / 6				
reaction time	0.153	interval		1.02	1.02	0.98	0.98	1.00	1.00	1.04	1.02	1.04	1.26			3.02	2.98	3.10
wind	0.7 m/s	velocity	5.00	8.33	8.33	8.67	8.67	8.50	8.50	8.17	8.33	8.17	7.98	7.72		8.44	8.56	8.23

FINAL - 2020 Memorial Van Damme (Brussels, BEL) (TV Analysis)

date	04-Sep-20	time	2.57	3.60	4.63	5.67	6.70	7.70	8.73	9.76	10.80	11.90	13.21	4 / 1			
reaction time	0.136	interval		1.03	1.03	1.04	1.03	1.00	1.03	1.03	1.04	1.10	1.31		3.10	3.06	3.17
wind	-0.2 m/s	velocity	5.06	8.25	8.25	8.17	8.25	8.50	8.25	8.25	8.17	7.73	7.67	7.57	8.23	8.33	8.04

Henson (2020) - Athlete First: 2020 year end hurdle report

Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)

date	06-Oct-19	time	2.61	3.64	4.63	5.61	6.59	7.56	8.54	9.56	10.58	11.62	13.23	9 / 5			
reaction time	0.135	interval		1.03	0.99	0.98	0.98	0.97	0.98	1.02	1.02	1.04	1.61	DQ	3.00	2.93	3.08
wind	0.6 m/s	velocity	4.98	8.25	8.59	8.67	8.67	8.76	8.67	8.33	8.33	8.17	6.24	7.56	8.50	8.70	8.28

CAA Hurdle Development (2019)

FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)

date	06-Sep-19	time	2.60	3.63	4.67	5.70	6.70	7.70						dnf	9 / --		
reaction time	0.139	interval		1.03	1.04	1.03	1.00	1.00						DQ		3.10	
wind	0.0 m/s	velocity	5.00	8.25	8.17	8.25	8.50	8.50								8.23	

Henson (2020) - Athlete First: 2019 year end hurdle report

Semi-Final 1 - 2017 IAAF World Championships (London, GBR)

date	11-Aug-17	time	2.51	3.59	4.67	5.66	6.71	7.70	8.74	9.81	10.89	11.99	13.34	9 / 8			
reaction time	0.139	interval		1.08	1.08	0.99	1.05	0.99	1.04	1.07	1.08	1.10	1.35		3.15	3.08	3.25
wind	0.5 m/s	velocity	5.18	7.87	7.87	8.59	8.10	8.59	8.17	7.94	7.87	7.73	7.78	7.50	8.10	8.28	7.85

Polliitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 100m Hurdles

FINAL - 2017 Bislett Games (Oslo, NOR) (TV Analysis)

date	15-Jun-17	time	2.62	3.66	4.70	5.70	6.68	7.68	8.68	9.70	10.72	11.74	12.98	8 / 6			
reaction time	0.154	interval		1.04	1.04	1.00	0.98	1.00	1.00	1.02	1.02	1.02	1.24		3.08	2.98	3.06
wind	0.8 m/s	velocity	4.96	8.17	8.17	8.50	8.67	8.50	8.50	8.33	8.33	8.33	8.47	7.70	8.28	8.56	8.33

Henson (2020) - Athlete First: 2017 year end hurdle report

FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)

date	09-Sep-16	time	2.56	3.60	4.58	5.56	6.56	7.54	8.54	9.54	10.54	11.58	12.82	5 / 2			
reaction time	0.152	interval		1.04	0.98	0.98	1.00	0.98	1.00	1.00	1.00	1.04	1.24		3.00	2.98	3.04
wind	0.1 m/s	velocity	5.08	8.17	8.67	8.67	8.50	8.67	8.50	8.50	8.50	8.17	8.47	7.80	8.50	8.56	8.39

Henson (2021) - Athlete First: 2016 year end hurdle report

FINAL - 2016 Weltklasse (Zürich, SUI) (TV Analysis)

date	01-Sep-16	time	2.60	3.64	4.64	5.64	6.64	7.64	8.66	9.70	10.72	11.74	12.98	9 / 8			
reaction time	0.146	interval		1.04	1.00	1.00	1.00	1.00	1.02	1.04	1.02	1.02	1.24		3.04	3.02	3.08
wind	0.4 m/s	velocity	5.00	8.17	8.50	8.50	8.50	8.50	8.33	8.17	8.33	8.33	8.47	7.70	8.39	8.44	8.28

