

## Men's 110m Hurdles Touchdown Times - by athlete

LAST UPDATE: 13-Nov-23

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
<b>Abate, Emanuele (ITA) (1985)</b>																		
<b>FINAL</b> - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)		Henson (2020) - Athlete First: 2016 year end hurdle report																
date	02-Jun-16	time	2.60	3.72	4.78	5.82	6.86	7.94	8.98	10.08	11.16	12.26		13.83	9 / 6			
reaction time	0.149	interval	7 steps	1.12	1.06	1.04	1.04	1.08	1.04	1.10	1.08	1.10	1.57			3.22	3.16	3.28
wind	0.6 m/s	velocity	5.28	8.16	8.62	8.79	8.79	8.46	8.79	8.31	8.46	8.31	8.93	7.95		8.52	8.68	8.36
<b>FINAL</b> - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis)		Henson (2020) - Athlete First: 2012 Aries Merritt world record season																
date	11-Mar-12	time	2.60	3.62	4.64	5.66	6.68							7.63	7 / 6			
reaction time	0.155	interval	7 steps	1.02	1.02	1.02	1.02						0.95			3.06		
wind		velocity	5.28	8.96	8.96	8.96	8.96						10.23	7.86		8.96		
<b>Abe, Hirofumi (JPN) (1985)</b>																		
<b>FINAL</b> - 2017 Nambu Memorial (Sapporo, JPN)		(2017) - tfdata-store.com/2017/07/12/post-1025/																
date	09-Jul-17	time	2.68	3.79	4.86	5.95	7.04	8.13	9.20	10.34	11.47	12.62		14.07	6 / 4			
reaction time		interval		1.11	1.07	1.09	1.09	1.09	1.07	1.14	1.13	1.15	1.45			3.27	3.25	3.42
wind	2.7 m/s	velocity	5.12	8.23	8.54	8.39	8.39	8.39	8.54	8.02	8.09	7.95	9.67	7.82		8.39	8.44	8.02
<b>FINAL</b> - 2017 East Japan Business Athletics Championships (Yuma, JPN)		(2017) - tfdata-store.com/2017/05/20/post-579/																
date	20-May-17	time	2.61	3.71	4.80	5.88	6.95	8.06	9.14	10.26	11.40	12.53		14.02	3 / 6			
reaction time		interval		1.10	1.09	1.08	1.07	1.11	1.08	1.12	1.14	1.13	1.49			3.27	3.26	3.39
wind	1.1 m/s	velocity	5.26	8.31	8.39	8.46	8.54	8.23	8.46	8.16	8.02	8.09	9.41	7.85		8.39	8.41	8.09
<b>Abe, Masaya (JPN) (1996)</b>																		
<b>FINAL</b> - 2017 Nambu Memorial (Sapporo, JPN)		(2017) - tfdata-store.com/2017/07/12/post-1025/																
date	09-Jul-17	time	2.69	3.83	4.95	6.08	7.23	8.35	9.47	10.61	11.76	12.93		14.45	2 / 7			
reaction time		interval		1.14	1.12	1.13	1.15	1.12	1.12	1.14	1.15	1.17	1.52			3.39	3.39	3.46
wind	2.7 m/s	velocity	5.10	8.02	8.16	8.09	7.95	8.16	8.16	8.02	7.95	7.81	9.22	7.61		8.09	8.09	7.92
<b>Abe, Ryoto (JPN) (2000)</b>																		
<b>FINAL</b> - 2018 Japanese National High School Championships (Nagoya, JPN) (99cm) (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection		Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection																
date	06-Aug-18	time	2.62	3.69	4.79	5.86	6.96	8.06	9.17	10.28	11.41	12.58		14.09	8 / 1			
reaction time		interval		1.07	1.10	1.07	1.10	1.10	1.11	1.11	1.13	1.17	1.51			3.24	3.31	3.41
wind	1.6 m/s	velocity	5.24	8.54	8.31	8.54	8.31	8.31	8.23	8.23	8.09	7.81	9.28	7.81		8.46	8.28	8.04
<b>FINAL</b> - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm) (2017) - 70th high school championships: JAF scientific committee - biomechanics data		Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data																
date	02-Aug-17	time	2.65	3.76	4.92	6.03	7.20	8.34	9.48	10.63	11.82	12.99		14.48	8 / 5			
reaction time	0.144	interval		1.11	1.16	1.11	1.17	1.14	1.14	1.15	1.19	1.17	1.49			3.38	3.45	3.51
wind	-0.7 m/s	velocity	5.18	8.23	7.88	8.23	7.81	8.02	8.02	7.95	7.68	7.81	9.41	7.60		8.11	7.95	7.81
<b>Heat 4</b> - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm) (2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en																		
date	21-Oct-16	time	2.66	3.76	4.85	5.96	7.06	8.18	9.32	10.45	11.63	12.83		14.30	2 / 3			
reaction time		interval		1.10	1.09	1.11	1.10	1.12	1.14	1.13	1.18	1.20	1.47			3.30	3.36	3.51
wind	1.5 m/s	velocity	5.16	8.31	8.39	8.23	8.31	8.16	8.02	8.09	7.75	7.62	9.54	7.69		8.31	8.16	7.81
<b>Abe, Tatsuki (JPN) (2003)</b>																		
<b>FINAL</b> - 2022 Japanese U20 National Championships (Osaka, JPN) (99cm) (2022) - race analysis of the men's 110m hurdles in the 2022 season		Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season																
date	12-Jun-22	time	2.65	3.73	4.77	5.80	6.82	7.85	8.91	9.96	11.01	12.09		13.49	4 / 1			
reaction time	0.157	interval	7 steps	1.08	1.04	1.03	1.02	1.03	1.06	1.05	1.05	1.08	1.40			3.15	3.11	3.18
wind	1.1 m/s	velocity	5.18	8.46	8.79	8.87	8.96	8.87	8.62	8.70	8.70	8.46	10.01	8.15		8.70	8.82	8.62
<b>Acson, Dennis (SWE) (1981)</b>																		
<b>FINAL</b> - 2011 Windsprint (Sundsvall, SWE) (2011) - www.sub13.se		Blomkvist (2011) - www.sub13.se																
date	31-Jul-11	time	2.74	3.85	4.97	6.09	7.24							14.99	1 / 5			
reaction time		interval		1.11	1.12	1.12	1.15									3.35		
wind	2.8 m/s	velocity	5.01	8.23	8.16	8.16	7.95							7.34		8.19		
<b>FINAL</b> - 2007 Windsprint (Sundsvall, SWE) (2007) - www.ssg.se/en/Windsprint/Split-times/																		
date	24-Jul-07	time		3.80		7.21				10.63				14.62	1 / 5			
reaction time		interval				3.41				3.42			3.99					
wind	1.3 m/s	velocity		6.02		8.04				8.02			8.10	7.52				
<b>Adachi, Eiji (JPN) (2006)</b>																		
<b>FINAL</b> - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm) (2021) - race analysis of men's 110m hurdles in the 2021 season		Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season																
date	24-Oct-21	time	2.73	3.92	5.07	6.25	7.42	8.61	9.79	10.97	12.13	13.32		14.89	1 / 7			
reaction time		interval		1.19	1.15	1.18	1.17	1.19	1.18	1.18	1.16	1.19	1.57			3.52	3.54	3.53
wind	1.0 m/s	velocity	5.03	7.68	7.95	7.75	7.81	7.68	7.75	7.75	7.88	7.68	8.93	7.39		7.79	7.75	7.77
<b>Adams, Spencer (USA) (1989)</b>																		
<b>FINAL</b> - 2017 Drake Relays (Des Moines, IA) (TV Analysis) (2017) - Athlete First: 2017 year end hurdle report		Henson (2020) - Athlete First: 2017 year end hurdle report																
date	29-Apr-17	time	2.50	3.56	4.60	5.63	6.66	7.70	8.73	9.80	10.90	12.00		13.56	8 / 6			
reaction time		interval	7 steps	1.06	1.04	1.03	1.03	1.04	1.03	1.07	1.10	1.10	1.56			3.13	3.10	3.27
wind	1.8 m/s	velocity	5.49	8.62	8.79	8.87	8.87	8.79	8.87	8.54	8.31	8.31	8.99	8.11		8.76	8.85	8.39

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

FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)														Henson (2020) - Athlete First: 2016 year end hurdle report				
date	06-May-16	time	2.52	3.56	4.60	5.64	6.68	7.72	8.76	9.80	10.88	11.96	13.44	8 / 7				
reaction time	0.124	interval	7 steps	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.08	1.08	1.48		3.12	3.12	3.20	
wind	1.4 m/s	velocity	5.44	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.46	8.46	9.47	8.18	8.79	8.79	8.57	
<b>Aihaiti Yisikandaer (CHN) (1998)</b>																		
<b>Decathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)</b>														CAA Hurdle Development (2019)				
date	11-Jul-19	time	2.88	4.10	5.34	6.59	7.81	9.07	10.34	11.58	12.84	14.14	15.80	8 / 5				
reaction time	0.193	interval		1.22	1.24	1.25	1.22	1.26	1.27	1.24	1.26	1.30	1.66		3.71	3.75	3.80	
wind	-0.6 m/s	velocity	4.76	7.49	7.37	7.31	7.49	7.25	7.20	7.37	7.25	7.03	8.45	6.96	7.39	7.31	7.22	
<b>Aiso, Ibuki (JPN) (1996)</b>																		
<b>FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)</b>														(2017) - tfdata-store.com/2017/05/13/post-441/				
date	11-May-17	time	2.69	3.82	4.95	6.06	7.15	8.27	9.42	10.54	11.68	12.85	14.34	3 / 6				
reaction time		interval		1.13	1.13	1.11	1.09	1.12	1.15	1.12	1.14	1.17	1.49		3.37	3.36	3.43	
wind	1.6 m/s	velocity	5.10	8.09	8.09	8.23	8.39	8.16	7.95	8.16	8.02	7.81	9.41	7.67	8.14	8.16	7.99	
<b>Heat 2 - 2017 Mito Invitational (Mito, JPN)</b>														(2017) - tfdata-store.com/2017/05/06/post-423/				
date	05-May-17	time	2.70	3.84	4.98	6.11	7.23	8.35	9.47	10.59	11.73	12.91	14.40	9 / 4				
reaction time		interval		1.14	1.14	1.13	1.12	1.12	1.12	1.12	1.14	1.18	1.49		3.41	3.36	3.44	
wind	0.6 m/s	velocity	5.08	8.02	8.02	8.09	8.16	8.16	8.16	8.16	8.02	7.75	9.41	7.64	8.04	8.16	7.97	
<b>FINAL - 2017 Kyoto University Meeting (Kyoto, JPN)</b>														(2017) - tfdata-store.com/2017/04/12/post-362/				
date	09-Apr-17	time	2.70	3.84	4.95	6.04	7.17	8.28	9.38	10.50	11.64	12.82	14.33	4 / 3				
reaction time		interval		1.14	1.11	1.09	1.13	1.11	1.10	1.12	1.14	1.18	1.51		3.34	3.34	3.44	
wind	1.5 m/s	velocity	5.08	8.02	8.23	8.39	8.09	8.23	8.31	8.16	8.02	7.75	9.28	7.68	8.21	8.21	7.97	
<b>Akindede, Oladayo (USA) (1996)</b>																		
<b>FINAL - 2020 Leonard Hilton Memorial Invitational (Houston, TX)</b>														CAA Hurdle Development (2020)				
date	17-Jan-20	time	2.53	3.60	4.64	5.67	6.71						7.78	5 / 1				
reaction time		interval	7 steps	1.07	1.04	1.03	1.04					1.07	PB		3.14			
wind		velocity	5.42	8.54	8.79	8.87	8.79					9.08	7.71		8.73			
<b>Akins, Ty (USA) (1986)</b>																		
<b>FINAL - 2012 USA Olympic Trials (Eugene, OR)</b>														Henson (2020) - Athlete First: 2012 Aries Merriitt world record season				
date	30-Jun-12	time	2.40	3.47	4.50	5.54	6.59	7.61	8.61				dnf	1 / --				
reaction time	0.179	interval		1.07	1.03	1.04	1.05	1.02	1.00						3.14	3.07		
wind	1.2 m/s	velocity	5.72	8.54	8.87	8.79	8.70	8.96	9.14						8.73	8.93		
<b>FINAL - 2011 Folksam GP (Göteborg, SWE)</b>														Blomkvist (2011) - www.sub13.se				
date	11-Jun-11	time	2.44	3.48	4.52	5.56	6.60	7.64	8.68	9.72	10.76	11.84	13.41	/ 1				
reaction time		interval		1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.08	1.57		3.12	3.12	3.16	
wind	0.6 m/s	velocity	5.62	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.46	8.93	8.20	8.79	8.79	8.68	
<b>FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)</b>														Graubner (2009) - http://www.fgs.uni-halle.de				
date	14-Sep-08	time	2.61	3.69	4.76	5.80	6.86	7.93	9.00	10.06	11.13	12.22	13.62	5 / 6				
reaction time	0.150	interval		1.08	1.07	1.04	1.06	1.07	1.07	1.06	1.07	1.09	1.40		3.19	3.20	3.22	
wind	-1.3 m/s	velocity	5.26	8.46	8.54	8.79	8.62	8.54	8.54	8.62	8.54	8.39	10.01	8.08	8.60	8.57	8.52	
<b>FINAL - 2008 USA Olympic Trials (Eugene, OR)</b>														USATF Hurdle Development (2008)				
date	06-Jul-08	time	2.57	3.67	4.74	5.79	6.84	7.89	8.94	9.98	11.03	12.19	13.82	8 / 7				
reaction time	0.175	interval		1.10	1.07	1.05	1.05	1.05	1.05	1.04	1.05	1.16	1.63		3.22	3.15	3.25	
wind	3.5 m/s	velocity	5.34	8.31	8.54	8.70	8.70	8.70	8.70	8.79	8.70	7.88	8.60	7.96	8.52	8.70	8.44	
<b>Heat 4 - 2007 USATF National Championships (Indianapolis, IN)</b>														USATF Men's Hurdle Development (2007)				
date	23-Jun-07	time	2.69	3.82	4.90	6.02	7.12	8.19	9.29	10.37	11.49	12.61	14.09	3 / 6				
reaction time		interval		1.13	1.08	1.12	1.10	1.07	1.10	1.08	1.12	1.12	1.48		3.33	3.27	3.32	
wind	-2.8 m/s	velocity	5.10	8.09	8.46	8.16	8.31	8.54	8.31	8.46	8.16	8.16	9.47	7.81	8.23	8.39	8.26	
<b>Al-Ameen, Alex (GBR) (1989)</b>																		
<b>FINAL - 2010 Windsprint (Sundsvall, SWE)</b>														Blomkvist (2010) - www.sub13.se				
date	08-Aug-10	time	2.75	3.86	4.95	6.03	7.11	8.21	9.31	10.42	11.53	12.67	14.20	/ 6				
reaction time		interval		1.11	1.09	1.08	1.08	1.10	1.10	1.11	1.11	1.14	1.53		3.28	3.28	3.36	
wind	1.1 m/s	velocity	4.99	8.23	8.39	8.46	8.46	8.31	8.31	8.23	8.23	8.02	9.16	7.75	8.36	8.36	8.16	
<b>Al-Moualed, Ahmad (KSA) (1988)</b>																		
<b>FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)</b>														Henson (2021) - Athlete First: 2018 year end hurdle report				
date	09-Sep-18	time	2.56	3.62	4.68	5.72	6.76	7.86	8.92	10.04	11.16	12.28	13.83	1 / 7				
reaction time	0.143	interval		1.06	1.06	1.04	1.04	1.10	1.06	1.12	1.12	1.12	1.55		3.16	3.20	3.36	
wind	0.9 m/s	velocity	5.36	8.62	8.62	8.79	8.79	8.31	8.62	8.16	8.16	8.16	9.05	7.95	8.68	8.57	8.16	
<b>FINAL - 2018 Asian Games (Jakarta, INA)</b>														Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season				
date	28-Aug-18	time	2.53	3.58	4.62	5.63	6.66	7.70	8.73	9.82	10.92	12.03	13.50	3 / 4				
reaction time	0.115	interval		1.05	1.04	1.01	1.03	1.04	1.03	1.09	1.10	1.11	1.47		3.10	3.10	3.30	
wind	0.0 m/s	velocity	5.42	8.70	8.79	9.05	8.87	8.79	8.87	8.39	8.31	8.23	9.54	8.15	8.85	8.85	8.31	

Al-Yoha, Yaqoub (KUW) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
<b>Semi-Final 3</b> - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	21-Aug-23	time	2.58	3.63	4.66	5.68	6.70	7.70	8.73	9.80	10.86	11.95		13.44	2 / 6			
reaction time	0.157	interval	7 steps	1.05	1.03	1.02	1.02	1.00	1.03	1.07	1.06	1.09	1.49			3.10	3.05	3.22
wind	-0.1 m/s	velocity	5.32	8.70	8.87	8.96	8.96	9.14	8.87	8.54	8.62	8.39	9.41	8.18		8.85	8.99	8.52
<b>Heat 1</b> - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	20-Aug-23	time	2.60	3.68	4.72	5.75	6.77	7.80	8.86	9.92	10.96	12.06		13.56	1 / 5			
reaction time	0.140	interval	7 steps	1.08	1.04	1.03	1.02	1.03	1.06	1.06	1.04	1.10	1.50			3.15	3.11	3.20
wind	-0.3 m/s	velocity	5.28	8.46	8.79	8.87	8.96	8.87	8.62	8.62	8.79	8.31	9.35	8.11		8.70	8.82	8.57
<b>Semi-Final 1</b> - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)													<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.50	3.53	4.56	5.56	6.60							7.59	6 / 5			
reaction time	0.156	interval		1.03	1.03	1.00	1.04						0.99			3.06		
		velocity	5.49	8.87	8.87	9.14	8.79						9.82	7.91		8.96		
<b>FINAL</b> - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)													<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	19-Feb-22	time	2.49	3.53	4.58	5.61	6.65							7.65	5 / 6			
reaction time	0.146	interval		1.04	1.05	1.03	1.04						1.00			3.12		
		velocity	5.51	8.79	8.70	8.87	8.79						9.72	7.84		8.79		
<b>Heat 2</b> - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)													<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	17-Feb-22	time	2.53	3.58	4.62	5.66	6.70							7.73	7 / 6			
reaction time	0.166	interval		1.05	1.04	1.04	1.04						1.03			3.13		
		velocity	5.42	8.70	8.79	8.79	8.79						9.44	7.76		8.76		
<b>FINAL</b> - 2021 Copernicus Cup (Toruń, POL) (TV Analysis)													<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	17-Feb-21	time	2.59	3.65	4.70	5.72	6.75							7.75	5 / 5			
reaction time	0.166	interval		1.06	1.05	1.02	1.03						1.00			3.13		
		velocity	5.30	8.62	8.70	8.96	8.87						9.72	7.74		8.76		
<b>FINAL</b> - 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	5.70	6.74	7.78	8.82	9.86	10.94	12.08		13.60	9 / 5			
reaction time	0.139	interval		1.08	1.04	1.02	1.04	1.04	1.04	1.08	1.14	1.52				3.14	3.12	3.26
wind	0.1 m/s	velocity	5.36	8.46	8.79	8.96	8.79	8.79	8.79	8.46	8.02	9.22	8.09			8.73	8.79	8.41
<b>Semi-Final 1</b> - 2019 IAAF World Championships (Doha, QAT)													<i>CAA Hurdle Development (2019)</i>					
date	02-Oct-19	time	2.62	3.66	4.70	5.72	6.74	7.76	8.82	9.90	10.98	12.10		13.57	9 / 4			
reaction time	0.154	interval		1.04	1.04	1.02	1.02	1.06	1.08	1.08	1.12	1.47				3.10	3.10	3.28
wind	1.1 m/s	velocity	5.24	8.79	8.79	8.96	8.96	8.96	8.62	8.46	8.46	8.16	9.54	8.11		8.85	8.85	8.36
<b>FINAL</b> - 2019 Asian Athletics Championships (Doha, QAT)													<i>CAA Hurdle Development (2019)</i>					
date	24-Apr-19	time	2.51	3.56	4.58	5.60	6.62	7.64	8.69	9.74	10.82	11.91		13.35	6 / 2			
reaction time	0.120	interval		1.05	1.02	1.02	1.02	1.05	1.05	1.08	1.09	1.44	<b>NR PB</b>			3.09	3.09	3.22
wind	1.7 m/s	velocity	5.47	8.70	8.96	8.96	8.96	8.96	8.70	8.70	8.46	8.39	9.74	8.24		8.87	8.87	8.52
<b>Semi-Final 1</b> - 2017 IAAF World Championships (London, GBR)													<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles</i>					
date	06-Aug-17	time	2.43	3.47	4.52									dnf	3 / --			
reaction time	0.152	interval		1.04	1.05													
wind	0.2 m/s	velocity	5.65	8.79	8.70													
<b>Alkana, Antonio (RSA) (1990)</b>		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
<b>Heat 1</b> - 2023 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	16-Jul-23	time	2.44	3.51	4.55	5.58	6.60	7.63	8.67	9.71	10.77	11.84		13.44	1 / 7			
reaction time	0.132	interval		1.07	1.04	1.03	1.02	1.03	1.04	1.04	1.06	1.07	1.60			3.14	3.09	3.17
wind	0.3 m/s	velocity	5.62	8.54	8.79	8.87	8.96	8.87	8.79	8.79	8.62	8.54	8.76	8.18		8.73	8.87	8.65
<b>Heat 2</b> - 2023 Meeting de Paris (Paris, FRA)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	09-Jun-23	time	2.39	3.46	4.50	5.52	6.54	7.57	8.62	9.69	10.78	11.88		13.52	2 / 6			
reaction time	0.114	interval		1.07	1.04	1.02	1.02	1.03	1.05	1.07	1.09	1.10	1.64			3.13	3.10	3.26
wind	-0.6 m/s	velocity	5.74	8.54	8.79	8.96	8.96	8.87	8.70	8.54	8.39	8.31	8.55	8.14		8.76	8.85	8.41
<b>FINAL</b> - 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	4.68	5.76	6.80	7.84	8.88	9.96	11.04	12.14		13.66	8 / 7			
reaction time	0.130	interval		1.08	1.08	1.08	1.04	1.04	1.04	1.08	1.08	1.10	1.52			3.24	3.12	3.26
wind	0.1 m/s	velocity	5.44	8.46	8.46	8.46	8.79	8.79	8.79	8.46	8.46	8.31	9.22	8.05		8.46	8.79	8.41
<b>FINAL</b> - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	03-Sep-20	time	2.56	3.60	4.71	5.75	6.81	7.84	8.89	9.96	11.11	12.18		13.81	3 / 4			
reaction time	0.201	interval		1.04	1.11	1.04	1.06	1.03	1.05	1.07	1.15	1.07	1.63			3.19	3.14	3.29
wind	-0.3 m/s	velocity	5.36	8.79	8.23	8.79	8.62	8.87	8.70	8.54	7.95	8.54	8.60	7.97		8.60	8.73	8.33
<b>FINAL</b> - 2020 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	14-Aug-20	time	2.57	3.63	4.70	5.77	6.84	7.91	8.98	10.07	11.18	12.31		13.87	7 / 8			

reaction time	0.134	interval	1.06	1.07	1.07	1.07	1.07	1.07	1.09	1.11	1.13	1.56				3.20	3.21	3.33	
wind	0.8 m/s	velocity	5.34	8.62	8.54	8.54	8.54	8.54	8.39	8.23	8.09	8.99	7.93			8.57	8.54	8.23	
<b>FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	11-Aug-20	time	2.57	3.60	4.64	5.70	6.77	7.84	8.88	9.91	11.01	12.08			13.58	8 / 4			
reaction time	0.158	interval	1.03	1.04	1.06	1.07	1.07	1.04	1.03	1.10	1.07	1.50					3.13	3.18	3.20
wind	1.1 m/s	velocity	5.34	8.87	8.79	8.62	8.54	8.54	8.79	8.87	8.31	8.54	9.35	8.10			8.76	8.62	8.57
<b>Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)</b>														<i>CAA Hurdle Development (2019)</i>					
date	02-Oct-19	time	2.58	3.61	4.67	5.69	6.73	7.77	8.81	9.87	10.94	12.03			13.47	5 / 3			
reaction time	0.123	interval	1.03	1.06	1.02	1.04	1.04	1.04	1.06	1.07	1.09	1.44					3.11	3.12	3.22
wind	0.6 m/s	velocity	5.32	8.87	8.62	8.96	8.79	8.79	8.79	8.62	8.54	8.39	9.74	8.17			8.82	8.79	8.52
<b>FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	06-Sep-19	time	2.48	3.56	4.60	5.64	6.70	7.76	8.82	9.88	10.96	12.04			13.61	8 / 7			
reaction time	0.136	interval	1.08	1.04	1.04	1.06	1.06	1.06	1.06	1.08	1.08	1.57					3.16	3.18	3.22
wind	0.0 m/s	velocity	5.53	8.46	8.79	8.79	8.62	8.62	8.62	8.62	8.46	8.46	8.93	8.08			8.68	8.62	8.52
<b>FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	21-Jul-19	time	2.43	3.46	4.51	5.53	6.55	7.57	8.62	9.71	10.78	11.91			13.51	7 / 5			
reaction time	0.111	interval	1.03	1.05	1.02	1.02	1.02	1.05	1.09	1.07	1.13	1.60					3.10	3.09	3.29
wind	0.4 m/s	velocity	5.65	8.87	8.70	8.96	8.96	8.96	8.70	8.39	8.54	8.09	8.76	8.14			8.85	8.87	8.33
<b>FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	16-Jun-19	time	2.48	3.52	4.52	5.56	6.60	7.64	8.68	9.74	10.88	11.98			13.51	3 / 6			
reaction time	0.168	interval	1.04	1.00	1.04	1.04	1.04	1.04	1.06	1.14	1.10	1.53					3.08	3.12	3.30
wind	0.3 m/s	velocity	5.53	8.79	9.14	8.79	8.79	8.79	8.79	8.62	8.02	8.31	9.16	8.14			8.90	8.79	8.31
<b>FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	06-Jun-19	time	2.53	3.60	4.62	5.63	6.63	7.63	8.68	9.72	10.78	11.83			13.30	8 / 3			
reaction time	0.133	interval	1.07	1.02	1.01	1.00	1.00	1.05	1.04	1.06	1.05	1.47					3.10	3.05	3.15
wind	0.4 m/s	velocity	5.42	8.54	8.96	9.05	9.14	9.14	8.70	8.79	8.62	8.70	9.54	8.27			8.85	8.99	8.70
<b>FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)</b>														<i>CAA Hurdle Development (2019)</i>					
date	21-May-19	time	2.55	3.60	4.66	5.72	6.76	7.81	8.87	9.95	11.03	12.14			13.61	3 / 7			
reaction time	0.140	interval	1.05	1.06	1.06	1.04	1.05	1.06	1.08	1.08	1.11	1.47					3.17	3.15	3.27
wind	0.1 m/s	velocity	5.38	8.70	8.62	8.62	8.79	8.70	8.62	8.46	8.46	8.23	9.54	8.08			8.65	8.70	8.39
<b>FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)</b>														<i>CAA Hurdle Development (2019)</i>					
date	18-May-19	time	2.54	3.60	4.68	5.72	6.76	7.78	8.82	9.86	10.92	12.02			13.47	2 / 8			
reaction time	0.132	interval	1.06	1.08	1.04	1.04	1.02	1.04	1.04	1.06	1.10	1.45					3.18	3.10	3.20
wind	0.7 m/s	velocity	5.40	8.62	8.46	8.79	8.79	8.96	8.79	8.79	8.62	8.31	9.67	8.17			8.62	8.85	8.57
<b>FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2018 year end hurdle report</i>					
date	09-Sep-18	time	2.48	3.56	4.60	5.62	6.64	7.64	8.66	9.68	10.76	11.84			13.36	4 / 4			
reaction time	0.117	interval	1.08	1.04	1.02	1.02	1.00	1.02	1.02	1.08	1.08	1.52					3.14	3.04	3.18
wind	0.9 m/s	velocity	5.53	8.46	8.79	8.96	8.96	9.14	8.96	8.96	8.46	8.46	9.22	8.23			8.73	9.02	8.62
<b>FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	22-Jul-18	time	2.52	3.56	4.58	5.60	6.62	7.66	8.70	9.74	10.84	11.94			13.40	7 / 5			
reaction time	0.140	interval	1.04	1.02	1.02	1.02	1.04	1.04	1.04	1.10	1.10	1.46					3.08	3.10	3.24
wind	0.2 m/s	velocity	5.44	8.79	8.96	8.96	8.96	8.79	8.79	8.79	8.31	8.31	9.60	8.21			8.90	8.85	8.46
<b>FINAL - 2018 Meeting de Paris (Paris, FRA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	30-Jun-18	time	2.50	3.54	4.58	5.58	6.60	7.64	8.66	9.72	10.74	11.82			13.32	7 / 4			
reaction time	0.138	interval	1.04	1.04	1.00	1.02	1.04	1.04	1.02	1.06	1.02	1.08	1.50				3.08	3.08	3.16
wind	1.5 m/s	velocity	5.49	8.79	8.79	9.14	8.96	8.79	8.96	8.62	8.96	8.46	9.35	8.26			8.90	8.90	8.68
<b>Semi-Final 3 - 2017 IAAF World Championships (London, GBR)</b>														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles</i>					
date	06-Aug-17	time	2.66	3.74	4.78	5.81	6.82	7.85	8.88	9.95	11.02	12.13			13.59	9 / 4			
reaction time	0.230	interval	1.08	1.04	1.03	1.01	1.03	1.03	1.07	1.07	1.11	1.46					3.15	3.07	3.25
wind	0.3 m/s	velocity	5.16	8.46	8.79	8.87	9.05	8.87	8.87	8.54	8.54	8.23	9.60	8.09			8.70	8.93	8.44
<b>FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	04-Jul-17	time	2.54	3.58	4.62	5.64	6.64	7.68	8.72	9.76	10.80	11.86			13.31	5 / 5			
reaction time		interval	1.04	1.04	1.02	1.00	1.04	1.04	1.04	1.04	1.04	1.06	1.45				3.10	3.08	3.14
wind	0.3 m/s	velocity	5.40	8.79	8.79	8.96	9.14	8.79	8.79	8.79	8.79	8.62	9.67	8.26			8.85	8.90	8.73
<b>FINAL - 2017 Meeting de Paris (Paris, FRA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	01-Jul-17	time	2.52	3.56	4.56	5.58	6.58	7.60	8.62	9.66	10.70	11.78			13.24	1 / 5			
reaction time	0.139	interval	1.04	1.00	1.02	1.00	1.02	1.02	1.04	1.04	1.08	1.46					3.06	3.04	3.16
wind	-0.1 m/s	velocity	5.44	8.79	9.14	8.96	9.14	8.96	8.96	8.79	8.79	8.46	9.60	8.31			8.96	9.02	8.68
<b>FINAL - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	28-Jun-17	time	2.52	3.56	4.58	5.60	6.64	7.68	8.74	9.80	10.86	11.92			13.37	4 / 4			

reaction time	0.155	interval	1.04	1.02	1.02	1.04	1.04	1.06	1.06	1.06	1.06	1.45			3.08	3.14	3.18	
wind	0.6 m/s	velocity	5.44	8.79	8.96	8.96	8.79	8.79	8.62	8.62	8.62	8.62	9.67	8.23	8.90	8.73	8.62	
<b>FINAL - 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)</b>													<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>					
date	15-Jul-16	time	2.48	3.54	4.60	5.64	6.68	7.76	8.80	9.88	11.04	12.12		13.66	7 / 7			
reaction time	0.130	interval	1.06	1.06	1.04	1.04	1.08	1.04	1.08	1.16	1.08	1.54			3.16	3.16	3.32	
wind	0.0 m/s	velocity	5.53	8.62	8.62	8.79	8.79	8.46	8.79	8.46	7.88	8.46	9.10	8.05	8.68	8.68	8.26	
<b>FINAL - 2016 Meeting International Mohammed VI D'Athlétisme (Rabat, MAR) (TV Analysis)</b>													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	22-May-16	time	2.48	3.52	4.52	5.52	6.52	7.56	8.58	9.62	10.68	11.78		13.28	9 / 3			
reaction time	0.129	interval	1.04	1.00	1.00	1.00	1.04	1.02	1.04	1.06	1.10	1.50		<b>PB</b>	3.04	3.06	3.20	
wind	1.4 m/s	velocity	5.53	8.79	9.14	9.14	9.14	8.79	8.96	8.79	8.62	8.31	9.35	8.28	9.02	8.96	8.57	
<b>FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)</b>													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	06-May-16	time	2.56	3.60	4.66	5.72	6.74	7.78	8.82	9.88	10.94	12.04		13.50	1 / 8			
reaction time	0.139	interval	1.04	1.06	1.06	1.02	1.04	1.04	1.06	1.06	1.10	1.46			3.16	3.10	3.22	
wind	1.4 m/s	velocity	5.36	8.79	8.62	8.62	8.96	8.79	8.79	8.62	8.62	8.31	9.60	8.15	8.68	8.85	8.52	
<b>Allen, Charles (CAN) (1977)</b>																		
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>FINAL - 2004 Olympic Games (Athens, GRE)</b>													<i>Ruiz (2004) - las carreras con vallas de juegos olimpicos de atenas '04</i>					
date	27-Aug-04	time	2.46	3.50	4.53	5.57	6.63	7.66	8.71	9.75	10.82	11.88		13.48	1 / 6			
reaction time	0.139	interval	1.04	1.03	1.04	1.06	1.03	1.05	1.04	1.07	1.06	1.60			3.11	3.14	3.17	
wind	0.3 m/s	velocity	5.58	8.79	8.87	8.79	8.62	8.87	8.70	8.79	8.54	8.62	8.76	8.16	8.82	8.73	8.65	
<b>Allen, Devon (USA) (1994)</b>																		
			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)</b>													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	24-Jun-23	time	2.57	3.62	4.64	5.62	6.61	7.61	8.61	9.62	10.64	11.66		13.04	5 / 2			
reaction time	0.173	interval	7 steps	1.05	1.02	0.98	0.99	1.00	1.00	1.01	1.02	1.02	1.38		3.05	2.99	3.05	
wind	1.6 m/s	velocity	5.34	8.70	8.96	9.33	9.23	9.14	9.14	9.05	8.96	8.96	10.16	8.44	8.99	9.17	8.99	
<b>Heat 1 - 2023 Meeting de Paris (Paris, FRA)</b>													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	09-Jun-23	time	2.44	4.48											dnf	5 / --		
reaction time	0.140	interval	7 steps	2.04														
wind	-2.0 m/s	velocity	5.62	4.48														
<b>FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)</b>													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	04-Jun-23	time	2.56	3.61	4.62	5.63	6.62	7.62	8.64	9.68	10.72	11.78		13.12	5 / 2			
reaction time	0.137	interval	7 steps	1.05	1.01	1.01	0.99	1.00	1.02	1.04	1.04	1.06	1.34		3.07	3.01	3.14	
wind	0.4 m/s	velocity	5.36	8.70	9.05	9.05	9.23	9.14	8.96	8.79	8.79	8.62	10.46	8.38	8.93	9.11	8.73	
<b>FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)</b>													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	02-Jun-23	time	2.56	3.61	4.65	5.65	6.65	7.65	8.66	9.68	10.72	11.76		13.19	5 / 3			
reaction time	0.136	interval	7 steps	1.05	1.04	1.00	1.00	1.01	1.02	1.04	1.04	1.43			3.09	3.01	3.10	
wind	-0.2 m/s	velocity	5.36	8.70	8.79	9.14	9.14	9.14	9.05	8.96	8.79	8.79	9.80	8.34	8.87	9.11	8.85	
<b>FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	28-May-23	time	2.38	3.45	4.47	5.48	6.49	7.51	8.54	9.57	10.62	11.68		13.25	3 / 4			
reaction time	0.152	interval	7 steps	1.07	1.02	1.01	1.01	1.02	1.03	1.03	1.05	1.06	1.57		3.10	3.06	3.14	
wind	-1.3 m/s	velocity	5.76	8.54	8.96	9.05	9.05	8.96	8.87	8.87	8.70	8.62	8.93	8.30	8.85	8.96	8.73	
<b>Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)</b>													<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	17-Jul-22	time	2.60	3.64	4.65	5.65	6.63	7.62	8.63	9.63	10.67	11.72		13.09	5 / 2			
reaction time	0.101	interval	7 steps	1.04	1.01	1.00	0.98	0.99	1.01	1.00	1.04	1.05	1.37		3.05	2.98	3.09	
wind	2.5 m/s	velocity	5.28	8.79	9.05	9.14	9.33	9.23	9.05	9.14	8.79	8.70	10.23	8.40	8.99	9.20	8.87	
<b>Heat 5 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)</b>													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	16-Jul-22	time	2.56	3.58	4.63	5.63	6.66	7.70	8.76	9.83	10.93	12.00		13.47	3 / 1			
reaction time	0.123	interval	7 steps	1.02	1.05	1.00	1.03	1.04	1.06	1.07	1.10	1.07	1.47		3.07	3.13	3.24	
wind	0.4 m/s	velocity	5.36	8.96	8.70	9.14	8.87	8.79	8.62	8.54	8.31	8.54	9.54	8.17	8.93	8.76	8.46	
<b>FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)</b>													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	26-Jun-22	time	2.53	3.56	4.55	5.58	6.57	7.57	8.59	9.61	10.64	11.70		13.09	4 / 3			
reaction time		interval	7 steps	1.03	0.99	1.03	0.99	1.00	1.02	1.02	1.03	1.06	1.39		3.05	3.01	3.11	
wind	1.2 m/s	velocity	5.42	8.87	9.23	8.87	9.23	9.14	8.96	8.96	8.87	8.62	10.09	8.40	8.99	9.11	8.82	
<b>Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)</b>													<i>USATF (2022) - Results powered by Karmarush.com</i>					
date	26-Jun-22	time	2.45	3.52	4.55	5.54	6.55	7.61	8.55	9.61	10.63	11.64		13.14	5 / 2			
reaction time		interval	7 steps	1.07	1.03	0.99	1.01	1.06	0.94	1.06	1.02	1.01	1.50		3.09	3.01	3.09	
wind	0.1 m/s	velocity	5.60	8.54	8.87	9.23	9.05	8.62	9.72	8.62	8.96	9.05	9.35	8.37	8.87	9.11	8.87	
<b>FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)</b>													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	18-Jun-22	time	2.50	3.54	4.56	5.56	6.56	7.60	8.60	9.64	10.70	11.76		13.16	5 / 1			
reaction time	0.138	interval	7 steps	1.04	1.02	1.00	1.00	1.04	1.00	1.04	1.06	1.06	1.40		3.06	3.04	3.16	
wind	-0.2 m/s	velocity	5.49	8.79	8.96	9.14	9.14	8.79	9.14	8.79	8.62	8.62	10.01	8.36	8.96	9.02	8.68	

<b>FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	16-Jun-22	time	2.52	3.56	4.57	5.58	6.56	7.58	8.60	9.62	10.70	11.80	13.22	5 / 1			
reaction time	0.140	interval	7 steps	1.04	1.01	1.01	0.98	1.02	1.02	1.02	1.08	1.10	1.42		3.06	3.02	3.20
wind	-1.2 m/s	velocity	5.44	8.79	9.05	9.05	9.33	8.96	8.96	8.96	8.46	8.31	9.87	8.32	8.96	9.08	8.57
<b>FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	12-Jun-22	time	2.42	3.44	4.43	5.42	6.38	7.38	8.36	9.38	10.38	11.42	12.84	5 / 1			
reaction time	0.128	interval	7 steps	1.02	0.99	0.99	0.96	1.00	0.98	1.02	1.00	1.04	1.42	<b>PB</b>	3.00	2.94	3.06
wind	1.6 m/s	velocity	5.67	8.96	9.23	9.23	9.52	9.14	9.33	8.96	9.14	8.79	9.87	8.57	9.14	9.33	8.96
<b>FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)</b>														<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>			
date	06-Feb-22	time	2.51	3.55	4.58	5.57	6.58						7.51	5 / 3			
reaction time	0.143	interval		1.04	1.03	0.99	1.01					0.93			3.06		
wind		velocity	5.47	8.79	8.87	9.23	9.05					10.45	7.99		8.96		
<b>FINAL - 2021 Boris Hanzeković Memorial (Zagreb, CRO) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	14-Sep-21	time	2.46	3.50	4.50	5.47	6.47	7.47	8.47	9.47	10.50	11.53	12.99	5 / 1			
reaction time	0.126	interval		1.04	1.00	0.97	1.00	1.00	1.00	1.00	1.03	1.03	1.46	<b>PB</b>	3.01	3.00	3.06
wind	0.7 m/s	velocity	5.58	8.79	9.14	9.42	9.14	9.14	9.14	9.14	8.87	8.87	9.60	8.47	9.11	9.14	8.96
<b>FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	09-Sep-21	time	2.48	3.52	4.52	5.52	6.54	7.56	8.58	9.60	10.60	11.64	13.06	4 / 1			
reaction time	0.115	interval		1.04	1.00	1.00	1.02	1.02	1.02	1.02	1.00	1.04	1.42		3.04	3.06	3.06
wind	0.6 m/s	velocity	5.53	8.79	9.14	9.14	8.96	8.96	8.96	8.96	9.14	8.79	9.87	8.42	9.02	8.96	8.96
<b>FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	28-Aug-21	time	2.52	3.54	4.56	5.56	6.56	7.56	8.58	9.58	10.60	11.62	13.08	5 / 2			
reaction time	0.141	interval		1.02	1.02	1.00	1.00	1.00	1.02	1.00	1.02	1.02	1.46		3.04	3.02	3.04
wind	0.7 m/s	velocity	5.44	8.96	8.96	9.14	9.14	9.14	8.96	9.14	8.96	8.96	9.60	8.41	9.02	9.08	9.02
<b>FINAL - 2021 Athletissima (Lausanne, SUI) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	26-Aug-21	time	2.48	3.48	4.52	5.56	6.56	7.56	8.56	9.56	10.56	11.62	13.07	5 / 1			
reaction time	0.140	interval		1.00	1.04	1.04	1.00	1.00	1.00	1.00	1.00	1.06	1.45		3.08	3.00	3.06
wind	2.5 m/s	velocity	5.53	9.14	8.79	8.79	9.14	9.14	9.14	9.14	9.14	8.62	9.67	8.42	8.90	9.14	8.96
<b>FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	06-Aug-21	time	2.52	3.56	4.58	5.60	6.58	7.62	8.62	9.66	10.70	11.72	13.14	6 / 4			
reaction time	0.133	interval		1.04	1.02	1.02	0.98	1.04	1.00	1.04	1.04	1.02	1.42		3.08	3.02	3.10
wind	-0.5 m/s	velocity	5.44	8.79	8.96	8.96	9.33	8.79	9.14	8.79	8.79	8.96	9.87	8.37	8.90	9.08	8.85
<b>Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	04-Aug-21	time	2.52	3.55	4.57	5.60	6.60	7.60	8.64	9.67	10.71	11.76	13.18	5 / 1			
reaction time	0.121	interval		1.03	1.02	1.03	1.00	1.00	1.04	1.03	1.04	1.05	1.42		3.08	3.04	3.12
wind	0.1 m/s	velocity	5.44	8.87	8.96	8.87	9.14	9.14	8.79	8.87	8.79	8.70	9.87	8.35	8.90	9.02	8.79
<b>FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	26-Jun-21	time	2.50	3.53	4.53	5.53	6.54	7.57	8.56	9.58	10.60	11.64	13.10	5 / 2			
reaction time	0.152	interval		1.03	1.00	1.00	1.01	1.03	0.99	1.02	1.02	1.04	1.46		3.03	3.03	3.08
wind	0.4 m/s	velocity	5.49	8.87	9.14	9.14	9.05	8.87	9.23	8.96	8.96	8.79	9.60	8.40	9.05	9.05	8.90
<b>Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	26-Jun-21	time	2.53	3.56	4.56	5.54	6.55	7.56	8.55	9.58	10.61	11.64	13.10	5 / 1			
reaction time	0.124	interval		1.03	1.00	0.98	1.01	1.01	0.99	1.03	1.03	1.03	1.46		3.01	3.01	3.09
wind	1.2 m/s	velocity	5.42	8.87	9.14	9.33	9.05	9.05	9.23	8.87	8.87	8.87	9.60	8.40	9.11	9.11	8.87
<b>Heat 3 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	25-Jun-21	time	2.50	3.53	4.56	5.63	6.63	7.63	8.66	9.73	10.73	11.76	13.26	3 / 1			
reaction time	0.139	interval		1.03	1.03	1.07	1.00	1.00	1.03	1.07	1.00	1.03	1.50		3.13	3.03	3.10
wind	0.5 m/s	velocity	5.49	8.87	8.87	8.54	9.14	9.14	8.87	8.54	9.14	8.87	9.35	8.30	8.76	9.05	8.85
<b>FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	10-Jun-21	time	2.52	3.56	4.58	5.60	6.62	7.64	8.68	9.72	10.76	11.82	13.32	5 / 4			
reaction time	0.136	interval		1.04	1.02	1.02	1.02	1.02	1.04	1.04	1.04	1.06	1.50		3.08	3.08	3.14
wind	-0.1 m/s	velocity	5.44	8.79	8.96	8.96	8.96	8.96	8.79	8.79	8.79	8.62	9.35	8.26	8.90	8.90	8.73
<b>FINAL - 2021 Fanny Blankers Koen Games (Hengelo, NED) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	06-Jun-21	time	2.47	3.54	4.54	5.60	6.64	7.67	8.73	9.74	10.77	11.86	13.32	4 / 2			
reaction time		interval		1.07	1.00	1.06	1.04	1.03	1.06	1.01	1.03	1.09	1.46		3.13	3.13	3.13
wind	1.7 m/s	velocity	5.55	8.54	9.14	8.62	8.79	8.87	8.62	9.05	8.87	8.39	9.60	8.26	8.76	8.76	8.76
<b>FINAL - 2019 IAAF World Championships (Doha, QAT)</b>														<i>CAA Hurdle Development (2019)</i>			
date	02-Oct-19	time	2.58	3.67	4.73	5.77	6.80	7.82	8.88	9.94	11.05	12.19	13.70	3 / 7			
reaction time	0.124	interval		1.09	1.06	1.04	1.03	1.02	1.06	1.06	1.11	1.14	1.51		3.19	3.11	3.31
wind	0.6 m/s	velocity	5.32	8.39	8.62	8.79	8.87	8.96	8.62	8.62	8.23	8.02	9.28	8.03	8.60	8.82	8.28