Henson (2020) - Athlete First: 2016 year end hurdle report

FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)

date	22-Jul-16	time	2.64	3.68	4.70	5.72	6.70	7.68	8.68	9.68	10.68	11.72	12.94	1 / 7			
reaction time	0.160	interval		1.04	1.02	1.02	0.98	0.98	1.00	1.00	1.00	1.04	1.22		3.08	2.96	3.04
wind	0.3 m/s	velocity	4.92	8.17	8.33	8.33	8.67	8.67	8.50	8.50	8.50	8.17	8.61	7.73	8.28	8.61	8.39

Henson (2020) - Athlete First: 2016 year end hurdle report

FINAL - 2016 European Championships (Amsterdam, NED) (TV Analysis)

date	07-Jul-16	time	2.56	3.62	4.66	5.68	6.68	7.66	8.64	9.66	10.70	11.76	12.97	2 / 5			
reaction time	0.126	interval		1.06	1.04	1.02	1.00	0.98	0.98	1.02	1.04	1.06	1.21		3.12	2.96	3.12
wind	-0.7 m/s	velocity	5.08	8.02	8.17	8.33	8.50	8.67	8.67	8.33	8.17	8.02	8.68	7.71	8.17	8.61	8.17

Henson (2020) - Athlete First: 2016 year end hurdle report

FINAL - 2016 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)

date	16-Jun-16	time	2.60	3.67	4.70	5.70	6.72	7.72	8.74	9.77	10.81	11.86	13.19	7 / 7			
reaction time	0.192	interval		1.07	1.03	1.00	1.02	1.00	1.02	1.03	1.04	1.05	1.33		3.10	3.04	3.12
wind	-0.4 m/s	velocity	5.00	7.94	8.25	8.50	8.33	8.50	8.33	8.25	8.17	8.10	7.89	7.58	8.23	8.39	8.17

Henson (2020) - Athlete First: 2016 year end hurdle report

Zbären, Noemi (SUI) (1994)

date	04-Sep-22	time	2.72	3.76	4.80	5.80	6.80	7.80	8.80	9.84	10.86	11.90	13.09	3 / 4			
reaction time	0.232	interval		1.04	1.04	1.00	1.00	1.00	1.00	1.04	1.02	1.04	1.19		3.08	3.00	3.10
wind	-0.3 m/s	velocity	4.78	8.17	8.17	8.50	8.50	8.50	8.50	8.17	8.33	8.17	8.45	7.64	8.28	8.50	8.23

Henson (2022) - Athlete First: 2022 Tobi Amusan 100m hurdles world record season

Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

date	24-Jul-22	time	2.66	3.72	4.72	5.70	6.72	7.72	8.72	9.74	10.74	11.78	12.94	8 / 7			
reaction time	0.164	interval		1.06	1.00	0.98	1.02	1.00	1.00	1.02	1.00	1.04	1.16		3.04	3.02	3.06
wind	0.3 m/s	velocity	4.89	8.02	8.50	8.67	8.33	8.50	8.50	8.33	8.50	8.17	8.66	7.73	8.39	8.44	8.33

Henson (2022) - Athlete First: 2022 year end hurdle report

Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)

date	23-Jul-22	time	2.60	3.66	4.66	5.66	6.66	7.66	8.66	9.68	10.70	11.74	13.00	6 / 3			
reaction time	0.162	interval		1.06	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.26		3.06	3.00	3.08
wind	-0.4 m/s	velocity	5.00	8.02	8.50	8.50	8.50	8.50	8.50	8.33	8.33	8.17	7.98	7.69	8.33	8.50	8.28

Henson (2022) - Athlete First: 2022 year end hurdle report

FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)

date	28-Aug-15	time	2.62	3.64	4.66	5.64	6.64	7.64	8.64	9.64	10.68	11.76	12.95	3 / 6			
reaction time	0.165	interval		1.02	1.02	0.98	1.00	1.00	1.00	1.00	1.04	1.08	1.19		3.02	3.00	3.12
wind	-0.3 m/s	velocity	4.96	8.33	8.33	8.67	8.50	8.50	8.50	8.50	8.17	7.87	8.82	7.72	8.44	8.50	8.17

Henson (2021) - Athlete First: major championships report

Zekuciová, Anna (CZE) (1995)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified DV=Drug Violation

FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE)*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.75	3.87	4.98	6.10	7.21	8.35	9.48	10.63	11.79	12.98		14.31	4 / 1			
reaction time	0.161	interval		1.12	1.11	1.12	1.11	1.14	1.13	1.15	1.16	1.19	1.33			3.35	3.38	3.50
wind	-3.9 m/s	velocity	4.73	7.59	7.66	7.59	7.66	7.46	7.52	7.39	7.33	7.14	7.89	6.99		7.61	7.54	7.29

Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE)*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.76	3.88	4.98	6.09	7.21	8.35	9.48	10.65	11.81	13.10		14.32	4 / 1			
reaction time	0.162	interval		1.12	1.10	1.11	1.12	1.14	1.13	1.17	1.16	1.29	1.22			3.33	3.39	3.62
wind	-4.5 m/s	velocity	4.71	7.59	7.73	7.66	7.59	7.46	7.52	7.26	7.33	6.59	8.61	6.98		7.66	7.52	7.04

Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)*Feher (2013) - Final report from the men's & women's Czech Republic national championships*

date	15-Jun-13	time	2.79	3.92	5.06	6.18	7.31	8.44	9.60	10.75	11.91	13.14		14.42	6 / 3			
reaction time	0.201	interval		1.13	1.14	1.12	1.13	1.13	1.16	1.15	1.16	1.23	1.28			3.39	3.42	3.54
wind	-1.8 m/s	velocity	4.66	7.52	7.46	7.59	7.52	7.52	7.33	7.39	7.33	6.91	8.20	6.93		7.52	7.46	7.20

Zelinka, Jessica (CAN) (1981)**FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)***Henson (2021) - Athlete First: major championships report*

date	07-Aug-12	time	2.50	3.50	4.50	5.46	6.42	7.40	8.38	9.40	10.42	11.46		12.69	8 / 7-6			
reaction time	0.145	interval		1.00	1.00	0.96	0.96	0.98	0.98	1.02	1.02	1.04	1.23			2.96	2.92	3.08
wind	-0.2 m/s	velocity	5.20	8.50	8.50	8.85	8.85	8.67	8.67	8.33	8.33	8.17	8.54	7.88		8.61	8.73	8.28

Zeng Xiaoling (CHN) (1980)**FINAL - 2001 Chinese National Games (Beijing, CHN)***Huang (2003) - research on the technique of women's 100m hurdles in th 9th national games*

date	18-Nov-01	time	2.60	3.64	4.66	5.68	6.68	7.69	8.71	9.73	10.75	11.79		12.91	1 / 3			
reaction time		interval		1.04	1.02	1.02	1.00	1.01	1.02	1.02	1.02	1.04	1.12			3.08	3.03	3.08
wind	2.2 m/s	velocity	5.00	8.17	8.33	8.33	8.50	8.42	8.33	8.33	8.33	8.17	9.37	7.75		8.28	8.42	8.28

Zhang Jiayi (CHN) (2001)**U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)***CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.64	3.74	4.84	5.92	7.02	8.11	9.21	10.33	11.45	12.60		13.87	5 / 3			
reaction time	0.182	interval		1.10	1.10	1.08	1.10	1.09	1.10	1.12	1.12	1.15	1.27			3.28	3.29	3.39
wind	-0.1 m/s	velocity	4.92	7.73	7.73	7.87	7.73	7.80	7.73	7.59	7.59	7.39	8.27	7.21		7.77	7.75	7.52

U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN)*CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.72	3.80	4.87	5.96	7.06	8.16	9.27	10.37	11.48	12.61		13.84	8 / 1			
reaction time	0.192	interval		1.08	1.07	1.09	1.10	1.10	1.11	1.10	1.11	1.13	1.23	PB		3.24	3.31	3.34
wind	-0.2 m/s	velocity	4.78	7.87	7.94	7.80	7.73	7.73	7.66	7.73	7.66	7.52	8.54	7.23		7.87	7.70	7.63

Zhang Xueqing (CHN) (1997)**Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)***Henson (2018) - coaching observations*

date	15-Sep-18	time	2.90	4.07	5.21	6.35	7.49	8.64	9.81	11.01	12.23	13.49		14.85	1 / 8			
reaction time		interval		1.17	1.14	1.14	1.14	1.15	1.17	1.20	1.22	1.26	1.36			3.45	3.46	3.68
wind	-0.6 m/s	velocity	4.48	7.26	7.46	7.46	7.46	7.39	7.26	7.08	6.97	6.75	7.72	6.73		7.39	7.37	6.93