<b>Semi-Final 2 - 2017 IAAF World Championships (London, GBR)</b>														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles</i>					
date	06-Aug-17	time	2.29	3.35	4.37	5.40	6.42	7.47	8.50	9.54	10.58	11.65	13.27	4 / 3					
reaction time	0.126	interval		1.06	1.02	1.03	1.02	1.05	1.03	1.04	1.04	1.07	1.62			3.11	3.10	3.15	
wind	0.6 m/s	velocity	5.99	8.62	8.96	8.87	8.96	8.70	8.87	8.79	8.79	8.54	8.65	8.29		8.82	8.85	8.70	
<b>FINAL - 2017 Spitzen Leichtathletik (Luzern, SUI)</b>														<i>(2017.07.11) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</i>					
date	18-Jul-17	time	2.60	3.64	4.68	5.71	6.73	7.75	8.77	9.82	10.88	11.94	13.31	5 / 1					
reaction time		interval		1.04	1.04	1.03	1.02	1.02	1.02	1.05	1.06	1.06	1.37			3.11	3.06	3.17	
wind	-0.1 m/s	velocity	5.28	8.79	8.79	8.87	8.96	8.96	8.96	8.70	8.62	8.62	10.23	8.26		8.82	8.96	8.65	
<b>FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	09-Jul-17	time	2.52	3.56	4.56	5.64	6.70	7.70	8.74	9.80	10.82	11.88	13.30	6 / 4					
reaction time	0.104	interval		1.04	1.00	1.08	1.06	1.00	1.04	1.06	1.02	1.06	1.42			3.12	3.10	3.14	
wind	0.0 m/s	velocity	5.44	8.79	9.14	8.46	8.62	9.14	8.79	8.62	8.96	8.62	9.87	8.27		8.79	8.85	8.73	
<b>FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	27-May-17	time	2.48	3.52	4.54	5.54	6.56	7.56	8.58	9.60	10.60	11.64	13.11	5 / 3					
reaction time	0.131	interval		1.04	1.02	1.00	1.02	1.00	1.02	1.02	1.00	1.04	1.47			3.06	3.04	3.06	
wind	0.9 m/s	velocity	5.53	8.79	8.96	9.14	8.96	9.14	8.96	8.96	9.14	8.79	9.54	8.39		8.96	9.02	8.96	
<b>FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	16-Aug-16	time	2.50	3.58	4.60	5.60	6.62	7.66	8.70	9.74	10.76	11.82	13.31	3 / 5					
reaction time	0.135	interval		1.08	1.02	1.00	1.02	1.04	1.04	1.04	1.02	1.06	1.49			3.10	3.10	3.12	
wind	0.2 m/s	velocity	5.49	8.46	8.96	9.14	8.96	8.79	8.79	8.79	8.96	8.62	9.41	8.26		8.85	8.85	8.79	
<b>FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	09-Jul-16	time	2.53	3.55	4.57	5.55	6.54	7.54	8.52	9.54	10.56	11.57	13.03	3 / 1					
reaction time	0.157	interval		1.02	1.02	0.98	0.99	1.00	0.98	1.02	1.02	1.01	1.46	<b>PB</b>		3.02	2.97	3.05	
wind	1.0 m/s	velocity	5.42	8.96	8.96	9.33	9.23	9.14	9.33	8.96	8.96	9.05	9.60	8.44		9.08	9.23	8.99	
<b>Almgren, Daniel (SWE) (1979)</b>																			
<b>B FINAL - 2010 Folksam GP (Sollentuna, SWE)</b>														<i>Blomkvist (2010) - www.sub13.se</i>					
date	01-Jul-10	time	2.66	3.87	5.04	6.25	7.43	8.66		11.09			15.44	1 / 5					
reaction time		interval		1.21	1.17	1.21	1.18	1.23		2.43						3.59			
wind	0.8 m/s	velocity	5.16	7.55	7.81	7.55	7.75	7.43		7.52			7.12			7.64			
<b>Decathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)</b>														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	20-Aug-09	time	2.89	4.08	5.25	6.39	7.53	8.75	9.93	11.11	12.31	13.52	15.14	3 / 6					
reaction time	0.193	interval		1.19	1.17	1.14	1.14	1.22	1.18	1.18	1.20	1.21	1.62			3.50	3.54	3.59	
wind	0.0 m/s	velocity	4.75	7.68	7.81	8.02	8.02	7.49	7.75	7.75	7.62	7.55	8.65	7.27		7.83	7.75	7.64	
<b>Amaoka, Naoki (JPN) (2000)</b>																			
<b>U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm)</b>														<i>Joshi (2018) - research on athlete performance and technique- 2018 data book</i>					
date	07-Oct-18	time	2.64	3.71	4.77	5.83	6.86	7.91	8.96	10.02	11.08	12.17	13.57	5 / 2					
reaction time	0.140	interval		1.07	1.06	1.06	1.03	1.05	1.05	1.06	1.06	1.09	1.40			3.19	3.13	3.21	
wind	1.5 m/s	velocity	5.20	8.54	8.62	8.62	8.87	8.70	8.70	8.62	8.62	8.39	10.01	8.11		8.60	8.76	8.54	
<b>Ames, Brendan (USA) (1988)</b>																			
<b>Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	26-Jun-21	time	2.56	3.63	4.65	5.67	6.70	7.73	8.88	10.00	11.13	12.30	13.96	8 / <del>8</del> 7					
reaction time	0.208	interval	<b>7 Steps</b>	1.07	1.02	1.02	1.03	1.03	1.15	1.12	1.13	1.17	1.66			3.11	3.21	3.42	
wind	1.2 m/s	velocity	5.36	8.54	8.96	8.96	8.87	8.87	7.95	8.16	8.09	7.81	8.45	7.88		8.82	8.54	8.02	
<b>FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.58	3.63	4.67	5.72	6.74						7.65	5 / 3					
reaction time	0.145	interval	<b>7 Steps</b>	1.05	1.04	1.05	1.02						0.91			3.14			
		velocity	5.32	8.70	8.79	8.70	8.96						10.68	7.84		8.73			
<b>Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.58	3.65	4.69	5.70	6.75						7.65	3 / 1					
reaction time	0.174	interval	<b>7 Steps</b>	1.07	1.04	1.01	1.05						0.90			3.12			
		velocity	5.32	8.54	8.79	9.05	8.70						10.80	7.84		8.79			
<b>Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														<i>CAA Hurdle Development (2020)</i>					
date	14-Feb-20	time	2.60	3.69	4.74	5.75	6.81						7.71	3 / 2					
reaction time	0.183	interval	<b>7 Steps</b>	1.09	1.05	1.01	1.06						0.90			3.15			
		velocity	5.28	8.39	8.70	9.05	8.62						10.80	7.78		8.70			
<b>FINAL - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm)</b>														<i>USATF Men's Hurdle Development (2007)</i>					
date	21-Jun-07	time	2.59	3.67	4.70	5.69	6.67	7.66	8.64	9.63	10.64	11.68	13.15	1 / 1					
reaction time		interval		1.08	1.03	0.99	0.98	0.99	0.98	0.99	1.01	1.04	1.47			3.10	2.95	3.04	
wind	<b>2.7 m/s</b>	velocity	5.30	8.46	8.87	9.23	9.33	9.23	9.33	9.23	9.05	8.79	9.54	8.37		8.85	9.29	9.02	
<b>Anderson, Joseph (USA) (1999)</b>																			
<b>Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														<i>CAA Hurdle Development (2020)</i>					

date	15-Feb-20	time	2.68	3.78	4.88	5.97	7.07							8.03	1 / 7					
reaction time	0.171	interval		1.10	1.10	1.09	1.10							0.96				3.29		
		velocity	5.12	8.31	8.31	8.39	8.31							10.13	7.47			8.33		
<b>Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>																				
CAA Hurdle Development (2020)																				
date	14-Feb-20	time	2.67	3.79	4.89	5.96	7.06							7.97	2 / 5					
reaction time	0.160	interval		1.12	1.10	1.07	1.10							0.91				3.29		
		velocity	5.14	8.16	8.31	8.54	8.31							10.68	7.53			8.33		
<b>Anderson, Nick (USA) (1995)</b>																				
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																				
<b>Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)</b>																				
USATF (2022) - Results powered by Karmarush.com																				
date	26-Jun-22	time	2.50	3.56	4.61	5.66	6.66	7.78	8.82	9.90	10.94	12.04		13.69	3 / 7					
reaction time		interval		1.06	1.05	1.05	1.00	1.12	1.04	1.08	1.04	1.10	1.65					3.16	3.16	3.22
wind	0.1 m/s	velocity	5.49	8.62	8.70	8.70	9.14	8.16	8.79	8.46	8.79	8.31	8.50	8.04				8.68	8.68	8.52
<b>Andersson, Andreas (SWE) (1987)</b>																				
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																				
<b>FINAL - 2013 Windsprint (Sundsvall, SWE)</b>																				
(2013) - www.ssg.se/windsprint/Splittider/																				
date	28-Jul-13	time	2.78	3.96	5.08	6.20	7.35	8.56	9.75	10.94	12.14	13.35		14.97	8 / 8					
reaction time		interval		1.18	1.12	1.12	1.15	1.21	1.19	1.19	1.20	1.21	1.62	PB				3.42	3.55	3.60
wind	1.7 m/s	velocity	4.94	7.75	8.16	8.16	7.95	7.55	7.68	7.68	7.62	7.55	8.65	7.35				8.02	7.72	7.62
<b>Andrews, Nicholas (AUS) (1997)</b>																				
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																				
<b>FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)</b>																				
Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season																				
date	01-May-22	time	2.60	3.66	4.72	5.76	6.81	7.86	8.93	10.04	11.17	12.27		13.72	8 / 5					
reaction time	0.119	interval		1.06	1.06	1.04	1.05	1.05	1.07	1.11	1.13	1.10	1.45					3.16	3.17	3.34
wind	0.8 m/s	velocity	5.28	8.62	8.62	8.79	8.70	8.70	8.54	8.23	8.09	8.31	9.67	8.02				8.68	8.65	8.21
<b>B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)</b>																				
Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season																				
date	29-Apr-22	time	2.64	3.76	4.86	5.95	7.01	8.11	9.20	10.29	11.40	12.53		13.98	4 / 3					
reaction time	0.150	interval		1.12	1.10	1.09	1.06	1.10	1.09	1.09	1.11	1.13	1.45					3.31	3.25	3.33
wind	-0.7 m/s	velocity	5.20	8.16	8.31	8.39	8.62	8.31	8.39	8.39	8.23	8.09	9.67	7.87				8.28	8.44	8.23
<b>Andrews, Ron (USA) (1979)</b>																				
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																				
<b>FINAL - 2007 Windsprint (Sundsvall, SWE)</b>																				
(2007) - www.ssg.se/en/Windsprint/Split-times/																				
date	24-Jul-07	time		3.74			6.98			10.22				13.97	1 / 3					
reaction time		interval					3.24			3.24			3.75							
wind	1.3 m/s	velocity		6.11			8.46			8.46			8.61	7.87						
<b>Aoki, Yuto (JPN) (1984)</b>																				
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																				
<b>FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)</b>																				
Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles																				
date	29-Apr-09	time	2.65	3.74	4.81	5.84	6.92	7.98	9.07	10.16	11.28	12.37		13.80	1 / 7					
reaction time		interval		1.09	1.07	1.03	1.08	1.06	1.09	1.09	1.12	1.09	1.43					3.19	3.23	3.30
wind	1.9 m/s	velocity	5.18	8.39	8.54	8.87	8.46	8.62	8.39	8.39	8.16	8.39	9.80	7.97				8.60	8.49	8.31
<b>FINAL - 2008 Seiko Super Grand Prix (Kawasaki, JPN)</b>																				
Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles																				
date	23-Sep-08	time	2.59	3.69	4.75	5.83	6.89	8.00	9.07	10.22	11.31	12.43		14.16	1 / 6					
reaction time		interval		1.10	1.06	1.08	1.06	1.11	1.07	1.15	1.09	1.12	1.73					3.24	3.24	3.36
wind	-0.7 m/s	velocity	5.30	8.31	8.62	8.46	8.62	8.23	8.54	7.95	8.39	8.16	8.10	7.77				8.46	8.46	8.16
<b>Ariga, Takashi (JPN)</b>																				
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																				
<b>FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)</b>																				
(2017) - tfdata-store.com/2017/04/07/post-249/																				
date	06-Apr-17	time	2.71	3.87	5.07	6.32	7.68							19.33	7 / 8					
reaction time		interval		1.16	1.20	1.25	1.36											3.61		
wind	-1.8 m/s	velocity	5.06	7.88	7.62	7.31	6.72							5.69				7.60		
<b>Arnold, Dominique (USA) (1973)</b>																				
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																				
<b>FINAL - 2007 USATF National Championships (Indianapolis, IN)</b>																				
USATF Men's Hurdle Development (2007)																				
date	24-Jun-07	time	2.62	3.67	4.70	5.69	6.69	7.69	8.69	9.69	10.71	11.73		13.17	5 / 2					
reaction time		interval		1.05	1.03	0.99	1.00	1.00	1.00	1.00	1.02	1.02	1.44					3.07	3.00	3.04
wind	0.5 m/s	velocity	5.24	8.70	8.87	9.23	9.14	9.14	9.14	9.14	8.96	8.96	9.74	8.35				8.93	9.14	9.02
<b>Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)</b>																				
USATF Men's Hurdle Development (2007)																				
date	24-Jun-07	time	2.62	3.67	4.69	5.71	6.72	7.72	8.74	9.79	10.81	11.88		13.35	3 / 2					
reaction time		interval		1.05	1.02	1.02	1.01	1.00	1.02	1.05	1.02	1.07	1.47					3.09	3.03	3.14
wind	-0.6 m/s	velocity	5.24	8.70	8.96	8.96	9.05	9.14	8.96	8.70	8.96	8.54	9.54	8.24				8.87	9.05	8.73
<b>Heat 2 - 2007 USATF National Championships (Indianapolis, IN)</b>																				
USATF Men's Hurdle Development (2007)																				
date	23-Jun-07	time	2.74	3.80	4.87	5.91	6.89	7.92	8.96	10.01	11.09	12.24		13.66	6 / 1					
reaction time		interval		1.06	1.07	1.04	0.98	1.03	1.04	1.05	1.08	1.15	1.42					3.17	3.05	3.28
wind	-1.9 m/s	velocity	5.01	8.62	8.54	8.79	9.33	8.87	8.79	8.70	8.46	7.95	9.87	8.05				8.65	8.99	8.36
<b>Race 2 - 2006 Athletissima Meeting (Lausanne, SUI)</b>																				
Li (2013) - technical characteristics of Merritt, the 110m hurdle champion at London Olympics																				
date	11-Jul-06	time	2.59	3.61	4.59	5.55	6.51	7.47	8.45	9.45	10.47	11.48		12.90	4 / 2					
reaction time		interval		1.02	0.98	0.96	0.96	0.96	0.98	1.00	1.02	1.01	1.42	AR				2.96	2.90	3.03
wind	1.1 m/s	velocity	5.30	8.96	9.33	9.52	9.52	9.52	9.33	9.14	8.96	9.05	9.87	8.53				9.26	9.46	9.05

<b>FINAL - 2006 USATF National Championships (Indianapolis, IN)</b>														<i>USATF Men's Hurdle Development (2006)</i>				
date	25-Jun-06	time	2.55	3.59	4.57	5.56	6.56	7.57	8.56	9.59	10.61	11.68	13.10	/ 1	3.01	3.00	3.12	
reaction time		interval		1.04	0.98	0.99	1.00	1.01	0.99	1.03	1.02	1.07	1.42					
wind	-0.4 m/s	velocity	5.38	8.79	9.33	9.23	9.14	9.05	9.23	8.87	8.96	8.54	9.87	8.40	9.11	9.14	8.79	
<b>FINAL - 2005 USATF National Championships (Carson, CA)</b>														<i>USATF Women's Sprint Development (2005)</i>				
date	24-Jun-05	time	2.61	3.66	4.66	5.66	6.61	7.60	8.56	9.61	10.61	11.62	13.01	5 / 2	3.05	2.90	3.06	
reaction time		interval		1.05	1.00	1.00	0.95	0.99	0.96	1.05	1.00	1.01	1.39	PB				
wind	0.2 m/s	velocity	5.26	8.70	9.14	9.14	9.62	9.23	9.52	8.70	9.14	9.05	10.09	8.46	8.99	9.46	8.96	
<b>FINAL - 2001 ISTAF (Berlin, GER)</b>														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	31-Aug-09	time	2.58	3.60	4.63	5.67	6.68	7.67	8.69	9.70	10.74	11.80	13.21	3 / 3	3.09	3.02	3.11	
reaction time	0.167	interval		1.02	1.03	1.04	1.01	0.99	1.02	1.01	1.04	1.06	1.41					
wind	1.0 m/s	velocity	5.32	8.96	8.87	8.79	9.05	9.23	8.96	9.05	8.79	8.62	9.94	8.33	8.87	9.08	8.82	
<b>FINAL - 2000 ISTAF (Berlin, GER)</b>														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	01-Sep-00	time	2.55	3.63	4.66	5.68	6.70	7.73	8.76	9.78	10.82	11.88	13.31	/ 2	3.13	3.08	3.12	
reaction time	0.157	interval		1.08	1.03	1.02	1.02	1.03	1.03	1.02	1.04	1.06	1.43					
wind	-0.4 m/s	velocity	5.38	8.46	8.87	8.96	8.96	8.87	8.87	8.96	8.79	8.62	9.80	8.26	8.76	8.90	8.79	
<b>Asai, Seira (JPN) (2006)</b>																		
														<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>				
<b>FINAL - 2022 Japanese National High School Championships (Naruto, JPN)</b>														<i>Kishima (2022) - national high school championships biomechanics data collection</i>				
date	07-Aug-22	time	2.74	3.88	5.03	6.19	7.35	8.50	9.70	10.92	12.17	13.40	14.97	3 / 7	3.45	3.51	3.70	
reaction time	0.145	interval		1.14	1.15	1.16	1.16	1.15	1.20	1.22	1.25	1.23	1.57					
wind	-3.8 m/s	velocity	5.01	8.02	7.95	7.88	7.88	7.95	7.62	7.49	7.31	7.43	8.93	7.35	7.95	7.81	7.41	
<b>FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)</b>														<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>				
date	24-Oct-21	time	2.83	3.96	5.10	6.27	7.44	8.60	9.75	10.87	12.02	13.18	14.77	/ 3	3.44	3.48	3.43	
reaction time		interval		1.13	1.14	1.17	1.17	1.16	1.15	1.12	1.15	1.16	1.59					
wind	1.0 m/s	velocity	4.85	8.09	8.02	7.81	7.81	7.88	7.95	8.16	7.95	7.88	8.82	7.45	7.97	7.88	7.99	
<b>Ash, Ronnie (USA) ( 1988)</b>																		
														<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>				
<b>FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	16-Aug-16	time	2.52	3.58	4.60	5.60	6.60	7.60	8.62	9.64	10.70	11.72		9 / --	3.08	3.02	3.10	
reaction time	0.160	interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.02	1.02	1.06	1.02		DQ				
wind	0.2 m/s	velocity	5.44	8.62	8.96	9.14	9.14	9.14	8.96	8.96	8.62	8.96			8.90	9.08	8.85	
<b>FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	09-Jul-16	time	2.53	3.57	4.57	5.60	6.57	7.60	8.60	9.62	10.65	11.71	13.21	4 / 2	3.07	3.00	3.11	
reaction time	0.203	interval	7 steps	1.04	1.00	1.03	0.97	1.03	1.00	1.02	1.03	1.06	1.50					
wind	1.0 m/s	velocity	5.42	8.79	9.14	8.87	9.42	8.87	9.14	8.96	8.87	8.62	9.35	8.33	8.93	9.14	8.82	
<b>Askros, Rafael (SWE) (1981)</b>																		
														<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>				
<b>FINAL - 2011 Landskamp FIN-SWE-NOR (Tampere, FIN)</b>														<i>Blomkvist (2011) - www.sub13.se</i>				
date	05-Feb-11	time	2.68	3.86	4.94	6.04	7.12						8.15	2 / 6	3.36			
reaction time		interval		1.18	1.08	1.10	1.08						1.03					
wind		velocity	5.12	7.75	8.46	8.31	8.46						9.44	7.36	8.16			
<b>FINAL - 2010 Swedish National Championships (Falun, SWE)</b>														<i>Blomkvist (2010) - www.sub13.se</i>				
date	22-Aug-10	time	2.79	3.91	5.02	6.14	7.25	8.36	9.50	10.64	11.80	12.97	14.45	/ 2	3.35	3.36	3.47	
reaction time		interval		1.12	1.11	1.12	1.11	1.11	1.14	1.14	1.16	1.17	1.48					
wind	-0.7 m/s	velocity	4.92	8.16	8.23	8.16	8.23	8.23	8.02	8.02	7.88	7.81	9.47	7.61	8.19	8.16	7.90	
<b>FINAL - 2010 Windsprint (Sundsvall, SWE)</b>														<i>Blomkvist (2010) - www.sub13.se</i>				
date	08-Aug-10	time	2.79	3.91	5.01	6.11	7.20	8.33	9.44	10.58	11.74	12.90	14.43	/ 7	3.32	3.33	3.46	
reaction time		interval		1.12	1.10	1.10	1.09	1.13	1.11	1.14	1.16	1.16	1.53					
wind	1.1 m/s	velocity	4.92	8.16	8.31	8.31	8.39	8.09	8.23	8.02	7.88	7.88	9.16	7.62	8.26	8.23	7.92	
<b>FINAL - 2010 Folksam GP (Sollentuna, SWE)</b>														<i>Blomkvist (2010) - www.sub13.se</i>				
date	01-Jul-10	time	2.60	3.73	4.83	5.93	7.03	8.15	9.27	10.40	11.56	12.76	14.48	1 / 7	3.33	3.34	3.49	
reaction time		interval		1.13	1.10	1.10	1.10	1.12	1.12	1.13	1.16	1.20	1.72					
wind	0.4 m/s	velocity	5.28	8.09	8.31	8.31	8.31	8.16	8.16	8.09	7.88	7.62	8.15	7.60	8.23	8.21	7.86	
<b>B FINAL - 2010 Folksam GP (Sollentuna, SWE)</b>														<i>Blomkvist (2010) - www.sub13.se</i>				
date	01-Jul-10	time	2.56	3.67	4.77	5.88	6.99	8.10	9.23	10.38	11.56	12.74	14.55	/ 1	3.32	3.35	3.51	
reaction time		interval		1.11	1.10	1.11	1.11	1.11	1.13	1.15	1.18	1.18	1.81					
wind	0.4 m/s	velocity	5.36	8.23	8.31	8.23	8.23	8.23	8.09	7.95	7.75	7.75	7.75	7.56	8.26	8.19	7.81	
<b>FINAL - 2007 Windsprint (Sundsvall, SWE)</b>														<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>				
date	24-Jul-07	time		3.76			7.19			10.59			14.46	/ 4				
reaction time		interval					3.43			3.40			3.87					
wind	1.3 m/s	velocity		6.08			7.99			8.06			8.35	7.61				
<b>Aubert, Philippe (FRA) (1957)</b>																		
														<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>				



date	04-Jul-17	time	2.50	3.56	4.56	5.56	6.56	7.56	8.58	9.58	10.62	11.66		13.15	2 / 4			
reaction time	0.139	interval	7 steps	1.06	1.00	1.00	1.00	1.00	1.02	1.00	1.04	1.04	1.49	NR PB		3.06	3.02	3.08
wind	0.3 m/s	velocity	5.49	8.62	9.14	9.14	9.14	9.14	8.96	9.14	8.79	8.79	9.41	8.37		8.96	9.08	8.90
<b>FINAL - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	28-Jun-17	time	2.52	3.56	4.58	5.60	6.60	7.60	8.62	9.64	10.68	11.74		13.23	6 / 2			
reaction time	0.152	interval	7 steps	1.04	1.02	1.02	1.00	1.00	1.02	1.02	1.04	1.06	1.49	NR PB		3.08	3.02	3.12
wind	0.6 m/s	velocity	5.44	8.79	8.96	8.96	9.14	9.14	8.96	8.96	8.79	8.62	9.41	8.31		8.90	9.08	8.79
<b>FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	09-Sep-16	time	2.53	3.60	4.64	5.67	6.70	7.70	8.74	9.81	10.88	11.99		13.50	2 / 7			
reaction time	0.183	interval	7 steps	1.07	1.04	1.03	1.03	1.00	1.04	1.07	1.07	1.11	1.51			3.14	3.07	3.25
wind	0.2 m/s	velocity	5.42	8.54	8.79	8.87	8.87	9.14	8.79	8.54	8.54	8.23	9.28	8.15		8.73	8.93	8.44
<b>FINAL - 2016 Athletissima (Lausanne, SUI) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	25-Aug-16	time	2.52	3.56	4.60	5.60	6.60	7.62	8.64	9.66	10.72	11.78		13.34	1 / 5			
reaction time	0.141	interval	7 steps	1.04	1.04	1.00	1.00	1.02	1.02	1.02	1.06	1.06	1.56			3.08	3.04	3.14
wind	0.5 m/s	velocity	5.44	8.79	8.79	9.14	9.14	8.96	8.96	8.96	8.62	8.62	8.99	8.25		8.90	9.02	8.73
<b>FINAL - 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>				
date	15-Jul-16	time	2.48	3.54	4.56	5.58	6.60	7.60	8.64	9.68	10.72	11.86		13.45	8 / 5			
reaction time	0.131	interval	7 steps	1.06	1.02	1.02	1.02	1.00	1.04	1.04	1.04	1.14	1.59			3.10	3.06	3.22
wind	0.0 m/s	velocity	5.53	8.62	8.96	8.96	8.96	9.14	8.79	8.79	8.79	8.02	8.82	8.18		8.85	8.96	8.52
<b>FINAL - 2013 European Indoor Championships (Göteborg, SWE)</b>														<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>				
date	01-Mar-13	time	2.55	3.61	4.65	5.66	6.67							7.56	8 / 4			
reaction time	0.159	interval	7 steps	1.06	1.04	1.01	1.01						0.89	-NR		3.11		
wind		velocity	5.38	8.62	8.79	9.05	9.05						10.92	7.94		8.82		
<b>FINAL - 2011 Folksam GP (Göteborg, SWE)</b>														<i>Blomkvist (2011) - www.sub13.se</i>				
date	11-Jun-11	time	2.53	3.64	4.72	5.78	6.84	7.88	8.96	10.04	11.12	12.20		13.80	/ 5			
reaction time		interval		1.11	1.08	1.06	1.06	1.04	1.08	1.08	1.08	1.08	1.60			3.25	3.18	3.24
wind	0.6 m/s	velocity	5.42	8.23	8.46	8.62	8.62	8.79	8.46	8.46	8.46	8.46	8.76	7.97		8.44	8.62	8.46
<b>Balnuweit, Erik (GER) (1988)</b>																		
<b>FINAL - 2019 PSD Bank Meeting (Düsseldorf, GER) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	20-Feb-19	time	2.42	3.46	4.52	5.52	6.56							7.67	1 / 6			
reaction time	0.148	interval		1.04	1.06	1.00	1.04						1.11			3.10		
wind		velocity	5.67	8.79	8.62	9.14	8.79						8.76	7.82		8.85		
<b>FINAL - 2013 European Indoor Championships (Göteborg, SWE)</b>														<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>				
date	01-Mar-13	time	2.55	3.60	4.62	5.65	6.68							7.58	5 / 5			
reaction time	0.146	interval	7 steps	1.05	1.02	1.03	1.03						0.90	PB		3.10		
wind		velocity	5.38	8.70	8.96	8.87	8.87						10.80	7.92		8.85		
<b>Balzer, Falk (GER) (1973)</b>																		
<b>FINAL - 2000 ISTAF (Berlin, GER)</b>														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	01-Sep-00	time	2.60	3.67	4.70	5.72	6.72	7.73	8.78	9.80	10.88	12.00		13.47	/ 4			
reaction time	0.158	interval		1.07	1.03	1.02	1.00	1.01	1.05	1.02	1.08	1.12	1.47			3.12	3.06	3.22
wind	-0.4 m/s	velocity	5.28	8.54	8.87	8.96	9.14	9.05	8.70	8.96	8.46	8.16	9.54	8.17		8.79	8.96	8.52
<b>FINAL - 1999 IAAF World Championships (Sevilla, ESP)</b>														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	25-Aug-99	time	2.60	3.64	4.65	5.67	6.69	7.71	8.71	9.72	10.76	11.84		13.26	2 / 5			
reaction time	0.153	interval		1.04	1.01	1.02	1.02	1.00	1.01	1.04	1.08	1.42				3.07	3.04	3.13
wind	1.0 m/s	velocity	5.28	8.79	9.05	8.96	8.96	9.14	9.05	8.79	8.46	9.87	8.30			8.93	9.02	8.76
<b>Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)</b>														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	24-Aug-99	time	2.58	3.61	4.62	5.63	6.65	7.66	8.70	9.74	10.80	11.88		13.32	6 / 4			
reaction time	0.136	interval		1.03	1.01	1.01	1.02	1.01	1.04	1.04	1.06	1.08	1.44			3.05	3.07	3.18
wind	0.0 m/s	velocity	5.32	8.87	9.05	9.05	8.96	9.05	8.79	8.79	8.62	8.46	9.74	8.26		8.99	8.93	8.62
<b>FINAL - 1998 European Championships (Budapest, HUN)</b>														<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>				
date	22-Aug-98	time	2.60	3.62	4.63	5.64	6.67	7.67	8.68	9.68	10.71	11.77		13.12	6 / 2			
reaction time		interval		1.02	1.01	1.01	1.03	1.00	1.01	1.00	1.03	1.06	1.35	PB		3.04	3.04	3.09
wind	1.5 m/s	velocity	5.28	8.96	9.05	9.05	8.87	9.14	9.05	9.14	8.87	8.62	10.39	8.38		9.02	9.02	8.87
<b>Barras, Romain (FRA) (1980)</b>																		
<b>Decathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)</b>														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	20-Aug-09	time	2.72	3.85	4.96	6.07	7.15	8.27	9.37	10.49	11.61	12.75		14.27	8 / 3			
reaction time	0.135	interval		1.13	1.11	1.11	1.08	1.12	1.10	1.12	1.12	1.14	1.52			3.35	3.30	3.38
wind	-0.1 m/s	velocity	5.04	8.09	8.23	8.23	8.46	8.16	8.31	8.16	8.16	8.02	9.22	7.71		8.19	8.31	8.11
<b>Bárta, Dan (CZE) (1998)</b>																		
<b>FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)</b>														<i>Feher (2015) - Final report U18 &amp; U20 Czech Republic indoor national champs</i>				
date	14-Feb-15	time	2.70	3.86	5.00	6.09	7.23							8.20	6 / 5			

reaction time	0.158	interval	1.16	1.14	1.09	1.14							0.97			3.39			
		velocity	5.08	7.88	8.02	8.39	8.02							10.02	7.32		8.09		
<b>FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)</b>																			
date	28-Jun-14	time	2.80	3.97	5.13	6.28	7.44	8.59	9.83							dnf	3 / --		
reaction time	0.169	interval	1.17	1.16	1.15	1.16	1.15	1.24									3.48	3.55	
wind	-3.7 m/s	velocity	4.90	7.81	7.88	7.95	7.88	7.95	7.37								7.88	7.72	
<b>Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)</b>																			
date	28-Jun-14	time	2.79	3.94	5.08	6.22	7.33	8.50	9.67	10.86	12.08	13.28				14.90	4 / 1		
reaction time	0.166	interval	1.15	1.14	1.14	1.11	1.17	1.17	1.19	1.22	1.20	1.62					3.43	3.45	3.61
wind	-1.6 m/s	velocity	4.92	7.95	8.02	8.02	8.23	7.81	7.81	7.68	7.49	7.62	8.65			7.38	7.99	7.95	7.60
<b>Bascou, Dimitri (FRA) (1987)</b>																			
<b>Heat 2 - 2023 French National Championships (Albi, FRA) (TV Analysis)</b>																			
date	29-Jul-23	time	2.54	3.58	4.58	5.56	6.54	7.54	8.54	9.58	10.66	11.70				13.14	3 / 2		
reaction time	0.162	interval	7 steps	1.04	1.00	0.98	0.98	1.00	1.00	1.04	1.08	1.04	1.44				3.02	2.98	3.16
wind	5.3 m/s	velocity	5.40	8.79	9.14	9.33	9.33	9.14	9.14	8.79	8.46	8.79	9.74			8.37	9.08	9.20	8.68
<b>Heat 1 - 2023 Meeting de Paris (Paris, FRA)</b>																			
date	09-Jun-23	time	2.43	3.49	4.54	5.58	6.61	7.65	8.69	9.74	10.85	11.98				13.66	8 / 7		
reaction time	0.162	interval	7 steps	1.06	1.05	1.04	1.03	1.04	1.04	1.05	1.11	1.13	1.68				3.15	3.11	3.29
wind	-2.0 m/s	velocity	5.65	8.62	8.70	8.79	8.87	8.79	8.79	8.70	8.23	8.09	8.35			8.05	8.70	8.82	8.33
<b>Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)</b>																			
date	02-Oct-19	time	2.58	3.62	4.66	5.68	6.70	7.74	8.80	9.88	10.94	12.04				13.48	2 / 3		
reaction time	0.152	interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.06	1.08	1.06	1.10	1.44				3.10	3.12	3.24
wind	1.1 m/s	velocity	5.32	8.79	8.79	8.96	8.96	8.79	8.62	8.46	8.62	8.31	9.74			8.16	8.85	8.79	8.46
<b>FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)</b>																			
date	27-May-17	time	2.48	3.50	4.54	5.56	6.60	7.66	8.74	9.82	10.90	12.00				13.55	3 / 8		
reaction time	0.158	interval	7 steps	1.02	1.04	1.02	1.04	1.06	1.08	1.08	1.08	1.10	1.55				3.08	3.18	3.26
wind	0.9 m/s	velocity	5.53	8.96	8.79	8.96	8.79	8.62	8.46	8.46	8.46	8.31	9.05			8.12	8.90	8.62	8.41
<b>FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)</b>																			
date	09-Sep-16	time	2.50	3.57	4.57	5.57	6.57	7.60	8.64	9.67	10.75	11.86				13.37	4 / 4		
reaction time	0.160	interval	7 steps	1.07	1.00	1.00	1.00	1.03	1.04	1.03	1.08	1.11	1.51				3.07	3.07	3.22
wind	0.2 m/s	velocity	5.49	8.54	9.14	9.14	9.14	8.87	8.79	8.87	8.46	8.23	9.28			8.23	8.93	8.93	8.52
<b>FINAL - 2016 Athletissima (Lausanne, SUI) (TV Analysis)</b>																			
date	25-Aug-16	time	2.48	3.52	4.54	5.56	6.56	7.56	8.58	9.62	10.68	11.76				13.25	6 / 3		
reaction time	0.139	interval	7 steps	1.04	1.02	1.02	1.00	1.00	1.02	1.04	1.06	1.08	1.49				3.08	3.02	3.18
wind	0.5 m/s	velocity	5.53	8.79	8.96	8.96	9.14	9.14	8.96	8.79	8.62	8.46	9.41			8.30	8.90	9.08	8.62
<b>FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)</b>																			
date	16-Aug-16	time	2.50	3.52	4.54	5.56	6.56	7.62	8.66	9.72	10.76	11.80				13.24	6 / 3		
reaction time	0.131	interval	7 steps	1.02	1.02	1.02	1.00	1.06	1.04	1.06	1.04	1.04	1.44				3.06	3.10	3.14
wind	0.2 m/s	velocity	5.49	8.96	8.96	8.96	9.14	8.62	8.79	8.62	8.79	8.79	9.74			8.31	8.96	8.85	8.73
<b>FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)</b>																			
date	23-Jul-16	time	2.50	3.53	4.56	5.56	6.58	7.60	8.62	9.64	10.68	11.74				13.20	5 / 1		
reaction time	0.103	interval	7 steps	1.03	1.03	1.00	1.02	1.02	1.02	1.02	1.04	1.06	1.46				3.06	3.06	3.12
wind	-1.0 m/s	velocity	5.49	8.87	8.87	9.14	8.96	8.96	8.96	8.96	8.79	8.62	9.60			8.33	8.96	8.96	8.79
<b>FINAL - 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)</b>																			
date	15-Jul-16	time	2.44	3.48	4.48	5.46	6.44	7.46	8.48	9.52	10.56	11.64				13.12	6 / 2		
reaction time	0.136	interval	7 steps	1.04	1.00	0.98	0.98	1.02	1.02	1.04	1.04	1.08	1.48			<b>PB</b>	3.02	3.02	3.16
wind	0.0 m/s	velocity	5.62	8.79	9.14	9.33	9.33	8.96	8.96	8.79	8.79	8.46	9.47			8.38	9.08	9.08	8.68
<b>FINAL - 2016 European Championships (Amsterdam, NED)</b>																			
date	09-Jul-16	time	2.53	3.56	4.58	5.59	6.60	7.62	8.65	9.71	10.78	11.86				13.25	7 / 1		
reaction time	0.141	interval	7 steps	1.03	1.02	1.01	1.01	1.02	1.03	1.06	1.07	1.08	1.39				3.06	3.06	3.21
wind	0.0 m/s	velocity	5.42	8.87	8.96	9.05	9.05	8.96	8.87	8.62	8.54	8.46	10.09			8.30	8.96	8.96	8.54
<b>FINAL - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)</b>																			
date	02-Jun-16	time	2.48	3.58	4.66	5.70	6.72	7.74	8.80							dnf	4 / --		
reaction time	0.149	interval	7 steps	1.10	1.08	1.04	1.02	1.02	1.06								3.22	3.10	
wind	0.6 m/s	velocity	5.53	8.31	8.46	8.79	8.96	8.96	8.62								8.52	8.85	
<b>FINAL - 2016 Shanghai Golden Grand Prix (Shanghai, CHN)</b>																			
date	14-May-16	time	2.48	3.52	4.56	5.58	6.62	7.64	8.68	9.72	10.76	11.86				13.34	2 / 4		
reaction time	0.141	interval	7 steps	1.04	1.04	1.02	1.04	1.02	1.04	1.04	1.04	1.10	1.48				3.10	3.10	3.18
wind	1.2 m/s	velocity	5.53	8.79	8.79	8.96	8.79	8.96	8.79	8.79	8.79	8.31	9.47			8.25	8.85	8.85	8.62
<b>FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)</b>																			
<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																			

date	06-May-16	time	2.56	3.60	4.64	5.64	6.64	7.68	8.72	9.76	10.82	11.90		13.33	2 / 5				
reaction time	0.153	interval	7 steps	1.04	1.04	1.00	1.00	1.04	1.04	1.04	1.06	1.08	1.43			3.08	3.08	3.18	
wind	1.4 m/s	velocity	5.36	8.79	8.79	9.14	9.14	8.79	8.79	8.79	8.62	8.46	9.80	8.25		8.90	8.90	8.62	
<b>FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: major championships report</i>					
date	28-Aug-15	time	2.48	3.50	4.52	5.56	6.56	7.58	8.60	9.64	10.68	11.72		13.17	5 / 5				
reaction time	0.137	interval	7 steps	1.02	1.02	1.04	1.00	1.02	1.02	1.04	1.04	1.04	1.45			3.08	3.04	3.12	
wind	0.2 m/s	velocity	5.53	8.96	8.96	8.79	9.14	8.96	8.96	8.79	8.79	8.79	9.67	8.35		8.90	9.02	8.79	
<b>Heat 2 - 2014 European Championships (Zurich, SUI)</b>														<i>Incalza (2014) - https://www.youtube.com/watch?v=nliXgBWbl_k&amp;list=UU7691fXeyNFIMROfkJ-WWUg</i>					
date	13-Aug-14	time	2.58	3.61	4.64	5.68	6.70	7.73	8.77	9.81	10.86	11.92		13.35	8 / 1				
reaction time	0.148	interval		1.03	1.03	1.04	1.02	1.03	1.04	1.04	1.05	1.06	1.43			3.10	3.09	3.15	
wind	0.4 m/s	velocity	5.32	8.87	8.87	8.79	8.96	8.87	8.79	8.79	8.70	8.62	9.80	8.24		8.85	8.87	8.70	
<b>FINAL - 2012 Herculis Meeting International D'Athlétisme (Monaco, MON) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	20-Jul-12	time	2.50	3.55	4.60	5.64	6.67	7.71	8.77	9.84	10.91	12.01		13.54	1 / 8				
reaction time	0.159	interval	7 steps	1.05	1.05	1.04	1.03	1.04	1.06	1.07	1.07	1.10	1.53			3.14	3.13	3.24	
wind	0.0 m/s	velocity	5.49	8.70	8.70	8.79	8.87	8.79	8.62	8.54	8.54	8.31	9.16	8.12		8.73	8.76	8.46	
<b>Heat 5 - 2009 IAAF World Championships (Berlin, GER)</b>														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	19-Aug-09	time	2.65	3.72	4.75	5.77	6.80	7.85	8.91	9.97	11.05	12.13		13.55	6 / 4				
reaction time	0.158	interval		1.07	1.03	1.02	1.03	1.05	1.06	1.06	1.08	1.08	1.42			3.12	3.14	3.22	
wind	0.0 m/s	velocity	5.18	8.54	8.87	8.96	8.87	8.70	8.62	8.62	8.46	8.46	9.87	8.12		8.79	8.73	8.52	
<b>Batte, Erick (CUB) (1974)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)</b>														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>					
date	24-Aug-99	time	2.54	3.58	4.60	5.64	6.64	7.66	8.67	9.72	10.76	11.86		13.40	7 / 6				
reaction time	0.136	interval		1.04	1.02	1.04	1.00	1.02	1.01	1.05	1.04	1.10	1.54			3.10	3.03	3.19	
wind	0.0 m/s	velocity	5.40	8.79	8.96	8.79	9.14	8.96	9.05	8.70	8.79	8.31	9.10	8.21		8.85	9.05	8.60	
<b>FINAL - 1996 Olympic Games (Atlanta, GA)</b>														<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>					
date	26-Jul-96	time	2.40	3.48	4.52	5.58	6.63	7.62	8.68	9.64	10.78	11.83		13.43	1 / 8				
reaction time	0.160	interval		1.08	1.04	1.06	1.05	0.99	1.06	0.96	1.14	1.05	1.60			3.18	3.10	3.15	
wind	0.8 m/s	velocity	5.72	8.46	8.79	8.62	8.70	9.23	8.62	9.52	8.02	8.70	8.76	8.19		8.62	8.85	8.70	
<b>Bautista, Clinton Kingsley (PHI) (1996)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)</b>														<i>CAA Hurdle Development (2019)</i>					
date	07-Jun-19	time	2.65	3.77	4.87	5.99	7.07	8.17	9.29	10.41	11.52	12.67		14.13	2 / 7				
reaction time	0.180	interval	7 steps	1.12	1.10	1.12	1.08	1.10	1.12	1.12	1.11	1.15	1.46	<b>PB</b>		3.34	3.30	3.38	
wind	1.2 m/s	velocity	5.18	8.16	8.31	8.16	8.46	8.31	8.16	8.16	8.23	7.95	9.60	7.78		8.21	8.31	8.11	
<b>FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)</b>														<i>CAA Hurdle Development (2019)</i>					
date	04-Jun-19	time	2.60	3.70	4.80	5.88	6.99	8.10	9.25	10.41	11.57	12.72		14.22	2 / 6				
reaction time	0.169	interval	7 steps	1.10	1.10	1.08	1.11	1.11	1.15	1.16	1.16	1.15	1.50			3.28	3.37	3.47	
wind	-0.3 m/s	velocity	5.28	8.31	8.31	8.46	8.23	8.23	7.95	7.88	7.88	7.95	9.35	7.74		8.36	8.14	7.90	
<b>Behrenbruch, Pascal (GER) (1985)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)</b>														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	20-Aug-09	time	2.75	3.87	4.97	6.07	7.17	8.28	9.39	10.50	11.63	12.77		14.24	2 / 4				
reaction time	0.156	interval		1.12	1.10	1.10	1.10	1.11	1.11	1.11	1.13	1.14	1.47			3.32	3.32	3.38	
wind	0.3 m/s	velocity	4.99	8.16	8.31	8.31	8.31	8.23	8.23	8.23	8.09	8.02	9.54	7.72		8.26	8.26	8.11	
<b>Belmar, Félix (ESP) (1978)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 1998 Spanish National Championships (San Sebastián, ESP)</b>														<i>Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas</i>					
date	02-Aug-98	time	2.70	3.82	4.96	6.06	7.20	8.36	9.51	10.70	11.86	13.08		14.73	8 / 5				
reaction time		interval		1.12	1.14	1.10	1.14	1.16	1.15	1.19	1.16	1.22	1.65			3.36	3.45	3.57	
wind	0.1 m/s	velocity	5.08	8.16	8.02	8.31	8.02	7.88	7.95	7.68	7.88	7.49	8.50	7.47		8.16	7.95	7.68	
<b>Belocian, Wilhem (FRA) (1995)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>					
date	02-Sep-23	time	2.38	3.43	4.44	5.44	6.45	7.45	8.47	9.51	10.56	11.62		13.17	3 / 4				
reaction time	0.130	interval		1.05	1.01	1.00	1.01	1.00	1.02	1.04	1.05	1.06	1.55			3.06	3.03	3.15	
wind	0.0 m/s	velocity	5.76	8.70	9.05	9.14	9.05	9.14	8.96	8.79	8.70	8.62	9.05	8.35		8.96	9.05	8.70	
<b>FINAL - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	21-Aug-23	time	2.56	3.60	4.60	5.60	6.62	7.68	8.72	9.74	10.78	11.86		13.32	2 / 8				
reaction time	0.158	interval		1.04	1.00	1.00	1.02	1.06	1.04	1.02	1.04	1.08	1.46			3.04	3.12	3.14	
wind	0.0 m/s	velocity	5.36	8.79	9.14	9.14	8.96	8.62	8.79	8.96	8.79	8.46	9.60	8.26		9.02	8.79	8.73	
<b>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	21-Aug-23	time	2.50	3.52	4.53	5.53	6.55	7.56	8.60	9.63	10.72	11.77		13.23	4 / 3				
reaction time	0.140	interval		1.02	1.01	1.00	1.02	1.01	1.04	1.03	1.09	1.05	1.46			3.03	3.07	3.17	
wind	-0.1 m/s	velocity	5.49	8.96	9.05	9.14	8.96	9.05	8.79	8.87	8.39	8.70	9.60	8.31		9.05	8.93	8.65	
<b>Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					