Zhang Xuhui (CHN) (2000)**Heptathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)***CAA Hurdle Development (2021)*

date	24-Jun-21	time	2.80	3.97	5.12	6.27	7.41	8.54	9.73	10.91	12.09	13.33		14.62	7 / 2			
reaction time	0.218	interval		1.17	1.15	1.15	1.14	1.13	1.19	1.18	1.18	1.24	1.29	PB		3.47	3.46	3.60
wind	0.3 m/s	velocity	4.64	7.26	7.39	7.39	7.46	7.52	7.14	7.20	7.20	6.85	7.79	6.84		7.35	7.37	7.08

Zhang Yali (CHN) (1996)**Heptathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)***CAA Hurdle Development (2019)*

date	08-Jul-19	time	3.08	4.34	5.63	6.89	8.16	9.40	10.66	11.93	13.23	14.53		15.82	7 / 7			
reaction time	0.219	interval		1.26	1.29	1.26	1.27	1.24	1.26	1.27	1.30	1.30	1.29	PB		3.81	3.77	3.87
wind	0.8 m/s	velocity	4.22	6.75	6.59	6.75	6.69	6.85	6.75	6.69	6.54	6.54	8.14	6.32		6.69	6.76	6.59

Zhang Yan (CHN) (2001)**Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)***CAA Hurdle Development (2021)*

date	24-Apr-21	time	2.80	3.96	5.10	6.24	7.39	8.52	9.67	10.84	12.03	13.25		14.58	5 / 6			
reaction time	0.195	interval		1.16	1.14	1.14	1.15	1.13	1.15	1.17	1.19	1.22	1.33			3.44	3.43	3.58
wind	0.6 m/s	velocity	4.64	7.33	7.46	7.46	7.39	7.52	7.39	7.26	7.14	6.97	7.56	6.86		7.41	7.43	7.12

U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN)*CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.79	3.94	5.09	6.27	7.46	8.66	9.89	11.16	12.45	13.80		15.28	4 / 6			
reaction time	0.154	interval		1.15	1.15	1.18	1.19	1.20	1.23	1.27	1.29	1.35	1.48			3.48	3.62	3.91
wind	0.5 m/s	velocity	4.66	7.39	7.39	7.20	7.14	7.08	6.91	6.69	6.59	6.30	7.09	6.54		7.33	7.04	6.52

Zhang Yi (CHN) (2000)**U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN)***CAA Hurdle Development (2019)*

date	14-Aug-19	time	2.65	3.80	4.90	6.03	7.12	8.28	9.43	10.61	11.81	13.06		14.51	4 / 8			
reaction time	0.179	interval		1.15	1.10	1.13	1.09	1.16	1.15	1.18	1.20	1.25	1.45			3.38	3.40	3.63
wind	-0.1 m/s	velocity	4.91	7.39	7.73	7.52	7.80	7.33	7.39	7.20	7.08	6.80	7.24	6.89		7.54	7.50	7.02

U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN)

date	14-Aug-19	time	2.68	3.79	4.87	5.96	7.02	8.12	9.21	10.36	11.50	12.71		14.08	3 / 1			
reaction time	0.138	interval		1.11	1.08	1.09	1.06	1.10	1.09	1.15	1.14	1.21	1.37	PB		3.28	3.25	3.50
wind	0.5 m/s	velocity	4.85	7.66	7.87	7.80	8.02	7.73	7.80	7.39	7.46	7.02	7.66	7.10		7.77	7.85	7.29

CAA Hurdle Development (2019)

A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)

date	4-Mar-19	time	2.68	3.77	4.87	5.95	7.07							8.60	4 / 3			
reaction time		interval		1.09	1.10	1.08	1.12						1.53			3.27		
		velocity	4.85	7.80	7.73	7.87	7.59						8.50	6.98		7.80		

CAA Hurdle Development (2019)

A-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)

date	28-Feb-19	time	2.72	3.80	4.88	6.02	7.14							8.65	2 / 4			
reaction time		interval		1.08	1.08	1.14	1.12						1.51			3.30		
		velocity	4.78	7.87	7.87	7.46	7.59						8.61	6.94		7.73		

CAA Hurdle Development (2019)

Zhang Yu (CHN) (1971)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1993 Chinese National Games (Beijing, CHN)	<i>Bo (1996) - a study on female 100m hurdles running rhythm in the 7th national games</i>																	
date	09-Sep-93	time	2.54	3.58	4.56	5.55	6.53	7.51	8.51	9.52	10.53	11.55		12.64	/ 1			
reaction time		interval		1.04	0.98	0.99	0.98	0.98	1.00	1.01	1.01	1.02	1.09	AR		3.01	2.96	3.04
wind	0.1 m/s	velocity	5.12	8.17	8.67	8.59	8.67	8.67	8.50	8.42	8.42	8.33	9.63	7.91		8.47	8.61	8.39

Zheng Ninali (CHN) (1998)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2021 Chinese East Region Athletics Meeting (Fuzhou, CHN)	<i>CAA Hurdle Development (2021)</i>																	
date	23-May-21	time	2.77	3.85	4.89	5.92	6.95	7.99	9.07	10.15	11.23	12.33		13.58	4 / 3			
reaction time	0.217	interval		1.08	1.04	1.03	1.03	1.04	1.08	1.08	1.08	1.10	1.25		3.15	3.15	3.26	
wind	-0.5 m/s	velocity	4.69	7.87	8.17	8.25	8.25	8.17	7.87	7.87	7.87	7.73	8.04	7.36		8.10	8.10	7.82

CAA Hurdle Development (2021)

National FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)

date	02-Sep-23	time	2.65	3.73	4.79	5.81	6.85	7.91	8.97	10.07	11.18	12.31		13.54	2 / 4			
reaction time	0.169	interval		1.08	1.06	1.02	1.04	1.06	1.06	1.10	1.11	1.13	1.23		3.16	3.16	3.34	
wind	0.1 m/s	velocity	4.91	7.87	8.02	8.33	8.17	8.02	8.02	7.73	7.66	7.52	8.17	7.39		8.07	8.07	7.63

Henson (2023) - Athlete First: 2023 year end hurdle report

Zhong Xiaoli (CHN) (2003)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)	<i>CAA Hurdle Development (2021)</i>																	
date	19-May-21	time	2.80	3.93	5.07	6.19	7.29	8.39	9.52	10.64	11.93	13.21		14.55	8 / 6			
reaction time	0.225	interval		1.13	1.14	1.12	1.10	1.10	1.13	1.12	1.29	1.28	1.34		3.39	3.33	3.69	
wind	0.2 m/s	velocity	4.64	7.52	7.46	7.59	7.73	7.73	7.52	7.59	6.59	6.64	7.50	6.87		7.52	7.66	6.91

CAA Hurdle Development (2021)

Heat 3 - 2021 National Grand Prix (Chengdu, CHN)

date	02-Apr-21	time	2.92	4.20	5.46	6.74	8.04	9.36	10.68	12.08	13.52	14.96		nt	8 / 6			
reaction time		interval		1.28	1.26	1.28	1.30	1.32	1.32	1.40	1.44	1.44				3.82	3.94	4.28
wind	1.0 m/s	velocity	4.45	6.64	6.75	6.64	6.54	6.44	6.44	6.07	5.90	5.90				6.68	6.47	5.96

CAA Hurdle Development (2021)

Heat 1 - 2021 National Grand Prix (Chengdu, CHN)

date	02-Apr-21	time	2.78	4.38										dnf	7 / --		
reaction time	0.247	interval		1.60													
wind	0.4 m/s	velocity	4.68	5.31													

CAA Hurdle Development (2021)

Heat 2 - 2021 National Indoor Grand Prix (Chengdu, CHN)

date	13-Mar-21	time	2.74	3.85	4.94	6.02	7.11							8.59	6 / 2		
reaction time	0.179	interval		1.11	1.09	1.08	1.09						1.48	PB		3.28	
		velocity	4.74	7.66	7.80	7.87	7.80						8.78	6.98		7.77	

CAA Hurdle Development (2021)

Zhou Hongyan (CHN) (1970)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1993 Chinese National Games (Beijing, CHN)	<i>Bo (1996) - a study on female 100m hurdles running rhythm in the 7th national games</i>																	
date	09-Sep-93	time	2.57	3.61	4.63	5.62	6.63	7.65	8.67	9.69	10.73	11.78		12.90	/ 3			
reaction time		interval		1.04	1.02	0.99	1.01	1.02	1.02	1.02	1.04	1.05	1.12		3.05	3.05	3.11	
wind	0.1 m/s	velocity	5.06	8.17	8.33	8.59	8.42	8.33	8.33	8.33	8.17	8.10	9.37	7.75		8.36	8.36	8.20

CAA Hurdle Development (2021)