date	20-Aug-23	time	2.55	3.58	4.63	5.63	6.64	7.65	8.69	9.75	10.81	11.87		13.31	9 / 1				
reaction time	0.156	interval		1.03	1.05	1.00	1.01	1.01	1.04	1.06	1.06	1.06	1.44			3.08	3.06	3.18	
wind	0.5 m/s	velocity	5.38	8.87	8.70	9.14	9.05	9.05	8.79	8.62	8.62	8.62	9.74	8.26		8.90	8.96	8.62	
<b>FINAL - 2023 French National Championships (Albi, FRA) (TV Analysis)</b>															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	29-Jul-23	time	2.46	3.50	4.50	5.50	6.48	7.50	8.52	9.52	10.56	11.60		13.07	5 / 2				
reaction time	0.168	interval		1.04	1.00	1.00	0.98	1.02	1.02	1.00	1.04	1.04	1.47			3.04	3.02	3.08	
wind	2.3 m/s	velocity	5.58	8.79	9.14	9.14	9.33	8.96	8.96	9.14	8.79	8.79	9.54	8.42		9.02	9.08	8.90	
<b>FINAL - 2023 Meeting de Paris (Paris, FRA)</b>															<i>Omega Timing (2023) - diamond league race analysis</i>				
date	09-Jun-23	time	2.35	3.40	4.42	5.43	6.45	7.47	8.50	9.53	10.57	11.62		13.20	8 / 5				
reaction time	0.142	interval		1.05	1.02	1.01	1.02	1.02	1.03	1.03	1.04	1.05	1.58			3.08	3.07	3.12	
wind	-0.5 m/s	velocity	5.84	8.70	8.96	9.05	8.96	8.96	8.87	8.87	8.79	8.70	8.87	8.33		8.90	8.93	8.79	
<b>Heat 1 - 2023 Meeting de Paris (Paris, FRA)</b>															<i>Omega Timing (2023) - diamond league race analysis</i>				
date	09-Jun-23	time	2.36	3.43	4.46	5.49	6.52	7.56	8.60	9.64	10.70	11.78		13.37	6 / 3				
reaction time	0.129	interval		1.07	1.03	1.03	1.03	1.04	1.04	1.04	1.06	1.08	1.59			3.13	3.11	3.18	
wind	-2.0 m/s	velocity	5.81	8.54	8.87	8.87	8.87	8.79	8.79	8.79	8.62	8.46	8.82	8.23		8.76	8.82	8.62	
<b>FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)</b>															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	16-Jun-22	time	2.48	3.52	4.58	5.64									dnf	1 / --			
reaction time	0.111	interval	7 steps	1.04	1.06	1.06											3.16		
wind	-1.2 m/s	velocity	5.53	8.79	8.62	8.62											8.68		
<b>FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)</b>															<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>				
date	20-Mar-22	time	2.50	3.54	4.58	5.62	6.66							7.67	3 / 8				
reaction time	0.177	interval		1.04	1.04	1.04	1.04						1.01				3.12		
		velocity	5.49	8.79	8.79	8.79	8.79						9.62	7.82			8.79		
<b>Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)</b>															<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>				
date	20-Mar-22	time	2.53	3.56	4.56	5.56	6.56							7.53	4 / 1				
reaction time	0.129	interval		1.03	1.00	1.00	1.00						0.97				3.03		
		velocity	5.42	8.87	9.14	9.14	9.14						10.02	7.97			9.05		
<b>Heat 6 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)</b>															<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>				
date	20-Mar-22	time	2.50	3.55	4.57	5.57	6.60							7.55	1 / 1				
reaction time	0.109	interval		1.05	1.02	1.00	1.03						0.95				3.07		
		velocity	5.49	8.70	8.96	9.14	8.87						10.23	7.95			8.93		
<b>FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)</b>															<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>				
date	17-Feb-22	time	2.46	3.52	4.55	5.57	6.66							7.72	3 / 8				
reaction time	0.130	interval		1.06	1.03	1.02	1.09						1.06				3.11		
		velocity	5.58	8.62	8.87	8.96	8.39						9.17	7.77			8.82		
<b>Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)</b>															<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>				
date	17-Feb-22	time	2.43	3.45	4.50	5.54	6.54							7.57	5 / 2				
reaction time	0.139	interval		1.02	1.05	1.04	1.00						1.03				3.11		
		velocity	5.65	8.96	8.70	8.79	9.14						9.44	7.93			8.82		
<b>FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)</b>															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	10-Jun-21	time	2.48	3.52	4.56	5.58	6.60	7.64	8.66	9.68	10.76	11.82		13.31	6 / 3				
reaction time	0.138	interval		1.04	1.04	1.02	1.02	1.04	1.02	1.02	1.08	1.06	1.49				3.10	3.08	3.16
wind	-0.1 m/s	velocity	5.53	8.79	8.79	8.96	8.96	8.79	8.96	8.96	8.46	8.62	9.41	8.26			8.85	8.90	8.68
<b>FINAL - 2021 Fanny Blankers Koen Games (Hengelo, NED) (TV Analysis)</b>															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	06-Jun-21	time	2.47	3.54	4.54	5.57	6.60	7.62	8.64	9.67	10.74	11.84		13.34	6 / 3				
reaction time		interval		1.07	1.00	1.03	1.03	1.02	1.02	1.03	1.07	1.10	1.50				3.10	3.07	3.20
wind	1.7 m/s	velocity	5.55	8.54	9.14	8.87	8.87	8.96	8.96	8.87	8.54	8.31	9.35	8.25			8.85	8.93	8.57
<b>FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)</b>															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	07-Mar-21	time	2.40	3.46	4.44	5.44	6.42							7.42	5 / 1				
reaction time	0.129	interval		1.06	0.98	1.00	0.98						1.00	<b>PB</b>			3.04		
		velocity	5.72	8.62	9.33	9.14	9.33						9.72	8.09			9.02		
<b>FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis)</b>															<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>				
date	17-Feb-21	time	2.54	3.56	4.58	5.60	6.61							7.57	3 / 2				
reaction time	0.143	interval		1.02	1.02	1.02	1.01						0.96				3.06		
		velocity	5.40	8.96	8.96	8.96	9.05						10.13	7.93			8.96		
<b>FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)</b>															<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>				
date	09-Feb-21	time	2.52	3.54	4.56	5.55	6.56							7.52	4 / 2				
reaction time	0.160	interval		1.02	1.02	0.99	1.01						0.96				3.03		
		velocity	5.44	8.96	8.96	9.23	9.05						10.13	7.98			9.05		
<b>Heat 1 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)</b>															<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>				

date	09-Feb-21	time	2.40	3.43	4.46	5.46	6.46							7.50	5 / 1					
reaction time	0.141	interval		1.03	1.03	1.00	1.00							1.04				3.06		
		velocity	5.72	8.87	8.87	9.14	9.14							9.35	8.00			8.96		
<b>FINAL - 2021 Meeting Elite en Salle de Metz (Metz, FRA)</b>																				
Vazel (2021) - <a href="https://twitter.com/pjvazel/status/1358428540241399810">https://twitter.com/pjvazel/status/1358428540241399810</a>																				
date	06-Feb-21	time	2.53	3.55	4.54	5.61									dnf	3 / --				
reaction time		interval		1.02	0.99	1.07												3.08		
		velocity	5.42	8.96	9.23	8.54												8.90		
<b>Heat 1 - 2021 Meeting Elite en Salle de Metz (Metz, FRA)</b>																				
Vazel (2021) - <a href="https://twitter.com/pjvazel/status/1358428540241399810">https://twitter.com/pjvazel/status/1358428540241399810</a>																				
date	06-Feb-21	time	2.54	3.57	4.56	5.56	6.56								7.45	/ 1				
reaction time	0.148	interval		1.03	0.99	1.00	1.00							0.89	PB			3.02		
		velocity	5.40	8.87	9.23	9.14	9.14							10.92	14.77			9.08		
<b>FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)</b>																				
Henson (2020) - Athlete First: 2020 year end hurdle report																				
date	17-Sep-20	time	2.50	3.52	4.56	5.60	6.64	7.68	8.72	9.78	10.86	11.94			13.49	5 / 4				
reaction time	0.134	interval		1.02	1.04	1.04	1.04	1.04	1.04	1.06	1.08	1.08	1.55					3.10	3.12	3.22
wind	0.1 m/s	velocity	5.49	8.96	8.79	8.79	8.79	8.79	8.79	8.62	8.46	8.46	9.05	8.15				8.85	8.79	8.52
<b>FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)</b>																				
Henson (2020) - Athlete First: 2020 year end hurdle report																				
date	13-Sep-20	time	2.50	3.51	4.49	5.50	6.48	7.53	8.57	9.59	10.63	11.67			13.20	4 / 1				
reaction time	0.156	interval		1.01	0.98	1.01	0.98	1.05	1.04	1.02	1.04	1.04	1.53					3.00	3.07	3.10
wind	0.0 m/s	velocity	5.49	9.05	9.33	9.05	9.33	8.70	8.79	8.96	8.79	8.79	9.16	8.33				9.14	8.93	8.85
<b>FINAL - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)</b>																				
Henson (2020) - Athlete First: 2020 year end hurdle report																				
date	03-Sep-20	time	2.52	3.57	4.57	5.55	6.60	7.61	8.62	9.66	10.70	11.75			13.27	6 / 2				
reaction time	0.211	interval		1.05	1.00	0.98	1.05	1.01	1.01	1.04	1.04	1.05	1.52					3.03	3.07	3.13
wind	-0.3 m/s	velocity	5.44	8.70	9.14	9.33	8.70	9.05	9.05	8.79	8.79	8.70	9.22	8.29				9.05	8.93	8.76
<b>FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)</b>																				
Henson (2020) - Athlete First: 2020 year end hurdle report																				
date	19-Aug-20	time	2.47	3.50	4.54	5.57	6.57	7.60	8.64	9.68	10.74	11.84			13.34	6 / 4				
reaction time	0.134	interval		1.03	1.04	1.03	1.00	1.03	1.04	1.04	1.06	1.10	1.50					3.10	3.07	3.20
wind	0.3 m/s	velocity	5.55	8.87	8.79	8.87	9.14	8.87	8.79	8.79	8.62	8.31	9.35	8.25				8.85	8.93	8.57
<b>FINAL - 2020 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)</b>																				
Henson (2020) - Athlete First: 2020 year end hurdle report																				
date	14-Aug-20	time	2.54	3.57	4.60	5.60	6.60	7.61	8.64	9.67	10.71	11.77			13.18	6 / 3				
reaction time	0.134	interval		1.03	1.03	1.00	1.00	1.01	1.03	1.03	1.04	1.06	1.41	PB				3.06	3.04	3.13
wind	0.8 m/s	velocity	5.40	8.87	8.87	9.14	9.14	9.05	8.87	8.87	8.79	8.62	9.94	8.35				8.96	9.02	8.76
<b>FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)</b>																				
Henson (2020) - Athlete First: 2020 year end hurdle report																				
date	11-Aug-20	time	2.57	3.60	4.60	5.64	6.64	7.64	8.67	9.74	10.81	11.88			13.38	3 / 2				
reaction time	0.147	interval		1.03	1.00	1.04	1.00	1.00	1.03	1.07	1.07	1.07	1.50					3.07	3.03	3.21
wind	1.1 m/s	velocity	5.34	8.87	9.14	8.79	9.14	9.14	8.87	8.54	8.54	8.54	9.35	8.22				8.93	9.05	8.54
<b>Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)</b>																				
CAA Hurdle Development (2019)																				
date	02-Oct-19	time	2.58	3.64	4.66	5.67	6.72	7.74	8.80	9.90	11.00	12.12			13.60	3 / 7				
reaction time	0.133	interval		1.06	1.02	1.01	1.05	1.02	1.06	1.10	1.10	1.12	1.48					3.09	3.13	3.32
wind	0.6 m/s	velocity	5.32	8.62	8.96	9.05	8.70	8.96	8.62	8.31	8.31	8.16	9.47	8.09				8.87	8.76	8.26
<b>FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)</b>																				
Henson (2020) - Athlete First: 2019 year end hurdle report																				
date	21-Jul-19	time	2.43	3.46	4.48	5.50	6.50	7.53	8.56	9.58	10.61	11.66			13.28	6 / 2				
reaction time	0.125	interval		1.03	1.02	1.02	1.00	1.03	1.03	1.02	1.03	1.05	1.62					3.07	3.06	3.10
wind	0.4 m/s	velocity	5.65	8.87	8.96	8.96	9.14	8.87	8.87	8.96	8.87	8.70	8.65	8.28				8.93	8.96	8.85
<b>FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)</b>																				
Henson (2020) - Athlete First: 2019 year end hurdle report																				
date	30-Jun-19	time	2.56	3.60	4.63	5.63	6.63	7.65	8.68	9.70	10.76	11.83			13.29	2 / 2				
reaction time	0.151	interval		1.04	1.03	1.00	1.00	1.02	1.03	1.02	1.06	1.07	1.46					3.07	3.05	3.15
wind	0.3 m/s	velocity	5.36	8.79	8.87	9.14	9.14	8.96	8.87	8.96	8.62	8.54	9.60	8.28				8.93	8.99	8.70
<b>FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)</b>																				
Henson (2020) - Athlete First: 2019 year end hurdle report																				
date	16-Jun-19	time	2.54	3.58	4.60	5.60	6.64	7.66	8.70	9.74	10.80	11.90			13.43	7 / 4				
reaction time	0.137	interval		1.04	1.02	1.00	1.04	1.02	1.04	1.04	1.06	1.10	1.53					3.06	3.10	3.20
wind	0.3 m/s	velocity	5.40	8.79	8.96	9.14	8.79	8.96	8.79	8.79	8.62	8.31	9.16	8.19				8.96	8.85	8.57
<b>FINAL - 2019 French National Indoor Championships (Miramas, FRA) (TV Analysis)</b>																				
Henson (2020) - Athlete First: 2019 year end hurdle report																				
date	16-Feb-19	time	2.56	3.58	4.62	5.64	6.66								7.63	3 / 3				
reaction time	0.147	interval		1.02	1.04	1.02	1.02								0.97			3.08		
		velocity	5.36	8.96	8.79	8.96	8.96								10.02	7.86		8.90		
<b>FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)</b>																				
Henson (2020) - Athlete First: 2016 year end hurdle report																				
date	09-Sep-16	time	2.50	3.53	4.57	5.57	6.57	7.60	8.62	9.64	10.71	11.81			13.32	8 / 3				
reaction time	0.153	interval		1.03	1.04	1.00	1.00	1.03	1.02	1.02	1.07	1.10	1.51					3.07	3.05	3.19
wind	0.2 m/s	velocity	5.49	8.87	8.79	9.14	9.14	8.87	8.96	8.96	8.54	8.31	9.28	8.26				8.93	8.99	8.60
<b>FINAL - 2016 Athletissima (Lausanne, SUI) (TV Analysis)</b>																				
Henson (2020) - Athlete First: 2016 year end hurdle report																				

date	25-Aug-16	time	2.48	3.50	4.50	5.52	6.52	7.54	8.56	9.60	10.66	11.74		13.25	7 / 4				
reaction time	0.126	interval		1.02	1.00	1.02	1.00	1.02	1.02	1.04	1.06	1.08	1.51	<b>PB</b>		3.04	3.04	3.18	
wind	0.5 m/s	velocity	5.53	8.96	9.14	8.96	9.14	8.96	8.96	8.79	8.62	8.46	9.28	8.30		9.02	9.02	8.62	
<b>FINAL - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	02-Jun-16	time	2.52	3.56	4.60	5.64	6.70	7.76	8.82	9.94	11.02	12.14		13.73	8 / 5				
reaction time	0.132	interval		1.04	1.04	1.04	1.06	1.06	1.06	1.12	1.08	1.12	1.59			3.12	3.18	3.32	
wind	0.6 m/s	velocity	5.44	8.79	8.79	8.79	8.62	8.62	8.62	8.16	8.46	8.16	8.82	8.01		8.79	8.62	8.26	
<b>FINAL - 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>					
date	15-Jul-16	time	2.48	3.52	4.54	5.56	6.56	7.60	8.66	9.72	10.78	11.88		13.42	2 / 4				
reaction time	0.129	interval		1.04	1.02	1.02	1.00	1.04	1.06	1.06	1.06	1.10	1.54			3.08	3.10	3.22	
wind	0.0 m/s	velocity	5.53	8.79	8.96	8.96	9.14	8.79	8.62	8.62	8.62	8.31	9.10	8.20		8.90	8.85	8.52	
<b>Bennett, Orlando (JAM) (1999)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	21-Aug-23	time	2.54	3.62	4.65	5.67	6.70	7.70	8.73	9.78	10.83	11.90		13.34	9 / 4				
reaction time	0.144	interval		1.08	1.03	1.02	1.03	1.00	1.03	1.05	1.05	1.07	1.44			3.13	3.06	3.17	
wind	-0.2 m/s	velocity	5.40	8.46	8.87	8.96	8.87	9.14	8.87	8.70	8.70	8.54	9.74	8.25		8.76	8.96	8.65	
<b>Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	20-Aug-23	time	2.53	3.62	4.66	5.70	6.73	7.76	8.80	9.83	10.88	11.93		13.39	9 / 5				
reaction time	0.140	interval		1.09	1.04	1.04	1.03	1.03	1.04	1.03	1.05	1.05	1.46			3.17	3.10	3.13	
wind	-0.6 m/s	velocity	5.42	8.39	8.79	8.79	8.87	8.87	8.79	8.87	8.70	8.70	9.60	8.22		8.65	8.85	8.76	
<b>FINAL - 2023 Jamaican National Championships (Kingston, JAM) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	09-Jul-23	time	2.50	3.56	4.58	5.60	6.58	7.58	8.60	9.60	10.63	11.70		13.19	6 / 3				
reaction time		interval		1.06	1.02	1.02	0.98	1.00	1.02	1.00	1.03	1.07	1.49			3.10	3.00	3.10	
wind	0.7 m/s	velocity	5.49	8.62	8.96	8.96	9.33	9.14	8.96	9.14	8.87	8.54	9.41	8.34		8.85	9.14	8.85	
<b>FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	24-Jun-23	time	2.58	3.64	4.67	5.70	6.72	7.74	8.76	9.79	10.84	11.91		13.34	2 / 7				
reaction time	0.150	interval		1.06	1.03	1.03	1.02	1.02	1.02	1.03	1.05	1.07	1.43			3.12	3.06	3.15	
wind	1.6 m/s	velocity	5.32	8.62	8.87	8.87	8.96	8.96	8.96	8.87	8.70	8.54	9.80	8.25		8.79	8.96	8.70	
<b>FINAL - 2022 NACAC Championships (Freeport, BAH) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	20-Aug-22	time	2.47	3.53	4.56	5.55	6.55	7.55	8.57	9.62	10.64	11.69		13.18	6 / 3				
reaction time		interval		1.06	1.03	0.99	1.00	1.00	1.02	1.05	1.02	1.05	1.49	<b>PB</b>		3.08	3.02	3.12	
wind	0.3 m/s	velocity	5.55	8.62	8.87	9.23	9.14	9.14	8.96	8.70	8.96	8.70	9.41	8.35		8.90	9.08	8.79	
<b>Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	17-Jul-22	time	2.56	3.60	4.70	5.76	6.80	7.85	8.90	9.96	11.06	12.17		13.67	2 / 6				
reaction time	0.139	interval		1.04	1.10	1.06	1.04	1.05	1.05	1.06	1.10	1.11	1.50			3.20	3.14	3.27	
wind	-0.6 m/s	velocity	5.36	8.79	8.31	8.62	8.79	8.70	8.70	8.62	8.31	8.23	9.35	8.05		8.57	8.73	8.39	
<b>Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)</b>														<i>CAA Hurdle Development (2019)</i>					
date	02-Oct-19	time	2.62	3.72	4.76	5.80	6.84	7.90	8.92	10.00	11.08	12.18		13.60	3 / 6				
reaction time	0.162	interval		1.10	1.04	1.04	1.04	1.06	1.02	1.08	1.08	1.10	1.42			3.18	3.12	3.26	
wind	1.1 m/s	velocity	5.24	8.31	8.79	8.79	8.79	8.62	8.96	8.46	8.46	8.31	9.87	8.09		8.62	8.79	8.41	
<b>FINAL - 2018 IAAF World Junior Championships (Tampere, FIN) (99cm)</b>														<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>					
date	12-Jul-18	time	2.62	3.66	4.68	5.68	6.69	7.69	8.69	9.71	10.74	11.79		13.33	4 / 2				
reaction time	0.171	interval		1.04	1.02	1.00	1.01	1.00	1.00	1.02	1.03	1.05	1.54			3.06	3.01	3.10	
wind	0.3 m/s	velocity	5.24	8.79	8.96	9.14	9.05	9.14	9.14	8.96	8.87	8.70	9.10	8.25		8.96	9.11	8.85	
<b>Bentsen, Jon Yde (DEN) (1985)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2011 Windsprint (Sundsvall, SWE)</b>														<i>Blomkvist (2011) - www.sub13.se</i>					
date	31-Jul-11	time	2.72	3.85	4.95	6.04	7.14	8.25	9.37	10.49	11.64	12.81		14.42	1 / 4				
reaction time		interval		1.13	1.10	1.09	1.10	1.11	1.12	1.12	1.15	1.17	1.61			3.32	3.33	3.44	
wind	2.8 m/s	velocity	5.04	8.09	8.31	8.39	8.31	8.23	8.16	8.16	7.95	7.81	8.71	7.63		8.26	8.23	7.97	
<b>Berger, Dominic (USA) (1986)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2011 Folksam GP (Göteborg, SWE)</b>														<i>Blomkvist (2011) - www.sub13.se</i>					
date	11-Jun-11	time	2.48	3.56	4.60	5.64	6.68	7.72	8.76	9.80	10.86	11.92		13.49	1 / 2				
reaction time		interval		1.08	1.04	1.04	1.04	1.04	1.04	1.04	1.06	1.06	1.57			3.16	3.12	3.16	
wind	0.6 m/s	velocity	5.53	8.46	8.79	8.79	8.79	8.79	8.79	8.79	8.62	8.62	8.93	8.15		8.68	8.79	8.68	
<b>Heat 3 - 2007 USATF National Championships (Indianapolis, IN)</b>														<i>USATF Men's Hurdle Development (2007)</i>					
date	23-Jun-07	time	2.70	3.82	4.90	5.99	7.08	8.16	9.26	10.38	11.48	12.61		14.35	8 / 7				
reaction time		interval		1.12	1.08	1.09	1.09	1.08	1.10	1.12	1.10	1.13	1.74			3.29	3.27	3.35	
wind	-3.2 m/s	velocity	5.08	8.16	8.46	8.39	8.39	8.46	8.31	8.16	8.31	8.09	8.06	7.67		8.33	8.39	8.19	
<b>Beria, Matteo (ITA) (1996)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2013 Italian National Indoor Youth Championships (Ancona, ITA) (91cm)</b>														<i>FIDAL - Centro Studi &amp; Ricerche (2013) - www.youtube.com/watch?v=Xy9UwVfMj6g</i>					
date	23-Feb-13	time	2.66	3.78	4.87	5.95	7.00							7.99	7 / 2				

reaction time	interval	1.12	1.09	1.08	1.05								0.99			3.29			
	velocity	5.16	8.16	8.39	8.46	8.70							9.82	7.51		8.33			
<b>Biondo, Giuseppe (ITA) (1996)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>			
<b>FINAL</b> - 2013 Italian National Indoor Youth Championships (Ancona, ITA) (91cm)																			
date	23-Feb-13	time	2.66	3.78	4.85	5.90	6.95							7.94	6 / 1				
reaction time	interval		1.12	1.07	1.05	1.05						0.99		<b>PB</b>		3.24			
	velocity	5.16	8.16	8.54	8.70	8.70						9.82	7.56			8.46			
<b>Bitzi, Ivan (SUI) (1975)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>			
<b>Heat 4</b> - 2006 European Championships (Göteborg, SWE)																			
date	11-Aug-06	time	2.71	3.77	4.82	5.87	6.91	7.96	9.02	10.12	11.21	12.30		13.68	4 / 4				
reaction time	interval		1.06	1.05	1.05	1.04	1.05	1.06	1.10	1.09	1.09	1.38				3.16	3.15	3.28	
wind	-1.1 m/s	velocity	5.06	8.62	8.70	8.70	8.79	8.70	8.62	8.31	8.39	8.39	10.16	8.04		8.68	8.70	8.36	
<b>Blake, Arthur (USA) (1966)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>			
<b>FINAL</b> - 1988 Olympic Games (Seoul, KOR)																			
date	26-Sep-88	time	2.48	3.57	4.61	5.65	6.67	7.68	8.85	10.01	11.21	12.40		13.96	5 / 8				
reaction time	0.160	interval		1.09	1.04	1.04	1.02	1.01	1.17	1.16	1.20	1.19	1.56			3.17	3.20	3.55	
wind	1.5 m/s	velocity	5.53	8.39	8.79	8.79	8.96	9.05	7.81	7.88	7.62	7.68	8.99	7.88		8.65	8.57	7.72	
<b>Semi-Final 2</b> - 1988 Olympic Games (Seoul, KOR)																			
date	26-Sep-88	time	2.61	3.65	4.70	5.74	6.78	7.82	8.86	9.95	11.02	12.10		13.52	4 / 2				
reaction time	0.154	interval		1.04	1.05	1.04	1.04	1.04	1.04	1.09	1.07	1.08	1.42			3.13	3.12	3.24	
wind	-0.7 m/s	velocity	5.26	8.79	8.70	8.79	8.79	8.79	8.39	8.54	8.46	9.87	8.14			8.76	8.79	8.46	
<b>Blaschek, Thomas (GER) (1981)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>			
<b>FINAL</b> - 2007 European Cup (Munich, GER)																			
date	24-Jun-07	time	2.63	3.67	4.71	5.73	6.75	7.78	8.83	9.89	10.97	12.07		13.51	/ 3				
reaction time	0.133	interval		1.04	1.04	1.02	1.02	1.03	1.05	1.06	1.08	1.10	1.44			3.10	3.10	3.24	
wind	0.4 m/s	velocity	5.22	8.79	8.79	8.96	8.96	8.87	8.70	8.62	8.46	8.31	9.74	8.14		8.85	8.85	8.46	
<b>Blaschke, Joakim (SWE) (1977)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>			
<b>FINAL</b> - 2011 Folksam GP (Göteborg, SWE)																			
date	11-Jun-11	time	2.60	3.72	4.84	5.96	7.12	8.28	9.42	10.58	11.76	12.94		14.72					
reaction time	interval		1.12	1.12	1.12	1.16	1.16	1.14	1.16	1.18	1.18	1.78				3.36	3.46	3.52	
wind	0.6 m/s	velocity	5.28	8.16	8.16	8.16	7.88	7.88	8.02	7.88	7.75	7.75	7.88	7.47		8.16	7.92	7.79	
<b>FINAL</b> - 2011 Landskamp FIN-SWE-NOR (Tampere, FIN)																			
date	05-Feb-11	time	2.60	3.72	4.80	5.90	7.00							8.06					
reaction time	interval		1.12	1.08	1.10	1.10						1.06				3.30			
	velocity	5.28	8.16	8.46	8.31	8.31						9.17	7.44			8.31			
<b>FINAL</b> - 2010 Swedish National Championships (Falun, SWE)																			
date	22-Aug-10	time	2.70	3.84	4.97	6.09	7.21	8.35	9.48	10.64	11.82	13.00		14.57					
reaction time	interval		1.14	1.13	1.12	1.12	1.14	1.13	1.16	1.18	1.18	1.57				3.39	3.39	3.52	
wind	-0.7 m/s	velocity	5.08	8.02	8.09	8.16	8.16	8.02	8.09	7.88	7.75	7.75	8.93	7.55		8.09	8.09	7.79	
<b>FINAL</b> - 2010 Folksam GP (Sollentuna, SWE)																			
date	01-Jul-10	time	2.53	3.65	4.79									14.55					
reaction time	interval		1.12	1.14															
wind	0.4 m/s	velocity	5.42	8.16	8.02									7.56					
<b>Heat 2</b> - 2010 Samsung Galan (Göteborg, SWE)																			
date	02-Feb-10	time	2.60	3.76	4.90	6.04	7.18							8.29					
reaction time	interval		1.16	1.14	1.14	1.14						1.11				3.44			
	velocity	5.28	7.88	8.02	8.02	8.02						8.76	7.24			7.97			
<b>FINAL</b> - 2008 Windsprint (Sundsvall, SWE)																			
date	06-Jul-08	time		3.84			7.22			10.73									
reaction time	interval						3.38			3.51									
wind	0.5 m/s	velocity		5.95			8.11			7.81									
<b>FINAL</b> - 2007 Windsprint (Sundsvall, SWE)																			
date	24-Jul-07	time		3.87			7.23			10.68									
reaction time	interval						3.36			3.45									
wind	1.3 m/s	velocity		5.91			8.16			7.95									
<b>Bondoreo, Sho (JPN)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>			
<b>FINAL</b> - 2019 Japanese National High School Championships (Okinawa, JPN) (99cm)																			
date	08-Aug-19	time	2.78	3.95	5.12	6.27	7.41	8.60	9.78	10.95	12.14	13.33		14.91	2 / 6				
reaction time	interval		1.17	1.17	1.15	1.14	1.19	1.18	1.17	1.19	1.19	1.58				3.49	3.51	3.55	
wind	-3.0 m/s	velocity	4.94	7.81	7.81	7.95	8.02	7.68	7.75	7.81	7.68	7.68	8.87	7.38		7.86	7.81	7.72	
<b>Borisov, Yevgeniy (RUS) (1984)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>			



<b>Semi-Final 2 - 2012 Olympic Games (London, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>				
date	08-Aug-12	time	2.48	3.50	4.52	5.52	6.52	7.54	8.56	9.58	10.60	11.70	13.23	4 / 2				
reaction time	0.159	interval		1.02	1.02	1.00	1.00	1.02	1.02	1.02	1.02	1.10	1.53		3.04	3.04	3.14	
wind	0.1 m/s	velocity	5.53	8.96	8.96	9.14	9.14	8.96	8.96	8.96	8.96	8.31	9.16	8.31	9.02	9.02	8.73	
<b>FINAL - 2009 IAAF World Championships (Berlin, GER)</b>														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	20-Aug-09	time	2.54	3.60	4.61	5.60	6.59	7.60	8.62	9.65	10.70	11.74	13.14	4 / 1				
reaction time	0.157	interval		1.06	1.01	0.99	0.99	1.01	1.02	1.03	1.05	1.04	NR		3.06	3.02	3.12	
wind	0.1 m/s	velocity	5.40	8.62	9.05	9.23	9.23	9.05	8.96	8.87	8.70	8.79	10.01	8.37	8.96	9.08	8.79	
<b>Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)</b>														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	20-Aug-09	time	2.57	3.59	4.62	5.63	6.63	7.63	8.65	9.69	10.73	11.79	13.18	4 / 1				
reaction time	0.169	interval		1.02	1.03	1.01	1.00	1.00	1.02	1.04	1.04	1.06	1.39	NR	3.06	3.02	3.14	
wind	0.6 m/s	velocity	5.34	8.96	8.87	9.05	9.14	9.14	8.96	8.79	8.79	8.62	10.09	8.35	8.96	9.08	8.73	
<b>Heat 4 - 2009 IAAF World Championships (Berlin, GER)</b>														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	19-Aug-09	time	2.57	3.62	4.63	5.64	6.65	7.67	8.71	9.80	10.85	11.91	13.35	2 / 1				
reaction time	0.149	interval		1.05	1.01	1.01	1.01	1.02	1.04	1.09	1.05	1.06	1.44		3.07	3.07	3.20	
wind	0.5 m/s	velocity	5.34	8.70	9.05	9.05	9.05	8.96	8.79	8.39	8.70	8.62	9.74	8.24	8.93	8.93	8.57	
<b>Brathwaite, Shane (BAR) (1990)</b>																		
<b>FINAL - 2022 NACAC Championships (Freeport, BAH) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	20-Aug-22	time	2.50	3.56	4.56	5.57	6.60	7.60	8.63	9.70	10.76	11.83	13.42	5 / 4				
reaction time		interval		1.06	1.00	1.01	1.03	1.00	1.03	1.07	1.06	1.07	1.59		3.07	3.06	3.20	
wind	0.3 m/s	velocity	5.49	8.62	9.14	9.05	8.87	9.14	8.87	8.54	8.62	8.54	8.82	8.20	8.93	8.96	8.57	
<b>FINAL - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	17-Jul-22	time	2.48	3.56	4.60	5.60	6.63	7.65						dnf	1 / --			
reaction time	0.108	interval	7 steps	1.08	1.04	1.00	1.03	1.02						DQ		3.12		
wind	1.2 m/s	velocity	5.53	8.46	8.79	9.14	8.87	8.96							8.79			
<b>Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)</b>														<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>				
date	17-Jul-22	time	2.55	3.58	4.60	5.60	6.59	7.60	8.63	9.65	10.71	11.76	13.21	8 / 3				
reaction time	0.115	interval	7 steps	1.03	1.02	1.00	0.99	1.01	1.03	1.02	1.06	1.05	1.45		3.05	3.03	3.13	
wind	2.5 m/s	velocity	5.38	8.87	8.96	9.14	9.23	9.05	8.87	8.96	8.62	8.70	9.67	8.33	8.99	9.05	8.76	
<b>Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	16-Jul-22	time	2.56	3.66	4.70	5.73	6.73	7.76	8.80	9.83	10.90	11.96	13.47	3 / 4				
reaction time	0.134	interval	7 steps	1.10	1.04	1.03	1.00	1.03	1.04	1.03	1.07	1.06	1.51		3.17	3.07	3.16	
wind	0.2 m/s	velocity	5.36	8.31	8.79	8.87	9.14	8.87	8.79	8.87	8.54	8.62	9.28	8.17	8.65	8.93	8.68	
<b>FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	12-Jun-22	time	2.52	3.57	4.60	5.62	6.63	7.63	8.68	9.72	10.78	11.84	13.40	8 / 5				
reaction time	0.133	interval		1.05	1.03	1.02	1.01	1.00	1.05	1.04	1.06	1.06	1.56		3.10	3.06	3.16	
wind	1.6 m/s	velocity	5.44	8.70	8.87	8.96	9.05	9.14	8.70	8.79	8.62	8.62	8.99	8.21	8.85	8.96	8.68	
<b>FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	10-Jun-21	time	2.50	3.56	4.60	5.64	6.66	7.68	8.74	9.80	10.86	11.94	13.46	1 / 5				
reaction time	0.122	interval		1.06	1.04	1.04	1.02	1.02	1.06	1.06	1.06	1.08	1.52		3.14	3.10	3.20	
wind	-0.1 m/s	velocity	5.49	8.62	8.79	8.79	8.96	8.96	8.62	8.62	8.62	8.46	9.22	8.17	8.73	8.85	8.57	
<b>FINAL - 2019 IAAF World Championships (Doha, QAT)</b>														<i>CAA Hurdle Development (2019)</i>				
date	02-Oct-19	time	2.62	3.68	4.78	5.85	6.91	7.96	8.99	10.04	11.09	12.15	13.61	1 / 6				
reaction time	0.149	interval		1.06	1.10	1.07	1.06	1.05	1.03	1.05	1.05	1.06	1.46		3.23	3.14	3.16	
wind	0.6 m/s	velocity	5.24	8.62	8.31	8.54	8.62	8.70	8.87	8.70	8.70	8.62	9.60	8.08	8.49	8.73	8.68	
<b>Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)</b>														<i>CAA Hurdle Development (2019)</i>				
date	02-Oct-19	time	2.62	3.68	4.70	5.72	6.74	7.76	8.79	9.86	10.92	12.12	14.29	8 / 7				
reaction time	0.169	interval		1.06	1.02	1.02	1.02	1.02	1.03	1.07	1.06	1.20	2.17		3.10	3.07	3.33	
wind	1.1 m/s	velocity	5.24	8.62	8.96	8.96	8.96	8.96	8.87	8.54	8.62	7.62	6.46	7.70	8.85	8.93	8.23	
<b>Heat 2 - 2019 IAAF World Championships (Doha, QAT)</b>														<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>				
date	30-Sep-19	time	2.62	3.65	4.72	5.73	6.76	7.81	8.84	9.88	10.96	12.04	13.51	3 / 4				
reaction time	0.156	interval		1.03	1.07	1.01	1.03	1.05	1.03	1.04	1.08	1.08	1.47		3.11	3.11	3.20	
wind	0.5 m/s	velocity	5.24	8.87	8.54	9.05	8.87	8.70	8.87	8.79	8.46	8.46	9.54	8.14	8.82	8.82	8.57	
<b>FINAL - 2019 ISTAF (Berlin, GER) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	01-Sep-19	time	2.53	3.58	4.61	5.63	6.65	7.65	8.68	9.75	10.80	11.86	13.36	1 / 3				
reaction time	0.125	interval		1.05	1.03	1.02	1.02	1.00	1.03	1.07	1.05	1.06	1.50		3.10	3.05	3.18	
wind	0.8 m/s	velocity	5.42	8.70	8.87	8.96	8.96	9.14	8.87	8.54	8.70	8.62	9.35	8.23	8.85	8.99	8.62	
<b>FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	10-Aug-19	time	2.63	3.68	4.72	5.74	6.74	7.77	8.79	9.81	10.84	11.89	13.31	7 / 1				
reaction time	0.153	interval		1.05	1.04	1.02	1.00	1.03	1.02	1.02	1.03	1.05	1.42		3.11	3.05	3.10	

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

wind	1.8 m/s	velocity	5.22	8.70	8.79	8.96	9.14	8.87	8.96	8.96	8.87	8.70	9.87	8.26	8.82	8.99	8.85	
<b>FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	22-Jul-18	time	2.56	3.62	4.66	5.68	6.70	7.74	8.78	9.84	10.88	11.96		13.41	9 / 6			
reaction time	0.119	interval	7 steps	1.06	1.04	1.02	1.02	1.04	1.04	1.06	1.04	1.08	1.45		3.12	3.10	3.18	
wind	0.2 m/s	velocity	5.36	8.62	8.79	8.96	8.96	8.79	8.79	8.62	8.79	8.46	9.67	8.20	8.79	8.85	8.62	
<b>FINAL - 2017 Memorial van Damme (Brussels, BEL) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	01-Sep-17	time	2.54	3.60	4.64	5.66	6.70	7.74	8.78	9.84	10.92	12.00		13.49	3 / 8			
reaction time	0.141	interval	7 steps	1.06	1.04	1.02	1.04	1.04	1.04	1.06	1.08	1.08	1.49		3.12	3.12	3.22	
wind	0.5 m/s	velocity	5.40	8.62	8.79	8.96	8.79	8.79	8.79	8.62	8.46	8.46	9.41	8.15	8.79	8.79	8.52	
<b>FINAL - 2017 IAAF World Championships (London, GBR)</b>														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles</i>				
date	07-Aug-17	time	2.43	3.47	4.52	5.58	6.61	7.62	8.64	9.67	10.72	11.77		13.32	7 / 6			
reaction time	0.169	interval	7 steps	1.04	1.05	1.06	1.03	1.01	1.02	1.03	1.05	1.05	1.55		3.15	3.06	3.13	
wind	0.0 m/s	velocity	5.65	8.79	8.70	8.62	8.87	9.05	8.96	8.87	8.70	8.70	9.05	8.26	8.70	8.96	8.76	
<b>Semi-Final 2 - 2017 IAAF World Championships (London, GBR)</b>														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles</i>				
date	06-Aug-17	time	2.40	3.44	4.46	5.49	6.52	7.53	8.56	9.61	10.65	11.72		13.26	5 / 1			
reaction time	0.179	interval	7 steps	1.04	1.02	1.03	1.03	1.01	1.03	1.05	1.04	1.07	1.54		3.09	3.07	3.16	
wind	0.6 m/s	velocity	5.72	8.79	8.96	8.87	8.87	9.05	8.87	8.70	8.79	8.54	9.10	8.30	8.87	8.93	8.68	
<b>FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	09-Jul-17	time	2.52	3.60	4.60	5.62	6.64	7.66	8.70	9.74	10.80	11.84		13.27	8 / 3			
reaction time	0.135	interval	7 steps	1.08	1.00	1.02	1.02	1.02	1.04	1.04	1.06	1.04	1.43		3.10	3.08	3.14	
wind	0.0 m/s	velocity	5.44	8.46	9.14	8.96	8.96	8.96	8.79	8.79	8.62	8.79	9.80	8.29	8.85	8.90	8.73	
<b>FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	04-Jul-17	time	2.52	3.56	4.62	5.64	6.66	7.70	8.76	9.80	10.86	11.94		13.39	7 / 7			
reaction time	0.146	interval	7 steps	1.04	1.06	1.02	1.02	1.04	1.06	1.04	1.06	1.08	1.45		3.12	3.12	3.18	
wind	0.3 m/s	velocity	5.44	8.79	8.62	8.96	8.96	8.79	8.62	8.79	8.62	8.46	9.67	8.22	8.79	8.79	8.62	
<b>FINAL - 2017 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	18-Jun-17	time	2.48	3.56	4.56	5.58	6.60	7.64	8.66	9.68	10.72	11.78		13.25	1 / 3			
reaction time	0.134	interval	7 steps	1.08	1.00	1.02	1.02	1.04	1.02	1.02	1.04	1.06	1.47		3.10	3.08	3.12	
wind	3.5 m/s	velocity	5.53	8.46	9.14	8.96	8.96	8.79	8.96	8.96	8.79	8.62	9.54	8.30	8.85	8.90	8.79	
<b>FINAL - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	02-Jun-16	time	2.52	3.58	4.62	5.66	6.70	7.74	8.80	9.86	10.96	12.10		13.64	3 / 4			
reaction time	0.133	interval	7 steps	1.06	1.04	1.04	1.04	1.04	1.06	1.06	1.10	1.14	1.54		3.14	3.14	3.30	
wind	0.6 m/s	velocity	5.44	8.62	8.79	8.79	8.79	8.79	8.62	8.62	8.31	8.02	9.10	8.06	8.73	8.73	8.31	
<b>Braverman, Josh (USA) (1998)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)</b>														<i>USATF (2022) - Results powered by Karmarush.com</i>				
date	26-Jun-22	time	2.49	3.52	4.63	5.59	6.66	7.70	8.73	9.80	10.86	11.89		13.43	8 / 6			
reaction time		interval	1.03	1.11	0.96	1.07	1.04	1.03	1.07	1.06	1.03	1.54			3.10	3.14	3.16	
wind	0.4 m/s	velocity	5.51	8.87	8.23	9.52	8.54	8.79	8.87	8.54	8.62	8.87	9.10	8.19		8.85	8.73	8.68
<b>Britt, Jamal (USA) (1998)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	17-Sep-23	time	2.41	3.49	4.52	5.55	6.58	7.59	8.62	9.66	10.71	11.78		13.36	9 / 8			
reaction time	0.140	interval	7 steps	1.08	1.03	1.03	1.03	1.01	1.03	1.04	1.05	1.07	1.58		3.14	3.07	3.16	
wind	0.9 m/s	velocity	5.69	8.46	8.87	8.87	8.87	9.05	8.87	8.79	8.70	8.54	8.87	8.23		8.73	8.93	8.68
<b>FINAL - 2023 London Athletics Meet (London, GBR)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	23-Jul-23	time	2.39	3.46	4.50	5.50	6.51	7.52	8.54	9.57	10.62	11.68		13.25	6 / 3			
reaction time	0.145	interval	7 steps	1.07	1.04	1.00	1.01	1.01	1.02	1.03	1.05	1.06	1.57		3.11	3.04	3.14	
wind	1.3 m/s	velocity	5.74	8.54	8.79	9.14	9.05	9.05	8.96	8.87	8.70	8.62	8.93	8.30		8.82	9.02	8.73
<b>FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	09-Jul-23	time	2.52	3.57	4.60	5.62	6.64	7.66	8.69	9.72	10.76	11.84		13.31	8 / 6			
reaction time		interval	7 steps	1.05	1.03	1.02	1.02	1.02	1.03	1.03	1.04	1.08	1.47		3.10	3.07	3.15	
wind	-0.2 m/s	velocity	5.44	8.70	8.87	8.96	8.96	8.96	8.87	8.87	8.79	8.46	9.54	8.26		8.85	8.93	8.70
<b>FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	24-Jun-23	time	2.52	3.57	4.60	5.61	6.61	7.65	8.67	9.71	10.74	11.79		13.19	7 / 3			
reaction time	0.169	interval	7 steps	1.05	1.03	1.01	1.00	1.04	1.02	1.04	1.03	1.05	1.40		3.09	3.06	3.12	
wind	1.6 m/s	velocity	5.44	8.70	8.87	9.05	9.14	8.79	8.96	8.79	8.87	8.70	10.01	8.34		8.87	8.96	8.79
<b>FINAL - 2023 Meeting de Paris (Paris, FRA)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	09-Jun-23	time	2.37	3.43	4.46	5.46	6.47	7.47	8.48	9.50	10.52	11.57		13.14	5 / 3			
reaction time	0.141	interval	7 steps	1.06	1.03	1.00	1.01	1.00	1.01	1.02	1.02	1.05	1.57		3.09	3.02	3.09	
wind	-0.5 m/s	velocity	5.79	8.62	8.87	9.14	9.05	9.14	9.05	8.96	8.96	8.70	8.93	8.37		8.87	9.08	8.87
<b>Heat 2 - 2023 Meeting de Paris (Paris, FRA)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>				