Zhou Jing (CHN) (1973)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1993 Chinese National Games (Beijing, CHN)	<i>Bo (1996) - a study on female 100m hurdles running rhythm in the 7th national games</i>																	
date	09-Sep-93	time	2.56	3.62	4.67	5.68	6.71	7.75	8.79	9.83	10.89	12.05		13.19	/ 6			
reaction time		interval		1.06	1.05	1.01	1.03	1.04	1.04	1.04	1.06	1.16	1.14		3.12	3.11	3.26	
wind	0.1 m/s	velocity	5.08	8.02	8.10	8.42	8.25	8.17	8.17	8.17	8.02	7.33	9.21	7.58		8.17	8.20	7.82

CAA Hurdle Development (2021)

Zhou Jingjing (CHN) (1998)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heptathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)	<i>CAA Hurdle Development (2021)</i>																	
date	24-Jun-21	time	2.82	3.97	5.15	6.29	7.44	8.61	9.77	10.98	12.18	13.44		14.81	8 / 3			
reaction time	0.292	interval		1.15	1.18	1.14	1.15	1.17	1.16	1.21	1.20	1.26	1.37		3.47	3.48	3.67	
wind	0.2 m/s	velocity	4.61	7.39	7.20	7.46	7.39	7.26	7.33	7.02	7.08	6.75	7.34	6.75		7.35	7.33	6.95

CAA Hurdle Development (2021)

Heptathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)

date	23-Aug-19	time	2.87	4.04	5.22	6.41	7.57	8.76	9.96	11.19	12.41	13.69		15.07	6 / 3		
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CAA Hurdle Development (2019)

reaction time	0.177	interval	1.17	1.18	1.19	1.16	1.19	1.20	1.23	1.22	1.28	1.38			3.54	3.55	3.73
wind	?? m/s	velocity	4.53	7.26	7.20	7.14	7.33	7.14	7.08	6.91	6.97	6.64	7.61	6.64	7.20	7.18	6.84

Heptathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)

CAA Hurdle Development (2019)

date	08-Jul-19	time	2.91	4.07	5.24	6.39	7.56	8.71	9.88	11.09	12.33	13.58	15.00	1 / 6			
reaction time	0.221	interval	1.16	1.17	1.15	1.17	1.15	1.17	1.21	1.24	1.25	1.42			3.48	3.49	3.70
wind	0.1 m/s	velocity	4.47	7.33	7.26	7.39	7.26	7.39	7.26	7.02	6.85	6.80	7.39	6.67	7.33	7.31	6.89

Zhuang Dongmei (CHN) (2000)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																		
CAA Hurdle Development (2021)																		
date	25-Jun-21	time	2.75	3.92	5.09	6.24	7.39	8.54	9.74	10.94	12.14	13.38		14.73	9 / 7			
reaction time	0.195	interval	1.17	1.17	1.15	1.15	1.15	1.20	1.20	1.20	1.24	1.35				3.49	3.50	3.64
wind	-0.3 m/s	velocity	4.73	7.26	7.26	7.39	7.39	7.39	7.08	7.08	7.08	6.85	7.44	6.79		7.31	7.29	7.01

Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)

Henson (2018) - coaching observations

date	15-Sep-18	time	2.74	3.87	5.04	6.21	7.37	8.49	9.74	11.01	12.24	13.48	14.80	2 / 8			
reaction time		interval	1.13	1.17	1.17	1.16	1.12	1.25	1.27	1.23	1.24	1.32			3.47	3.53	3.74
wind	0.0 m/s	velocity	4.74	7.52	7.26	7.26	7.33	7.59	6.80	6.69	6.91	6.85	7.95	6.76	7.35	7.22	6.82

Žitná, Venuše (CZE) (1998)

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (76cm)																		
Feher (2015) - Final report U18 & U20 Czech Republic indoor national championships																		
date	14-Feb-15	time	2.73	3.90	5.04	6.15	7.31							8.78	7 / 3			
reaction time	0.243	interval	1.17	1.14	1.11	1.16							1.47			3.42		
		velocity	4.76	7.26	7.46	7.66	7.33						8.84	6.83		7.46		

Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (76cm)

Feher (2014) - Final report from the U18 & U20 Czech Republic national championships

date	28-Jun-14	time	2.83	4.04	5.21	6.44	7.68	8.93	10.20	11.53	12.80	14.07	15.53	1 / 3			
reaction time	0.186	interval	1.21	1.17	1.23	1.24	1.25	1.27	1.33	1.27	1.27	1.46			3.61	3.76	3.87
wind	-7.3 m/s	velocity	4.59	7.02	7.26	6.91	6.85	6.80	6.69	6.39	6.69	6.69	7.19	6.44	7.06	6.78	6.59