date	09-Jun-23	time	2.37	3.42	4.45	5.46	6.47	7.49	8.53	9.56	10.61	11.66		13.21	4 / 2				
reaction time	0.136	interval	7 steps	1.05	1.03	1.01	1.01	1.02	1.04	1.03	1.05	1.05	1.55			3.09	3.07	3.13	
wind	-0.6 m/s	velocity	5.79	8.70	8.87	9.05	9.05	8.96	8.79	8.87	8.70	8.70	9.05	8.33		8.87	8.93	8.76	
<b>FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)</b>															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	02-Jun-23	time	2.48	3.56	4.54	5.56	6.60	7.62	8.65	9.72	10.77	11.83		13.26	7 / 4				
reaction time	0.134	interval	7 steps	1.08	0.98	1.02	1.04	1.02	1.03	1.07	1.05	1.06	1.43			3.08	3.09	3.18	
wind	-0.2 m/s	velocity	5.53	8.46	9.33	8.96	8.79	8.96	8.87	8.54	8.70	8.62	9.80	8.30		8.90	8.87	8.62	
<b>FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)</b>															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	21-May-23	time	2.50	3.52	4.53	5.53	6.52	7.52	8.53	9.55	10.60	11.65		12.99	6 / 1				
reaction time	0.124	interval	7 steps	1.02	1.01	1.00	0.99	1.00	1.01	1.02	1.05	1.05	1.34			3.03	3.00	3.12	
wind	4.0 m/s	velocity	5.49	8.96	9.05	9.14	9.23	9.14	9.05	8.96	8.70	8.70	10.46	8.47		9.05	9.14	8.79	
<b>FINAL - 2023 Adidas Atlanta City Games (Atlanta, GA) (street) (TV Analysis)</b>															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	05-May-23	time	2.52	3.57	4.60	5.60	6.60	7.60	8.62	9.65	10.68	11.73		13.14	4 / 3				
reaction time	0.188	interval	7 steps	1.05	1.03	1.00	1.00	1.00	1.02	1.03	1.03	1.05	1.41			3.08	3.02	3.11	
wind	0.0 m/s	velocity	5.44	8.70	8.87	9.14	9.14	9.14	8.96	8.87	8.87	8.70	9.94	8.37		8.90	9.08	8.82	
<b>FINAL - 2022 NACAC Championships (Freeport, BAH) (TV Analysis)</b>															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	20-Aug-22	time	2.48	3.53	4.53	5.55	6.55	7.55	8.57	9.60	10.62	11.67		13.08	7 / 2				
reaction time		interval	7 steps	1.05	1.00	1.02	1.00	1.00	1.02	1.03	1.02	1.05	1.41	PB		3.07	3.02	3.10	
wind	0.3 m/s	velocity	5.53	8.70	9.14	8.96	9.14	9.14	8.96	8.87	8.96	8.70	9.94	8.41		8.93	9.08	8.85	
<b>FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)</b>															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	26-Jun-22	time	2.50	3.55	4.55	5.55	6.55	7.55	8.56	9.57	10.62	11.66		13.09	3 / 4				
reaction time		interval	7 steps	1.05	1.00	1.00	1.00	1.00	1.01	1.01	1.05	1.04	1.43	PB		3.05	3.01	3.10	
wind	1.2 m/s	velocity	5.49	8.70	9.14	9.14	9.14	9.14	9.05	9.05	8.70	8.79	9.80	8.40		8.99	9.11	8.85	
<b>Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)</b>															<i>USATF (2022) - Results powered by Karmarush.com</i>				
date	26-Jun-22	time	2.51	3.53	4.57	5.60	6.61	7.64	8.65	9.72	10.67	11.77		13.25	7 / 3				
reaction time		interval	7 steps	1.02	1.04	1.03	1.01	1.03	1.01	1.07	0.95	1.10	1.48			3.09	3.05	3.12	
wind	0.1 m/s	velocity	5.47	8.96	8.79	8.87	9.05	8.87	9.05	8.54	9.62	8.31	9.47	8.30		8.87	8.99	8.79	
<b>FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)</b>															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	12-Jun-22	time	2.43	3.52	4.53	5.55	6.55	7.58	8.62	9.65	10.72	11.76		13.22	3 / 4				
reaction time	0.139	interval	7 steps	1.09	1.01	1.02	1.00	1.03	1.04	1.03	1.07	1.04	1.46	PB		3.12	3.07	3.14	
wind	1.6 m/s	velocity	5.65	8.39	9.05	8.96	9.14	8.87	8.79	8.87	8.54	8.79	9.60	8.32		8.79	8.93	8.73	
<b>FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	26-Jun-21	time	2.47	3.53	4.57	5.60	6.64	7.67	8.72	9.77	10.85	11.95		13.47	7 / 7				
reaction time	0.158	interval	7 steps	1.06	1.04	1.03	1.04	1.03	1.05	1.05	1.08	1.10	1.52			3.13	3.12	3.23	
wind	0.4 m/s	velocity	5.55	8.62	8.79	8.87	8.79	8.87	8.70	8.70	8.46	8.31	9.22	8.17		8.76	8.79	8.49	
<b>Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	26-Jun-21	time	2.47	3.53	4.55	5.55	6.57	7.58	8.62	9.67	10.73	11.81		13.27	3 / 3				
reaction time	0.147	interval	7 steps	1.06	1.02	1.00	1.02	1.01	1.04	1.05	1.06	1.08	1.46	PB		3.08	3.07	3.19	
wind	1.8 m/s	velocity	5.55	8.62	8.96	9.14	8.96	9.05	8.79	8.70	8.62	8.46	9.60	8.29		8.90	8.93	8.60	
<b>FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)</b>															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	11-Jun-21	time	2.57	3.63	4.67	5.70	6.70	7.73	8.77	9.83	10.87	11.97		13.45	8 / 4				
reaction time	0.203	interval	7 steps	1.06	1.04	1.03	1.00	1.03	1.04	1.06	1.04	1.10	1.48	PB		3.13	3.07	3.20	
wind	-0.6 m/s	velocity	5.34	8.62	8.79	8.87	9.14	8.87	8.79	8.62	8.79	8.31	9.47	8.18		8.76	8.93	8.57	
<b>Brixey, Sam (USA) (1998)</b>																			
<b>Semi-Final 1 - 2021 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>															<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	26-Jun-21	time	2.50	3.58	4.67	5.70	6.77	7.86	8.99	10.11	11.21	12.38		13.99	9 / 9				
reaction time	0.148	interval	7 steps	1.08	1.09	1.03	1.07	1.09	1.13	1.12	1.10	1.17	1.61			3.20	3.29	3.39	
wind	1.8 m/s	velocity	5.49	8.46	8.39	8.87	8.54	8.39	8.09	8.16	8.31	7.81	8.71	7.86		8.57	8.33	8.09	
<b>FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)</b>															<i>CAA Hurdle Development (2020)</i>				
date	14-Feb-20	time	2.55	3.59	4.64	5.71	6.76							7.72	4 / 1				
reaction time		interval	7 steps	1.04	1.05	1.07	1.05						0.96			3.16			
		velocity	5.38	8.79	8.70	8.54	8.70						10.13	7.77		8.68			
<b>Broadbell, Rasheed (JAM) (2000)</b>																			
<b>FINAL - 2023 Jamaican National Championships (Kingston, JAM) (TV Analysis)</b>															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	09-Jul-23	time	2.50	3.55	4.55	5.53	6.53	7.53	8.50	9.50	10.48	11.48		12.94	3 / 1				
reaction time		interval	7 steps	1.05	1.00	0.98	1.00	1.00	0.97	1.00	0.98	1.00	1.46	PB		3.03	2.97	2.98	
wind	0.7 m/s	velocity	5.49	8.70	9.14	9.33	9.14	9.14	9.42	9.14	9.33	9.14	9.60	8.50		9.05	9.23	9.20	
<b>FINAL - 2023 Meeting International Mohammed VI d'Atlétisme (Rabat, MAR)</b>															<i>Omega Timing (2023) - diamond league race analysis</i>				
date	28-May-23	time	2.41	3.46	4.47	5.48	6.49	7.50	8.51	9.51	10.53	11.55		13.08	5 / 1				
reaction time	0.161	interval	7 steps	1.05	1.01	1.01	1.01	1.01	1.01	1.00	1.02	1.02	1.53			3.07	3.03	3.04	
wind	-1.3 m/s	velocity	5.69	8.70	9.05	9.05	9.05	9.05	9.05	9.14	8.96	8.96	9.16	8.41		8.93	9.05	9.02	

<b>FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	08-Sep-22	time	2.44	3.47	4.48	5.47	6.45	7.48	8.50	9.52	10.61	11.64	13.06	7 / 2					
reaction time	0.149	interval	7 steps	1.03	1.01	0.99	0.98	1.03	1.02	1.02	1.09	1.03	1.42			3.03	3.03	3.14	
wind	-1.0 m/s	velocity	5.62	8.87	9.05	9.23	9.33	8.87	8.96	8.96	8.39	8.87	9.87	8.42		9.05	9.05	8.73	
<b>FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	26-Aug-22	time	2.47	3.50	4.50	5.50	6.50	7.52	8.51	9.52	10.54	11.58	12.99	5 / 1					
reaction time	0.142	interval	7 steps	1.03	1.00	1.00	1.00	1.02	0.99	1.01	1.02	1.04	1.41	<b>PB</b>		3.03	3.01	3.07	
wind	0.0 m/s	velocity	5.55	8.87	9.14	9.14	9.14	8.96	9.23	9.05	8.96	8.79	9.94	8.47		9.05	9.11	8.93	
<b>Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	17-Jul-22	time	2.50	3.53	4.60	5.66	6.66	7.66	8.70	9.73	10.83	11.87	13.27	4 / 3					
reaction time	0.129	interval	7 steps	1.03	1.07	1.06	1.00	1.00	1.04	1.03	1.10	1.04	1.40			3.16	3.04	3.17	
wind	0.3 m/s	velocity	5.49	8.87	8.54	8.62	9.14	9.14	8.79	8.87	8.31	8.79	10.01	8.29		8.68	9.02	8.65	
<b>Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	16-Jul-22	time	2.46	3.53	4.56	5.56	6.60	7.63	8.73	9.80	10.83	11.86	13.36	8 / 2					
reaction time	0.139	interval	7 steps	1.07	1.03	1.00	1.04	1.03	1.10	1.07	1.03	1.03	1.50			3.10	3.17	3.13	
wind	-0.5 m/s	velocity	5.58	8.54	8.87	9.14	8.79	8.87	8.31	8.54	8.87	8.87	9.35	8.23		8.85	8.65	8.76	
<b>FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	13-Jul-21	time	2.60	3.72	4.76	5.82	6.88	7.98	9.04	10.10	11.22	12.32	13.84	2 / 5					
reaction time	0.165	interval	7 steps	1.12	1.04	1.06	1.06	1.10	1.06	1.06	1.12	1.10	1.52			3.22	3.22	3.28	
wind	0.8 m/s	velocity	5.28	8.16	8.79	8.62	8.62	8.31	8.62	8.62	8.16	8.31	9.22	7.95		8.52	8.52	8.36	
<b>Brockman, Joshua (USA) (2001)</b>														<i>USATF (2022) - Results powered by Karmarush.com</i>					
<b>Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)</b>														<i>USATF (2022) - Results powered by Karmarush.com</i>					
date	26-Jun-22	time	2.47	3.56	4.60	5.60	6.62	7.69	8.76	9.85	10.92	12.00	13.55	2 / 6					
reaction time		interval		1.09	1.04	1.00	1.02	1.07	1.07	1.09	1.07	1.08	1.55	<b>PB</b>		3.13	3.16	3.24	
wind	0.1 m/s	velocity	5.55	8.39	8.79	9.14	8.96	8.54	8.54	8.39	8.54	8.46	9.05	8.12		8.76	8.68	8.46	
<b>Brooks, Devon (USA) (1998)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
<b>Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	26-Jun-21	time	2.62	3.66	4.68	5.70	6.72	7.74	8.77	9.81	10.87	12.01	13.55	1 / 7					
reaction time	0.264	interval	7 steps	1.04	1.02	1.02	1.02	1.02	1.03	1.04	1.06	1.14	1.54			3.08	3.07	3.24	
wind	1.8 m/s	velocity	5.24	8.79	8.96	8.96	8.96	8.96	8.87	8.79	8.62	8.02	9.10	8.12		8.90	8.93	8.46	
<b>Brosson, Alexander (SWE) (1990)</b>														<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>					
<b>Heat 1 - 2013 European Indoor Championships (Göteborg, SWE)</b>														<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>					
date	01-Mar-13	time	2.60	3.70	4.77	5.84	6.93							7.85	2 / 6				
reaction time	0.156	interval		1.10	1.07	1.07	1.09						0.92			3.24			
		velocity	5.28	8.31	8.54	8.54	8.39						10.57	7.64		8.46			
<b>FINAL - 2012 Windsprint (Sundsvall, SWE)</b>														<i>Blomkvist (2012) - www.sub13.se</i>					
date	17-Jun-12	time	2.67	3.76	4.81	5.89	7.03	8.16	9.26					dnf	7 / --				
reaction time		interval		1.09	1.05	1.08	1.14	1.13	1.10							3.22	3.37		
wind	1.1 m/s	velocity	5.14	8.39	8.70	8.46	8.02	8.09	8.31							8.52	8.14		
<b>Heat 2 - 2012 Windsprint (Sundsvall, SWE)</b>														<i>Blomkvist (2012) - www.sub13.se</i>					
date	17-Jun-12	time	2.70	3.80	4.87	5.93	7.00	8.08	9.17	10.28	11.38	12.51	13.99	4 / 1					
reaction time		interval		1.10	1.07	1.06	1.07	1.08	1.09	1.11	1.10	1.13	1.48			3.23	3.24	3.34	
wind	0.0 m/s	velocity	5.08	8.31	8.54	8.62	8.54	8.46	8.39	8.23	8.31	8.09	9.47	7.86		8.49	8.46	8.21	
<b>Brown, Bryce (USA) (1988)</b>														<i>USATF Men's Hurdle Development (2007)</i>					
<b>FINAL - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm)</b>														<i>USATF Men's Hurdle Development (2007)</i>					
date	21-Jun-07	time	2.67	3.77	4.80	5.82	6.86	7.91	8.94	9.96	11.01	12.08	13.42	1 / 3					
reaction time		interval		1.10	1.03	1.02	1.04	1.05	1.03	1.02	1.05	1.07	1.34			3.15	3.12	3.14	
wind	2.7 m/s	velocity	5.14	8.31	8.87	8.96	8.79	8.70	8.87	8.96	8.70	8.54	10.46	8.20		8.70	8.79	8.73	
<b>Brown, Joel (USA) (1980)</b>														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
<b>FINAL - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	13-Jul-12	time	2.52	3.60	4.64	5.64	6.68	7.72	8.76	9.80	10.86	11.92	13.39	6 / 5					
reaction time	0.149	interval		1.08	1.04	1.00	1.04	1.04	1.04	1.04	1.06	1.06	1.47			3.12	3.12	3.16	
wind	0.6 m/s	velocity	5.44	8.46	8.79	9.14	8.79	8.79	8.79	8.79	8.62	8.62	9.54	8.22		8.79	8.79	8.68	
<b>FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)</b>														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
date	14-Sep-08	time	2.66	3.75	4.83	5.88	6.94	8.02	9.11	10.02	11.29	12.38	13.81	7 / 8					
reaction time	0.139	interval		1.09	1.08	1.05	1.06	1.08	1.09	0.91	1.27	1.09	1.43			3.22	3.23	3.27	
wind	-1.3 m/s	velocity	5.16	8.39	8.46	8.70	8.62	8.46	8.39	10.07	7.19	8.39	9.80	7.97		8.52	8.49	8.39	
<b>Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)</b>														<i>USATF Men's Hurdle Development (2007)</i>					
date	24-Jun-07	time	2.65	3.72	4.77	5.82	6.84	7.91	8.94	9.98	11.03	12.10	13.52	1 / 5					
reaction time		interval		1.07	1.05	1.05	1.02	1.07	1.03	1.04	1.05	1.07	1.42			3.17	3.12	3.16	
wind	-0.6 m/s	velocity	5.18	8.54	8.70	8.70	8.96	8.54	8.87	8.79	8.70	8.54	9.87	8.14		8.65	8.79	8.68	



reaction time	0.134	interval	1.09	1.10	1.06	1.05	1.07	1.08	1.08	1.10	1.12	1.44			3.25	3.20	3.30
wind	0.7 m/s	velocity	5.12	8.39	8.31	8.62	8.70	8.54	8.46	8.46	8.31	8.16	9.74	7.93	8.44	8.57	8.31
<b>Burt, John (USA) (1997)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2020 Leonard Hilton Memorial Invitational (Houston, TX)</b>														<i>CAA Hurdle Development (2020)</i>			
date	17-Jan-20	time	2.49	3.58	4.65	5.71	6.79							7.88	6 / 2		
reaction time		interval	1.09	1.07	1.06	1.08						1.09			3.22		
wind		velocity	5.51	8.39	8.54	8.62	8.46					8.92	7.61		8.52		
<b>Cabral, Johnathan (CAN) (1992)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	06-Jun-19	time	2.60	3.68	4.71	5.75	6.78	7.83	8.88	9.95	11.00	12.11		13.61	1 / 8		
reaction time	0.142	interval	7 steps	1.08	1.03	1.04	1.03	1.05	1.05	1.07	1.05	1.11	1.50		3.15	3.13	3.23
wind	0.4 m/s	velocity	5.28	8.46	8.87	8.79	8.87	8.70	8.70	8.54	8.70	8.23	9.35	8.08	8.70	8.76	8.49
<b>FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)</b>														<i>Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season</i>			
date	19-May-19	time	2.72	3.83	4.88	5.92	6.95	7.99	9.04	10.10	11.16	12.26		13.74	8 / 7		
reaction time	0.245	interval	7 steps	1.11	1.05	1.04	1.03	1.04	1.05	1.06	1.06	1.10	1.48		3.20	3.12	3.22
wind	2.9 m/s	velocity	5.04	8.23	8.70	8.79	8.87	8.79	8.70	8.62	8.31	9.47	8.01		8.57	8.79	8.52
<b>FINAL - 2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	18-Aug-18	time	2.52	3.60	4.64	5.68	6.72	7.76	8.78	9.78	10.88	11.90		13.46	4 / 7		
reaction time	0.117	interval	7 steps	1.08	1.04	1.04	1.04	1.04	1.02	1.00	1.10	1.02	1.56		3.16	3.10	3.12
wind	1.3 m/s	velocity	5.44	8.46	8.79	8.79	8.79	8.79	8.96	9.14	8.31	8.96	8.99	8.17	8.68	8.85	8.79
<b>Semi-Final 3 - 2017 IAAF World Championships (London, GBR)</b>														<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles</i>			
date	06-Aug-17	time	2.51	3.59	4.63	5.67	6.70	7.76	8.86	10.03	11.33	12.77		14.98	8 / 7		
reaction time	0.174	interval	7 steps	1.08	1.04	1.04	1.03	1.06	1.10	1.17	1.30	1.44	2.21		3.16	3.19	3.91
wind	0.3 m/s	velocity	5.47	8.46	8.79	8.79	8.87	8.62	8.31	7.81	7.03	6.35	6.34	7.34	8.68	8.60	7.01
<b>FINAL - 2017 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	08-Jun-17	time	2.52	3.58	4.64	5.66	6.70	7.74	8.78	9.86	10.94	12.08		13.60	2 / 7		
reaction time	0.130	interval	7 steps	1.06	1.06	1.02	1.04	1.04	1.04	1.08	1.08	1.14	1.52		3.14	3.12	3.30
wind	-0.3 m/s	velocity	5.44	8.62	8.62	8.96	8.79	8.79	8.79	8.46	8.46	8.02	9.22	8.09	8.73	8.79	8.31
<b>FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	29-Apr-17	time	2.63	3.70	4.73	5.76	6.80	7.80	8.83	9.90	10.98	12.10		13.64	6 / 7		
reaction time		interval	7 steps	1.07	1.03	1.03	1.04	1.00	1.03	1.07	1.08	1.12	1.54		3.13	3.07	3.27
wind	1.8 m/s	velocity	5.22	8.54	8.87	8.87	8.79	9.14	8.87	8.54	8.46	8.16	9.10	8.06	8.76	8.93	8.39
<b>FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>			
date	16-Aug-16	time	2.58	3.64	4.68	5.72	6.74	7.76	8.80	9.84	10.88	11.96		13.40	2 / 6		
reaction time	0.146	interval	7 steps	1.06	1.04	1.04	1.02	1.02	1.04	1.04	1.04	1.08	1.44		3.14	3.08	3.16
wind	0.2 m/s	velocity	5.32	8.62	8.79	8.79	8.96	8.96	8.79	8.79	8.79	8.46	9.74	8.21	8.73	8.90	8.68
<b>FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>			
date	28-May-16	time	2.56	3.68	4.70	5.74	6.78	7.82	8.86	9.90	10.98	12.06		13.57	8 / 7		
reaction time		interval	7 steps	1.12	1.02	1.04	1.04	1.04	1.04	1.04	1.08	1.08	1.51		3.18	3.12	3.20
wind	0.7 m/s	velocity	5.36	8.16	8.96	8.79	8.79	8.79	8.79	8.79	8.46	8.46	9.28	8.11	8.62	8.79	8.57
<b>FINAL - 2016 Meeting International Mohammed VI D'Athletisme (Rabat, MAR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>			
date	22-May-16	time	2.54	3.60	4.64	5.66	6.68	7.70	8.74	9.80	10.86	11.94		13.42	5 / 5		
reaction time	0.155	interval	7 steps	1.06	1.04	1.02	1.02	1.02	1.04	1.06	1.06	1.08	1.48		3.12	3.08	3.20
wind	1.4 m/s	velocity	5.40	8.62	8.79	8.96	8.96	8.96	8.79	8.62	8.62	8.46	9.47	8.20	8.79	8.90	8.57
<b>Campbell, Lafranz (JAM) (1997)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	10-Jun-22	time	2.51	3.55	4.59	5.60	6.64	7.66	8.69	9.74	10.79	11.91		13.45	8 / 5		
reaction time		interval	7 steps	1.04	1.04	1.01	1.04	1.02	1.03	1.05	1.05	1.12	1.54		3.09	3.09	3.22
wind	0.0 m/s	velocity	5.47	8.79	8.79	9.05	8.79	8.96	8.87	8.70	8.70	8.16	9.10	8.18	8.87	8.87	8.52
<b>Campbell, Tonie (USA) (1960)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 1988 Olympic Games (Seoul, KOR)</b>														<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>			
date	26-Sep-88	time	2.60	3.66	4.69	5.69	6.69	7.71	8.73	9.78	10.83	11.95		13.38	6 / 3		
reaction time	0.161	interval	7 steps	1.06	1.03	1.00	1.00	1.02	1.02	1.05	1.05	1.12	1.43		3.09	3.04	3.22
wind	1.5 m/s	velocity	5.28	8.62	8.87	9.14	9.14	8.96	8.96	8.70	8.70	8.16	9.80	8.22	8.87	9.02	8.52
<b>Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)</b>														<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>			
date	26-Sep-88	time	2.60	3.65	4.68	5.68	6.70	7.73	8.77	9.81	10.89	11.97		13.47	6 / 2		
reaction time	0.163	interval	7 steps	1.05	1.03	1.00	1.02	1.03	1.04	1.04	1.08	1.08	1.50		3.08	3.09	3.20
wind	0.0 m/s	velocity	5.28	8.70	8.87	9.14	8.96	8.87	8.79	8.79	8.46	8.46	9.35	8.17	8.90	8.87	8.57
<b>Cao Jin (CHN) (1996)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Decathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)</b>														<i>CAA Hurdle Development (2021)</i>			
date	27-Jun-21	time	2.73	3.89	4.99	6.12	7.24	8.37	9.52	10.68	11.86	13.06		14.60	5 / 1		

reaction time	0.185	interval	7 steps	1.16	1.10	1.13	1.12	1.13	1.15	1.16	1.18	1.20	1.54		3.39	3.40	3.54
wind	-0.2 m/s	velocity	5.03	7.88	8.31	8.09	8.16	8.09	7.95	7.88	7.75	7.62	9.10	7.53	8.09	8.06	7.75
<b>Decathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	23-Aug-19	time	2.78	3.90	5.04	6.14	7.29	8.41	9.53	10.71	11.86	13.05		14.61	4 / 1		
reaction time	0.209	interval	7 steps	1.12	1.14	1.10	1.15	1.12	1.12	1.18	1.15	1.19	1.56		3.36	3.39	3.52
wind	?? m/s	velocity	4.94	8.16	8.02	8.31	7.95	8.16	8.16	7.75	7.95	7.68	8.99	7.53	8.16	8.09	7.79
<b>Decathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	11-Jul-19	time	2.72	3.84	4.93	6.02	7.17	8.29	9.46	10.62	11.78	13.00		14.57	5 / 1		
reaction time	0.169	interval	7 steps	1.12	1.09	1.09	1.15	1.12	1.17	1.16	1.16	1.22	1.57		3.30	3.44	3.54
wind	-0.6 m/s	velocity	5.04	8.16	8.39	8.39	7.95	8.16	7.81	7.88	7.88	7.49	8.93	7.55	8.31	7.97	7.75
<b>Capetillo, Dayron (CUB) (1987)</b>																	
<b>Heat 6 - 2009 IAAF World Championships (Berlin, GER)</b>														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>			
date	19-Aug-09	time	2.63	3.67	4.74	5.77	6.79	7.83	8.87	9.93	11.05	12.15		13.61	4 / 4		
reaction time	0.168	interval	7 steps	1.04	1.07	1.03	1.02	1.04	1.04	1.06	1.12	1.10	1.46		3.14	3.10	3.28
wind	0.1 m/s	velocity	5.22	8.79	8.54	8.87	8.96	8.79	8.79	8.62	8.16	8.31	9.60	8.08	8.73	8.85	8.36
<b>Capouch, Tomáš (CZE) (1997)</b>																	
<b>Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)</b>														<i>Fehér (2014) - Final report from the U18 &amp; U20 Czech Republic national championships</i>			
date	28-Jun-14	time	2.86	4.06	5.27	6.49	7.75	8.98	10.21	11.46	12.67	13.91		15.62	2 / 5		
reaction time	0.193	interval		1.20	1.21	1.22	1.26	1.23	1.23	1.25	1.21	1.24	1.71		3.63	3.72	3.70
wind	-4.1 m/s	velocity	4.80	7.62	7.55	7.49	7.25	7.43	7.43	7.31	7.55	7.37	8.20	7.04	7.55	7.37	7.41
<b>Carda, Jan (CZE) (1989)</b>																	
<b>FINAL - 2013 Czech Republic National Championships (Tábor, CZE)</b>														<i>Fehér (2013) - Final report from the men's &amp; women's Czech Republic national championships</i>			
date	15-Jun-13	time	2.66	3.76	4.84	5.91	6.99	8.09	9.23	10.37	11.51	12.69		14.22	2 / 3		
reaction time	0.135	interval		1.10	1.08	1.07	1.08	1.10	1.14	1.14	1.14	1.18	1.53	PB	3.25	3.32	3.46
wind	0.4 m/s	velocity	5.16	8.31	8.46	8.54	8.46	8.31	8.02	8.02	8.02	7.75	9.16	7.74	8.44	8.26	7.92
<b>Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)</b>														<i>Fehér (2013) - Final report from the men's &amp; women's Czech Republic national championships</i>			
date	15-Jun-13	time	2.70	3.83	4.96	6.05	7.17	8.30	9.48	10.68	11.85	13.08		14.64	5 / 3		
reaction time	0.141	interval		1.13	1.13	1.09	1.12	1.13	1.18	1.20	1.17	1.23	1.56		3.35	3.43	3.60
wind	-0.6 m/s	velocity	5.08	8.09	8.09	8.39	8.16	8.09	7.75	7.62	7.81	7.43	8.99	7.51	8.19	7.99	7.62
<b>Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)</b>														<i>Fehér (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>			
date	25-Feb-12	time	2.76	3.90	5.04	6.16	7.40							8.51	3 / 5		
reaction time	0.157	interval		1.14	1.14	1.12	1.24						1.11		3.40		
		velocity	4.97	8.02	8.02	8.16	7.37						8.76	7.05	8.06		
<b>Caristan, Stéphane (FRA) (1964)</b>																	
<b>Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)</b>														<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>			
date	26-Sep-88	time	2.60	3.72	4.76	5.80	6.85	7.89	8.96	10.05	11.13	12.25		13.71	3 / 5		
reaction time	0.150	interval		1.12	1.04	1.04	1.05	1.04	1.07	1.09	1.08	1.12	1.46		3.20	3.16	3.29
wind	0.0 m/s	velocity	5.28	8.16	8.79	8.79	8.70	8.79	8.54	8.39	8.46	8.16	9.60	8.02	8.57	8.68	8.33
<b>FINAL - 1986 European Championships (Stuttgart, FRG)</b>														<i>Hommel (1988) - nsa photosequence 4 - 110m hurdles - stephane caristan (FRA)</i>			
date	30-Aug-86	time	2.59	3.62	4.63	5.62	6.63	7.66	8.66	9.72	10.76	11.86		13.20	3 / 1		
reaction time		interval		1.03	1.01	0.99	1.01	1.03	1.00	1.06	1.04	1.10	1.34	CR / NR	3.03	3.04	3.20
wind	2.0 m/s	velocity	5.30	8.87	9.05	9.23	9.05	8.87	9.14	8.62	8.79	8.31	10.46	8.33	9.05	9.02	8.57
<b>Semi-Final 1 - 1986 European Championships (Stuttgart, FRG)</b>														<i>Hommel (1988) - nsa photosequence 4 - 110m hurdles - stephane caristan (FRA)</i>			
date	29-Aug-86	time	2.59	3.59	4.61	5.65	6.67	7.69	8.71	9.75	10.81	11.85		13.28	1 / 1		
reaction time		interval		1.00	1.02	1.04	1.02	1.02	1.02	1.04	1.06	1.04	1.43	CR / NR	3.06	3.06	3.14
wind	0.9 m/s	velocity	5.30	9.14	8.96	8.79	8.96	8.96	8.96	8.79	8.62	8.79	9.80	8.28	8.96	8.96	8.73
<b>FINAL - 1986 French National Indoor Championships (Lievin, FRA)</b>														<i>Aubert (1986) - indoor - video - haies, etude des performances</i>			
date	26-Jan-86	time	2.54	3.61	4.64	5.65	6.66							7.55	1 / 1		
reaction time		interval		1.07	1.03	1.01	1.01						0.89	NR	3.11		
		velocity	5.40	8.54	8.87	9.05	9.05						10.92	7.95	8.82		
<b>Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)</b>														<i>Aubert (1986) - indoor - video - haies, etude des performances</i>			
date	26-Jan-86	time	2.63	3.68	4.72	5.73	6.76							7.65	1 / 1		
reaction time		interval		1.05	1.04	1.01	1.03						0.89		3.10		
		velocity	5.22	8.70	8.79	9.05	8.87						10.92	7.84	8.85		
<b>Heat ? - 1986 French National Indoor Championships (Lievin, FRA)</b>														<i>Aubert (1986) - indoor - video - haies, etude des performances</i>			
date	25-Jan-86	time	2.58	3.68	4.72	5.78	6.81							7.69	1 / 1		
reaction time		interval		1.10	1.04	1.06	1.03						0.88		3.20		
		velocity	5.32	8.31	8.79	8.62	8.87						11.05	7.80	8.57		
<b>Carter, Deuce (JAM) (1990)</b>																	
<b>FINAL - 2016 Jamaican National Championships (Kingston, JAM) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>			
date	02-Jul-16	time	2.46	3.53	4.51	5.49	6.49	7.47	8.49	9.54	10.58	11.64		13.21	5 / 2		

reaction time	interval	7 steps	1.07	0.98	0.98	1.00	0.98	1.02	1.05	1.04	1.06	1.57			3.03	3.00	3.15	
wind	0.4 m/s	velocity	5.58	8.54	9.33	9.33	9.14	9.33	8.96	8.70	8.79	8.62	8.93	8.33	9.05	9.14	8.70	
<b>FINAL - 2016 Racers Grand Prix (Kingston, JAM) (TV Analysis)</b>													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	11-Jun-16	time	2.46	3.50	4.50	5.50	6.48	7.48	8.50	9.56	10.58	11.66	13.20	2 / 2				
reaction time	interval	7 steps	1.04	1.00	1.00	0.98	1.00	1.02	1.06	1.02	1.08	1.54	<b>PB</b>		3.04	3.00	3.16	
wind	0.2 m/s	velocity	5.58	8.79	9.14	9.14	9.33	9.14	8.96	8.62	8.96	8.46	9.10	8.33	9.02	9.14	8.68	
<b>Casañas, Alejandro (CUB) (1954)</b>																		
<b>FINAL - 1976 Olympic Games (Montreal, CAN)</b>																		
<i>Ewen (1977) - montreal 1976</i>																		
date	28-Jul-76	time	2.6	3.6	4.7	5.7	6.8	7.8	8.8	9.8	10.9	11.9	13.33	7 / 2				
reaction time	interval		1.00	1.10	1.00	1.10	1.00	1.00	1.00	1.10	1.00	1.43	<b>PB</b>		3.10	3.10	3.10	
wind	0.0 m/s	velocity	5.28	9.14	8.31	9.14	8.31	9.14	9.14	9.14	8.31	9.14	9.80	8.25	8.85	8.85	8.85	
<b>Heat 2 - 1976 Olympic Games (Montreal, CAN)</b>																		
<i>Lamare (1976) - les jeux de la XXI olympia, Montreal 1976</i>																		
date	26-Jul-76	time	2.3		5.5	6.6							13.73	1 / 2				
reaction time	interval				3.18	1.08									3.18			
wind	0.0 m/s	velocity	5.97		8.62	8.46							8.01		8.62			
<b>Chan Chung Wang (HKG) (1991)</b>																		
<b>FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)</b>																		
<i>CAA Hurdle Development (2019)</i>																		
date	07-Jun-19	time	2.70	3.78	4.85	5.91	6.96	8.02	9.07	10.16	11.31	12.49	14.07	7 / 6				
reaction time	0.158	interval		1.08	1.07	1.06	1.05	1.06	1.05	1.09	1.15	1.18	1.58		3.21	3.16	3.42	
wind	1.2 m/s	velocity	5.08	8.46	8.54	8.62	8.70	8.62	8.70	8.39	7.95	7.75	8.87	7.82	8.54	8.68	8.02	
<b>FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)</b>																		
<i>CAA Hurdle Development (2019)</i>																		
date	04-Jun-19	time	2.65	3.73	4.78	5.85	6.89	7.94	9.04	10.11	11.20	12.29	13.75	7 / 3				
reaction time	0.149	interval		1.08	1.05	1.07	1.04	1.05	1.10	1.07	1.09	1.09	1.46		3.20	3.19	3.25	
wind	-0.3 m/s	velocity	5.18	8.46	8.70	8.54	8.79	8.70	8.31	8.54	8.39	8.39	9.60	8.00	8.57	8.60	8.44	
<b>Charles, Jordan (USA) (1995)</b>																		
<b>FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)</b>																		
<i>CAA Hurdle Development (2020)</i>																		
date	01-Feb-20	time	2.60	3.70	4.76	5.80	6.85						7.78	5 / 3				
reaction time	interval	7 steps	1.10	1.06	1.04	1.05						0.93	<b>PB</b>		3.20			
	velocity		5.28	8.31	8.62	8.79	8.70					10.45	7.71		8.57			
<b>Chaucoy, Eric (FRA) (1963)</b>																		
<b>FINAL - 1986 French National Indoor Championships (Lieviv, FRA)</b>																		
<i>Aubert (1986) - indoor - video - haies, etude des performances</i>																		
date	26-Jan-86	time	2.61	3.71	4.78	5.86	6.93						7.89	1 / 3				
reaction time	interval		1.10	1.07	1.08	1.07						0.96			3.25			
	velocity		5.26	8.31	8.54	8.46	8.54					10.13	7.60		8.44			
<b>Semi-Final ? - 1986 French National Indoor Championships (Lieviv, FRA)</b>																		
<i>Aubert (1986) - indoor - video - haies, etude des performances</i>																		
date	26-Jan-86	time	2.61	3.72	4.78	5.84	6.93						7.87	1 / 3				
reaction time	interval		1.11	1.06	1.06	1.09						0.94			3.23			
	velocity		5.26	8.23	8.62	8.62	8.39					10.34	7.62		8.49			
<b>Chen Jie (CHN) (2002)</b>																		
<b>Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)</b>																		
<i>CAA Hurdle Development (2021)</i>																		
date	25-Jun-21	time	2.72	3.81	4.93	6.04	7.15	8.27	9.40	10.53	11.68	12.81	14.31	8 / 5				
reaction time	0.151	interval		1.09	1.12	1.11	1.11	1.12	1.13	1.13	1.15	1.13	1.50		3.32	3.36	3.41	
wind	-1.0 m/s	velocity	5.04	8.39	8.16	8.23	8.23	8.16	8.09	8.09	7.95	8.09	9.35	7.69	8.26	8.16	8.04	
<b>FINAL - 2021 East China District Meeting (Zhaoqing, CHN)</b>																		
<i>CAA Hurdle Development (2021)</i>																		
date	24-Apr-21	time	2.68	3.76	4.89	5.97	7.10	8.19	9.38	10.56	11.76	12.96	14.57	8 / 6				
reaction time	0.171	interval		1.08	1.13	1.08	1.13	1.09	1.19	1.18	1.20	1.20	1.61		3.29	3.41	3.58	
wind	-0.3 m/s	velocity	5.12	8.46	8.09	8.46	8.09	8.39	7.68	7.75	7.62	7.62	8.71	7.55	8.33	8.04	7.66	
<b>Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)</b>																		
<i>CAA Hurdle Development (2021)</i>																		
date	24-Apr-21	time	2.73	3.85	4.94	6.04	7.16	8.26	9.38	10.50	11.60	12.75	14.22	7 / 4				
reaction time	0.168	interval		1.12	1.09	1.10	1.12	1.10	1.12	1.12	1.10	1.15	1.47	<b>PB</b>	3.31	3.34	3.37	
wind	-1.1 m/s	velocity	5.03	8.16	8.39	8.31	8.16	8.31	8.16	8.16	8.31	7.95	9.54	7.74	8.28	8.21	8.14	
<b>Chaverra, Joan Camilo (PUR) (1995)</b>																		
<b>FINAL - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)</b>																		
<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																		
date	03-Sep-20	time	2.62	3.67	4.78	5.79	6.86	7.92	9.00	10.17	11.29	12.42	14.08	8 / 7				
reaction time	interval	7 steps	1.05	1.11	1.01	1.07	1.06	1.08	1.17	1.12	1.13	1.66			3.17	3.21	3.42	
wind	-0.3 m/s	velocity	5.24	8.70	8.23	9.05	8.54	8.62	8.46	7.81	8.16	8.09	8.45	7.81	8.65	8.54	8.02	
<b>Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)</b>																		
<i>CAA Hurdle Development (2019)</i>																		
date	02-Oct-19	time	2.60	3.66	4.71	5.74	6.77	7.81	8.85	9.93	11.06	12.19	13.76	3 / 8				
reaction time	0.164	interval	7 steps	1.06	1.05	1.03	1.03	1.04	1.04	1.08	1.13	1.13	1.57		3.14	3.11	3.34	
wind	0.9 m/s	velocity	5.28	8.62	8.70	8.87	8.87	8.79	8.79	8.46	8.09	8.09	8.93	7.99	8.73	8.82	8.21	
<b>Chen Junyi (CHN) (1999)</b>																		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10









<b>FINAL - 2016 Meeting International Mohammed VI D'Athletisme (Rabat, MAR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>						
date	22-May-16	time	2.54	3.66	4.76	5.80								dnf	8 / --					
reaction time	0.147	interval	7 steps	1.12	1.10	1.04													3.26	
wind	1.4 m/s	velocity	5.40	8.16	8.31	8.79													8.41	
<b>Cooper, Jermaine (USA) (1980)</b>																				
<b>Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)</b>														<i>USATF Men's Hurdle Development (2007)</i>						
date	24-Jun-07	time	2.60	3.67	4.74	5.79	6.84	7.89	8.98	10.06	11.16	12.26			13.75	2 / 6				
reaction time		interval	1.07	1.07	1.05	1.05	1.05	1.09	1.08	1.10	1.10	1.49						3.19	3.19	3.28
wind	-0.6 m/s	velocity	5.28	8.54	8.54	8.70	8.70	8.70	8.39	8.46	8.31	8.31	9.41	8.00				8.60	8.60	8.36
<b>Heat 1 - 2007 USATF National Championships (Indianapolis, IN)</b>														<i>USATF Men's Hurdle Development (2007)</i>						
date	23-Jun-07	time	2.58	3.67	4.74	5.82	6.87	7.92	8.99	10.04	11.18	12.27			13.75	2 / 5				
reaction time		interval	1.09	1.07	1.08	1.05	1.05	1.07	1.05	1.14	1.09	1.48						3.24	3.17	3.28
wind	0.1 m/s	velocity	5.32	8.39	8.54	8.46	8.70	8.70	8.54	8.70	8.02	8.39	9.47	8.00				8.46	8.65	8.36
<b>Cowling, Larry (USA) (1960)</b>																				
<b>FINAL - 1981 USSR vs. USA (Leningrad, URS)</b>														<i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>						
date	10-Jul-81	time	2.48	3.59	4.62	5.65	6.68	7.75	8.82	9.94	11.06	12.21			13.53	1 / 2				
reaction time		interval		1.11	1.03	1.03	1.07	1.07	1.12	1.12	1.15	1.32						3.17	3.17	3.39
wind	2.8 m/s	velocity	5.53	8.23	8.87	8.87	8.87	8.54	8.54	8.16	8.16	7.95	10.62	8.13				8.65	8.65	8.09
<b>Craddock, Kevin (USA) (1987)</b>																				
<b>FINAL - 2012 Golden Grand Prix (Shanghai, CHN) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>						
date	19-May-12	time	2.44	3.52	4.54	5.56	6.58	7.62	8.68	9.76	10.84	11.94			13.51	9 / 6				
reaction time	0.167	interval	7 steps	1.08	1.02	1.02	1.02	1.04	1.06	1.08	1.08	1.10	1.57					3.12	3.12	3.26
wind	0.4 m/s	velocity	5.62	8.46	8.96	8.96	8.96	8.79	8.62	8.46	8.46	8.31	8.93	8.14				8.79	8.79	8.41
<b>FINAL - 2003 USATF National Junior Championships (Indianapolis, IN) (99cm)</b>														<i>USATF Women's Sprint Development (2003)</i>						
date	22-Jun-03	time	2.60	3.72	4.86	5.94	7.07	8.19	9.31	10.44	11.56	12.73			14.36	6 / 5				
reaction time		interval		1.12	1.14	1.08	1.13	1.12	1.12	1.13	1.12	1.17	1.63					3.34	3.37	3.42
wind	-0.4 m/s	velocity	5.28	8.16	8.02	8.46	8.09	8.16	8.16	8.09	8.16	7.81	8.60	7.66				8.21	8.14	8.02
<b>Crear, Mark (USA) (1968)</b>																				
<b>FINAL - 2003 USATF National Championships (Palo Alto, CA)</b>														<i>USATF Women's Sprint Development (2003)</i>						
date	21-Jun-03	time	2.44	3.54	4.59	5.66	6.69	7.70	8.73	9.78	10.83	11.93			13.68	8 / 6				
reaction time		interval		1.10	1.05	1.07	1.03	1.01	1.03	1.05	1.05	1.10	1.75					3.22	3.07	3.20
wind	-2.4 m/s	velocity	5.62	8.31	8.70	8.54	8.87	9.05	8.87	8.70	8.70	8.31	8.01	8.04				8.52	8.93	8.57
<b>FINAL - 1997 IAAF World Championships (Athens, GRE)</b>														<i>Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>						
date	07-Aug-97	time	2.60	3.64	4.65	5.66	6.66	7.76	8.78	9.86	10.92	12.06			13.55	8 / 7				
reaction time	0.134	interval		1.04	1.01	1.01	1.00	1.10	1.02	1.08	1.06	1.14	1.49					3.06	3.12	3.28
wind	0.0 m/s	velocity	5.28	8.79	9.05	9.05	9.14	8.31	8.96	8.46	8.62	8.02	9.41	8.12				8.96	8.79	8.36
<b>FINAL - 1996 Olympic Games (Atlanta, GA)</b>														<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>						
date	26-Jul-96	time	2.35	3.38	4.37	5.39	6.39	7.41	8.46	9.47	10.51	11.56			13.09	8 / 2				
reaction time	0.124	interval		1.03	0.99	1.02	1.00	1.02	1.05	1.01	1.04	1.05	1.53					3.04	3.07	3.10
wind	0.8 m/s	velocity	5.84	8.87	9.23	8.96	9.14	8.96	8.70	9.05	8.79	8.70	9.16	8.40				9.02	8.93	8.85
<b>FINAL - 1996 USA Olympic Trials (Atlanta, GA)</b>														<i>McNichols (2000) - Hurdle technique study through video analysis</i>						
date	23-Jun-96	time	2.38	3.40	4.73	5.40	6.42	7.39	8.42	9.38	10.46	11.52			13.05	4 / 2				
reaction time		interval		1.02	1.33	0.67	1.02	0.97	1.03	0.96	1.08	1.06	1.53					3.02	3.02	3.10
wind	0.9 m/s	velocity	5.76	8.96	6.87	13.64	8.96	9.42	8.87	9.52	8.46	8.62	9.16	8.43				9.08	9.08	8.85
<b>Crews, Jerome (GER) (1977)</b>																				
<b>FINAL - 2001 ISTAF (Berlin, GER)</b>														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>						
date	31-Aug-09	time	2.66	3.74	4.80	5.85	6.91	7.98	9.04	10.14	11.24	12.35			13.70	7 / 6				
reaction time	0.180	interval		1.08	1.06	1.05	1.06	1.07	1.06	1.10	1.10	1.11	1.35					3.19	3.19	3.31
wind	1.0 m/s	velocity	5.16	8.46	8.62	8.70	8.62	8.54	8.62	8.31	8.31	8.23	10.39	8.03				8.60	8.60	8.28
<b>Crittenden, Freddie (USA) (1994)</b>																				
<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>						
date	17-Sep-23	time	2.39	3.45	4.46	5.46	6.47	7.47	8.47	9.49	10.54	11.60			13.15	4 / 6				
reaction time	0.146	interval		1.06	1.01	1.00	1.01	1.00	1.00	1.02	1.05	1.06	1.55					3.07	3.01	3.13
wind	0.9 m/s	velocity	5.74	8.62	9.05	9.14	9.05	9.14	8.96	8.70	8.62	9.05	8.37					8.93	9.11	8.76
<b>FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>						
date	02-Sep-23	time	2.42	3.48	4.49	5.49	6.50	7.51	8.53	9.56	10.61	11.66			13.26	7 / 6				
reaction time	0.148	interval		1.06	1.01	1.00	1.01	1.01	1.02	1.03	1.05	1.05	1.60					3.07	3.04	3.13
wind	0.0 m/s	velocity	5.67	8.62	9.05	9.14	9.05	9.05	8.96	8.87	8.70	8.70	8.76	8.30				8.93	9.02	8.76
<b>FINAL - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>						
date	21-Aug-23	time	2.52	3.56	4.58	5.58	6.60	7.60	8.62	9.66	10.70	11.74			13.16	4 / 4				
reaction time	0.140	interval		1.04	1.02	1.00	1.02	1.00	1.02	1.04	1.04	1.04	1.42					3.06	3.04	3.12

wind	0.0 m/s	velocity	5.44	8.79	8.96	9.14	8.96	9.14	8.96	8.79	8.79	8.79	9.87	8.36	8.96	9.02	8.79	
<b>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	21-Aug-23	time	2.54	3.58	4.58	5.58	6.61	7.60	8.63	9.68	10.68	11.73		13.17	6 / 1			
reaction time	0.156	interval	1.04	1.03	1.00	1.00	1.03	0.99	1.03	1.05	1.00	1.05	1.44		3.04	3.05	3.10	
wind	-0.1 m/s	velocity	5.40	8.79	9.14	9.14	8.87	9.23	8.87	8.70	9.14	8.70	9.74	8.35	9.02	8.99	8.85	
<b>Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	20-Aug-23	time	2.56	3.60	4.63	5.65	6.66	7.72	8.75	9.80	10.86	11.95		13.40	3 / 2			
reaction time	0.138	interval	1.04	1.03	1.02	1.01	1.06	1.03	1.05	1.06	1.09	1.45			3.09	3.10	3.20	
wind	0.0 m/s	velocity	5.36	8.79	8.87	8.96	9.05	8.62	8.87	8.70	8.62	8.39	9.67	8.21	8.87	8.85	8.57	
<b>FINAL - 2023 London Athletics Meet (London, GBR)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	23-Jul-23	time	2.39	3.44	4.47	5.50	6.53	7.61	8.78	10.04	11.35	12.67		14.83	2 / 7			
reaction time	0.132	interval	1.05	1.03	1.03	1.03	1.08	1.17	1.26	1.31	1.32	2.16			3.11	3.28	3.89	
wind	1.3 m/s	velocity	5.74	8.70	8.87	8.87	8.87	8.46	7.81	7.25	6.98	6.92	6.49	7.42	8.82	8.36	7.05	
<b>FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	09-Jul-23	time	2.53	3.57	4.60	5.60	6.60	7.61	8.63	9.66	10.73	11.77		13.23	7 / 3			
reaction time	0.136	interval	1.04	1.03	1.00	1.00	1.01	1.02	1.03	1.07	1.04	1.46			3.07	3.03	3.14	
wind	-0.2 m/s	velocity	5.42	8.79	8.87	9.14	9.14	9.05	8.96	8.87	8.54	8.79	9.60	8.31	8.93	9.05	8.73	
<b>FINAL - 2023 Meeting de Paris (Paris, FRA)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	09-Jun-23	time	2.37	3.43	4.46	5.48	6.49	7.52	8.55	9.58	10.62	11.68		13.26	2 / 6			
reaction time	0.136	interval	1.06	1.03	1.02	1.01	1.03	1.03	1.03	1.04	1.04	1.06	1.58		3.11	3.07	3.13	
wind	-0.5 m/s	velocity	5.79	8.62	8.87	8.96	9.05	8.87	8.87	8.87	8.79	8.62	8.87	8.30	8.82	8.93	8.76	
<b>Heat 2 - 2023 Meeting de Paris (Paris, FRA)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	09-Jun-23	time	2.36	3.43	4.46	5.47	6.48	7.50	8.54	9.59	10.66	11.73		13.34	7 / 4			
reaction time	0.136	interval	1.07	1.03	1.01	1.01	1.02	1.04	1.05	1.07	1.07	1.61			3.11	3.07	3.19	
wind	-0.6 m/s	velocity	5.81	8.54	8.87	9.05	9.05	8.96	8.79	8.70	8.54	8.54	8.71	8.25	8.82	8.93	8.60	
<b>FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	04-Jun-23	time	2.60	3.65	4.70	5.72	6.74	7.76	8.78	9.80	10.86	11.95		13.33	4 / 4			
reaction time	0.145	interval	1.05	1.05	1.02	1.02	1.02	1.02	1.02	1.06	1.09	1.38			3.12	3.06	3.17	
wind	0.4 m/s	velocity	5.28	8.70	8.70	8.96	8.96	8.96	8.96	8.96	8.62	8.39	10.16	8.25	8.79	8.96	8.65	
<b>FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	02-Jun-23	time	2.54	3.57	4.58	5.60	6.62	7.66	8.68	9.74	10.80	11.90		13.38	4 / 6			
reaction time	0.132	interval	1.03	1.01	1.02	1.02	1.04	1.02	1.06	1.06	1.10	1.48			3.06	3.08	3.22	
wind	-0.2 m/s	velocity	5.40	8.87	9.05	8.96	8.96	8.79	8.96	8.62	8.62	8.31	9.47	8.22	8.96	8.90	8.52	
<b>FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	28-May-23	time	2.39	3.44	4.49	5.52	6.55	7.57	8.62	9.67	10.73	11.80		13.43	7 / 5			
reaction time	0.166	interval	1.05	1.05	1.03	1.03	1.02	1.05	1.05	1.06	1.07	1.63			3.13	3.10	3.18	
wind	-1.3 m/s	velocity	5.74	8.70	8.70	8.87	8.87	8.96	8.70	8.70	8.62	8.54	8.60	8.19	8.76	8.85	8.62	
<b>FINAL - 2023 Adidas Atlanta City Games (Atlanta, GA) (street) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	05-May-23	time	2.62	3.68	4.72	5.75	6.75	7.78	8.80	9.85	10.93	12.01		13.43	5 / 5			
reaction time	0.159	interval	1.06	1.04	1.03	1.00	1.03	1.02	1.05	1.08	1.08	1.42			3.13	3.05	3.21	
wind	0.0 m/s	velocity	5.24	8.62	8.79	8.87	9.14	8.87	8.96	8.70	8.46	8.46	9.87	8.19	8.76	8.99	8.54	
<b>FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	04-Sep-22	time	2.48	3.50	4.50	5.50	6.50	7.52	8.52	9.54	10.58	11.62		13.07	5 / 2			
reaction time	0.142	interval	1.02	1.00	1.00	1.00	1.02	1.00	1.02	1.04	1.04	1.45			3.02	3.02	3.10	
wind	0.6 m/s	velocity	5.53	8.96	9.14	9.14	9.14	8.96	9.14	8.96	8.79	8.79	9.67	8.42	9.08	9.08	8.85	
<b>FINAL - 2022 NACAC Championships (Freeport, BAH) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	20-Aug-22	time	2.43	3.45	4.44	5.43	6.40	7.40	8.40	9.43	10.47	11.52		13.00	4 / 1			
reaction time		interval	1.02	0.99	0.99	0.97	1.00	1.00	1.00	1.03	1.04	1.05	1.48	PB	3.00	2.97	3.12	
wind	0.3 m/s	velocity	5.65	8.96	9.23	9.23	9.42	9.14	9.14	8.87	8.79	8.70	9.47	8.46	9.14	9.23	8.79	
<b>FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	26-Jun-22	time	2.53	3.53	4.55	5.57	6.57	7.57	8.57	9.61	10.64	11.68		13.14	2 / 5			
reaction time		interval	1.00	1.02	1.02	1.00	1.00	1.00	1.00	1.04	1.03	1.04	1.46	PB	3.04	3.00	3.11	
wind	1.2 m/s	velocity	5.42	9.14	8.96	8.96	9.14	9.14	9.14	8.79	8.87	8.79	9.60	8.37	9.02	9.14	8.82	
<b>Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)</b>														<i>USATF (2022) - Results powered by Karmarush.com</i>				
date	26-Jun-22	time	2.50	3.57	4.60	5.64	6.70	7.69	8.70	9.77	10.78	11.86		13.35	4 / 4			
reaction time		interval	1.07	1.03	1.04	1.06	0.99	1.01	1.07	1.01	1.08	1.49			3.14	3.06	3.16	
wind	0.1 m/s	velocity	5.49	8.54	8.87	8.79	8.62	9.23	9.05	8.54	9.05	8.46	9.41	8.24	8.73	8.96	8.68	
<b>FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)</b>														<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>				
date	06-Feb-22	time	2.57	3.62	4.67	5.69	6.71							7.71	2 / 5			
reaction time	0.169	interval	1.05	1.05	1.02	1.02							1.00		3.12			

velocity 5.34 8.70 8.70 8.96 8.96 9.72 7.78 8.79

<b>Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	26-Jun-21	time	2.56	3.60	4.63	5.70	6.74	7.77	8.80	9.90	10.99	12.07	13.63	2 / <del>7</del> 6			
reaction time	0.175	interval	1.04	1.03	1.07	1.04	1.03	1.03	1.10	1.09	1.08	1.56			3.14	3.10	3.27
wind	1.2 m/s	velocity	5.36	8.79	8.87	8.54	8.79	8.87	8.87	8.31	8.39	8.46	8.99	8.07	8.73	8.85	8.39
<b>FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>			
date	17-Sep-20	time	2.48	3.52	4.56	5.58	6.62	7.64	8.68	9.72	10.76	11.82	13.31	6 / 3			
reaction time	0.139	interval	1.03	1.04	1.02	1.04	1.02	1.04	1.04	1.04	1.06	1.49			3.10	3.10	3.14
wind	0.1 m/s	velocity	5.53	8.79	8.79	8.96	8.79	8.96	8.79	8.79	8.79	8.62	9.41	8.26	8.85	8.85	8.73
<b>FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>			
date	19-Aug-20	time	2.47	3.50	4.52	5.54	6.57		8.64	9.68	10.74	11.78	13.30	8 / 3			
reaction time	0.146	interval	1.03	1.02	1.02	1.03		2.07	1.04	1.06	1.04	1.52			3.07	3.10	3.14
wind	0.3 m/s	velocity	5.55	8.87	8.96	8.96	8.87		8.83	8.79	8.62	8.79	9.22	8.27	8.93	8.85	8.73
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	10-Sep-19	time	2.60	3.63	4.66	5.71	6.73	7.77	8.77	9.77	10.88	11.90	13.43	4 / 3			
reaction time	0.161	interval	1.03	1.03	1.05	1.02	1.04	1.00	1.00	1.11	1.02	1.53			3.11	3.06	3.13
wind	0.1 m/s	velocity	5.28	8.87	8.87	8.70	8.96	8.79	9.14	9.14	8.23	8.96	9.16	8.19	8.82	8.96	8.76
<b>FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	06-Sep-19	time	2.52	3.56	4.60	5.62	6.62	7.64	8.68	9.70	10.74	11.80	13.35	6 / 4			
reaction time	0.144	interval	1.04	1.04	1.02	1.00	1.02	1.04	1.02	1.04	1.06	1.55			3.10	3.06	3.12
wind	0.0 m/s	velocity	5.44	8.79	8.79	8.96	9.14	8.96	8.79	8.96	8.79	8.62	9.05	8.24	8.85	8.96	8.79
<b>FINAL - 2019 ISTAF (Berlin, GER) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	01-Sep-19	time	2.53	3.53	4.63	5.65	6.67	7.68	8.73	9.80	10.84	11.88	13.38	6 / 4			
reaction time	0.137	interval	1.00	1.10	1.02	1.02	1.01	1.05	1.07	1.04	1.04	1.50			3.12	3.08	3.15
wind	0.8 m/s	velocity	5.42	9.14	8.31	8.96	8.96	9.05	8.70	8.54	8.79	8.79	9.35	8.22	8.79	8.90	8.70
<b>FINAL - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	24-Aug-19	time	2.52	3.54	4.56	5.56	6.56	7.58	8.58	9.62	10.66	11.70	13.17	1 / 3			
reaction time	0.150	interval	1.02	1.02	1.00	1.00	1.02	1.00	1.04	1.04	1.04	1.47	PB		3.04	3.02	3.12
wind	0.8 m/s	velocity	5.44	8.96	8.96	9.14	9.14	8.96	9.14	8.79	8.79	8.79	9.54	8.35	9.02	9.08	8.79
<b>FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	18-Aug-19	time	2.54	3.58	4.62	5.65	6.63	7.65	8.67	9.69	10.72	11.78	13.31	4 / 2			
reaction time	0.116	interval	1.04	1.04	1.03	0.98	1.02	1.02	1.02	1.03	1.06	1.53			3.11	3.02	3.11
wind	-0.2 m/s	velocity	5.40	8.79	8.79	8.87	9.33	8.96	8.96	8.96	8.87	8.62	9.16	8.26	8.82	9.08	8.82
<b>FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	10-Aug-19	time	2.63	3.67	4.68	5.70	6.70	7.72	8.76	9.79	10.84	11.89	13.32	6 / 2			
reaction time	0.140	interval	1.04	1.01	1.02	1.00	1.02	1.04	1.03	1.05	1.05	1.43			3.07	3.06	3.13
wind	1.8 m/s	velocity	5.22	8.79	9.05	8.96	9.14	8.96	8.79	8.87	8.70	8.70	9.80	8.26	8.93	8.96	8.76
<b>FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	28-Jul-19	time	2.60	3.67	4.70	5.70	6.73	7.73	8.74	9.77	10.84	11.88	13.39	6 / 4			
reaction time		interval	1.07	1.03	1.00	1.03	1.00	1.01	1.03	1.07	1.04	1.51			3.10	3.04	3.14
wind	-0.8 m/s	velocity	5.28	8.54	8.87	9.14	8.87	9.14	9.05	8.87	8.54	8.79	9.28	8.22	8.85	9.02	8.73
<b>FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	30-Jun-19	time	2.60	3.63	4.66	5.66	6.70	7.73	8.78	9.82	10.85	11.92	13.38	8 / 7			
reaction time	0.220	interval	1.03	1.03	1.00	1.04	1.03	1.05	1.04	1.03	1.07	1.46			3.06	3.12	3.14
wind	0.3 m/s	velocity	5.28	8.87	8.87	9.14	8.79	8.87	8.70	8.79	8.87	8.54	9.60	8.22	8.96	8.79	8.73
<b>FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	21-May-19	time	2.55	3.59	4.64	5.69	6.71	7.74	8.78	9.83	10.88	11.96	13.37	9 / 3			
reaction time	0.137	interval	1.04	1.05	1.05	1.02	1.03	1.04	1.05	1.05	1.08	1.41			3.14	3.09	3.18
wind	0.1 m/s	velocity	5.38	8.79	8.70	8.70	8.96	8.87	8.79	8.70	8.70	8.46	9.94	8.23	8.73	8.87	8.62
<b>FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	18-May-19	time	2.58	3.64	4.68	5.70	6.72	7.76	8.78	9.82	10.86	11.94	13.36	8 / 5			
reaction time	0.151	interval	1.06	1.04	1.02	1.02	1.04	1.02	1.04	1.04	1.08	1.42			3.12	3.08	3.16
wind	0.7 m/s	velocity	5.32	8.62	8.79	8.96	8.96	8.79	8.96	8.79	8.79	8.46	9.87	8.23	8.79	8.90	8.68
<b>FINAL - 2019 Kinami Memorial (Osaka, JPN)</b>														<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>			
date	06-May-19	time	2.58	3.62	4.65	5.67	6.70	7.72	8.75	9.81	10.86	11.95	13.38	4 / 1			
reaction time		interval	1.04	1.03	1.02	1.03	1.02	1.03	1.06	1.05	1.09	1.43			3.09	3.08	3.20
wind	0.3 m/s	velocity	5.32	8.79	8.87	8.96	8.87	8.96	8.87	8.62	8.70	8.39	9.80	8.22	8.87	8.90	8.57
<b>FINAL - 2019 PSD Bank Meeting (Düsseldorf, GER) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	20-Feb-19	time	2.42	3.44	4.48	5.52	6.54						7.60	5 / 3			
reaction time	0.156	interval	1.02	1.04	1.04	1.02							1.06		3.10		



reaction time	0.115	interval	7 steps	1.03	1.03	1.00	1.02	1.02	1.03	1.03	1.10	1.04	1.48			3.06	3.07	3.17
wind	-0.5 m/s	velocity	5.49	8.87	8.87	9.14	8.96	8.96	8.87	8.87	8.31	8.79	9.47	8.28		8.96	8.93	8.65
<b>FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	26-Jun-22	time	2.47	3.47	4.52	5.51	6.52	7.54	8.57	9.57	10.61	11.68		13.08	5 / 2			
reaction time		interval	7 steps	1.00	1.05	0.99	1.01	1.02	1.03	1.00	1.04	1.07	1.40			3.04	3.06	3.11
wind	1.2 m/s	velocity	5.55	9.14	8.70	9.23	9.05	8.96	8.87	9.14	8.79	8.54	10.01	8.41		9.02	8.96	8.82
<b>Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)</b>														<i>USATF (2022) - Results powered by Karmarush.com</i>				
date	26-Jun-22	time	2.43	3.46	4.56	5.45	6.46	7.52	8.53	9.55	10.57	11.63		13.09	6 / 1			
reaction time		interval	7 steps	1.03	1.10	0.89	1.01	1.06	1.01	1.02	1.02	1.06	1.46			3.02	3.08	3.10
wind	0.1 m/s	velocity	5.65	8.87	8.31	10.27	9.05	8.62	9.05	8.96	8.96	8.62	9.60	8.40		9.08	8.90	8.85
<b>FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	10-Jun-22	time	2.44	3.45	4.44	5.42	6.40	7.44	8.44	9.46	10.51	11.56		13.00	5 / 1			
reaction time		interval	7 steps	1.01	0.99	0.98	0.98	1.04	1.00	1.02	1.05	1.05	1.44	PB		2.98	3.02	3.12
wind	0.0 m/s	velocity	5.62	9.05	9.23	9.33	9.33	8.79	9.14	8.96	8.70	8.70	9.74	8.46		9.20	9.08	8.79
<b>FINAL - 2022 NCAA East Region Preliminary (Bloomington, IN) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	27-May-22	time	2.50	3.53	4.53	5.53	6.53	7.53	8.54	9.56	10.61	11.66		13.07	5 / 1			
reaction time		interval	7 steps	1.03	1.00	1.00	1.00	1.00	1.01	1.02	1.05	1.05	1.41	PB		3.03	3.01	3.12
wind	-1.5 m/s	velocity	5.49	8.87	9.14	9.14	9.14	9.14	9.05	8.96	8.70	8.70	9.94	8.42		9.05	9.11	8.79
<b>FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)</b>														<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>				
date	06-Feb-22	time	2.48	3.50	4.51	5.51	6.55							7.47	4 / 2			
reaction time	0.189	interval	7 steps	1.02	1.01	1.00	1.04						0.92			3.03		
wind		velocity	5.53	8.96	9.05	9.14	8.79						10.57	8.03		9.05		
<b>FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	26-Jun-21	time	2.43	3.47	4.47	5.47	6.47	7.49	8.52	9.56	10.62	11.70		13.21	3 / 4			
reaction time	0.165	interval	7 steps	1.04	1.00	1.00	1.00	1.02	1.03	1.04	1.06	1.08	1.51	=PB		3.04	3.05	3.18
wind	0.4 m/s	velocity	5.65	8.79	9.14	9.14	9.14	8.96	8.87	8.79	8.62	8.46	9.28	8.33		9.02	8.99	8.62
<b>Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	26-Jun-21	time	2.46	3.48	4.49	5.47	6.48	7.52	8.56	9.59	10.66	11.72		13.21	6 / 2			
reaction time	0.169	interval	7 steps	1.02	1.01	0.98	1.01	1.04	1.04	1.03	1.07	1.06	1.49	PB		3.01	3.09	3.16
wind	1.8 m/s	velocity	5.58	8.96	9.05	9.33	9.05	8.79	8.79	8.87	8.54	8.62	9.41	8.33		9.11	8.87	8.68
<b>Heat 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	25-Jun-21	time	2.43	3.46	4.50	5.50	6.50	7.50	8.56	9.60	10.66	11.73		13.23	3 / 2			
reaction time	0.162	interval	7 steps	1.03	1.04	1.00	1.00	1.00	1.06	1.04	1.06	1.07	1.50	PB		3.07	3.06	3.17
wind	1.5 m/s	velocity	5.65	8.87	8.79	9.14	9.14	9.14	8.62	8.79	8.62	8.54	9.35	8.31		8.93	8.96	8.65
<b>FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	28-Jul-19	time	2.51	3.57	4.60	5.63	6.67	7.70	8.76	9.85	10.94	12.11		13.72	2 / 8			
reaction time		interval	7 steps	1.06	1.03	1.03	1.04	1.03	1.06	1.09	1.09	1.17	1.61			3.12	3.13	3.35
wind	-0.8 m/s	velocity	5.47	8.62	8.87	8.87	8.79	8.87	8.62	8.39	8.39	7.81	8.71	8.02		8.79	8.76	8.19
<b>FINAL - 2019 NCAA National Indoor Championships (Birmingham, AL) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	9-Mar-19	time	2.56	3.61	4.64	5.71	6.73							7.64	5 / 3			
reaction time	0.179	interval	7 steps	1.05	1.03	1.07	1.02						0.91			3.15		
wind		velocity	5.36	8.70	8.87	8.54	8.96						10.68	7.85		8.70		
<b>FINAL - 2018 USATF Championships (Des Moines, IA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	24-Jun-18	time	2.50	3.57	4.63	5.67	6.72	7.77	8.84	9.94	11.04	12.14		13.71	1 / 5			
reaction time		interval	7 steps	1.07	1.06	1.04	1.05	1.05	1.07	1.10	1.10	1.10	1.57			3.17	3.17	3.30
wind	-1.8 m/s	velocity	5.49	8.54	8.62	8.79	8.70	8.70	8.54	8.31	8.31	8.31	8.93	8.02		8.65	8.65	8.31
<b>FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	08-Jun-18	time	2.58	3.65	4.68	5.72	6.76	7.80	8.85	9.90	11.00	12.08		13.64	8 / 4			
reaction time		interval	7 steps	1.07	1.03	1.04	1.04	1.04	1.05	1.05	1.10	1.08	1.56			3.14	3.13	3.23
wind	-1.1 m/s	velocity	5.32	8.54	8.87	8.79	8.79	8.79	8.70	8.70	8.31	8.46	8.99	8.06		8.73	8.76	8.49
<b>Cuypers, Alain (BEL) (1967)</b>																		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)</b>														<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>				
date	26-Sep-88	time	2.69	3.80	4.86	5.95	7.01	8.09	9.16	10.29	11.38	12.50		13.92	8 / 7			
reaction time	0.169	interval	1.11	1.06	1.09	1.06	1.08	1.07	1.13	1.09	1.12	1.42				3.26	3.21	3.34
wind	0.0 m/s	velocity	5.10	8.23	8.62	8.39	8.62	8.46	8.54	8.09	8.39	8.16	9.87	7.90		8.41	8.54	8.21
<b>Czykier, Damian (POL) (1992)</b>																		
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>FINAL - 2023 Weltklasse (Zürich, SUI)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	31-Aug-23	time	2.42	3.52	4.56	5.59	6.62	7.66	8.73	9.81	10.90	12.01		13.64	7 / 6			
reaction time	0.144	interval	7 steps	1.10	1.04	1.03	1.03	1.04	1.07	1.08	1.09	1.11	1.63			3.17	3.14	3.28
wind	-0.1 m/s	velocity	5.67	8.31	8.79	8.87	8.87	8.79	8.54	8.46	8.39	8.23	8.60	8.06		8.65	8.73	8.36



<b>FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)</b>												<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>										
date	09-Feb-21	time	2.55	3.58	4.60	5.60	6.62							7.59	3 / 5							
reaction time	0.161	interval	7 steps	1.03	1.02	1.00	1.02							0.97							3.05	
		velocity	5.38	8.87	8.96	9.14	8.96							10.02	7.91						8.99	
<b>Heat 2 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)</b>												<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>										
date	09-Feb-21	time	2.45	3.50	4.53	5.53	6.53							7.63	6 / 2							
reaction time	0.155	interval	7 steps	1.05	1.03	1.00	1.00							1.10							3.08	
		velocity	5.60	8.70	8.87	9.14	9.14							8.84	7.86						8.90	
<b>Semi-Final 2 - 2017 IAAF World Championships (London, GBR)</b>												<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles</i>										
date	06-Aug-17	time	2.45	3.52	4.57	5.62	6.65	7.64	8.65	9.71	10.77	11.84		13.42	9 / 5							
reaction time	0.183	interval	7 steps	1.07	1.05	1.05	1.03	0.99	1.01	1.06	1.06	1.07	1.58							3.17	3.03	3.19
wind	0.6 m/s	velocity	5.60	8.54	8.70	8.70	8.87	9.23	9.05	8.62	8.62	8.54	8.87	8.20						8.65	9.05	8.60
<b>FINAL - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)</b>												<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>										
date	28-Jun-17	time	2.56	3.62	4.68	5.70	6.72	7.78	8.82	9.88	10.96	12.06		13.56	7 / 7							
reaction time	0.177	interval	7 steps	1.06	1.06	1.02	1.02	1.06	1.04	1.06	1.08	1.10	1.50							3.14	3.12	3.24
wind	0.6 m/s	velocity	5.36	8.62	8.62	8.96	8.96	8.62	8.79	8.62	8.46	8.31	9.35	8.11						8.73	8.79	8.46
<b>FINAL - 2017 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)</b>												<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>										
date	18-Jun-17	time	2.54	3.62	4.64	5.64	6.66	7.70	8.72	9.74	10.78	11.86		13.36	7 / 5							
reaction time	0.164	interval	7 steps	1.08	1.02	1.00	1.02	1.04	1.02	1.02	1.04	1.08	1.50							3.10	3.08	3.14
wind	3.5 m/s	velocity	5.40	8.46	8.96	9.14	8.96	8.79	8.96	8.96	8.79	8.46	9.35	8.23						8.85	8.90	8.73
<b>FINAL - 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)</b>												<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>										
date	15-Jul-16	time	2.56	3.58	4.62	5.66	6.70	7.72	8.80	9.88	10.96	12.08		13.64	1 / 6							
reaction time	0.157	interval	7 steps	1.02	1.04	1.04	1.04	1.02	1.08	1.08	1.08	1.12	1.56							3.10	3.14	3.28
wind	0.0 m/s	velocity	5.36	8.96	8.79	8.79	8.79	8.96	8.46	8.46	8.46	8.16	8.99	8.06						8.85	8.73	8.36
<b>Dabó, Rasul (POR) (1989)</b>																						
<b>Race 1 - 2011 European Team Championships (Stockholm, SWE)</b>												<i>Blomkvist (2011) - www.sub13.se</i>										
date	19-Jun-11	time	2.60	3.72	4.80	5.86	6.96	8.03	9.12	10.28	11.40	12.56		14.14								
reaction time	0.148	interval		1.12	1.08	1.06	1.10	1.07	1.09	1.16	1.12	1.16	1.58							3.26	3.26	3.44
wind	-0.8 m/s	velocity	5.28	8.16	8.46	8.62	8.31	8.54	8.39	7.88	8.16	7.88	8.87	7.78						8.41	8.41	7.97
<b>Dal Molin, Paolo (ITA) (1987)</b>																						
<b>FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)</b>												<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>										
date	16-Jun-22	time	2.52	3.60	4.66	5.72	6.76	7.84	8.94	10.02	11.12	12.26		13.76	8 / 6							
reaction time	0.122	interval	7 steps	1.08	1.06	1.06	1.04	1.08	1.10	1.08	1.10	1.14	1.50							3.20	3.22	3.32
wind	-1.2 m/s	velocity	5.44	8.46	8.62	8.62	8.79	8.46	8.31	8.46	8.31	8.02	9.35	7.99						8.57	8.52	8.26
<b>FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)</b>												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>										
date	09-Sep-21	time	2.54	3.54	4.56	5.60	6.64	7.68	8.76	9.80	10.86	11.96		13.43	2 / 5							
reaction time	0.135	interval	7 steps	1.00	1.02	1.04	1.04	1.04	1.08	1.04	1.06	1.10	1.47							3.06	3.16	3.20
wind	0.6 m/s	velocity	5.40	9.14	8.96	8.79	8.79	8.79	8.46	8.79	8.62	8.31	9.54	8.19						8.96	8.68	8.57
<b>FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)</b>												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>										
date	13-Jul-21	time	2.52	3.60	4.64	5.74	6.86	7.96	9.04	10.16	11.24	12.36		13.97	8 / 7							
reaction time	0.150	interval	7 steps	1.08	1.04	1.10	1.12	1.10	1.08	1.12	1.08	1.12	1.61							3.22	3.30	3.32
wind	0.8 m/s	velocity	5.44	8.46	8.79	8.31	8.16	8.31	8.46	8.16	8.46	8.16	8.71	7.87						8.52	8.31	8.26
<b>FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)</b>												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>										
date	10-Jun-21	time	2.48	3.54	4.60	5.68	6.72	7.80	8.86	9.94	11.00	12.12		13.64	2 / 7							
reaction time	0.142	interval	7 steps	1.06	1.06	1.08	1.04	1.08	1.06	1.08	1.06	1.12	1.52							3.20	3.18	3.26
wind	-0.1 m/s	velocity	5.53	8.62	8.62	8.46	8.79	8.46	8.62	8.46	8.62	8.16	9.22	8.06						8.57	8.62	8.41
<b>FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)</b>												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>										
date	07-Mar-21	time	2.40	3.46	4.50	5.54	6.58							7.56	7 / 3							
reaction time	0.133	interval	7 steps	1.06	1.04	1.04	1.04							0.98						3.14		
		velocity	5.72	8.62	8.79	8.79	8.79							9.92	7.94					8.73		
<b>FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)</b>												<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>										
date	24-Feb-21	time	2.37	3.43	4.47	5.50	6.54							7.57	5 / 3							
reaction time		interval	7 steps	1.06	1.04	1.03	1.04							1.03						3.13		
		velocity	5.79	8.62	8.79	8.87	8.79							9.44	7.93					8.76		
<b>Heat 2 - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)</b>												<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>										
date	24-Feb-21	time	2.47	3.53	4.63	5.72	6.78							7.71	5 / 2							
reaction time	0.134	interval	7 steps	1.06	1.10	1.09	1.06							0.93						3.25		
		velocity	5.55	8.62	8.31	8.39	8.62							10.45	7.78					8.44		
<b>FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)</b>												<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>										
date	09-Feb-21	time	2.43	3.49	4.55	5.57	6.60							7.55	2 / 3							
reaction time	0.126	interval	7 steps	1.06	1.06	1.02	1.03							0.95						3.14		



date	28-Jun-17	time	2.48	3.50	4.52	5.52	6.52	7.54	8.54	9.56	10.58	11.62		13.09	5 / 1				
reaction time	0.151	interval	7 steps	1.02	1.02	1.00	1.00	1.02	1.00	1.02	1.02	1.04	1.47	<b>PB</b>		3.04	3.02	3.08	
wind	0.6 m/s	velocity	5.53	8.96	8.96	9.14	9.14	8.96	9.14	8.96	8.96	8.79	9.54	8.40		9.02	9.08	8.90	
<b>FINAL - 2017 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	08-Jun-17	time	2.52	3.56	4.58	5.60	6.72							15.64	8 / 9				
reaction time	0.148	interval	7 steps	1.04	1.02	1.02	1.12									3.08			
wind	-0.3 m/s	velocity	5.44	8.79	8.96	8.96	8.16							7.03		8.90			
<b>FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: major championships report</i>					
date	28-Aug-15	time	2.52	3.58	4.64	5.66	6.68	7.68	8.72	9.76	10.80	11.86		13.34	3 / 8				
reaction time	0.178	interval	7 steps	1.06	1.06	1.02	1.02	1.00	1.04	1.04	1.04	1.06	1.48			3.14	3.06	3.14	
wind	0.2 m/s	velocity	5.44	8.62	8.62	8.96	8.96	9.14	8.79	8.79	8.79	8.62	9.47	8.25		8.73	8.96	8.73	
<b>FINAL - 2012 Herculis Meeting International D'Athlétisme (Monaco, MON) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	20-Jul-12	time	2.48	3.54	4.54	5.56	6.56	7.58	8.60	9.64	10.71	11.81		13.27	2 / 6				
reaction time	0.161	interval		1.06	1.00	1.02	1.00	1.02	1.02	1.04	1.07	1.10	1.46			3.08	3.04	3.21	
wind	0.0 m/s	velocity	5.53	8.62	9.14	8.96	9.14	8.96	8.96	8.79	8.54	8.31	9.60	8.29		8.90	9.02	8.54	
<b>Heat 3 - 2009 IAAF World Championships (Berlin, GER)</b>														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	19-Aug-09	time	2.67	3.71	4.75	5.80	6.83	7.87	8.93	9.99	11.07	12.15		13.56	2 / =1				
reaction time	0.149	interval		1.04	1.04	1.05	1.03	1.04	1.06	1.06	1.08	1.08	1.41			3.13	3.13	3.22	
wind	0.2 m/s	velocity	5.14	8.79	8.79	8.70	8.87	8.79	8.62	8.62	8.46	8.46	9.94	8.11		8.76	8.76	8.52	
<b>Davenport, Willie (USA) (1943)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 1976 Olympic Games (Montreal, CAN)</b>														<i>Ewen (1977) - montreal 1976</i>					
date	28-Jul-76	time	2.6	3.6	4.6	5.7	6.7	7.7	8.8	9.8	10.9	11.9		13.38	3 / 3				
reaction time		interval		1.00	1.00	1.10	1.00	1.00	1.10	1.00	1.10	1.00	1.48			3.10	3.10	3.10	
wind	0.0 m/s	velocity	5.28	9.14	9.14	8.31	9.14	9.14	8.31	9.14	8.31	9.14	9.47	8.22		8.85	8.85	8.85	
<b>FINAL - 1972 Olympic Games (Munich, FRG)</b>														<i>Kay (1972) - BAAB Munich Technical Report</i>					
date	07-Sep-72	time	2.5	3.5	4.6	5.6	6.6	7.6	8.7	9.8	10.9	11.9		13.50	1 / 4				
reaction time		interval		1.00	1.10	1.00	1.00	1.00	1.10	1.10	1.10	1.00	1.60			3.10	3.10	3.20	
wind	0.3 m/s	velocity	5.49	9.14	8.31	9.14	9.14	8.31	8.31	8.31	9.14	8.76		8.15		8.85	8.85	8.57	
<b>de los Santos, Miguel (ESP) (1973)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 1997 European Cup (Munich, GER)</b>														<i>Jung (2003) - http://www.fgs.uni-halle.de</i>					
date	22-Jun-97	time	2.77	3.87	4.94	6.02	7.08	8.17	9.29	10.40	11.52	12.70		14.16	1 / 8				
reaction time		interval		1.10	1.07	1.08	1.06	1.09	1.12	1.11	1.12	1.18	1.46			3.25	3.27	3.41	
wind	0.2 m/s	velocity	4.95	8.31	8.54	8.46	8.62	8.39	8.16	8.23	8.16	7.75	9.60	7.77		8.44	8.39	8.04	
<b>de Oliveira, João Vítor (BRA) (1992)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2016 Meeting International Mohammed VI D'Athlétisme (Rabat, MAR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	22-May-16	time	2.54	3.62	4.68	5.72	6.78	7.82	8.94	10.00	11.10	12.24		13.90	2 / 7				
reaction time	0.101	interval		1.08	1.06	1.04	1.06	1.04	1.12	1.06	1.10	1.14	1.66			3.18	3.22	3.30	
wind	1.4 m/s	velocity	5.40	8.46	8.62	8.79	8.62	8.79	8.16	8.62	8.31	8.02	8.45	7.91		8.62	8.52	8.31	
<b>FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)</b>														<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>					
date	08-May-16	time	2.64	3.72	4.78	5.81	6.87	7.92	8.99	10.07	11.17	12.30		13.81	7 / 5				
reaction time	0.128	interval		1.08	1.06	1.03	1.06	1.05	1.07	1.08	1.10	1.13	1.51			3.17	3.18	3.31	
wind	-0.6 m/s	velocity	5.20	8.46	8.62	8.87	8.62	8.70	8.54	8.46	8.31	8.09	9.28	7.97		8.65	8.62	8.28	
<b>de Vries, Ruan (RSA) (1986)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2013 Windsprint (Sundsvall, SWE)</b>														<i>(2013) - www.ssg.se/windsprint/Splittider/</i>					
date	28-Jul-13	time	2.68	3.77	4.83	5.89	6.95	8.00	9.04	10.10	11.16	12.24		13.70	6 / 4				
reaction time		interval		1.09	1.06	1.06	1.06	1.05	1.04	1.06	1.06	1.08	1.46			3.21	3.15	3.20	
wind	1.7 m/s	velocity	5.12	8.39	8.62	8.62	8.62	8.70	8.79	8.62	8.62	8.46	9.60	8.03		8.54	8.70	8.57	
<b>FINAL - 2012 Windsprint (Sundsvall, SWE)</b>														<i>Blomkvist (2012) - www.sub13.se</i>					
date	17-Jun-12	time	2.71	3.81	4.89	5.97	7.04	8.10	9.17	10.24	11.32	12.41		13.90	6 / 4				
reaction time		interval		1.10	1.08	1.08	1.07	1.06	1.07	1.07	1.08	1.09	1.49			3.26	3.20	3.24	
wind	1.1 m/s	velocity	5.06	8.31	8.46	8.46	8.54	8.62	8.54	8.54	8.46	8.39	9.41	7.91		8.41	8.57	8.46	
<b>Decker, Jan (CZE) (1995)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)</b>														<i>Feher (2014) - Final report from the U18 &amp; U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.86	4.07	5.28	6.46	7.66	8.87	10.07	11.26	12.50	13.73		15.40	8 / 8				
reaction time	0.235	interval		1.21	1.21	1.18	1.20	1.21	1.20	1.19	1.24	1.23	1.67			3.60	3.61	3.66	
wind	-2.2 m/s	velocity	4.80	7.55	7.55	7.75	7.62	7.55	7.62	7.68	7.37	7.43	8.40	7.14		7.62	7.60	7.49	
<b>Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)</b>														<i>Feher (2014) - Final report from the U18 &amp; U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.78	3.95	5.12	6.30	7.48	8.69	9.90	11.10	12.34	13.60		15.34	6 / 3				
reaction time	0.206	interval		1.17	1.17	1.18	1.18	1.21	1.21	1.20	1.24	1.26	1.74			3.52	3.60	3.70	
wind	-1.6 m/s	velocity	4.94	7.81	7.81	7.75	7.75	7.55	7.55	7.62	7.37	7.25	8.06	7.17		7.79	7.62	7.41	
<b>Dees, Tony (USA) (1963)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	

<b>FINAL - 1999 IAAF World Championships (Sevilla, ESP)</b>														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	25-Aug-99	time	2.47	3.51	4.53	5.52	6.53	7.53	8.56	9.58	10.64	11.72	13.22	8 / 4				
reaction time	0.148	interval		1.04	1.02	0.99	1.01	1.00	1.03	1.02	1.06	1.08	1.50		3.05	3.04	3.16	
wind	1.0 m/s	velocity	5.55	8.79	8.96	9.23	9.05	9.14	8.87	8.96	8.62	8.46	9.35	8.32	8.99	9.02	8.68	
<b>Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)</b>														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	24-Aug-99	time	2.43	3.45	4.49	5.49	6.50	7.51	8.54	9.60	10.70	11.81	13.30	4 / 3				
reaction time	0.123	interval		1.02	1.04	1.00	1.01	1.01	1.03	1.06	1.10	1.11	1.49		3.06	3.05	3.27	
wind	0.0 m/s	velocity	5.65	8.96	8.79	9.14	9.05	9.05	8.87	8.62	8.31	8.23	9.41	8.27	8.96	8.99	8.39	
<b>FINAL - 1996 USA Olympic Trials (Atlanta, GA)</b>														<i>McNichols (2000) - Hurdle technique study through video analysis</i>				
date	23-Jun-96	time	2.45	3.47	4.52	5.51	6.57	7.62	8.68	9.80	10.88	12.01	13.67	2 / 6				
reaction time		interval		1.02	1.05	0.99	1.06	1.05	1.06	1.12	1.08	1.13	1.66		3.06	3.17	3.33	
wind	0.9 m/s	velocity	5.60	8.96	8.70	9.23	8.62	8.70	8.62	8.16	8.46	8.09	8.45	8.05	8.96	8.65	8.23	
<b>FINAL - 1992 Olympic Games (Barcelona, ESP)</b>														<i>Knight (1992) - 1992 Olympic report: the hurdling events</i>				
date	03-Aug-92	time	2.53	3.56	4.56	5.57	6.59	7.60	8.64	9.69	10.78	11.85	13.24	7 / 2				
reaction time	0.159	interval		1.03	1.00	1.01	1.02	1.01	1.04	1.05	1.09	1.07	1.39		3.04	3.07	3.21	
wind	0.8 m/s	velocity	5.42	8.87	9.14	9.05	8.96	9.05	8.79	8.70	8.39	8.54	10.09	8.31	9.02	8.93	8.54	
<b>Degheelt, Adrien (BEL) (1985)</b>																		
<b>FINAL - 2007 European Cup (Munich, GER)</b>														<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>				
date	24-Jun-07	time	2.65	3.71	4.75	5.80	6.85	7.91	8.96	10.03	11.13	12.23	13.67	/ 6				
reaction time	0.149	interval		1.06	1.04	1.05	1.05	1.06	1.05	1.07	1.10	1.10	1.44	PB	3.15	3.16	3.27	
wind	0.4 m/s	velocity	5.18	8.62	8.79	8.70	8.70	8.62	8.70	8.54	8.31	8.31	9.74	8.05	8.70	8.68	8.39	
<b>Degughi, Masaya (JPN)</b>																		
<b>FINAL - 2017 Nambu Memorial (Sapporo, JPN)</b>														<i>(2017) - tfdata-store.com/2017/07/12/post-1025/</i>				
date	09-Jul-17	time	2.76	3.87	5.04	6.18	7.37	8.53	9.71	10.90	12.09	13.33	14.85	1 / 9				
reaction time		interval		1.11	1.17	1.14	1.19	1.16	1.18	1.19	1.19	1.24	1.52		3.42	3.53	3.62	
wind	2.7 m/s	velocity	4.97	8.23	7.81	8.02	7.68	7.88	7.75	7.68	7.68	7.37	9.22	7.41	8.02	7.77	7.57	
<b>Demidyuk, Serhiy (UKR) (1982)</b>																		
<b>FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)</b>														<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>				
date	23-Sep-07	time	2.68	3.72	4.76	5.79	6.81	7.83	8.86	9.90	10.95	12.01	13.37	8 / 7				
reaction time	0.214	interval		1.04	1.04	1.03	1.02	1.02	1.03	1.04	1.05	1.06	1.36		3.11	3.07	3.15	
wind	0.0 m/s	velocity	5.12	8.79	8.79	8.87	8.96	8.96	8.87	8.79	8.70	8.62	10.31	8.23	8.82	8.93	8.70	
<b>Desensky, Lukáš (CZE) (1998)</b>																		
<b>FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)</b>														<i>Fehér (2015) - Final report U18 &amp; U20 Czech Republic indoor national champs</i>				
date	14-Feb-15	time	2.71	3.83	4.96	6.06	7.17						8.11	2 / 2				
reaction time	0.195	interval		1.12	1.13	1.10	1.11					0.94			3.35			
		velocity	5.06	8.16	8.09	8.31	8.23					10.34	7.40		8.19			
<b>Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)</b>														<i>Fehér (2014) - Final report from the U18 &amp; U20 Czech Republic national championships</i>				
date	28-Jun-14	time	2.77	3.95	5.12	6.32	7.49	8.70	9.88	11.08	12.28	13.53	15.20	2 / 4				
reaction time	0.201	interval		1.18	1.17	1.20	1.17	1.21	1.18	1.20	1.20	1.25	1.67		3.55	3.56	3.65	
wind	-1.6 m/s	velocity	4.95	7.75	7.81	7.62	7.81	7.55	7.75	7.62	7.62	7.31	8.40	7.24	7.72	7.70	7.51	
<b>Diaz, Yunior (CUB) (1987)</b>																		
<b>Decathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)</b>														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	20-Aug-09	time	2.69	3.86	5.00	6.13	7.26	8.38	9.51	10.86	11.86	13.08	14.56	6 / 2				
reaction time	0.155	interval		1.17	1.14	1.13	1.13	1.12	1.13	1.35	1.00	1.22	1.48		3.44	3.38	3.57	
wind	0.3 m/s	velocity	5.10	7.81	8.02	8.09	8.09	8.16	8.09	6.77	9.14	7.49	9.47	7.55	7.97	8.11	7.68	
<b>Dickson, Michael (USA) (1997)</b>																		
<b>Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	16-Jul-23	time	2.46	3.55	4.60	5.65	6.69	7.74	8.81	9.87	10.93	12.01	13.57	8 / 6				
reaction time	0.183	interval	7 steps	1.09	1.05	1.05	1.04	1.05	1.07	1.06	1.06	1.08	1.56		3.19	3.16	3.20	
wind	-0.2 m/s	velocity	5.58	8.39	8.70	8.70	8.79	8.70	8.54	8.62	8.62	8.46	8.99	8.11	8.60	8.68	8.57	
<b>FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	24-Jun-23	time	2.53	3.59	4.61	5.63	6.64	7.67	8.71	9.74	10.78	11.85	13.26	1 / 5				
reaction time	0.212	interval	7 steps	1.06	1.02	1.02	1.01	1.03	1.04	1.03	1.04	1.07	1.41		3.10	3.08	3.14	
wind	1.6 m/s	velocity	5.42	8.62	8.96	8.96	9.05	8.87	8.79	8.87	8.79	8.54	9.94	8.30	8.85	8.90	8.73	
<b>FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)</b>														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	21-May-23	time	2.56	3.69	4.73	5.76	6.82	7.87	8.90	9.93	11.02	12.06	13.48	7 / 6				
reaction time	0.190	interval	7 steps	1.13	1.04	1.03	1.06	1.05	1.03	1.03	1.09	1.04	1.42		3.20	3.14	3.16	
wind	4.0 m/s	velocity	5.36	8.09	8.79	8.87	8.62	8.70	8.87	8.87	8.39	8.79	9.87	8.16	8.57	8.73	8.68	
<b>Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)</b>														<i>USATF (2022) - Results powered by Karmarush.com</i>				
date	26-Jun-22	time	2.53	3.68	4.52	5.60	6.61	7.69	8.70	9.77	10.84	11.94	13.52	3 / 7				
reaction time		interval		1.15	0.84	1.08	1.01	1.08	1.01	1.07	1.07	1.10	1.58		3.07	3.10	3.24	
wind	0.4 m/s	velocity	5.42	7.95	10.88	8.46	9.05	8.46	9.05	8.54	8.54	8.31	8.87	8.14	8.93	8.85	8.46	



reaction time	interval	1.09	1.06	1.06	1.06	1.06	1.08	1.08	1.10	1.11	1.49	<b>PB</b>	3.21	3.20	3.29		
wind	0.8 m/s	velocity	5.20	8.39	8.62	8.62	8.62	8.46	8.46	8.31	8.23	9.41	7.95	8.54	8.57	8.33	
<b>Dittrich, Thomas (GDR) (1954)</b>																	
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																	
<b>FINAL - 1981 USSR vs. GDR (Tbilisi, URS)</b> <i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>																	
date	26-Jun-81	time	2.50	3.65	4.78	5.80	6.82	7.89	9.04	10.19	11.39	12.64	13.94	/ 4			
reaction time	interval	1.15	1.13	1.02	1.02	1.07	1.15	1.15	1.20	1.25	1.30			3.30	3.24	3.60	
wind	???	velocity	5.49	7.95	8.09	8.96	8.54	7.95	7.95	7.62	7.31	10.78	7.89	8.31	8.46	7.62	
<b>Doležal, Jan (CZE) (1996)</b>																	
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																	
<b>FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)</b> <i>Feher (2014) - Final report from the U18 &amp; U20 Czech Republic national championships</i>																	
date	28-Jun-14	time	2.74	3.89	4.99	6.09	7.20	8.34	9.45	10.58	11.75	12.96	14.52	3 / 3			
reaction time	0.157	interval	1.15	1.10	1.10	1.11	1.14	1.11	1.13	1.17	1.21	1.56		3.35	3.36	3.51	
wind	-2.2 m/s	velocity	5.01	7.95	8.31	8.31	8.23	8.02	8.23	8.09	7.81	7.55	8.99	7.58	8.19	8.16	7.81
<b>Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)</b> <i>Feher (2014) - Final report from the U18 &amp; U20 Czech Republic national championships</i>																	
date	28-Jun-14	time	2.75	3.87	4.97	6.07	7.19	8.33	9.45	10.60	11.77	12.92	14.52	3 / 1			
reaction time	0.254	interval	1.12	1.10	1.10	1.12	1.14	1.12	1.15	1.17	1.15	1.60		3.32	3.38	3.47	
wind	-2.5 m/s	velocity	4.99	8.16	8.31	8.31	8.16	8.02	8.16	7.95	7.81	7.95	8.76	7.58	8.26	8.11	7.90
<b>Dorival, Dudley (HA) (1975)</b>																	
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																	
<b>Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)</b> <i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>																	
date	24-Aug-99	time	2.60	3.62	4.65	5.70	6.74	7.82	8.87	9.96	11.05	12.20	13.86	2 / 7			
reaction time	0.151	interval	1.02	1.03	1.05	1.04	1.08	1.05	1.09	1.09	1.15	1.66		3.10	3.17	3.33	
wind	0.0 m/s	velocity	5.28	8.96	8.87	8.70	8.79	8.46	8.70	8.39	8.39	7.95	8.45	7.94	8.85	8.65	8.23
<b>Dostrašil, Tomáš (CZE) (1996)</b>																	
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																	
<b>Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)</b> <i>Feher (2014) - Final report from the U18 &amp; U20 Czech Republic national championships</i>																	
date	28-Jun-14	time	2.85	4.09	5.30	6.52	7.75	9.00	10.22	11.52	12.78	14.11	15.87	6 / 6			
reaction time	0.184	interval	1.24	1.21	1.22	1.23	1.25	1.22	1.30	1.26	1.33	1.76		3.67	3.70	3.89	
wind	-2.9 m/s	velocity	4.81	7.37	7.55	7.49	7.43	7.31	7.49	7.03	7.25	6.87	7.97	6.93	7.47	7.41	7.05
<b>Doucouré, Ladji (FRA) (1983)</b>																	
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																	
<b>FINAL - 2009 ISTAF (Berlin, GER)</b> <i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
date	14-Jun-09	time	2.65	3.73	4.76	5.80	6.83	7.90	8.97	10.05	11.13	12.24	13.73	7 / 7			
reaction time	0.206	interval	1.08	1.03	1.04	1.03	1.07	1.07	1.08	1.08	1.11	1.49		3.15	3.17	3.27	
wind	0.7 m/s	velocity	5.18	8.46	8.87	8.79	8.87	8.54	8.54	8.46	8.46	8.23	9.41	8.01	8.70	8.65	8.39
<b>FINAL - 2008 Olympic Games (Beijing, CHN)</b> <i>Tsiokanos (2018) - race pattern of men's 110m hurdles- time analysis of olympic hurdle performance</i>																	
date	21-Aug-08	time	2.58	3.64	4.66	5.68	6.69	7.68	8.69	9.73	10.78	11.84	13.24	8 / 4			
reaction time	0.170	interval	1.06	1.02	1.02	1.01	0.99	1.01	1.04	1.05	1.06	1.40		3.10	3.01	3.15	
wind	0.1 m/s	velocity	5.32	8.62	8.96	8.96	9.05	9.23	9.05	8.79	8.70	8.62	10.01	8.31	8.85	9.11	8.70
<b>FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)</b> <i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																	
date	23-Sep-07	time	2.61	3.65	4.67	5.69	6.70	7.72	8.74	9.77	10.81	11.87	13.27	1 / 5			
reaction time	0.160	interval	1.04	1.02	1.02	1.01	1.02	1.02	1.03	1.04	1.06	1.40		3.08	3.05	3.13	
wind	0.0 m/s	velocity	5.26	8.79	8.96	8.96	9.05	8.96	8.96	8.87	8.79	8.62	10.01	8.29	8.90	8.99	8.76
<b>FINAL - 2007 European Cup (Munich, GER)</b> <i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																	
date	24-Jun-07	time	2.57	3.61	4.63	5.63	6.64	7.65	8.67	9.70	10.77	11.87	13.35	/ 1			
reaction time	0.152	interval	1.04	1.02	1.00	1.01	1.01	1.02	1.03	1.07	1.10	1.48		3.06	3.04	3.20	
wind	0.4 m/s	velocity	5.34	8.79	8.96	9.14	9.05	9.05	8.96	8.87	8.54	8.31	9.47	8.24	8.96	9.02	8.57
<b>FINAL - 2005 IAAF World Championships (Helsinki, FIN)</b> <i>Longuevre (2005) - Helsinki 2005 - Les haies: Cinq qualifiées et un titre mondial</i>																	
date	12-Aug-05	time	2.30	3.30	4.30	5.28	6.26	7.26	8.26	9.26	10.32	11.36	13.07	5 / 1			
reaction time	0.164	interval	1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.06	1.04	1.71		2.98	2.98	3.10	
wind	-0.2 m/s	velocity	5.97	9.14	9.14	9.33	9.33	9.14	9.14	9.14	8.62	8.79	8.20	8.42	9.20	9.20	8.85
<b>FINAL - 2004 Olympic Games (Athens, GRE)</b> <i>Ruiz (2004) - las carreras con vallas de juegos olimpicos de atenas '04</i>																	
date	27-Aug-04	time	2.52	3.54	4.55	5.56	6.55	7.54	8.54	9.55	10.58	11.63	13.76	3 / 8			
reaction time	0.204	interval	1.02	1.01	1.01	0.99	0.99	1.00	1.01	1.03	1.05	2.13		3.04	2.98	3.09	
wind	0.3 m/s	velocity	5.44	8.96	9.05	9.05	9.23	9.23	9.14	9.05	8.87	8.70	6.58	7.99	9.02	9.20	8.87
<b>Semi-Final 2 - 2004 Olympic Games (Athens, GRE)</b> <i>Liagonne (2007) - Historique: Le 110m haies en chiffres</i>																	
date	26-Aug-04	time	2.48	3.50	4.49	5.48	6.48	7.46	8.48	9.48	10.50	11.56	13.06	5 / 1			
reaction time	0.200	interval	1.02	0.99	0.99	1.00	0.98	1.02	1.00	1.02	1.06	1.50	<b>NR / PB</b>	3.00	3.00	3.08	
wind	0.0 m/s	velocity	5.53	8.96	9.23	9.23	9.14	9.33	8.96	9.14	8.96	8.62	9.35	8.42	9.14	9.14	8.90
<b>Heat 1 - 2004 Olympic Games (Athens, GRE)</b> <i>Liagonne (2007) - Historique: Le 110m haies en chiffres</i>																	
date	24-Aug-04	time	2.52	3.56	4.55	5.54	6.54	7.54	8.55	9.56	10.60	11.64	13.18	8 / 1			
reaction time	0.205	interval	1.04	0.99	0.99	1.00	1.00	1.01	1.01	1.04	1.04	1.54	<b>NR / PB</b>	3.02	3.01	3.09	
wind	1.5 m/s	velocity	5.44	8.79	9.23	9.23	9.14	9.14	9.05	9.05	8.79	8.79	9.10	8.35	9.08	9.11	8.87
<b>FINAL - 2001 European Cup (Bremen, GER)</b> <i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																	
date	24-Jun-01	time	2.70	3.78	4.82	5.84	6.86	7.91	8.98	10.03	11.17	12.44	14.02	7 / 7			

reaction time	0.164	interval	1.08	1.04	1.02	1.02	1.05	1.07	1.05	1.14	1.27	1.58			3.14	3.14	3.46		
wind	1.3 m/s	velocity	5.08	8.46	8.79	8.96	8.70	8.54	8.70	8.02	7.20	8.87	7.85		8.73	8.73	7.92		
<b>Douglas, Chris (AUS) (1997)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)</b>			<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>																
date	20-Mar-22	time	2.46	3.50	4.54	5.56	6.56							7.60	8 / 5				
reaction time	0.159	interval	7 steps	1.04	1.04	1.02	1.00						1.04			3.10			
wind		velocity	5.58	8.79	8.79	8.96	9.14						9.35	7.89		8.85			
<b>Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)</b>			<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>																
date	20-Mar-22	time	2.46	3.53	4.56	5.56	6.58							7.56	8 / 2				
reaction time	0.145	interval	7 steps	1.07	1.03	1.00	1.02						0.98	NR PB		3.10			
wind		velocity	5.58	8.54	8.87	9.14	8.96						9.92	7.94		8.85			
<b>Douvalidis, Konstadinos (GRE) (198</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)</b>			<i>CAA Hurdle Development (2019)</i>																
date	02-Oct-19	time	2.65	3.71	4.75	5.77	6.81	7.86	8.92	9.99	11.05	12.13		13.54	9 / 4				
reaction time	0.198	interval	7 steps	1.06	1.04	1.02	1.04	1.05	1.06	1.07	1.06	1.08	1.41			3.12	3.15	3.21	
wind	0.6 m/s	velocity	5.18	8.62	8.79	8.96	8.79	8.70	8.62	8.54	8.62	8.46	9.94	8.12		8.79	8.70	8.54	
<b>FINAL - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)</b>			<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																
date	28-Jun-17	time	2.56	3.62	4.66	5.70	6.72	7.76	8.80	9.88	10.96	12.04		13.51	2 / 5				
reaction time	0.154	interval		1.06	1.04	1.04	1.02	1.04	1.04	1.08	1.08	1.08	1.47			3.14	3.10	3.24	
wind	0.6 m/s	velocity	5.36	8.62	8.79	8.79	8.96	8.79	8.79	8.46	8.46	8.46	9.54	8.14		8.73	8.85	8.46	
<b>FINAL - 2016 Athletissima (Lausanne, SUI) (TV Analysis)</b>			<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																
date	25-Aug-16	time	2.58	3.66	4.70	5.74	6.76	7.80	8.86	9.92	11.00	12.10		13.69	8 / 8				
reaction time	0.136	interval		1.08	1.04	1.04	1.02	1.04	1.06	1.06	1.08	1.10	1.59			3.16	3.12	3.24	
wind	0.5 m/s	velocity	5.32	8.46	8.79	8.79	8.96	8.79	8.62	8.62	8.46	8.31	8.82	8.04		8.68	8.79	8.46	
<b>FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)</b>			<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>																
date	23-Jul-16	time	2.60	3.63	4.66	5.73	6.76	7.80	8.85	9.90	10.98	12.06		13.54	7 / 3				
reaction time	0.146	interval		1.03	1.03	1.07	1.03	1.04	1.05	1.05	1.08	1.08	1.48			3.13	3.12	3.21	
wind	-1.0 m/s	velocity	5.28	8.87	8.87	8.54	8.87	8.79	8.70	8.70	8.46	8.46	9.47	8.12		8.76	8.79	8.54	
<b>FINAL - 2016 Meeting International Mohammed VI D'Athletisme (Rabat, MAR) (TV Analysis)</b>			<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																
date	22-May-16	time	2.52	3.56	4.58	5.60	6.60	7.62	8.66	9.70	10.78	11.86		13.38	3 / 4				
reaction time	0.113	interval		1.04	1.02	1.02	1.00	1.02	1.04	1.04	1.08	1.08	1.52			3.08	3.06	3.20	
wind	1.4 m/s	velocity	5.44	8.79	8.96	8.96	9.14	8.96	8.79	8.79	8.46	8.46	9.22	8.22		8.90	8.96	8.57	
<b>FINAL - 2013 European Indoor Championships (Göteborg, SWE)</b>			<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>																
date	01-Mar-13	time	2.62	3.68	4.72	5.76	6.78							7.64	1 / 7				
reaction time	0.153	interval		1.06	1.04	1.04	1.02						0.86			3.14			
wind		velocity	5.24	8.62	8.79	8.79	8.96						11.30	7.85		8.73			
<b>FINAL - 2007 European Cup (Munich, GER)</b>			<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																
date	24-Jun-07	time	2.63	3.70	4.74	5.79	6.83	7.91	8.97	10.03	11.10	12.20		13.63	/ 5				
reaction time	0.141	interval		1.07	1.04	1.05	1.04	1.08	1.06	1.06	1.07	1.10	1.43			3.16	3.18	3.23	
wind	0.4 m/s	velocity	5.22	8.54	8.79	8.70	8.79	8.46	8.62	8.62	8.54	8.31	9.80	8.07		8.68	8.62	8.49	
<b>Drut, Guy (FRA) (1950)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 1976 Olympic Games (Montreal, CAN)</b>			<i>Ewen (1977) - montreal 1976</i>																
date	28-Jul-76	time	2.5	3.5	4.6	5.6	6.6	7.6	8.7	9.7	10.7	11.8		13.30	5 / 1				
reaction time		interval		1.00	1.10	1.00	1.00	1.00	1.10	1.00	1.00	1.10	1.50			3.10	3.10	3.10	
wind	0.0 m/s	velocity	5.49	9.14	8.31	9.14	9.14	9.14	8.31	9.14	9.14	8.31	9.35	8.27		8.85	8.85	8.85	
<b>FINAL - 1972 Olympic Games (Munich, FRG)</b>			<i>Kay (1972) - BAAB Munich Technical Report</i>																
date	07-Sep-72	time	2.5	3.6	4.6	5.6	6.6	7.7	8.7	9.7	10.7	11.8		13.34	8 / 2				
reaction time		interval		1.10	1.00	1.00	1.00	1.10	1.00	1.00	1.00	1.10	1.54			3.10	3.10	3.10	
wind	0.3 m/s	velocity	5.49	8.31	9.14	9.14	9.14	8.31	9.14	9.14	9.14	8.31	9.10	8.25		8.85	8.85	8.85	
<b>DuBose, Jacoby (USA) (1982)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Heat 3 - 2007 USATF National Championships (Indianapolis, IN)</b>			<i>USATF Men's Hurdle Development (2007)</i>																
date	23-Jun-07	time	2.79	3.90	5.01	6.10	7.22	8.34	9.44	10.58	11.71	12.85		14.37	4 / 8				
reaction time		interval		1.11	1.11	1.09	1.12	1.12	1.10	1.14	1.13	1.14	1.52			3.31	3.34	3.41	
wind	-3.2 m/s	velocity	4.92	8.23	8.23	8.39	8.16	8.16	8.31	8.02	8.09	8.02	9.22	7.65		8.28	8.21	8.04	
<b>Dunning, Robert (USA) (1997)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Heat 1 - 2023 Kamilá Skolimowska Memorial (Silesia, POL)</b>			<i>Omega Timing (2023) - diamond league race analysis</i>																
date	16-Jul-23	time	2.51	3.59	4.63	5.65	6.66	7.67	8.69	9.72	10.76	11.81		13.38	4 / 5				
reaction time	0.140	interval	7 steps	1.08	1.04	1.02	1.01	1.01	1.02	1.03	1.04	1.05	1.57			3.14	3.04	3.12	
wind	0.3 m/s	velocity	5.47	8.46	8.79	8.96	9.05	9.05	8.96	8.87	8.79	8.70	8.93	8.22		8.73	9.02	8.79	
<b>FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)</b>			<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	09-Jul-23	time	2.53	3.59	4.60	5.62	6.64	7.67	8.71	9.75	10.81	11.89		13.40	2 / 7				

reaction time	interval	7 steps	1.06	1.01	1.02	1.02	1.03	1.04	1.04	1.06	1.08	1.51		3.09	3.09	3.18	
wind	-0.2 m/s	velocity	5.42	8.62	9.05	8.96	8.96	8.87	8.79	8.79	8.62	8.46	9.28	8.21	8.87	8.87	8.62
<b>FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)</b>													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	24-Jun-23	time	2.53	3.57	4.61	5.61	6.62	7.64	8.66	9.68	10.74	11.83		13.29	6 / 6		
reaction time	0.181	interval	7 steps	1.04	1.04	1.00	1.01	1.02	1.02	1.02	1.06	1.09	1.46		3.08	3.05	3.17
wind	1.6 m/s	velocity	5.42	8.79	8.79	9.14	9.05	8.96	8.96	8.96	8.62	8.39	9.60	8.28	8.90	8.99	8.65
<b>FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)</b>													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	21-May-23	time	2.56	3.62	4.63	5.63	6.66	7.66	8.68	9.76	10.83	12.00		22.28	5 / 8		
reaction time	0.152	interval	7 steps	1.06	1.01	1.00	1.03	1.00	1.02	1.08	1.07	1.17	10.28		3.07	3.05	3.32
wind	4.0 m/s	velocity	5.36	8.62	9.05	9.14	8.87	9.14	8.96	8.46	8.54	7.81	1.36	4.94	8.93	8.99	8.26
<b>FINAL - 2023 Adidas Atlanta City Games (Atlanta, GA) (street) (TV Analysis)</b>													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	05-May-23	time	2.57	3.63	4.65	5.65	6.65	7.65	8.65	9.65	10.68	11.73		13.09	1 / 2		
reaction time	0.187	interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.00	1.00	1.03	1.05	1.36	<b>PB</b>	3.08	3.00	3.08
wind	0.0 m/s	velocity	5.34	8.62	8.96	9.14	9.14	9.14	9.14	9.14	8.87	8.70	10.31	8.40	8.90	9.14	8.90
<b>FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)</b>													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	26-Jun-22	time	2.53	3.55	4.57	5.59	6.61	7.61	8.61	9.64	10.67	11.74		13.27	9 / 6		
reaction time		interval	7 steps	1.02	1.02	1.02	1.02	1.00	1.00	1.03	1.03	1.07	1.53		3.06	3.02	3.13
wind	1.2 m/s	velocity	5.42	8.96	8.96	8.96	8.96	9.14	9.14	8.87	8.87	8.54	9.16	8.29	8.96	9.08	8.76
<b>Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)</b>													<i>USATF (2022) - Results powered by Karmarush.com</i>				
date	26-Jun-22	time	2.55	3.59	4.62	5.62	6.66	7.71	8.73	9.77	10.82	11.88		13.38	2 / 4		
reaction time		interval		1.04	1.03	1.00	1.04	1.05	1.02	1.04	1.05	1.06	1.50		3.07	3.11	3.15
wind	0.4 m/s	velocity	5.38	8.79	8.87	9.14	8.79	8.70	8.96	8.79	8.70	8.62	9.35	8.22	8.93	8.82	8.70
<b>FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)</b>													<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>				
date	06-Feb-22	time	2.55	3.64	4.70	5.74	6.85							7.82	7 / 8		
reaction time	0.179	interval	7 steps	1.09	1.06	1.04	1.11						0.97		3.19		
		velocity	5.38	8.39	8.62	8.79	8.23						10.02	7.67	8.60		
<b>FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)</b>													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	13-Jul-21	time	2.60	3.62	4.72	5.76	6.82	7.88	8.92	10.00	11.08	12.18		13.71	6 / 4		
reaction time	0.130	interval	7 steps	1.02	1.10	1.04	1.06	1.06	1.04	1.08	1.08	1.10	1.53		3.16	3.16	3.26
wind	0.8 m/s	velocity	5.28	8.96	8.31	8.79	8.62	8.62	8.79	8.46	8.46	8.31	9.16	8.02	8.68	8.68	8.41
<b>FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)</b>													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	11-Jun-21	time	2.53	3.57	4.60	5.62	6.60	7.63	8.63	9.65	10.69	11.75		13.25	2 / 1		
reaction time	0.161	interval	7 steps	1.04	1.03	1.02	0.98	1.03	1.00	1.02	1.04	1.06	1.50		3.09	3.01	3.12
wind	-0.6 m/s	velocity	5.42	8.79	8.87	8.96	9.33	8.87	9.14	8.96	8.79	8.62	9.35	8.30	8.87	9.11	8.79
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)</b>													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	10-Sep-19	time	2.60	3.68	4.73	5.80	6.85	7.91	8.95	10.03	11.13	12.28		13.86	2 / 7		
reaction time	0.183	interval	7 steps	1.08	1.05	1.07	1.05	1.06	1.04	1.08	1.10	1.15	1.58		3.20	3.15	3.33
wind	0.1 m/s	velocity	5.28	8.46	8.70	8.54	8.70	8.62	8.79	8.46	8.31	7.95	8.87	7.94	8.57	8.70	8.23
<b>Dutch, Johnny (USA) (1989)</b>																	
<b>FINAL - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm)</b>													<i>USATF Men's Hurdle Development (2007)</i>				
date	21-Jun-07	time	2.64	3.67	4.70	5.69	6.67	7.67	8.68	9.74	10.81	11.88		13.36	/ 2		
reaction time		interval		1.03	1.03	0.99	0.98	1.00	1.01	1.06	1.07	1.07	1.48		3.05	2.99	3.20
wind	2.7 m/s	velocity	5.20	8.87	8.87	9.23	9.33	9.14	9.05	8.62	8.54	8.54	9.47	8.23	8.99	9.17	8.57
<b>Eaton, Ashton (USA) (1988)</b>																	
<b>Decathlon - Heat 2 - 2010 NCAA National Championships (Eugene, OR)</b>													<i>Deca Newsletter (2010) - eaton on ncaa three-peat</i>				
date	01-Jun-10	time	2.4	3.5	4.7	5.7	6.7	7.7	8.8	9.9	11.1	12.1		13.68	6 / 1		
reaction time		interval		1.10	1.20	1.00	1.00	1.00	1.10	1.10	1.20	1.00	1.58		3.30	3.10	3.30
wind	1.6 m/s	velocity	5.72	8.31	7.62	9.14	9.14	9.14	8.31	8.31	7.62	9.14	8.87	8.04	8.31	8.85	8.31
<b>Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)</b>													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	20-Aug-09	time	2.70	3.79	4.87	5.97	7.07	8.17	9.27	10.45	11.61	12.75		14.28	5 / 5		
reaction time	0.178	interval		1.09	1.08	1.10	1.10	1.10	1.10	1.18	1.16	1.14	1.53		3.27	3.30	3.48
wind	0.3 m/s	velocity	5.08	8.39	8.46	8.31	8.31	8.31	8.31	7.75	7.88	8.02	9.16	7.70	8.39	8.31	7.88
<b>Eaton, Jarret (USA) (1989)</b>																	
<b>FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)</b>													<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>				
date	20-Mar-22	time	2.46	3.48	4.52	5.52	6.54							7.53	6 / 3		
reaction time	0.166	interval	7 steps	1.02	1.04	1.00	1.02						0.99		3.06		
		velocity	5.58	8.96	8.79	9.14	8.96						9.82	7.97	8.96		
<b>Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)</b>													<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>				
date	20-Mar-22	time	2.43	3.46	4.46	5.48	6.50							7.52	4 / 1		
reaction time	0.134	interval	7 steps	1.03	1.00	1.02	1.02						1.02		3.05		
		velocity	5.65	8.87	9.14	8.96	8.96						9.53	7.98	8.99		

<b>Heat 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)</b>														<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.56	3.63	4.63	5.65	6.66							7.66	8 / 2				
reaction time	0.128	interval	7 steps	1.07	1.00	1.02	1.01							1.00			3.09		
		velocity	5.36	8.54	9.14	8.96	9.05							9.72	7.83		8.87		
<b>FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)</b>														<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	19-Feb-22	time	2.46	3.49	4.51	5.52	6.53							7.60	6 / 3				
reaction time	0.154	interval	7 steps	1.03	1.02	1.01	1.01							1.07			3.06		
		velocity	5.58	8.87	8.96	9.05	9.05							9.08	7.89		8.96		
<b>FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)</b>														<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	17-Feb-22	time	2.43	3.44	4.44	5.44	6.46							7.51	5 / 3				
reaction time	0.146	interval	7 steps	1.01	1.00	1.00	1.02							1.05			3.01		
		velocity	5.65	9.05	9.14	9.14	8.96							9.26	7.99		9.11		
<b>FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	26-Jun-21	time	2.47	3.50	4.50	5.54	6.54	7.57	8.64	9.71	10.84	11.98		13.64	1 / 8				
reaction time	0.137	interval	7 steps	1.03	1.00	1.04	1.00	1.03	1.07	1.07	1.13	1.14	1.66				3.07	3.10	3.34
wind	0.4 m/s	velocity	5.55	8.87	9.14	8.79	9.14	8.87	8.54	8.54	8.09	8.02	8.45	8.06			8.93	8.85	8.21
<b>Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	26-Jun-21	time	2.50	3.56	4.53	5.54	6.55	7.60	8.60	9.63	10.70	11.80		13.32	3 / 4				
reaction time	0.157	interval	7 steps	1.06	0.97	1.01	1.01	1.05	1.00	1.03	1.07	1.10	1.52				3.04	3.06	3.20
wind	1.2 m/s	velocity	5.49	8.62	9.42	9.05	9.05	8.70	9.14	8.87	8.54	8.31	9.22	8.26			9.02	8.96	8.57
<b>FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)</b>														<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	09-Feb-21	time	2.50	3.52	4.55	5.59	6.62							7.60	6 / 6				
reaction time	0.140	interval	7 steps	1.02	1.03	1.04	1.03							0.98			3.09		
		velocity	5.49	8.96	8.87	8.79	8.87							9.92	7.89		8.87		
<b>Heat 1 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)</b>														<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	09-Feb-21	time	2.37	3.40	4.43	5.46	6.49							7.55	4 / 2				
reaction time	0.161	interval	7 steps	1.03	1.03	1.03	1.03							1.06			3.09		
		velocity	5.79	8.87	8.87	8.87	8.87							9.17	7.95		8.87		
<b>FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.55	3.57	4.60	5.62	6.65							7.57	4 / 2				
reaction time	0.155	interval	7 Steps	1.02	1.03	1.02	1.03							0.92			3.07		
		velocity	5.38	8.96	8.87	8.96	8.87							10.57	7.93		8.93		
<b>Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.58	3.62	4.63	5.65	6.70							7.63	4 / 1				
reaction time	0.148	interval	7 Steps	1.04	1.01	1.02	1.05							0.93			3.07		
		velocity	5.32	8.79	9.05	8.96	8.70							10.45	7.86		8.93		
<b>Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														<i>CAA Hurdle Development (2020)</i>					
date	14-Feb-20	time	2.62	3.67	4.69	5.74	6.81							7.74	3 / 1				
reaction time	0.154	interval	7 Steps	1.05	1.02	1.05	1.07							0.93			3.12		
		velocity	5.24	8.70	8.96	8.70	8.54							10.45	7.75		8.79		
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	10-Sep-19	time	2.73	3.93	5.13	6.33	7.60	8.76	10.00	11.22	12.43	13.73		15.54	8 / 8				
reaction time	0.180	interval	7 steps	1.20	1.20	1.20	1.27	1.16	1.24	1.22	1.21	1.30	1.81				3.60	3.67	3.73
wind	0.1 m/s	velocity	5.03	7.62	7.62	7.62	7.20	7.88	7.37	7.49	7.55	7.03	7.75	7.08			7.62	7.47	7.35
<b>FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	28-Jul-19	time	2.50	3.54	4.54	5.57	6.57	7.60	8.64	9.71	10.81	11.93		13.51	1 / 6				
reaction time		interval	7 steps	1.04	1.00	1.03	1.00	1.03	1.04	1.07	1.10	1.12	1.58				3.07	3.07	3.29
wind	-0.8 m/s	velocity	5.49	8.79	9.14	8.87	9.14	8.87	8.79	8.54	8.31	8.16	8.87	8.14			8.93	8.93	8.33
<b>FINAL - 2019 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	16-Feb-19	time	2.50	3.54	4.54	5.54	6.56							7.51	4 / 1				
reaction time	0.136	interval	7 steps	1.04	1.00	1.00	1.02							0.95			3.04		
		velocity	5.49	8.79	9.14	9.14	8.96							10.23	7.99		9.02		
<b>FINAL - 2018 Meeting de Paris (Paris, FRA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	30-Jun-18	time	2.44	3.48	4.52	5.54	6.54	7.58	8.60	9.64	10.74	11.84		13.40	2 / 5				
reaction time	0.129	interval	7 steps	1.04	1.04	1.02	1.00	1.04	1.02	1.04	1.10	1.10	1.56				3.10	3.06	3.24
wind	1.5 m/s	velocity	5.62	8.79	8.79	8.96	9.14	8.79	8.96	8.79	8.31	8.31	8.99	8.21			8.85	8.96	8.46
<b>FINAL - 2018 USATF Championships (Des Moines, IA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	24-Jun-18	time	2.47	3.50	4.52	5.54	6.56	7.56	8.60	9.68	10.76	11.88		13.51	7 / 3				
reaction time		interval	7 steps	1.03	1.02	1.02	1.02	1.00	1.04	1.08	1.08	1.12	1.63				3.07	3.06	3.28
wind	-1.8 m/s	velocity	5.55	8.87	8.96	8.96	8.96	9.14	8.79	8.46	8.46	8.16	8.60	8.14			8.93	8.96	8.36

<b>FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)</b> <i>Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men</i>															
date	04-Mar-18	time	2.47	3.49	4.51	5.50	6.52						7.47	7 / 2	
reaction time	0.129	interval	7 steps	1.02	1.02	0.99	1.02						0.95		3.03
wind		velocity	5.55	8.96	8.96	9.23	8.96						10.23	8.03	9.05
<b>FINAL - 2017 Galà dei Castelli (Bellinzona, SUI)</b> <i>(2017.07.18) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</i>															
date	18-Jul-17	time	2.53	3.58	4.59	5.59	6.62	7.67	8.71	9.78	10.87	12.01	13.52	3 / 2	
reaction time		interval	7 steps	1.05	1.01	1.00	1.03	1.05	1.04	1.07	1.09	1.14	1.51		3.06 3.12 3.30
wind	-0.6 m/s	velocity	5.42	8.70	9.05	9.14	8.87	8.70	8.79	8.54	8.39	8.02	9.28	8.14	8.96 8.79 8.31
<b>FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)</b> <i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	09-Jul-17	time	2.44	3.48	4.48	5.48	6.48	7.52	8.56	9.62	10.72	11.80	13.34	9 / 5	
reaction time	0.125	interval	7 steps	1.04	1.00	1.00	1.00	1.04	1.04	1.06	1.10	1.08	1.54		3.04 3.08 3.24
wind	0.0 m/s	velocity	5.62	8.79	9.14	9.14	9.14	8.79	8.79	8.62	8.31	8.46	9.10	8.25	9.02 8.90 8.46
<b>FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)</b> <i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	29-Apr-17	time	2.50	3.56	4.60	5.60	6.64	7.68	8.76	9.86	10.96	12.10	13.68	2 / 8	
reaction time		interval	7 steps	1.06	1.04	1.00	1.04	1.04	1.08	1.10	1.10	1.14	1.58		3.10 3.16 3.34
wind	1.8 m/s	velocity	5.49	8.62	8.79	9.14	8.79	8.79	8.46	8.31	8.31	8.02	8.87	8.04	8.85 8.68 8.21
<b>FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)</b> <i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>															
date	09-Sep-16	time	2.50	3.57	4.60	5.60	6.62	7.66	8.72	9.77	10.83	11.94	13.54	9 / 8	
reaction time	0.181	interval	7 steps	1.07	1.03	1.00	1.02	1.04	1.06	1.05	1.06	1.11	1.60		3.10 3.12 3.22
wind	0.2 m/s	velocity	5.49	8.54	8.87	9.14	8.96	8.79	8.62	8.70	8.62	8.23	8.76	8.12	8.85 8.79 8.52
<b>FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)</b> <i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>															
date	09-Jul-16	time	2.47	3.47	4.47	5.47	6.45	7.47	8.49	9.51	10.61	11.71	13.30	2 / 6	
reaction time	0.196	interval	7 steps	1.00	1.00	1.00	0.98	1.02	1.02	1.02	1.10	1.10	1.59		3.00 3.02 3.22
wind	1.0 m/s	velocity	5.55	9.14	9.14	9.14	9.33	8.96	8.96	8.96	8.31	8.31	8.82	8.27	9.14 9.08 8.52
<b>FINAL - 2016 Racers Grand Prix (Kingston, JAM) (TV Analysis)</b> <i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>															
date	11-Jun-16	time	2.43	3.46	4.46	5.48	6.50	7.50	8.53	9.56	10.63	11.70	13.28	5 / 3	
reaction time		interval	7 steps	1.03	1.00	1.02	1.02	1.00	1.03	1.03	1.07	1.07	1.58		3.05 3.05 3.17
wind	0.2 m/s	velocity	5.65	8.87	9.14	8.96	8.96	9.14	8.87	8.87	8.54	8.54	8.87	8.28	8.99 8.99 8.65
<b>FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)</b> <i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>															
date	28-May-16	time	2.44	3.48	4.52	5.54	6.56	7.60	8.66	9.72	10.82	11.94	13.52	7 / 5	
reaction time		interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.06	1.06	1.10	1.12	1.58		3.10 3.12 3.28
wind	0.7 m/s	velocity	5.62	8.79	8.79	8.96	8.96	8.79	8.62	8.62	8.31	8.16	8.87	8.14	8.85 8.79 8.36
<b>FINAL - 2012 Prefontaine Classic (Eugene, OR) (TV Analysis)</b> <i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>															
date	02-Jun-12	time	2.56	3.60	4.64	5.66	6.68	7.72	8.76	9.78	10.82	11.90	13.34	1 / 7	
reaction time	0.168	interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.04	1.02	1.04	1.08	1.44		3.10 3.10 3.14
wind	2.4 m/s	velocity	5.36	8.79	8.79	8.96	8.96	8.79	8.79	8.96	8.79	8.46	9.74	8.25	8.85 8.85 8.73
<b>Edwards, Eric (USA) (2000)</b>															
<b>FINAL - 2023 Weltklasse (Zürich, SUI)</b> <i>Omega Timing (2023) - diamond league race analysis</i>															
date	31-Aug-23	time	2.36	3.43	4.47	5.49	6.50	7.54	8.57	9.61	10.70	11.83	13.45	6 / 3	
reaction time	0.125	interval		1.07	1.04	1.02	1.01	1.04	1.03	1.04	1.09	1.13	1.62		3.13 3.08 3.26
wind	-0.1 m/s	velocity	5.81	8.54	8.79	8.96	9.05	8.79	8.87	8.79	8.39	8.09	8.65	8.18	8.76 8.90 8.41
<b>FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)</b> <i>Omega Timing (2023) - diamond league race analysis</i>															
date	16-Jul-23	time	2.38	3.46	4.51	5.57	6.61	7.65	8.69	9.75	10.82	11.92	13.54	9 / 6	
reaction time	0.130	interval		1.08	1.05	1.06	1.04	1.04	1.04	1.06	1.07	1.10	1.62		3.19 3.12 3.23
wind	0.3 m/s	velocity	5.76	8.46	8.70	8.62	8.79	8.79	8.79	8.62	8.54	8.31	8.65	8.12	8.60 8.79 8.49
<b>Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)</b> <i>Omega Timing (2023) - diamond league race analysis</i>															
date	16-Jul-23	time		3.46	4.50	5.53	6.57	7.62	8.64	9.68	10.73	11.80	13.36	3 / 4	
reaction time	0.137	interval			1.04	1.03	1.04	1.05	1.02	1.04	1.05	1.07	1.56		3.11 3.16
wind	0.3 m/s	velocity		6.61	8.79	8.87	8.79	8.70	8.96	8.79	8.70	8.54	8.99	8.23	8.82 8.68
<b>FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)</b> <i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>															
date	09-Jul-23	time	2.53	3.58	4.60	5.60	6.62	7.65	8.68	9.71	10.75	11.81	13.26	1 / 4	
reaction time		interval		1.05	1.02	1.00	1.02	1.03	1.03	1.03	1.04	1.06	1.45		3.07 3.08 3.13
wind	-0.2 m/s	velocity	5.42	8.70	8.96	9.14	8.96	8.87	8.87	8.87	8.79	8.62	9.67	8.30	8.93 8.90 8.76
<b>FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)</b> <i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>															
date	24-Jun-23	time	2.50	3.54	4.59	5.61	6.62	7.64	8.67	9.71	10.76	11.83	13.23	8 / 4	
reaction time	0.127	interval		1.04	1.05	1.02	1.01	1.02	1.03	1.04	1.05	1.07	1.40		3.11 3.06 3.16
wind	1.6 m/s	velocity	5.49	8.79	8.70	8.96	9.05	8.96	8.87	8.79	8.70	8.54	10.01	8.31	8.82 8.96 8.68
<b>FINAL - 2023 Meeting de Paris (Paris, FRA)</b> <i>Omega Timing (2023) - diamond league race analysis</i>															
date	09-Jun-23	time	2.32	3.39	4.42	5.45	6.48	7.51	8.55	9.58	10.65	11.72	13.32	1 / 8	
reaction time	0.130	interval		1.07	1.03	1.03	1.03	1.03	1.04	1.03	1.07	1.07	1.60		3.13 3.10 3.17

wind	-0.5 m/s	velocity	5.91	8.54	8.87	8.87	8.87	8.87	8.79	8.87	8.54	8.54	8.76	8.26	8.76	8.85	8.65	
<b>Heat 1 - 2023 Meeting de Paris (Paris, FRA)</b>														Omega Timing (2023) - diamond league race analysis				
date	09-Jun-23	time	2.39	3.46	4.50	5.53	6.56	7.60	8.64	9.69	10.75	11.81	13.39	2 / 4				
reaction time	0.129	interval	1.04	1.04	1.03	1.03	1.04	1.04	1.05	1.06	1.06	1.58			3.14	3.11	3.17	
wind	-2.0 m/s	velocity	5.74	8.54	8.79	8.87	8.87	8.79	8.79	8.70	8.62	8.62	8.87	8.22	8.73	8.82	8.65	
<b>FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)</b>														Henson (2023) - Athlete First: 2023 year end hurdle report				
date	04-Jun-23	time	2.56	3.60	4.64	5.67	6.70	7.73	8.76	9.80	10.83	11.93	13.29	3 / 3				
reaction time	0.122	interval	1.04	1.04	1.03	1.03	1.03	1.03	1.04	1.03	1.10	1.36			3.11	3.09	3.17	
wind	0.4 m/s	velocity	5.36	8.79	8.79	8.87	8.87	8.87	8.87	8.79	8.87	8.31	10.31	8.28	8.82	8.87	8.65	
<b>FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)</b>														Henson (2023) - Athlete First: 2023 year end hurdle report				
date	21-May-23	time	2.53	3.56	4.56	5.56	6.56	7.56	8.56	9.60	10.64	11.70	13.07	2 / 2				
reaction time	0.122	interval	1.03	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.04	1.06	1.37		3.03	3.00	3.14	
wind	4.0 m/s	velocity	5.42	8.87	9.14	9.14	9.14	9.14	9.14	8.79	8.79	8.62	10.23	8.42	9.05	9.14	8.73	
<b>FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)</b>														Henson (2022) - Athlete First: 2022 year end hurdle report				
date	26-Jun-22	time	2.57	3.63	4.70	5.74	6.78	7.82	8.87	9.94	11.02	12.11	13.76	8 / 7				
reaction time		interval	1.06	1.07	1.04	1.04	1.04	1.04	1.05	1.07	1.08	1.09	1.65		3.17	3.13	3.24	
wind	1.2 m/s	velocity	5.34	8.62	8.54	8.79	8.79	8.79	8.70	8.54	8.46	8.39	8.50	7.99	8.65	8.76	8.46	
<b>Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)</b>														USATF (2022) - Results powered by Karmarush.com				
date	26-Jun-22	time	2.42	3.45	4.53	5.51	6.54	7.60	8.61	9.64	10.56	11.66	13.29	5 / 3				
reaction time		interval	1.03	1.08	0.98	1.03	1.06	1.01	1.03	0.92	1.10	1.63			3.09	3.10	3.05	
wind	0.4 m/s	velocity	5.67	8.87	8.46	9.33	8.87	8.62	9.05	8.87	9.93	8.31	8.60	8.28	8.87	8.85	8.99	
<b>FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)</b>														Henson (2022) - Athlete First: 2022 year end hurdle report				
date	10-Jun-22	time	2.44	3.47	4.47	5.46	6.46	7.46	8.47	9.49	10.53	11.61	13.15	6 / 2				
reaction time		interval	1.03	1.00	0.99	1.00	1.00	1.01	1.02	1.04	1.08	1.54	PB		3.02	3.01	3.14	
wind	0.0 m/s	velocity	5.62	8.87	9.14	9.23	9.14	9.14	9.05	8.96	8.79	8.46	9.10	8.37	9.08	9.11	8.73	
<b>Efremov, David (KAZ) (1999)</b>			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 Asian Grand Prix 2 (Chongqing, CHN)</b>														CAA Hurdle Development (2019)				
date	07-Jun-19	time	2.66	3.75	4.78	5.84	6.90	7.95	9.02	10.12	11.20	12.32	13.81	8 / 4				
reaction time	0.186	interval	7 steps	1.09	1.03	1.06	1.06	1.05	1.07	1.10	1.08	1.12	1.49	PB		3.18	3.18	3.30
wind	1.2 m/s	velocity	5.16	8.39	8.87	8.62	8.62	8.70	8.54	8.31	8.46	8.16	9.41	7.97		8.62	8.62	8.31
<b>FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)</b>														CAA Hurdle Development (2019)				
date	04-Jun-19	time	2.65	3.70	4.77	5.79	6.87	7.95	9.05	10.16	11.26	12.39	13.91	9 / 4				
reaction time	0.174	interval	7 steps	1.05	1.07	1.02	1.08	1.08	1.10	1.11	1.10	1.13	1.52		3.14	3.26	3.34	
wind	-0.3 m/s	velocity	5.18	8.70	8.54	8.96	8.46	8.46	8.31	8.23	8.31	8.09	9.22	7.91		8.73	8.41	8.21
<b>FINAL - 2019 Asian Athletics Championships (Doha, QAT)</b>														CAA Hurdle Development (2019)				
date	24-Apr-19	time	2.65	3.72	4.76	5.81	6.82	7.89	8.96	10.03	11.13	12.25	13.83	3 / 6				
reaction time	0.168	interval	7 steps	1.07	1.04	1.05	1.01	1.07	1.07	1.07	1.10	1.12	1.58	PB		3.16	3.15	3.29
wind	1.7 m/s	velocity	5.18	8.54	8.79	8.70	9.05	8.54	8.54	8.54	8.31	8.16	8.87	7.95		8.68	8.70	8.33
<b>Eida, Ryusei (JPN) (2000)</b>			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99m)</b>														JAF (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection				
date	06-Aug-18	time	2.70	3.83	4.94	6.06	7.18	8.32	9.47	10.60	11.76	12.89	14.35	7 / 7				
reaction time		interval	1.13	1.11	1.12	1.12	1.14	1.15	1.13	1.16	1.13	1.46			3.36	3.41	3.42	
wind	1.6 m/s	velocity	5.08	8.09	8.23	8.16	8.16	8.02	7.95	8.09	7.88	8.09	9.60	7.67		8.16	8.04	8.02
<b>English, Andre (USA) (1984)</b>			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)</b>														USATF Women's Sprint Development (2003)				
date	22-Jun-03	time	2.63	3.75	4.89	6.01	7.12	8.24	9.39	10.54	11.69	12.85	14.52	9 / 8				
reaction time		interval	1.12	1.14	1.12	1.11	1.12	1.15	1.15	1.15	1.16	1.67			3.38	3.38	3.46	
wind	-0.4 m/s	velocity	5.22	8.16	8.02	8.16	8.23	8.16	7.95	7.95	7.95	7.88	8.40	7.58		8.11	8.11	7.92
<b>Ewen, Tim (AUS) (1977)</b>			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>FINAL - 2002 IAAF World Cup (Madrid, ESP)</b>														Sanchez (2002) - copa del mundo de Madrid '02: analisis de la carreras con villas				
date	21-Sep-02	time	2.69	3.78	4.85	5.93	6.97	8.03	9.13	10.22	11.31	12.42	14.10	8 / 7				
reaction time	0.140	interval	1.09	1.07	1.08	1.04	1.06	1.10	1.09	1.09	1.11	1.68			3.24	3.20	3.29	
wind	-2.2 m/s	velocity	5.10	8.39	8.54	8.46	8.79	8.62	8.31	8.39	8.39	8.23	8.35	7.80		8.46	8.57	8.33
<b>Faragona, Alessandro (ITA) (1995)</b>			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>FINAL - 2012 Italian National Indoor Youth Championships (Ancona, ITA) (91cm)</b>														FIDAL - Centro Studi & Ricerche (2012) - www.youtube.com/watch?v=SIDALf6RdBY				
date	18-Feb-12	time	2.68	3.78	4.83	5.87	6.93						7.93	4 / 1				
reaction time		interval	7 steps	1.10	1.05	1.04	1.06					1.00	PB		3.19			
		velocity	5.12	8.31	8.70	8.79	8.62					9.72	7.57		8.60			
<b>Fareed, Naim (USA) (1996)</b>			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														CAA Hurdle Development (2020)				
date	15-Feb-20	time	2.63	3.72	4.80	5.86	6.96						7.95	1 / 7				

reaction time	0.136	interval	1.09	1.08	1.06	1.10							0.99			3.23			
		velocity	5.22	8.39	8.46	8.62	8.31							9.82	7.55		8.49		
<b>Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>																			
date	14-Feb-20	time	2.64	3.70	4.79	5.86	6.99								7.94		7 / 5		CAA Hurdle Development (2020)
reaction time	0.153	interval	1.06	1.09	1.07	1.13							0.95			3.22			
		velocity	5.20	8.62	8.39	8.54	8.09							10.23	7.56		8.52		
<b>Faulk, Dexter (USA) (1984)</b>																			
<b>FINAL - 2012 USA Olympic Trials (Eugene, OR)</b>																			
date	30-Jun-12	time	2.42	3.46	4.48	5.50	6.56	7.60	8.62	9.64	10.69	11.74			13.23		8 / 6		Henson (2020) - Athlete First: 2012 Aries Merritt world record season
reaction time	0.142	interval	1.04	1.02	1.02	1.06	1.04	1.02	1.02	1.05	1.05	1.49					3.08	3.12	3.12
wind	1.2 m/s	velocity	5.67	8.79	8.96	8.96	8.62	8.79	8.96	8.96	8.70	8.70	9.41		8.31		8.90	8.79	8.79
<b>FINAL - 2012 Prefontaine Classic (Eugene, OR) (TV Analysis)</b>																			
date	02-Jun-12	time	2.52	3.56	4.58	5.60	6.60	7.60	8.62	9.64	10.66	11.74			13.12		7 / 4		Henson (2020) - Athlete First: 2012 Aries Merritt world record season
reaction time	0.143	interval	1.04	1.02	1.02	1.00	1.00	1.02	1.02	1.02	1.02	1.08	1.38				3.08	3.02	3.12
wind	2.4 m/s	velocity	5.44	8.79	8.96	8.96	9.14	9.14	8.96	8.96	8.96	8.46	10.16		8.38		8.90	9.08	8.79
<b>FINAL - 2012 Golden Grand Prix (Shanghai, CHN) (TV Analysis)</b>																			
date	19-May-12	time	2.52	3.58	4.62	5.64	6.66	7.70	8.74	9.80	10.86	11.94			13.43		2 / 5		Henson (2020) - Athlete First: 2012 Aries Merritt world record season
reaction time	0.177	interval	1.06	1.04	1.02	1.02	1.04	1.04	1.04	1.06	1.06	1.08	1.49				3.12	3.10	3.20
wind	0.4 m/s	velocity	5.44	8.62	8.79	8.96	8.96	8.79	8.79	8.62	8.62	8.46	9.41		8.19		8.79	8.85	8.57
<b>FINAL - 2009 ISTAF (Berlin, GER)</b>																			
date	14-Jun-09	time	2.55	3.61	4.63	5.66	6.69	7.70	8.75	9.77	10.81	11.86			13.18		4 / 1		Graubner (2009) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>
reaction time	0.147	interval	1.06	1.02	1.03	1.03	1.01	1.05	1.02	1.04	1.05	1.32	<b>PB</b>				3.11	3.09	3.11
wind	0.7 m/s	velocity	5.38	8.62	8.96	8.87	8.87	9.05	8.70	8.96	8.79	8.70	10.62		8.35		8.82	8.87	8.82
<b>Semi-Final 2 - 2007 USATF National Championships (Indianapolis, IN)</b>																			
date	24-Jun-07	time	2.65	3.69	4.72	5.76	6.81	7.86	8.90	9.99	11.04	12.12			13.52		1 / 5		USATF Men's Hurdle Development (2007)
reaction time		interval	1.04	1.03	1.04	1.05	1.05	1.04	1.09	1.05	1.08	1.40					3.11	3.14	3.22
wind	-0.9 m/s	velocity	5.18	8.79	8.87	8.79	8.70	8.79	8.39	8.70	8.46	10.01		8.14		8.82	8.73	8.52	
<b>Heat 1 - 2007 USATF National Championships (Indianapolis, IN)</b>																			
date	23-Jun-07	time	2.56	3.65	4.67	5.72	6.87	7.93	9.01	10.08	11.18	12.23			13.67		1 / 4		USATF Men's Hurdle Development (2007)
reaction time		interval	1.09	1.02	1.05	1.15	1.06	1.08	1.07	1.10	1.05	1.44					3.16	3.29	3.22
wind	0.1 m/s	velocity	5.36	8.39	8.96	8.70	7.95	8.62	8.46	8.54	8.31	8.70	9.74		8.05		8.68	8.33	8.52
<b>FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)</b>																			
date	21-Jun-03	time	2.55	3.64	4.72	5.76	6.82	7.89	8.94	10.03	11.11	12.19			13.75		5 / 2		USATF Women's Sprint Development (2003)
reaction time		interval	1.09	1.08	1.04	1.06	1.07	1.05	1.09	1.08	1.08	1.56					3.21	3.18	3.25
wind	-2.4 m/s	velocity	5.38	8.39	8.46	8.79	8.62	8.54	8.70	8.39	8.46	8.46	8.99		8.00		8.54	8.62	8.44
<b>Favaro, Denis (ITA) (1972)</b>																			
<b>FINAL - 2002 European Championships (Munich, GER)</b>																			
date	10-Aug-02	time	2.73	3.79	4.85	5.89	6.93	7.95	8.99	10.03	11.09	12.18			13.59		1 / 6		Graubner (2009) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>
reaction time	0.202	interval	1.06	1.06	1.04	1.04	1.02	1.04	1.04	1.04	1.06	1.09	1.41	<b>PB</b>			3.16	3.10	3.19
wind	0.4 m/s	velocity	5.03	8.62	8.62	8.79	8.79	8.96	8.79	8.79	8.62	8.39	9.94		8.09		8.68	8.85	8.60
<b>Fei Xiang (CHN) (1998)</b>																			
<b>Decathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)</b>																			
date	27-Jun-21	time	2.82	4.02	5.20	6.39	7.57	8.79	9.99	11.19	12.43	13.66			15.28		4 / 5		CAA Hurdle Development (2021)
reaction time	0.186	interval	1.20	1.18	1.19	1.18	1.22	1.20	1.20	1.24	1.23	1.62					3.57	3.60	3.67
wind	-0.2 m/s	velocity	4.87	7.62	7.75	7.68	7.75	7.49	7.62	7.62	7.37	7.43	8.65		7.20		7.68	7.62	7.47
<b>Decathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)</b>																			
date	23-Aug-19	time	2.87	4.10	5.30	6.54	7.74	8.96	10.19	11.41	12.64	13.88			15.46		5 / 2		CAA Hurdle Development (2019)
reaction time	0.197	interval	1.23	1.20	1.24	1.20	1.22	1.23	1.22	1.23	1.24	1.58					3.67	3.65	3.69
wind	?? m/s	velocity	4.78	7.43	7.62	7.37	7.62	7.49	7.43	7.49	7.43	7.37	8.87		7.12		7.47	7.51	7.43
<b>Decathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)</b>																			
date	11-Jul-19	time	2.82	4.00	5.17	6.34	7.52	8.71	9.89	11.11	12.31	13.54			15.10		3 / 3		CAA Hurdle Development (2019)
reaction time	0.165	interval	1.18	1.17	1.17	1.18	1.19	1.18	1.22	1.20	1.23	1.56	<b>PB</b>				3.52	3.55	3.65
wind	-0.6 m/s	velocity	4.87	7.75	7.81	7.81	7.75	7.68	7.75	7.49	7.62	7.43	8.99		7.28		7.79	7.72	7.51
<b>Fenner, Mike (GER) (1971)</b>																			
<b>FINAL - 2002 European Championships (Munich, GER)</b>																			
date	10-Aug-02	time	2.63	3.67	4.71	5.73	6.75	7.77	8.83	9.85	10.91	11.97			13.39		1 / 5		Graubner (2009) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>
reaction time	0.161	interval	1.04	1.04	1.02	1.02	1.02	1.06	1.02	1.06	1.06	1.42					3.10	3.10	3.14
wind	0.4 m/s	velocity	5.22	8.79	8.79	8.96	8.96	8.96	8.62	8.96	8.62	8.62	9.87		8.22		8.85	8.85	8.73
<b>Semi-Final 2 - 2002 European Championships (Munich, GER)</b>																			
date	10-Aug-02	time	2.62	3.66	4.70	5.72	6.76	7.78	8.80	9.84	10.92	11.99			13.44		1 / 2		Graubner (2009) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>
reaction time	0.138	interval	1.04	1.04	1.02	1.04	1.02	1.02	1.04	1.08	1.07	1.45					3.10	3.08	3.19

wind	0.8 m/s	velocity	5.24	8.79	8.79	8.96	8.79	8.96	8.96	8.79	8.46	8.54	9.67	8.18	8.85	8.90	8.60	
<b>Heat 2 - 2002 European Championships (Munich, GER)</b>															<i>Graubner (2009) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a></i>			
date	09-Aug-02	time	2.64	3.70	4.76	5.81	6.84	7.88	8.94	9.99	11.05	12.14		13.57				
reaction time	0.134	interval		1.06	1.06	1.05	1.03	1.04	1.06	1.05	1.06	1.09	1.43		3.17	3.13	3.20	
wind	0.5 m/s	velocity	5.20	8.62	8.62	8.70	8.87	8.79	8.62	8.70	8.62	8.39	9.80	8.11	8.65	8.76	8.57	
<b>FINAL - 2001 ISTAF (Berlin, GER)</b>															<i>Graubner (2009) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a></i>			
date	31-Aug-01	time	2.62	3.70	4.79	5.86	6.92	8.01	9.09	10.18	11.27	12.38		13.83				
reaction time		interval		1.08	1.09	1.07	1.06	1.09	1.08	1.09	1.09	1.11	1.45		3.24	3.23	3.29	
wind	1.0 m/s	velocity	5.24	8.46	8.39	8.54	8.62	8.39	8.46	8.39	8.39	8.23	9.67	7.95	8.46	8.49	8.33	
<b>FINAL - 1998 European Championships (Budapest, HUN)</b>															<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>			
date	22-Aug-98	time	2.61	3.63	4.68	5.72	6.74	7.77	8.82	9.85	10.88	11.97		13.38				
reaction time		interval		1.02	1.05	1.04	1.02	1.03	1.05	1.03	1.03	1.09	1.41		3.11	3.10	3.15	
wind	1.5 m/s	velocity	5.26	8.96	8.70	8.79	8.96	8.87	8.70	8.87	8.87	8.39	9.94	8.22	8.82	8.85	8.70	
<b>Ferguson, Kenneth (USA) (1984)</b>																		
<b>FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)</b>															<i>USATF Women's Sprint Development (2003)</i>			
date	21-Jun-03	time	2.55	3.62	4.67	5.69	6.72	7.75	8.79	9.86	10.94	12.04		13.60				
reaction time		interval		1.07	1.05	1.02	1.03	1.03	1.04	1.07	1.08	1.10	1.56		3.14	3.10	3.25	
wind	-2.4 m/s	velocity	5.38	8.54	8.70	8.96	8.87	8.87	8.79	8.54	8.46	8.31	8.99	8.09	8.73	8.85	8.44	
<b>Ferreira, João (POR) (1986)</b>																		
<b>FINAL - 2010 European Team Championships, 1st League (Budapest, HUN)</b>															<i>Blomkvist (2010) - <a href="http://www.sub13.se">www.sub13.se</a></i>			
date	20-Jun-10	time	2.62	3.67	4.75	5.80	6.87	7.96	9.04	10.13	11.24	12.36		13.97				
reaction time	0.168	interval		1.05	1.08	1.05	1.07	1.09	1.08	1.09	1.11	1.12	1.61		3.18	3.24	3.32	
wind	1.1 m/s	velocity	5.24	8.70	8.46	8.70	8.54	8.39	8.46	8.39	8.23	8.16	8.71	7.87	8.62	8.46	8.26	
<b>Fillyer, Cameron (GBR) (1998)</b>																		
<b>FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)</b>															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	21-May-22	time	2.57	3.67	4.73	5.79	6.88	7.93	8.98	10.08	11.17	12.28		13.90				
reaction time	0.126	interval		7 steps	1.10	1.06	1.06	1.09	1.05	1.05	1.10	1.09	1.11	1.62		3.22	3.19	3.30
wind	0.7 m/s	velocity	5.34	8.31	8.62	8.62	8.39	8.70	8.70	8.31	8.39	8.23	8.65	7.91	8.52	8.60	8.31	
<b>FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)</b>															<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>			
date	25-Sep-20	time	2.52	3.64	4.72	5.76	6.80	7.84	8.92	10.00	11.08	12.16		13.76				
reaction time	0.128	interval		7 steps	1.12	1.08	1.04	1.04	1.08	1.08	1.08	1.08	1.60		3.24	3.16	3.24	
wind	0.3 m/s	velocity	5.44	8.16	8.46	8.79	8.79	8.46	8.46	8.46	8.46	8.76	7.99		8.46	8.68	8.46	
<b>FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)</b>															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	18-Aug-19	time	2.58	3.65	4.74	5.76	6.77	7.78	8.83	9.88	10.92	12.02		13.54				
reaction time	0.109	interval		7 steps	1.07	1.09	1.02	1.01	1.01	1.05	1.05	1.04	1.10	1.52	PB	3.18	3.07	3.19
wind	-0.2 m/s	velocity	5.32	8.54	8.39	8.96	9.05	9.05	8.70	8.70	8.79	8.31	9.22	8.12	8.62	8.93	8.60	
<b>Fofana, Hassane (ITA) (1992)</b>																		
<b>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	21-Aug-23	time	2.56	3.66	4.73	5.75	6.78	7.82	8.88	9.92	10.96	12.03		13.50				
reaction time	0.147	interval		7 steps	1.10	1.07	1.02	1.03	1.04	1.06	1.04	1.04	1.07	1.47		3.19	3.13	3.15
wind	-0.1 m/s	velocity	5.36	8.31	8.54	8.96	8.87	8.79	8.62	8.79	8.79	8.54	9.54	8.15	8.60	8.76	8.70	
<b>Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>															<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	20-Aug-23	time	2.63	3.68	4.78	5.83	6.86	7.90	8.95	10.00	11.04	12.10		13.53				
reaction time	0.141	interval		7 steps	1.05	1.10	1.05	1.03	1.04	1.05	1.05	1.04	1.06	1.43		3.20	3.12	3.15
wind	0.5 m/s	velocity	5.22	8.70	8.31	8.70	8.87	8.79	8.70	8.70	8.79	8.62	9.80	8.13	8.57	8.79	8.70	
<b>Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)</b>															<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>			
date	20-Mar-22	time	2.48	3.54	4.58	5.60	6.64							7.65				
reaction time	0.122	interval		1.06	1.04	1.02	1.04						1.01	PB	3.12			
		velocity	5.53	8.62	8.79	8.96	8.79						9.62	7.84	8.79			
<b>FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)</b>															<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>			
date	11-Aug-20	time	2.60	3.70	4.80	5.85	6.91	8.00	9.08	10.14	11.22	12.30		13.88				
reaction time	0.170	interval		7 steps	1.10	1.10	1.05	1.06	1.09	1.08	1.06	1.08	1.08	1.58		3.25	3.23	3.22
wind	1.1 m/s	velocity	5.28	8.31	8.31	8.70	8.62	8.39	8.46	8.62	8.46	8.46	8.87	7.93	8.44	8.49	8.52	
<b>Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)</b>															<i>CAA Hurdle Development (2019)</i>			
date	02-Oct-19	time	2.60	3.67	4.72	5.75	6.79	7.83	8.87	9.92	10.99	12.08		13.52				
reaction time	0.155	interval		7 steps	1.07	1.05	1.03	1.04	1.04	1.04	1.05	1.07	1.09	1.44		3.15	3.12	3.21
wind	0.9 m/s	velocity	5.28	8.54	8.70	8.87	8.79	8.79	8.79	8.70	8.54	8.39	9.74	8.14	8.70	8.79	8.54	
<b>FINAL - 2015 Italian National Championships (Torino, ITA)</b>															<i>Incalza (FIDAL - Centro Studi &amp; Ricerche) (2015) - <a href="https://www.youtube.com/watch?v=Ytpg1XHNpfg">https://www.youtube.com/watch?v=Ytpg1XHNpfg</a></i>			
date	25-Jul-15	time	2.66	3.74	4.79	5.82	6.85	7.91	8.96	9.99	11.09	12.17		13.59				
reaction time		interval		1.08	1.05	1.03	1.03	1.06	1.05	1.03	1.10	1.08	1.42		3.16	3.14	3.21	
wind	1.8 m/s	velocity	5.16	8.46	8.70	8.87	8.87	8.62	8.70	8.87	8.31	8.46	9.87	8.09	8.68	8.73	8.54	

<b>Heat 4 - 2014 European Championships (Zurich, SUI)</b>														<i>Incalza (2014) - https://www.youtube.com/watch?v=wFOM-j9iZHE&amp;list=UU7691fXeyNFIMROfkJ-WWUg</i>						
date	13-Aug-14	time	2.64	3.71	4.74	5.79	6.83	7.86	8.89	9.93	10.99	12.08	13.55	2 / 5						
reaction time	0.130	interval		1.07	1.03	1.05	1.04	1.03	1.03	1.04	1.06	1.09	1.47	<b>PB</b>		3.15	3.10	3.19		
wind	0.7 m/s	velocity	5.20	8.54	8.87	8.70	8.79	8.87	8.87	8.79	8.62	8.39	9.54	8.12		8.70	8.85	8.60		
<b>Fontenot, Ryan (USA) (1986)</b>														<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>						
<b>FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														<i>CAA Hurdle Development (2020)</i>						
date	15-Feb-20	time	2.67	3.73	4.80	5.84	6.87							7.84	8 / 7					
reaction time	0.170	interval		1.06	1.07	1.04	1.03						0.97			3.17				
		velocity	5.14	8.62	8.54	8.79	8.87						10.02	7.65		8.65				
<b>Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														<i>CAA Hurdle Development (2020)</i>						
date	15-Feb-20	time	2.67	3.73	4.79	5.82	6.85							7.79	3 / 4					
reaction time	0.151	interval		1.06	1.06	1.03	1.03						0.94			3.15				
		velocity	5.14	8.62	8.62	8.87	8.87						10.34	7.70		8.70				
<b>Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														<i>CAA Hurdle Development (2020)</i>						
date	14-Feb-20	time	2.66	3.74	4.79	5.84	6.89							7.81	4 / 2					
reaction time	0.160	interval		1.08	1.05	1.05	1.05						0.92			3.18				
		velocity	5.16	8.46	8.70	8.70	8.70						10.57	7.68		8.62				
<b>FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)</b>														<i>Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season</i>						
date	19-May-19	time	2.67	3.75	4.82	5.91	6.95	8.01	9.06	10.10	11.18	12.27		13.70	6 / 6					
reaction time	0.157	interval		1.08	1.07	1.09	1.04	1.06	1.05	1.04	1.08	1.09	1.43			3.24	3.15	3.21		
wind	2.9 m/s	velocity	5.14	8.46	8.54	8.39	8.79	8.62	8.70	8.79	8.46	8.39	9.80	8.03		8.46	8.70	8.54		
<b>Forsberg, Anton (SWE) (1991)</b>														<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>						
<b>FINAL - 2010 Swedish National Championships (Falun, SWE)</b>														<i>Blomkvist (2010) - www.sub13.se</i>						
date	22-Aug-10	time	2.82	4.00	5.15	6.30	7.43	8.59	9.78	10.97	12.16	13.39		15.02	/ 6					
reaction time		interval		1.18	1.15	1.15	1.13	1.16	1.19	1.19	1.19	1.23	1.63			3.48	3.48	3.61		
wind	-0.7 m/s	velocity	4.87	7.75	7.95	7.95	8.09	7.88	7.68	7.68	7.68	7.43	8.60	7.32		7.88	7.88	7.60		
<b>B FINAL - 2010 Folksam GP (Sollentuna, SWE)</b>														<i>Blomkvist (2010) - www.sub13.se</i>						
date	01-Jul-10	time	2.60	3.77	4.90	6.05	7.24	8.33	9.55	10.72	11.97	13.28		15.16	/ 3					
reaction time		interval		1.17	1.13	1.15	1.19	1.09	1.22	1.17	1.25	1.31	1.88	<b>PB</b>		3.45	3.50	3.73		
wind	0.8 m/s	velocity	5.28	7.81	8.09	7.95	7.68	8.39	7.49	7.81	7.31	6.98	7.46	7.26		7.95	7.83	7.35		
<b>Foster, Charles (USA) (1953)</b>														<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>						
<b>Heat 1 - 1976 Olympic Games (Montreal, CAN)</b>														<i>Lamare (1976) - les jeux de la XXI olympia, Montreal 1976</i>						
date	26-Jul-76	time	2.4			5.5	6.6							13.68	6 / 1					
reaction time		interval				3.15	1.07									3.15				
wind	0.0 m/s	velocity	5.84			8.70	8.54							8.04		8.70				
<b>Foster, Greg (USA) (1958)</b>														<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>						
<b>FINAL - 1987 IAAF World Championships (Rome, ITA)</b>														<i>Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics</i>						
date	03-Sep-87	time	2.60	3.64	4.64	5.64	6.64	7.65	8.67	9.72	10.76	11.81		13.21	3 / 1					
reaction time		interval		1.04	1.00	1.00	1.00	1.01	1.02	1.05	1.04	1.05	1.40			3.04	3.03	3.14		
wind	0.5 m/s	velocity	5.28	8.79	9.14	9.14	9.14	9.05	8.96	8.70	8.79	8.70	10.01	8.33		9.02	9.05	8.73		
<b>Semi-Final 1 - 1987 IAAF World Championships (Rome, ITA)</b>														<i>Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics</i>						
date	01-Sep-87	time	2.60	3.65	4.68	5.70	6.72	7.76	8.79	9.85	10.93	11.99		13.41	6 / 2					
reaction time		interval		1.05	1.03	1.02	1.02	1.04	1.03	1.06	1.08	1.06	1.42			3.10	3.09	3.20		
wind	-0.5 m/s	velocity	5.28	8.70	8.87	8.96	8.96	8.79	8.87	8.62	8.46	8.62	9.87	8.20		8.85	8.87	8.57		
<b>Heat 1 - 1987 IAAF World Championships (Rome, ITA)</b>														<i>Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics</i>						
date	01-Sep-87	time	2.60	3.63	4.64	5.64	6.64	7.62	8.63	9.67	10.72	11.79		13.20	8 / 1					
reaction time		interval		1.03	1.01	1.00	1.00	0.98	1.01	1.04	1.05	1.07	1.41	<b>CR</b>		3.04	2.99	3.16		
wind	1.4 m/s	velocity	5.28	8.87	9.05	9.14	9.14	9.33	9.05	8.79	8.70	8.54	9.94	8.33		9.02	9.17	8.68		
<b>FINAL - 1983 IAAF World Championships (Helsinki, FIN)</b>														<i>Knoke (1984) - the hurdles</i>						
date	12-Aug-83	time	2.58	3.68	4.62	5.62	6.61	7.61	8.60	9.61	10.68	11.81		13.42	5 / 1					
reaction time	0.191	interval		1.10	0.94	1.00	0.99	1.00	0.99	1.01	1.07	1.13	1.61			3.04	2.98	3.21		
wind	1.3 m/s	velocity	5.32	8.31	9.72	9.14	9.23	9.14	9.23	9.05	8.54	8.09	8.71	8.20		9.02	9.20	8.54		
<b>FINAL - 1981 USSR vs. USA (Leningrad, URS)</b>														<i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>						
date	10-Jul-81	time	2.48	3.58	4.60	5.61	6.62	7.67	8.72	9.82	10.92	12.02		13.30	/ 1					
reaction time		interval		1.10	1.02	1.01	1.01	1.05	1.05	1.10	1.10	1.10	1.28			3.13	3.11	3.30		
wind	2.8 m/s	velocity	5.53	8.31	8.96	9.05	9.05	8.70	8.70	8.31	8.31	8.31	10.95	8.27		8.76	8.82	8.31		
<b>Foster, Jasher (USA) (1998)</b>														<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>						
<b>FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)</b>														<i>CAA Hurdle Development (2020)</i>						
date	14-Feb-20	time	2.64	3.74	4.82	5.89	6.97							7.95	7 / 4					
reaction time		interval		1.10	1.08	1.07	1.08						0.98			3.25				
		velocity	5.20	8.31	8.46	8.54	8.46						9.92	7.55		8.44				



date	20-May-17	time	2.71	3.81	4.86	5.94	7.01	8.10	9.18	10.28	11.37	12.50	14.00	2 / 5					
reaction time		interval	7 steps	1.10	1.05	1.08	1.07	1.09	1.08	1.10	1.09	1.13	1.50		3.23	3.24	3.32		
wind	1.1 m/s	velocity	5.06	8.31	8.70	8.46	8.54	8.39	8.46	8.31	8.39	8.09	9.35	7.86	8.49	8.46	8.26		
<b>Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)</b>														<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>					
date	07-May-17	time	2.77	3.85	4.96	6.06	7.16	8.24	9.37	10.51	11.61	12.75	14.27	5 / 6					
reaction time		interval	7 steps	1.08	1.11	1.10	1.10	1.08	1.13	1.14	1.10	1.14	1.52		3.29	3.31	3.38		
wind	-1.5 m/s	velocity	4.95	8.46	8.23	8.31	8.31	8.46	8.09	8.02	8.31	8.02	9.22	7.71	8.33	8.28	8.11		
<b>FINAL - 2017 Michitaka Memorial (Osaka, JPN)</b>														<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>					
date	07-May-17	time	2.72	3.81	4.92	6.00	7.10	8.19	9.29	10.39	11.52	12.63	14.14	1 / 6					
reaction time		interval	7 steps	1.09	1.11	1.08	1.10	1.09	1.10	1.10	1.13	1.11	1.51		3.28	3.29	3.34		
wind	-0.8 m/s	velocity	5.04	8.39	8.23	8.46	8.31	8.39	8.31	8.31	8.09	8.23	9.28	7.78	8.36	8.33	8.21		
<b>B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)</b>														<i>(2017) - tfdata-store.com/2017/05/01/458/</i>					
date	29-Apr-17	time	2.72	3.83	4.92	6.00	7.09	8.18	9.29	10.40	11.54	12.68	14.20	1 / 5					
reaction time		interval	7 steps	1.11	1.09	1.08	1.09	1.09	1.11	1.11	1.14	1.14	1.52		3.28	3.29	3.39		
wind	-1.5 m/s	velocity	5.04	8.23	8.39	8.46	8.39	8.39	8.23	8.23	8.02	8.02	9.22	7.75	8.36	8.33	8.09		
<b>FINAL - 2016 Japanese National Championships (Nagoya, JPN)</b>														<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>					
date	26-Jun-16	time	2.64	3.74	4.80	5.87	6.93	7.98	9.05	10.11	11.19	12.27	13.71	4 / 5					
reaction time	0.140	interval		1.10	1.06	1.07	1.06	1.05	1.07	1.06	1.08	1.08	1.44		3.23	3.18	3.22		
wind	2.4 m/s	velocity	5.20	8.31	8.62	8.54	8.62	8.70	8.54	8.62	8.46	8.46	9.74	8.02	8.49	8.62	8.52		
<b>FINAL - 2016 Fuse Sprint (Tottori, JPN)</b>														<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>					
date	05-Jun-16	time	2.67	3.75	4.83	5.89	6.96	8.05	9.14	10.23	11.33	12.46	13.96	8 / 8					
reaction time		interval		1.08	1.08	1.06	1.07	1.09	1.09	1.09	1.10	1.13	1.50		3.22	3.25	3.32		
wind	1.4 m/s	velocity	5.14	8.46	8.46	8.62	8.54	8.39	8.39	8.39	8.31	8.09	9.35	7.88	8.52	8.44	8.26		
<b>FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>														<i>Takashima (2015) - race analysis of 110m &amp; 100m hurdles in Japan- results 2015 competitions</i>					
date	03-May-15	time	2.74	3.86	4.93	6.01	7.08	8.14	9.22	10.30	11.40	12.51	13.99	/ 4					
reaction time		interval		1.12	1.07	1.08	1.07	1.06	1.08	1.08	0.10	2.11	1.48		3.27	3.21	3.29		
wind	-0.8 m/s	velocity	5.01	8.16	8.54	8.46	8.54	8.62	8.46	8.46	91.40	4.33	9.47	7.86	8.39	8.54	8.33		
<b>Fujihara, Koki (JPN) (2002)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)</b>														<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	29-Apr-22	time	2.63	3.74	4.80	5.85	6.90	7.99	9.10	10.23	11.38	12.50	14.03	8 / 4					
reaction time	0.177	interval	7 steps	1.11	1.06	1.05	1.05	1.09	1.11	1.13	1.15	1.12	1.53		3.22	3.25	3.40		
wind	-0.7 m/s	velocity	5.22	8.23	8.62	8.70	8.70	8.39	8.23	8.09	7.95	8.16	9.16	7.84	8.52	8.44	8.06		
<b>Fujii, Ryota (JPN) (1996)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2022 Japanese National Championships (Osaka, JPN)</b>														<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	12-Jun-22	time	2.58	3.65	4.70	5.73	6.76	7.82	8.89	9.97	11.05	12.15	13.63	9 / 6					
reaction time	0.145	interval		1.07	1.05	1.03	1.03	1.06	1.07	1.08	1.08	1.10	1.48		3.15	3.16	3.26		
wind	-1.2 m/s	velocity	5.32	8.54	8.70	8.87	8.87	8.62	8.54	8.46	8.46	8.31	9.47	8.07	8.70	8.68	8.41		
<b>FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)</b>														<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	08-May-22	time	2.62	3.70	4.75	5.80	6.85	7.91	8.98	10.06	11.15	12.25	13.70	7 / 5					
reaction time	0.153	interval		1.08	1.05	1.05	1.05	1.06	1.07	1.08	1.09	1.10	1.45		3.18	3.18	3.27		
wind	0.1 m/s	velocity	5.24	8.46	8.70	8.70	8.70	8.62	8.54	8.46	8.39	8.31	9.67	8.03	8.62	8.62	8.39		
<b>FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)</b>														<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	01-May-22	time	2.59	3.65	4.69	5.73	6.77	7.83	8.88	9.95	11.02	12.14	13.59	4 / 4					
reaction time	0.147	interval		1.06	1.04	1.04	1.04	1.06	1.05	1.07	1.07	1.12	1.45		3.14	3.15	3.26		
wind	0.8 m/s	velocity	5.30	8.62	8.79	8.79	8.79	8.62	8.70	8.54	8.54	8.16	9.67	8.09	8.73	8.70	8.41		
<b>FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)</b>														<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	29-Apr-22	time	2.64	3.73	4.81	5.89	6.96	8.05	9.14	10.23	11.33	12.46	13.94	8 / 6					
reaction time	0.155	interval		1.09	1.08	1.08	1.07	1.09	1.09	1.09	1.10	1.13	1.48		3.25	3.25	3.32		
wind	-1.5 m/s	velocity	5.20	8.39	8.46	8.46	8.54	8.39	8.39	8.39	8.31	8.09	9.47	7.89	8.44	8.44	8.26		
<b>FINAL - 2021 Japanese National Championships (Osaka, JPN)</b>														<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>					
date	27-Jun-21	time	2.59	3.65	4.69	5.73	6.77	7.80	8.86	9.92	11.00	12.08	13.54	2 / 6					
reaction time	0.149	interval		1.06	1.04	1.04	1.04	1.03	1.06	1.06	1.08	1.08	1.46	<b>PB</b>	3.14	3.13	3.22		
wind	1.2 m/s	velocity	5.30	8.62	8.79	8.79	8.79	8.87	8.62	8.62	8.46	8.46	9.60	8.12	8.73	8.76	8.52		
<b>FINAL - 2021 Fuse Sprint (Tottori, JPN)</b>														<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>					
date	06-Jun-21	time	2.62	3.71	4.76	5.81	6.90	7.96	9.02	10.13	11.21	12.31	13.79	9 / 6					
reaction time	0.152	interval		1.09	1.05	1.05	1.09	1.06	1.06	1.11	1.08	1.10	1.48		3.19	3.21	3.29		
wind	1.8 m/s	velocity	5.24	8.39	8.70	8.70	8.39	8.62	8.62	8.23	8.46	8.31	9.47	7.98	8.60	8.54	8.33		
<b>FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)</b>														<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>					
date	29-Apr-21	time	2.64	3.73	4.78	5.85	6.91	7.98	9.05	10.13	11.22	12.34	13.84	2 / 8					
reaction time		interval		1.09	1.05	1.07	1.06	1.07	1.07	1.08	1.09	1.12	1.50		3.21	3.20	3.29		
wind	1.7 m/s	velocity	5.20	8.39	8.70	8.54	8.62	8.54	8.54	8.46	8.39	8.16	9.35	7.95	8.54	8.57	8.33		

<b>FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)</b>														<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>				
date	20-Sep-20	time	2.60	3.68	4.73	5.79	6.83	7.90	8.98	10.06	11.16	12.28	13.78	7 / 3				
reaction time	0.151	interval		1.08	1.05	1.06	1.04	1.07	1.08	1.08	1.10	1.12	1.50		3.19	3.19	3.30	
wind	0.1 m/s	velocity	5.28	8.46	8.70	8.62	8.79	8.54	8.46	8.46	8.31	8.16	9.35	7.98	8.60	8.60	8.31	
<b>Race 2 - 2020 World Athletics Trials (Fuji, JPN)</b>														<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>				
date	06-Sep-20	time	2.60	3.67	4.73	5.78	6.83	7.89	8.95	10.03	11.15	12.26	13.78	4 / 2				
reaction time		interval		1.07	1.06	1.05	1.05	1.06	1.06	1.08	1.12	1.11	1.52		3.18	3.17	3.31	
wind	1.3 m/s	velocity	5.28	8.54	8.62	8.70	8.70	8.62	8.62	8.46	8.16	8.23	9.22	7.98	8.62	8.65	8.28	
<b>FINAL - 2020 Athlete Night Games (Fukui, JPN)</b>														<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>				
date	29-Aug-20	time	2.59	3.65	4.68	5.70	6.76	7.82	8.87	9.94	11.02	12.14	13.58	8 / 5				
reaction time		interval		1.06	1.03	1.02	1.06	1.06	1.05	1.07	1.08	1.12	1.44		3.11	3.17	3.27	
wind	1.4 m/s	velocity	5.30	8.62	8.87	8.96	8.62	8.62	8.70	8.54	8.46	8.16	9.74	8.10	8.82	8.65	8.39	
<b>Heat 2 - 2020 Athlete Night Games (Fukui, JPN)</b>														<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>				
date	29-Aug-20	time	2.57	3.61	4.64	5.68	6.72	7.78	8.87	9.93	11.03	12.10	13.57	7 / 1				
reaction time		interval		1.04	1.03	1.04	1.04	1.06	1.09	1.06	1.10	1.07	1.47	<b>PB</b>	3.11	3.19	3.23	
wind	1.5 m/s	velocity	5.34	8.79	8.87	8.79	8.79	8.62	8.39	8.62	8.31	8.54	9.54	8.11	8.82	8.60	8.49	
<b>FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)</b>														<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>				
date	23-Aug-20	time	2.60	3.67	4.73	5.77	6.82	7.88	8.97	10.08	11.19	12.31	13.79	9 / 5				
reaction time	0.144	interval		1.07	1.06	1.04	1.05	1.06	1.09	1.11	1.11	1.12	1.48		3.17	3.20	3.34	
wind	-0.4 m/s	velocity	5.28	8.54	8.62	8.79	8.70	8.62	8.39	8.23	8.23	8.16	9.47	7.98	8.65	8.57	8.21	
<b>FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)</b>														<i>Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season</i>				
date	01-Sep-19	time	2.59	3.65	4.70	5.74	6.80	7.86	8.92	10.00	11.10	12.21	13.65	2 / 6				
reaction time		interval		1.06	1.05	1.04	1.06	1.06	1.06	1.08	1.10	1.11	1.44	<b>PB</b>	3.15	3.18	3.29	
wind	1.4 m/s	velocity	5.30	8.62	8.70	8.79	8.62	8.62	8.46	8.31	8.23	9.74	8.06	8.70	8.62	8.33		
<b>FINAL - 2019 Japanese National Championships (Fukuoka, JPN)</b>														<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>				
date	30-Jun-19	time	2.64	3.72	4.79	5.87	6.95	8.05	9.15	10.26	11.39	12.52	13.99	2 / 6				
reaction time	0.148	interval		1.08	1.07	1.08	1.08	1.10	1.10	1.11	1.13	1.13	1.47		3.23	3.28	3.37	
wind	-0.6 m/s	velocity	5.20	8.46	8.54	8.46	8.46	8.31	8.31	8.23	8.09	8.09	9.54	7.86	8.49	8.36	8.14	
<b>FINAL - 2019 Fuse Sprint (Tottori, JPN)</b>														<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>				
date	02-Jun-19	time	2.60	3.68	4.74	5.81	6.87	7.95	9.02	10.11	11.21	12.31	13.78	8 / 5				
reaction time	0.146	interval		1.08	1.06	1.07	1.06	1.08	1.07	1.09	1.10	1.10	1.47	<b>PB</b>	3.21	3.21	3.29	
wind	1.9 m/s	velocity	5.28	8.46	8.62	8.54	8.62	8.46	8.54	8.39	8.31	8.31	9.54	7.98	8.54	8.54	8.33	
<b>FINAL - 2019 Kinami Memorial (Osaka, JPN)</b>														<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>				
date	06-May-19	time	2.60	3.70	4.78	5.87	6.97	8.05	9.15	10.24	11.35	12.49	13.94	3 / 7				
reaction time		interval		1.10	1.08	1.09	1.10	1.08	1.10	1.09	1.11	1.14	1.45		3.27	3.28	3.34	
wind	0.3 m/s	velocity	5.28	8.31	8.46	8.39	8.31	8.46	8.31	8.39	8.23	8.02	9.67	7.89	8.39	8.36	8.21	
<b>A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)</b>														<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>				
date	28-Apr-19	time	2.74	3.84	4.89	5.96	7.03	8.12	9.22	10.32	11.44	12.58	14.07	1 / 7				
reaction time		interval		1.10	1.05	1.07	1.07	1.09	1.10	1.10	1.12	1.14	1.49		3.22	3.26	3.36	
wind	0.6 m/s	velocity	5.01	8.31	8.70	8.54	8.54	8.39	8.31	8.31	8.16	8.02	9.41	7.82	8.52	8.41	8.16	
<b>A FINAL - 2018 National Sports Festival (Fukui, JPN)</b>														<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>				
date	08-Oct-18	time	2.61	3.70	4.75	5.82	6.89	7.98	9.05	10.14	11.24	12.33	13.81	1 / 6				
reaction time	0.142	interval		1.09	1.05	1.07	1.07	1.09	1.07	1.09	1.10	1.09	1.48	<b>PB</b>	3.21	3.23	3.28	
wind	1.2 m/s	velocity	5.26	8.39	8.70	8.54	8.54	8.39	8.54	8.39	8.31	8.39	9.47	7.97	8.54	8.49	8.36	
<b>Heat 4 - 2017 Japanese National Championships (Osaka, JPN)</b>														<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>				
date	24-Jun-17	time	2.64	3.73	4.80	5.88	6.95	8.01	9.13	10.24	11.34	12.47	13.92	1 / 4				
reaction time	0.138	interval		1.09	1.07	1.08	1.07	1.06	1.12	1.11	1.10	1.13	1.45	<b>=PB</b>	3.24	3.25	3.34	
wind	0.0 m/s	velocity	5.20	8.39	8.54	8.46	8.54	8.62	8.16	8.23	8.31	8.09	9.67	7.90	8.46	8.44	8.21	
<b>B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)</b>														<i>(2017) - tfdata-store.com/2017/05/01/458/</i>				
date	29-Apr-17	time	2.61	3.73	4.84	5.97	7.09	8.19	9.34	10.49	11.65	12.81	14.36	2 / 7				
reaction time		interval		1.12	1.11	1.13	1.12	1.10	1.15	1.15	1.16	1.16	1.55		3.36	3.37	3.47	
wind	-1.5 m/s	velocity	5.26	8.16	8.23	8.09	8.16	8.31	7.95	7.95	7.88	7.88	9.05	7.66	8.16	8.14	7.90	
<b>FINAL - 2016 Six College Meeting (Sagamihara, JPN)</b>														<i>(2016.07.18) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</i>				
date	17-Jul-16	time	2.63	3.73	4.82	5.90	6.98	8.07	9.18	10.28	11.38	12.51	13.95	5 / 2				
reaction time		interval		1.10	1.09	1.08	1.08	1.09	1.11	1.10	1.10	1.13	1.44	<b>PB</b>	3.27	3.28	3.33	
wind	0.3 m/s	velocity	5.22	8.31	8.39	8.46	8.46	8.39	8.23	8.31	8.31	8.09	9.74	7.89	8.39	8.36	8.23	
<b>Fujiwara, Koki (JPN) (2002)</b>																		
<b>FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (99cm)</b>														<i>Kota (2019) - 72nd high school champs: JAF scientific committee - biomechanics data</i>				
date	08-Aug-19	time	2.71	3.84	4.93	6.01	7.10	8.26	9.37	10.54	11.71	12.93	14.47	3 / 4				
reaction time		interval		1.13	1.09	1.08	1.09	1.16	1.11	1.17	1.17	1.22	1.54		3.30	3.36	3.56	



wind	0.5 m/s	velocity	5.18	8.16	8.23	8.31	8.39	8.23	8.31	8.16	8.16	8.09	9.60	7.80	8.23	8.31	8.14
<b>Heat 2 - 2017 Mito Invitational (Mito, JPN)</b>															(2017) - <a href="https://tfdata-store.com/2017/05/06/post-423/">tfdata-store.com/2017/05/06/post-423/</a>		
date	05-May-17	time	2.64	3.73	4.84	5.91	6.99	8.08	9.17	10.27	11.41	12.54	14.01	5 / 1			
reaction time	0.133	interval	1.09	1.11	1.07	1.08	1.09	1.09	1.10	1.14	1.13	1.47			3.27	3.26	3.37
wind	0.6 m/s	velocity	5.20	8.39	8.23	8.54	8.46	8.39	8.39	8.31	8.02	8.09	9.54	7.85	8.39	8.41	8.14
<b>Semi-Final 2 - 2016 Japanese University Championships (Kumagaya, JPN)</b>															(2016.09.05) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>		
date	04-Sep-16	time	2.70	3.80	4.93	6.04	7.14	8.24	9.34	10.47	11.66	12.85	14.36	8 / 8			
reaction time	0.133	interval	1.10	1.13	1.11	1.10	1.10	1.10	1.13	1.19	1.19	1.51			3.34	3.30	3.51
wind	0.7 m/s	velocity	5.08	8.31	8.09	8.23	8.31	8.31	8.31	8.09	7.68	7.68	9.28	7.66	8.21	8.31	7.81
<b>Furuta, Kazuaki (JPN) (1992)</b>																	
<b>Heat 4 - 2017 Japanese National Championships (Osaka, JPN)</b>															(2017) - <a href="https://tfdata-store.com/2017/07/13/post-1040/">tfdata-store.com/2017/07/13/post-1040/</a>		
date	24-Jun-17	time	2.69	3.79	4.86	5.95	7.04	8.13	9.26	10.37	11.50	12.65	14.17	3 / 7			
reaction time	0.130	interval	7 steps	1.10	1.07	1.09	1.09	1.09	1.13	1.11	1.13	1.15	1.52		3.26	3.31	3.39
wind	0.0 m/s	velocity	5.10	8.31	8.54	8.39	8.39	8.39	8.09	8.23	8.09	7.95	9.22	7.76	8.41	8.28	8.09
<b>Furuya, Kyohei (JPN) (1996)</b>																	
<b>Semi-Final 2 - 2017 Japanese National Championships (Osaka, JPN)</b>															(2017) - <a href="https://tfdata-store.com/2017/07/13/post-1040/">tfdata-store.com/2017/07/13/post-1040/</a>		
date	24-Jun-17	time	2.61	3.69	4.79	5.86	6.94	8.03	9.14	10.26	11.36	12.51	13.94	3 / 7			
reaction time	0.102	interval	1.08	1.10	1.07	1.08	1.09	1.11	1.12	1.10	1.15	1.43			3.25	3.28	3.37
wind	0.3 m/s	velocity	5.26	8.46	8.31	8.54	8.46	8.39	8.23	8.16	8.31	7.95	9.80	7.89	8.44	8.36	8.14
<b>Heat 1 - 2017 Japanese National Championships (Osaka, JPN)</b>															(2017) - <a href="https://tfdata-store.com/2017/07/13/post-1040/">tfdata-store.com/2017/07/13/post-1040/</a>		
date	24-Jun-17	time	2.63	3.69	4.76	5.83	6.88	7.95	9.06	10.16	11.28	12.43	13.89	9 / 5			
reaction time	0.124	interval	1.06	1.07	1.07	1.05	1.07	1.11	1.10	1.12	1.15	1.46			3.20	3.23	3.37
wind	1.3 m/s	velocity	5.22	8.62	8.54	8.54	8.70	8.54	8.23	8.31	8.16	7.95	9.60	7.92	8.57	8.49	8.14
<b>FINAL - 2017 Mito Invitational (Mito, JPN)</b>															(2017) - <a href="https://tfdata-store.com/2017/05/06/post-423/">tfdata-store.com/2017/05/06/post-423/</a>		
date	05-May-17	time	2.63	3.72	4.82	5.93	7.05	8.15	9.23	10.37	11.48	12.59	14.02	4 / 3			
reaction time		interval	1.09	1.10	1.11	1.12	1.10	1.08	1.14	1.11	1.11	1.43			3.30	3.30	3.36
wind	-2.3 m/s	velocity	5.22	8.39	8.31	8.23	8.16	8.31	8.46	8.02	8.23	8.23	9.80	7.85	8.31	8.31	8.16
<b>Heat 1 - 2017 Mito Invitational (Mito, JPN)</b>															(2017) - <a href="https://tfdata-store.com/2017/05/06/post-423/">tfdata-store.com/2017/05/06/post-423/</a>		
date	05-May-17	time	2.64	3.74	4.82	5.90	7.00	8.09	9.18	10.30	11.42	12.55	14.00	5 / 1			
reaction time		interval	1.10	1.08	1.08	1.10	1.09	1.09	1.12	1.12	1.13	1.45			3.26	3.28	3.37
wind	0.3 m/s	velocity	5.20	8.31	8.46	8.46	8.31	8.39	8.39	8.16	8.16	8.09	9.67	7.86	8.41	8.36	8.14
<b>B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)</b>															(2017) - <a href="https://tfdata-store.com/2017/05/01/458/">tfdata-store.com/2017/05/01/458/</a>		
date	29-Apr-17	time	2.60	3.71	4.81	5.89	6.98	8.06	9.18	10.28	11.44	12.58	14.07	4 / 2			
reaction time		interval	1.11	1.10	1.08	1.09	1.08	1.12	1.10	1.16	1.14	1.49			3.29	3.29	3.40
wind	-1.5 m/s	velocity	5.28	8.23	8.31	8.46	8.39	8.46	8.16	8.31	7.88	8.02	9.41	7.82	8.33	8.33	8.06
<b>Semi-Final 2 - 2016 Japanese University Championships (Kumagaya, JPN)</b>															(2016.09.05) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>		
date	04-Sep-16	time	2.68	3.77	4.89	5.97	7.09	8.18	9.34	10.48	11.61	12.78	14.21	3 / 7			
reaction time	0.133	interval	1.09	1.12	1.08	1.12	1.09	1.16	1.14	1.13	1.17	1.43			3.29	3.37	3.44
wind	0.7 m/s	velocity	5.12	8.39	8.16	8.46	8.16	8.39	7.88	8.02	8.09	7.81	9.80	7.74	8.33	8.14	7.97
<b>Furuya, Shinta (JPN) (2000)</b>																	
<b>Race 2 - 2020 World Athletics Trials (Fuji, JPN)</b>															Shibayama (2020) - <a href="#">race analysis of men's 110m hurdles in the 2020 season</a>		
date	06-Sep-20	time	2.65	3.76	4.83	5.92	7.00	8.10	9.22	10.36	11.49	12.64	14.16	7 / 4			
reaction time		interval	1.11	1.07	1.09	1.08	1.10	1.12	1.14	1.13	1.15	1.52	PB		3.27	3.30	3.42
wind	1.3 m/s	velocity	5.18	8.23	8.54	8.39	8.46	8.31	8.16	8.02	8.09	7.95	9.22	7.77	8.39	8.31	8.02
<b>U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (99cm)</b>															Kijima (2019) - <a href="#">research on athlete performance and technique- 2019 data book</a>		
date	18-Oct-19	time	2.60	3.69	4.75	5.79	6.85	7.91	8.99	10.06	11.17	12.28	13.79	7 / 3			
reaction time	0.122	interval	1.09	1.06	1.04	1.06	1.06	1.08	1.07	1.11	1.11	1.51			3.19	3.20	3.29
wind	-0.6 m/s	velocity	5.28	8.39	8.62	8.79	8.62	8.46	8.54	8.23	8.23	9.28	7.98		8.60	8.57	8.33
<b>Furuya, Takumu (JPN) (1997)</b>																	
<b>B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)</b>															Kobayashi (2019) - <a href="#">research on athlete performance and technique- 2019 data book</a>		
date	28-Apr-19	time	2.73	3.82	4.93	6.00	7.10	8.20	9.31	10.43	11.57	12.73	14.28	4 / 5			
reaction time		interval	1.09	1.11	1.07	1.10	1.10	1.11	1.12	1.14	1.16	1.55			3.27	3.31	3.42
wind	1.4 m/s	velocity	5.03	8.39	8.23	8.54	8.31	8.31	8.23	8.16	8.02	7.88	9.05	7.70	8.39	8.28	8.02
<b>FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)</b>															Shibayama (2018) - <a href="#">Race analysis of men's 110m hurdle run in 2018 season</a>		
date	20-May-18	time	2.66	3.73	4.77	5.82	6.86	7.92	8.98	10.04	11.12	12.22	13.61	2 / 4			
reaction time	0.133	interval	1.07	1.04	1.05	1.04	1.06	1.06	1.06	1.08	1.10	1.39	PB		3.16	3.16	3.24
wind	-0.4 m/s	velocity	5.16	8.54	8.79	8.70	8.79	8.62	8.62	8.46	8.31	10.09	8.08		8.68	8.68	8.46
<b>FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)</b>															Shibayama (2018) - <a href="#">Race analysis of men's 110m hurdle run in 2018 season</a>		
date	29-Apr-18	time	2.67	3.74	4.77	5.81	6.87	7.91	8.96	10.02	11.10	12.18	13.57	2 / 2			
reaction time		interval	1.07	1.03	1.04	1.06	1.04	1.05	1.06	1.08	1.08	1.39			3.14	3.15	3.22
wind	2.6 m/s	velocity	5.14	8.54	8.87	8.79	8.62	8.79	8.70	8.62	8.46	8.46	10.09	8.11	8.73	8.70	8.52



<b>FINAL - 2014 Japanese National High School Championships (Kofu, JPN) (99cm)</b>														<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>				
date	03-Aug-14	time	2.64	3.74	4.82	5.89	6.97	8.05	9.16	10.27	11.39	12.55	14.05	4 / 1				
reaction time		interval		1.10	1.08	1.07	1.08	1.08	1.11	1.11	1.12	1.16	1.50		3.25	3.27	3.39	
wind	-2.4 m/s	velocity	5.20	8.31	8.46	8.54	8.46	8.46	8.23	8.23	8.16	7.88	9.35	7.83	8.44	8.39	8.09	
<b>Gabriel, G.</b>																		
<b>Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)</b>														<i>Aubert (1986) - indoor - video - haies, etude des performances</i>				
date	26-Jan-86	time	2.66	3.76	4.91	6.01	7.10						0.98	8.08	/ 5	3.35		
reaction time		interval		1.10	1.15	1.10	1.09									9.92	7.43	8.19
		velocity	5.16	8.31	7.95	8.31	8.39											
<b>Heat ? - 1986 French National Indoor Championships (Lievin, FRA)</b>														<i>Aubert (1986) - indoor - video - haies, etude des performances</i>				
date	25-Jan-86	time	2.70	3.85	4.98	6.08	7.24						0.92	8.16	/ 5	3.38		
reaction time		interval		1.15	1.13	1.10	1.16									10.57	7.35	8.11
		velocity	5.08	7.95	8.09	8.31	7.88											
<b>Gaio, Finley (SUI) (1999)</b>																		
<b>FINAL - 2023 Weltklasse (Zürich, SUI)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	31-Aug-23	time	2.45	3.55	4.63	5.69	6.74	7.81	8.92	10.01	11.10	12.18	13.77	9 / 8				
reaction time	0.154	interval	7 steps	1.10	1.08	1.06	1.05	1.07	1.11	1.09	1.09	1.08	1.59		3.24	3.23	3.26	
wind	-0.1 m/s	velocity	5.60	8.31	8.46	8.62	8.70	8.54	8.23	8.39	8.39	8.46	8.82	7.99	8.46	8.49	8.41	
<b>FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	17-Aug-22	time	2.58	3.64	4.70	5.72	6.74	7.78	8.82	9.86	10.94	12.02	13.50	2 / 5				
reaction time	0.172	interval	7 steps	1.06	1.06	1.02	1.02	1.04	1.04	1.04	1.08	1.08	1.48		3.14	3.10	3.20	
wind	-0.2 m/s	velocity	5.32	8.62	8.62	8.96	8.96	8.79	8.79	8.79	8.46	8.46	9.47	8.15	8.73	8.85	8.57	
<b>FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	09-Sep-21	time	2.56	3.64	4.70	5.74	6.82	7.88	8.96	10.02	11.12	12.22	13.72	8 / 6				
reaction time	0.135	interval	7 steps	1.08	1.06	1.04	1.08	1.06	1.08	1.06	1.10	1.10	1.50		3.18	3.22	3.26	
wind	0.6 m/s	velocity	5.36	8.46	8.62	8.79	8.46	8.62	8.46	8.62	8.31	8.31	9.35	8.02	8.62	8.52	8.41	
<b>Gao Shunyang (CHN) (2001)</b>																		
<b>U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)</b>														<i>CAA Hurdle Development (2019)</i>				
date	14-Aug-19	time	2.75	3.85	4.95	6.02	7.11	8.19	9.28	10.38	11.49	12.64	14.21	2 / 5				
reaction time	0.184	interval		1.10	1.10	1.07	1.09	1.08	1.09	1.10	1.11	1.15	1.57		3.27	3.26	3.36	
wind	0.6 m/s	velocity	4.99	8.31	8.31	8.54	8.39	8.46	8.39	8.31	8.23	7.95	8.93	7.74	8.39	8.41	8.16	
<b>García, Anier (CUB) (1976)</b>																		
<b>FINAL - 2004 Olympic Games (Athens, GRE)</b>														<i>Ruiz (2004) - las carreras con vallas de juegos olimpicos de atenas '04</i>				
date	27-Aug-04	time	2.47	3.51	4.53	5.55	6.55	7.55	8.57	9.61	10.65	11.69	13.20	7 / 3				
reaction time	0.169	interval		1.04	1.02	1.02	1.00	1.00	1.02	1.04	1.04	1.04	1.51		3.08	3.02	3.12	
wind	0.3 m/s	velocity	5.55	8.79	8.96	8.96	9.14	9.14	8.96	8.79	8.79	8.79	9.28	8.33	8.90	9.08	8.79	
<b>FINAL - 2002 IAAF World Cup (Madrid, ESP)</b>														<i>Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas</i>				
date	21-Sep-02	time	2.47	3.49	4.50	5.50	6.50	7.51	8.52	9.52	10.56	11.61	13.10	9 / 1				
reaction time	0.136	interval		1.02	1.01	1.00	1.00	1.01	1.01	1.00	1.04	1.05	1.49		3.03	3.02	3.09	
wind	-2.2 m/s	velocity	5.55	8.96	9.05	9.14	9.14	9.05	9.05	9.14	8.79	8.70	9.41	8.40	9.05	9.08	8.87	
<b>FINAL - 2001 ISTAF (Berlin, GER)</b>														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	31-Aug-09	time	2.57	3.60	4.61	5.60	6.61	7.64	8.66	9.68	10.69	11.76	13.15	5 / 2				
reaction time	0.168	interval		1.03	1.01	0.99	1.01	1.03	1.02	1.02	1.01	1.07	1.39		3.03	3.06	3.10	
wind	1.0 m/s	velocity	5.34	8.87	9.05	9.23	9.05	8.87	8.96	8.96	9.05	8.54	10.09	8.37	9.05	8.96	8.85	
<b>FINAL - 1999 IAAF World Championships (Sevilla, ESP)</b>														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	25-Aug-99	time	2.52	3.53	4.54	5.53	6.53	7.52	8.51	9.53	10.59	11.65	13.07	3 / 2				
reaction time	0.158	interval		1.01	1.01	0.99	1.00	0.99	0.99	1.02	1.06	1.06	1.42	AR	3.01	2.98	3.14	
wind	1.0 m/s	velocity	5.44	9.05	9.05	9.23	9.14	9.23	9.23	8.96	8.62	8.62	9.87	8.42	9.11	9.20	8.73	
<b>Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)</b>														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	24-Aug-99	time	2.51	3.55	4.55	5.55	6.55	7.54	8.56	9.60	10.64	11.72	13.18	5 / 1				
reaction time	0.139	interval		1.04	1.00	1.00	1.00	0.99	1.02	1.04	1.04	1.08	1.46		3.04	3.01	3.16	
wind	0.0 m/s	velocity	5.47	8.79	9.14	9.14	9.14	9.23	8.96	8.79	8.79	8.46	9.60	8.35	9.02	9.11	8.68	
<b>Quarter-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)</b>														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	23-Aug-99	time	2.54	3.57	4.58	5.58	6.58	7.58	8.59	9.62	10.68	11.74	13.20	3 / 2				
reaction time	0.169	interval		1.03	1.01	1.00	1.00	1.00	1.01	1.03	1.06	1.06	1.46		3.04	3.01	3.15	
wind	-0.4 m/s	velocity	5.40	8.87	9.05	9.14	9.14	9.14	9.05	8.87	8.62	8.62	9.60	8.33	9.02	9.11	8.70	
<b>Heat 6 - 1999 IAAF World Championships (Sevilla, ESP)</b>														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	23-Aug-99	time	2.53	3.54	4.54	5.55	6.55	7.56	8.59	9.63	10.71	11.80	13.40	1 / 1				
reaction time	0.155	interval		1.01	1.00	1.01	1.00	1.01	1.03	1.04	1.08	1.09	1.60		3.02	3.04	3.21	
wind	0.0 m/s	velocity	5.42	9.05	9.14	9.05	9.14	9.05	8.87	8.79	8.46	8.39	8.76	8.21	9.08	9.02	8.54	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
<b>Garcia, Yordanis (CUB) (1988)</b>																		
<b>Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)</b>												<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
date	20-Aug-09	time	2.61	3.69	4.78	5.89	6.99	8.11	9.21	10.30	11.45	12.59		14.08	4 / 2			
reaction time	0.156	interval		1.08	1.09	1.11	1.10	1.12	1.10	1.09	1.15	1.14	1.49			3.28	3.32	3.38
wind	0.3 m/s	velocity	5.26	8.46	8.39	8.23	8.31	8.16	8.31	8.39	7.95	8.02	9.41	7.81		8.36	8.26	8.11
<b>Gault, Willie (USA) (1960)</b>																		
<b>FINAL - 1983 IAAF World Championships (Helsinki, FIN)</b>												<i>Knoke (1984) - the hurdles</i>						
date	12-Aug-83	time	2.54	3.57	4.64	5.69	6.72	7.74	8.78	9.83	10.97	12.05		13.48	8 / 3			
reaction time	0.161	interval		1.03	1.07	1.05	1.03	1.02	1.04	1.05	1.14	1.08	1.43			3.15	3.09	3.27
wind	1.3 m/s	velocity	5.40	8.87	8.54	8.70	8.87	8.96	8.79	8.70	8.02	8.46	9.80	8.16		8.70	8.87	8.39
<b>Giaconi, Andrea (ITA) (1974)</b>																		
<b>Heat 3 - 2002 European Championships (Munich, GER)</b>												<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>						
date	09-Aug-02	time	2.61	3.69	4.75	5.79	6.81	7.87	8.91	9.97	11.02	12.11		13.55	/ 1			
reaction time	0.116	interval		1.08	1.06	1.04	1.02	1.06	1.04	1.06	1.05	1.09	1.44			3.18	3.12	3.20
wind	2.0 m/s	velocity	5.26	8.46	8.62	8.79	8.96	8.62	8.79	8.62	8.70	8.39	9.74	8.12		8.62	8.79	8.57
<b>Gilbert, Tre'Bien (USA) (1999)</b>																		
<b>Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)</b>												<i>USATF (2022) - Results powered by Karmarush.com</i>						
date	26-Jun-22	time	2.54	3.58	4.62	5.65	6.66	7.68	8.71	9.77	10.85	11.95		13.51	8 / 5			
reaction time		interval		1.04	1.04	1.03	1.01	1.02	1.03	1.06	1.08	1.10	1.56			3.11	3.06	3.24
wind	0.1 m/s	velocity	5.40	8.79	8.79	8.87	9.05	8.96	8.87	8.62	8.46	8.31	8.99	8.14		8.82	8.96	8.46
<b>Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>						
date	26-Jun-21	time	2.50	3.58	4.60	5.61	6.63	7.64	8.71	9.76	10.80	11.92		13.41	8 / 5			
reaction time	0.191	interval	7 steps	1.08	1.02	1.01	1.02	1.01	1.07	1.05	1.04	1.12	1.49	PB		3.11	3.10	3.21
wind	1.8 m/s	velocity	5.49	8.46	8.96	9.05	8.96	9.05	8.54	8.70	8.79	8.16	9.41	8.20		8.82	8.85	8.54
<b>Golaube, Kamal (USA)</b>																		
<b>Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>												<i>CAA Hurdle Development (2020)</i>						
date	14-Feb-20	time	2.63	3.75	4.89	6.00	7.12							8.16	5 / 7			
reaction time	0.130	interval		1.12	1.14	1.11	1.12						1.04			3.37		
		velocity	5.22	8.16	8.02	8.23	8.16						9.35	7.35		8.14		
<b>Gong Kewei (CHN) (1994)</b>																		
<b>Decathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)</b>												<i>CAA Hurdle Development (2021)</i>						
date	27-Jun-21	time	2.71	3.89	5.05	6.19	7.32	8.46	9.62	10.81	12.01	13.21		14.76	2 / 1			
reaction time	0.177	interval		1.18	1.16	1.14	1.13	1.14	1.16	1.19	1.20	1.20	1.55			3.48	3.43	3.59
wind	-0.2 m/s	velocity	5.06	7.75	7.88	8.02	8.09	8.02	7.88	7.68	7.62	7.62	9.05	7.45		7.88	7.99	7.64
<b>Gonigam, Philippe (FRA) (1963)</b>																		
<b>Heat ? - 1986 French National Indoor Championships (Lievin, FRA)</b>												<i>Aubert (1986) - indoor - video - haies, etude des performances</i>						
date	25-Jan-86	time	2.72	3.84	4.96	6.07	7.20							8.18	/ 5			
reaction time		interval		1.12	1.12	1.11	1.13						0.98			3.35		
		velocity	5.04	8.16	8.16	8.23	8.09						9.92	7.33		8.19		
<b>Graham, Javon (USA)</b>																		
<b>Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>												<i>CAA Hurdle Development (2020)</i>						
date	15-Feb-20	time	2.60	3.70	4.77	5.83	6.91							7.84	2 / 5			
reaction time	0.158	interval		1.10	1.07	1.06	1.08						0.93	PB		3.23		
		velocity	5.28	8.31	8.54	8.62	8.46						10.45	7.65		8.49		
<b>Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>												<i>CAA Hurdle Development (2020)</i>						
date	14-Feb-20	time	2.65	3.77	4.82	5.92	6.97							7.92	8 / 4			
reaction time	0.166	interval		1.12	1.05	1.10	1.05						0.95			3.27		
		velocity	5.18	8.16	8.70	8.31	8.70						10.23	7.58		8.39		
<b>Greff, Ronan (FRA) (1998)</b>																		
<b>FINAL - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)</b>												<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>						
date	03-Sep-20	time	2.69	3.80	4.88	5.89	7.03	8.08	9.15	10.30	11.41	12.49		14.16	1 / 8			
reaction time	0.247	interval		1.11	1.08	1.01	1.14	1.05	1.07	1.15	1.11	1.08	1.67			3.20	3.26	3.34
wind	-0.3 m/s	velocity	5.10	8.23	8.46	9.05	8.02	8.70	8.54	7.95	8.23	8.46	8.40	7.77		8.57	8.41	8.21
<b>Gu Yihe (CHN) (2000)</b>																		
<b>Decathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)</b>												<i>CAA Hurdle Development (2021)</i>						
date	27-Jun-21	time	2.87	4.07	5.34	6.57	7.82	9.07	10.33	11.58	12.86	14.16		15.89	2 / 5			
reaction time	0.208	interval		1.20	1.27	1.23	1.25	1.25	1.26	1.25	1.28	1.30	1.73			3.70	3.76	3.83
wind	-0.2 m/s	velocity	4.78	7.62	7.20	7.43	7.31	7.31	7.25	7.31	7.14	7.03	8.10	6.92		7.41	7.29	7.16
<b>Gundersen, Gaute (NOR) (1972)</b>																		
<b>FINAL - 1997 European Cup (Munich, GER)</b>												<i>Jung (2003) - http://www.fgs.uni-halle.de</i>						
date	22-Jun-97	time	2.66	3.74	4.78	5.82	6.86	7.91	8.98	10.04	11.14	12.26		13.70	/ 5			
reaction time		interval		1.08	1.04	1.04	1.04	1.05	1.07	1.06	1.10	1.12	1.44			3.16	3.16	3.28
wind	0.2 m/s	velocity	5.16	8.46	8.79	8.79	8.79	8.70	8.54	8.62	8.31	8.16	9.74	8.03		8.68	8.68	8.36



reaction time	0.219	interval	1.08	1.06	1.06	1.08	1.10	1.10	1.10	1.14	1.20	1.59				3.20	3.28	3.44
wind	2.5 m/s	velocity	5.01	8.46	8.62	8.46	8.31	8.31	8.31	8.02	7.62	8.82	7.72			8.57	8.36	7.97
<b>B-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)</b>																		
date	24-Feb-19	time	2.70	3.82	4.90	5.97	7.10						8.04			4 / 1		
reaction time		interval	1.12	1.08	1.07	1.13						0.94				3.27		
		velocity	5.08	8.16	8.46	8.54	8.09					10.34	7.46			8.39		
<b>A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)</b>																		
date	20-Feb-19	time	2.73	3.82	4.90	6.00	7.09						8.03			2 / 3		
reaction time		interval	1.09	1.08	1.10	1.09						0.94	PB			3.27		
		velocity	5.03	8.39	8.46	8.31	8.39					10.34	7.47			8.39		
<b>Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)</b>																		
date	15-Sep-18	time	2.70	3.80	4.92	6.00	7.15	8.31	9.46	10.61	11.78	13.00	14.59			4 / 7		
reaction time		interval	1.10	1.12	1.08	1.15	1.16	1.15	1.15	1.17	1.22	1.59				3.30	3.46	3.54
wind	0.7 m/s	velocity	5.08	8.31	8.16	8.46	7.95	7.88	7.95	7.95	7.81	7.49	8.82	7.54		8.31	7.92	7.75
<b>Gustafsson, Josua (SWE) (1988)</b>																		
<b>FINAL - 2010 Swedish National Championships (Falun, SWE)</b>																		
date	22-Aug-10	time	2.80	3.97	5.17	6.33	7.49	8.69	9.89	11.10	12.31	13.54	15.17			Blomkvist (2010) - www.sub13.se		
reaction time		interval	1.17	1.20	1.16	1.16	1.20	1.20	1.21	1.21	1.23	1.63				3.53	3.56	3.65
wind	-0.7 m/s	velocity	4.90	7.81	7.62	7.88	7.88	7.62	7.62	7.55	7.55	7.43	8.60	7.25		7.77	7.70	7.51
<b>Gustafsson, Petter (SWE) (1994)</b>																		
<b>FINAL 2 - 2017 Windsprint (Sundsvall, SWE)</b>																		
date	30-Jul-17	time	2.65	3.77	4.90	6.05	7.18	8.37	9.52	10.66	11.85	13.05	14.56			(2017) - www.windsprint/Splittider/		
reaction time		interval	1.12	1.13	1.15	1.13	1.19	1.15	1.14	1.19	1.20	1.51				3.40	3.47	3.53
wind	1.0 m/s	velocity	5.18	8.16	8.09	7.95	8.09	7.68	7.95	8.02	7.68	7.62	9.28	7.55		8.06	7.90	7.77
<b>FINAL - 2017 Windsprint (Sundsvall, SWE)</b>																		
date	30-Jul-17	time	2.68	3.81	4.94	6.07	7.22	8.36	9.51	10.69	11.86	13.00	14.54			(2017) - www.windsprint/Splittider/		
reaction time		interval	1.13	1.13	1.13	1.15	1.14	1.15	1.18	1.17	1.14	1.54				3.39	3.44	3.49
wind	1.0 m/s	velocity	5.12	8.09	8.09	8.09	7.95	8.02	7.95	7.75	7.81	8.02	9.10	7.57		8.09	7.97	7.86
<b>Guzik, Vojtech (CZE) (1997)</b>																		
<b>Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)</b>																		
date	28-Jun-14	time	2.83	4.04	5.23	6.41	7.60	8.80	10.01	11.21	12.50	13.79	15.54			Feher (2014) - Final report from the U18 & U20 Czech Republic national championships		
reaction time	0.170	interval	1.21	1.19	1.18	1.19	1.20	1.21	1.20	1.29	1.29	1.75				3.58	3.60	3.78
wind	-1.6 m/s	velocity	4.85	7.55	7.68	7.75	7.68	7.62	7.55	7.62	7.09	7.09	8.01	7.08		7.66	7.62	7.25
<b>Hairston, Max (USA) (1994)</b>																		
<b>FINAL - 2020 Millrose Games (New York, NY) (TV Analysis)</b>																		
date	08-Feb-20	time	2.57	3.67	4.77	5.81	6.87						7.87			Henson (2020) - Athlete First: 2020 year end hurdle report		
reaction time	0.206	interval	7 steps	1.10	1.10	1.04	1.06					1.00				3.24		
		velocity	5.34	8.31	8.31	8.79	8.62					9.72	7.62			8.46		
<b>FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)</b>																		
date	01-Feb-20	time	2.65	3.75	4.82	5.92	6.99						7.91			CAA Hurdle Development (2020)		
reaction time		interval	7 steps	1.10	1.07	1.10	1.07					0.92				3.27		
		velocity	5.18	8.31	8.54	8.31	8.54					10.57	7.59			8.39		
<b>Heat 2 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)</b>																		
date	01-Feb-20	time	2.66	3.75	4.86	5.94	7.03						7.96			CAA Hurdle Development (2020)		
reaction time		interval	7 steps	1.09	1.11	1.08	1.09					0.93				3.28		
		velocity	5.16	8.39	8.23	8.46	8.39					10.45	7.54			8.36		
<b>Haloun, Lukáš (CZE) (1991)</b>																		
<b>Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)</b>																		
date	25-Feb-12	time	2.70	3.86	5.00	6.13	7.30						8.27			Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles		
reaction time	0.122	interval	1.16	1.14	1.13	1.17						0.97				3.43		
		velocity	5.08	7.88	8.02	8.09	7.81					10.02	7.26			7.99		
<b>Hardee, Trey (USA) (1984)</b>																		
<b>Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)</b>																		
date	20-Aug-09	time	2.65	3.75	4.82	5.87	6.93	8.03	9.09	10.21	11.29	12.41	13.86			Graubner (2009) - biomechanical analyses at the 12th IAAF world championships		
reaction time	0.134	interval	1.10	1.07	1.05	1.06	1.10	1.06	1.12	1.08	1.12	1.45				3.22	3.22	3.32
wind	0.3 m/s	velocity	5.18	8.31	8.54	8.70	8.62	8.31	8.62	8.16	8.46	8.16	9.67	7.94		8.52	8.52	8.26
<b>Harrington, Larry (USA) (1970)</b>																		
<b>FINAL - 1996 USA Olympic Trials (Atlanta, GA)</b>																		
date	23-Jun-96	time	2.42													McNichols (2000) - Hurdle technique study through video analysis		
reaction time		interval													dnf	3 / --		
wind	0.9 m/s	velocity	5.67															



reaction time	interval	1.13	1.08	1.08	1.10	1.09	1.10	1.09	1.12	1.15	1.45	<b>=PB</b>	3.29	3.29	3.36			
wind	1.6 m/s	velocity	5.20	8.09	8.46	8.46	8.31	8.39	8.31	8.39	8.16	7.95	9.67	7.84	8.33	8.33	8.16	
<b>FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)</b>													<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>					
date	06-Apr-17	time	2.71	3.84	4.95	6.04	7.15	8.28	9.42	10.58	11.75	12.91		14.46	6 / 1			
reaction time	interval	<a href="#">7 steps</a>	1.13	1.11	1.09	1.11	1.13	1.14	1.16	1.17	1.16	1.55				3.33	3.38	3.49
wind	-1.8 m/s	velocity	5.06	8.09	8.23	8.39	8.23	8.09	8.02	7.88	7.81	7.88	9.05	7.61		8.23	8.11	7.86
<b>FINAL - 2016 Kansai Student Athletics Championships (Osaka, JPN)</b>													<i>(2016.10.20) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</i>					
date	19-Oct-16	time	2.71	3.83	4.92	6.04	7.13	8.23	9.34	10.46	11.60	12.73		14.19	5 / 1			
reaction time	interval	<a href="#">7 steps</a>	1.12	1.09	1.12	1.09	1.10	1.11	1.12	1.14	1.13	1.46				3.33	3.30	3.39
wind	-1.0 m/s	velocity	5.06	8.16	8.39	8.16	8.39	8.31	8.23	8.16	8.02	8.09	9.60	7.75		8.23	8.31	8.09
<b>Semi-Final 1 - 2016 Japanese University Championships (Kumagaya, JPN)</b>													<i>(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</i>					
date	04-Sep-16	time	2.69	3.81	4.91	6.03	7.12	8.27	9.40	10.56	11.69	12.86		14.34	6 / 8			
reaction time	0.151	interval	1.12	1.10	1.12	1.09	1.15	1.13	1.16	1.13	1.17	1.48				3.34	3.37	3.46
wind	0.6 m/s	velocity	5.10	8.16	8.31	8.16	8.39	7.95	8.09	7.88	8.09	7.81	9.47	7.67		8.21	8.14	7.92
<b>Hayles, Jaheem (JAM) (2001)</b>																		
<b>FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)</b>																		
date	09-Jun-23	time	2.57	3.62	4.66	5.70	6.71	7.72	8.74	9.77	10.79	11.84		13.28	9 / 3			
reaction time	interval		1.05	1.04	1.04	1.01	1.01	1.02	1.03	1.02	1.05	1.44		<b>PB</b>		3.13	3.04	3.10
wind	1.8 m/s	velocity	5.34	8.70	8.79	8.79	9.05	9.05	8.96	8.87	8.96	8.70	9.74	8.28		8.76	9.02	8.85
<b>FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)</b>													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	10-Jun-22	time	2.55	3.65	4.72	5.77	6.82	7.86	8.89	9.96	11.06	12.19		13.73	4 / 9			
reaction time	interval		1.10	1.07	1.05	1.05	1.04	1.03	1.07	1.10	1.13	1.54				3.22	3.12	3.30
wind	0.0 m/s	velocity	5.38	8.31	8.54	8.70	8.70	8.79	8.87	8.54	8.31	8.09	9.10	8.01		8.52	8.79	8.31
<b>Hedvičák, Jaroslav (CZE) (1990)</b>																		
<b>Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)</b>																		
date	25-Feb-12	time	2.74	3.90	5.05	6.18	7.33							8.32	6 / 4			
reaction time	0.149	interval		1.16	1.15	1.13	1.15						0.99			3.44		
		velocity	5.01	7.88	7.95	8.09	7.95						9.82	7.21		7.97		
<b>Heinä, Joonas-Ville (FIN) (1989)</b>																		
<b>FINAL - 2011 Landskamp FIN-SWE-NOR (Tampere, FIN)</b>																		
date	05-Feb-11	time	2.56	3.64	4.68	5.76	6.84							7.87	7 / 1			
reaction time	interval		1.08	1.04	1.08	1.08						1.03				3.20		
		velocity	5.36	8.46	8.79	8.46	8.46						9.44	7.62		8.57		
<b>Helcelet, Adam Sebastian (CZE) (1990)</b>																		
<b>FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)</b>																		
date	25-Feb-12	time	2.70	3.83	4.88	5.97	7.09							8.06	7 / 5			
reaction time	0.140	interval		1.13	1.05	1.09	1.12						0.97			3.27		
		velocity	5.08	8.09	8.70	8.39	8.16						10.02	7.44		8.39		
<b>Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)</b>																		
date	25-Feb-12	time	2.69	3.82	4.90	5.96	7.13							8.13	5 / 2			
reaction time	0.135	interval		1.13	1.08	1.06	1.17						1.00			3.27		
		velocity	5.10	8.09	8.46	8.62	7.81						9.72	7.38		8.39		
<b>Hemery, David (GBR) (1944)</b>																		
<b>FINAL - 1970 Commonwealth Games (Edinburgh, GBR)</b>																		
date	18-Jul-70	time	2.55	3.65	4.65	5.70	6.75	7.80	8.85	9.90	11.00	12.10	(13.66)	13.6	1 / 1			
reaction time	interval		1.10	1.00	1.05	1.05	1.05	1.05	1.05	1.10	1.10	1.50				3.15	3.15	3.25
wind	2.9 m/s	velocity	5.38	8.31	9.14	8.70	8.70	8.70	8.70	8.31	8.31	9.35	8.09			8.70	8.70	8.44
<b>Hernández, Yoel (CUB) (1977)</b>																		
<b>FINAL - 1999 IAAF World Championships (Sevilla, ESP)</b>																		
date	25-Aug-99	time	2.57	3.61	4.63	5.66	6.65	7.65	8.68	9.71	10.73	11.83		13.30	7 / 6			
reaction time	0.129	interval		1.04	1.02	1.03	0.99	1.00	1.03	1.03	1.02	1.10	1.47			3.09	3.02	3.15
wind	1.0 m/s	velocity	5.34	8.79	8.96	8.87	9.23	9.14	8.87	8.87	8.96	8.31	9.54	8.27		8.87	9.08	8.70
<b>Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)</b>													<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>					
date	24-Aug-99	time	2.60	3.61	4.64	5.64	6.66	7.65	8.68	9.71	10.77	11.83		13.32	4 / 3			
reaction time	0.143	interval		1.01	1.03	1.00	1.02	0.99	1.03	1.03	1.06	1.06	1.49			3.04	3.04	3.15
wind	0.0 m/s	velocity	5.28	9.05	8.87	9.14	8.96	9.23	8.87	8.87	8.62	8.62	9.41	8.26		9.02	9.02	8.70
<b>Herring, Aubrey (USA) (1978)</b>																		
<b>FINAL - 2010 Windsprint (Sundsvall, SWE)</b>																		
date	08-Aug-10	time	2.68	3.75	4.84	5.90	6.96	8.04	9.13	10.23	11.36	12.49		14.07	1 / 5			
reaction time	interval		1.07	1.09	1.06	1.06	1.08	1.09	1.10	1.13	1.13	1.58				3.22	3.23	3.36
wind	1.1 m/s	velocity	5.12	8.54	8.39	8.62	8.62	8.46	8.39	8.31	8.09	8.09	8.87	7.82		8.52	8.49	8.16







date	05-May-23	time	2.50	3.48	4.48	5.48	6.45	7.45	8.47	9.50	10.53	11.60		13.01	3 / 1			
reaction time	0.181	interval	7 steps	0.98	1.00	1.00	0.97	1.00	1.02	1.03	1.03	1.07	1.41			2.98	2.99	3.13
wind	0.0 m/s	velocity	5.49	9.33	9.14	9.14	9.42	9.14	8.96	8.87	8.87	8.54	9.94	8.46		9.20	9.17	8.76
<b>FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)</b>															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	08-Sep-22	time	2.44	3.44	4.41	5.37	6.34	7.34	8.34	9.38	10.44	11.51		13.02	6 / 1			
reaction time	0.140	interval	7 steps	1.00	0.97	0.96	0.97	1.00	1.00	1.04	1.06	1.07	1.51			2.93	2.97	3.17
wind	-1.0 m/s	velocity	5.62	9.14	9.42	9.52	9.42	9.14	9.14	8.79	8.62	8.54	9.28	8.45		9.36	9.23	8.65
<b>FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)</b>															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	04-Sep-22	time	2.42	3.44	4.40	5.36	6.34	7.34	8.36	9.40	10.44	11.56		13.05	4 / 1			
reaction time	0.140	interval	7 steps	1.02	0.96	0.96	0.98	1.00	1.02	1.04	1.04	1.12	1.49			2.94	3.00	3.20
wind	0.6 m/s	velocity	5.67	8.96	9.52	9.52	9.33	9.14	8.96	8.79	8.79	8.16	9.41	8.43		9.33	9.14	8.57
<b>FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)</b>															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	26-Aug-22	time	2.50	3.54	4.54	5.54	6.52	7.54	8.58	9.61	10.64	11.69		13.11	6 / 3			
reaction time	0.122	interval	7 steps	1.04	1.00	1.00	0.98	1.02	1.04	1.03	1.03	1.05	1.42			3.04	3.04	3.11
wind	0.0 m/s	velocity	5.49	8.79	9.14	9.14	9.33	8.96	8.79	8.87	8.87	8.70	9.87	8.39		9.02	9.02	8.82
<b>FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)</b>															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	10-Aug-22	time	2.40	3.40	4.36	5.33	6.30	7.30	8.30	9.30	10.36	11.43		12.99	6 / 1			
reaction time	0.148	interval	7 steps	1.00	0.96	0.97	0.97	1.00	1.00	1.00	1.06	1.07	1.56			2.93	2.97	3.13
wind	0.6 m/s	velocity	5.72	9.14	9.52	9.42	9.42	9.14	9.14	9.14	8.62	8.54	8.99	8.47		9.36	9.23	8.76
<b>FINAL - 2022 World Athletics Championships (Eugene, OR)</b>															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>			
date	17-Jul-22	time	2.44	3.43	4.41	5.38	6.38	7.38	8.38	9.38	10.44	11.54		13.03	4 / 1			
reaction time	0.124	interval	7 steps	0.99	0.98	0.97	1.00	1.00	1.00	1.00	1.06	1.10	1.49			2.94	3.00	3.16
wind	1.2 m/s	velocity	5.62	9.23	9.33	9.42	9.14	9.14	9.14	9.14	8.62	8.31	9.41	8.44		9.33	9.14	8.68
<b>Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)</b>															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	17-Jul-22	time	2.43	3.40	4.40	5.37	6.37	7.37	8.37	9.40	10.43	11.48		13.01	6 / 1			
reaction time	0.128	interval	7 steps	0.97	1.00	0.97	1.00	1.00	1.00	1.03	1.03	1.05	1.53			2.94	3.00	3.11
wind	-0.6 m/s	velocity	5.65	9.42	9.14	9.42	9.14	9.14	9.14	8.87	8.87	8.70	9.16	8.46		9.33	9.14	8.82
<b>Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)</b>															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	16-Jul-22	time	2.43	3.46	4.46	5.43	6.43	7.43	8.46	9.50	10.53	11.63		13.14	1 / 1			
reaction time	0.147	interval	7 steps	1.03	1.00	0.97	1.00	1.00	1.03	1.04	1.03	1.10	1.51			3.00	3.03	3.17
wind	0.4 m/s	velocity	5.65	8.87	9.14	9.42	9.14	9.14	8.87	8.79	8.87	8.31	9.28	8.37		9.14	9.05	8.65
<b>Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)</b>															<i>USATF (2022) - Results powered by Karmarush.com</i>			
date	26-Jun-22	time	2.41	3.41	4.38	5.35	6.34	7.36	8.36	9.40	10.45	11.53		13.03	4 / 1			
reaction time		interval	7 steps	1.00	0.97	0.97	0.99	1.02	1.00	1.04	1.05	1.08	1.50			2.94	3.01	3.17
wind	0.4 m/s	velocity	5.69	9.14	9.42	9.42	9.23	8.96	9.14	8.79	8.70	8.46	9.35	8.44		9.33	9.11	8.65
<b>FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)</b>															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	12-Jun-22	time	2.35	3.35	4.33	5.33	6.30	7.28	8.30	9.35	10.38	11.52		13.06	6 / 2			
reaction time	0.116	interval	7 steps	1.00	0.98	1.00	0.97	0.98	1.02	1.05	1.03	1.14	1.54			2.98	2.97	3.22
wind	1.6 m/s	velocity	5.84	9.14	9.33	9.14	9.42	9.33	8.96	8.70	8.87	8.02	9.10	8.42		9.20	9.23	8.52
<b>FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)</b>															<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>			
date	20-Mar-22	time	2.36	3.40	4.38	5.38	6.38							7.39	4 / 1			
reaction time	0.151	interval	7 steps	1.04	0.98	1.00	1.00						1.01			3.02		
		velocity	5.81	8.79	9.33	9.14	9.14						9.62	8.12		9.08		
<b>Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)</b>															<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>			
date	20-Mar-22	time	2.36	3.36	4.34	5.32	6.32							7.29	6 / 1			
reaction time	0.130	interval	7 steps	1.00	0.98	0.98	1.00						0.97	<b>=WR</b>		2.96		
		velocity	5.81	9.14	9.33	9.33	9.14						10.02	8.23		9.26		
<b>Heat 5 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)</b>															<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>			
date	20-Mar-22	time	2.50	3.50	4.48	5.46	6.48							7.40	3 / 1			
reaction time	0.140	interval	7 steps	1.00	0.98	0.98	1.02						0.92			2.96		
		velocity	5.49	9.14	9.33	9.33	8.96						10.57	8.11		9.26		
<b>FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)</b>															<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>			
date	19-Feb-22	time	2.37	3.38	4.39	5.39	6.39							7.41	3 / 1			
reaction time	0.149	interval	7 steps	1.01	1.01	1.00	1.00						1.02			3.02		
		velocity	5.79	9.05	9.05	9.14	9.14						9.53	8.10		9.08		
<b>FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)</b>															<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>			
date	17-Feb-22	time	2.39	3.40	4.38	5.36	6.36							7.35	4 / 1			
reaction time	0.167	interval	7 steps	1.01	0.98	0.98	1.00						0.99			2.97		
		velocity	5.74	9.05	9.33	9.33	9.14						9.82	8.16		9.23		
<b>Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)</b>															<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>			

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

date	17-Feb-22	time	2.35	3.38	4.37	5.37	6.38													7.40	4 / 1			
reaction time	0.153	interval	7 steps	1.03	0.99	1.00	1.01													1.02	3.02			
		velocity	5.84	8.87	9.23	9.14	9.05													9.53	8.11	9.08		
<b>FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)</b>																				<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>				
date	06-Feb-22	time	2.45	3.44	4.45	5.44	6.42														7.37	3 / 1		
reaction time	0.181	interval	7 steps	0.99	1.01	0.99	0.98													0.95	2.99			
		velocity	5.60	9.23	9.05	9.23	9.33													10.23	8.14	9.17		
<b>FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)</b>																				<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	06-Aug-21	time	2.40	3.40	4.40	5.40	6.40	7.38	8.40	9.44	10.50	11.58									13.09	4 / 2		
reaction time	0.136	interval	7 steps	1.00	1.00	1.00	1.00	0.98	1.02	1.04	1.06	1.08	1.51									3.00	3.00	3.18
wind	-0.5 m/s	velocity	5.72	9.14	9.14	9.14	9.14	9.33	8.96	8.79	8.62	8.46	9.28	8.40								9.14	9.14	8.62
<b>Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)</b>																				<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	04-Aug-21	time	2.43	3.43	4.43	5.43	6.44	7.44	8.47	9.49	10.52	11.60									13.13	4 / 1		
reaction time	0.130	interval	7 steps	1.00	1.00	1.00	1.01	1.00	1.03	1.02	1.03	1.08	1.53									3.00	3.04	3.13
wind	-0.1 m/s	velocity	5.65	9.14	9.14	9.14	9.05	9.14	8.87	8.96	8.87	8.46	9.16	8.38								9.14	9.02	8.76
<b>Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)</b>																				<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	02-Aug-21	time	2.37	3.37	4.35	5.34	6.31	7.31	8.31	9.34	10.41	11.47									13.02	9 / 1		
reaction time	0.127	interval	7 steps	1.00	0.98	0.99	0.97	1.00	1.00	1.03	1.07	1.06	1.55									2.97	2.97	3.16
wind	0.1 m/s	velocity	5.79	9.14	9.33	9.23	9.42	9.14	9.14	8.87	8.54	8.62	9.05	8.45								9.23	9.23	8.68
<b>FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)</b>																				<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	06-Jul-21	time	2.36	3.37	4.37	5.35	6.34	7.34	8.36	9.40	10.47	11.56									13.08	4 / 1		
reaction time	0.145	interval	7 steps	1.01	1.00	0.98	0.99	1.00	1.02	1.04	1.07	1.09	1.52									2.99	3.01	3.20
wind	-0.1 m/s	velocity	5.81	9.05	9.14	9.33	9.23	9.14	8.96	8.79	8.54	8.39	9.22	8.41								9.17	9.11	8.57
<b>FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>																				<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	26-Jun-21	time	2.40	3.37	4.34	5.30	6.27	7.24	8.26	9.27	10.33	11.42									12.96	4 / 1		
reaction time	0.146	interval	7 steps	0.97	0.97	0.96	0.97	0.97	1.02	1.01	1.06	1.09	1.54									2.90	2.96	3.16
wind	0.4 m/s	velocity	5.72	9.42	9.42	9.52	9.42	9.42	8.96	9.05	8.62	8.39	9.10	8.49								9.46	9.26	8.68
<b>Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR)</b>																				<i>Vazel (2021) - https://twitter.com/pjvazel/status/1409323602432999426?s=21</i>				
date	26-Jun-21	time	2.49	3.49	4.45	5.40	6.36	7.36	8.35	9.36	10.38	11.42									12.81	5 / 1		
reaction time	0.169	interval	7 steps	1.00	0.96	0.95	0.96	1.00	0.99	1.01	1.02	1.04	1.39	<b>PB</b>								2.91	2.95	3.07
wind	1.8 m/s	velocity	5.51	9.14	9.52	9.62	9.52	9.14	9.23	9.05	8.96	8.79	10.09	8.59								9.42	9.29	8.93
<b>Heat 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>																				<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	25-Jun-21	time	2.43	3.43	4.43	5.40	6.42	7.43	8.46	9.49	10.51	11.55									13.11	4 / 1		
reaction time	0.175	interval	7 steps	1.00	1.00	0.97	1.02	1.01	1.03	1.03	1.02	1.04	1.56									2.97	3.06	3.09
wind	0.7 m/s	velocity	5.65	9.14	9.14	9.42	8.96	9.05	8.87	8.87	8.96	8.79	8.99	8.39								9.23	8.96	8.87
<b>FINAL - 2021 Tom Jones Invitational (Gainesville, FL) (TV Analysis)</b>																				<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	17-Apr-21	time	2.50	3.52	4.49	5.47	6.45	7.44	8.42	9.47	10.53	11.59									13.07	6 / 1		
reaction time		interval	7 steps	1.02	0.97	0.98	0.98	0.99	0.98	1.05	1.06	1.06	1.48									2.97	2.95	3.17
wind	1.3 m/s	velocity	5.49	8.96	9.42	9.33	9.33	9.23	9.33	8.70	8.62	8.62	9.47	8.42								9.23	9.29	8.65
<b>FINAL - 2021 Villa de Madrid (Madrid, ESP)</b>																				<i>Vazel (2021) - https://twitter.com/pjvazel/status/1364677209525485569</i>				
date	24-Feb-21	time	2.48	3.47	4.46	5.45	6.44														7.29	6 / 1		
reaction time		interval	7 steps	0.99	0.99	0.99	0.99														0.85	<b>WR</b>	2.97	
		velocity	5.53	9.23	9.23	9.23	9.23														11.44	8.23	9.23	
<b>Heat 1 - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)</b>																				<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>				
date	24-Feb-21	time	2.36	3.36	4.34	5.34	6.33														7.32	5 / 1		
reaction time	0.164	interval	7 steps	1.00	0.98	1.00	0.99														0.99	<b>=AR</b>	2.98	
		velocity	5.81	9.14	9.33	9.14	9.23														9.82	8.20	9.20	
<b>FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis)</b>																				<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>				
date	17-Feb-21	time	2.44	3.45	4.43	5.42	6.45														7.38	4 / 1		
reaction time	0.122	interval	7 steps	1.01	0.98	0.99	1.03														0.93		2.98	
		velocity	5.62	9.05	9.33	9.23	8.87														10.45	8.13	9.20	
<b>FINAL - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)</b>																				<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>				
date	14-Feb-21	time	2.40	3.40	4.40	5.42	6.42														7.41	5 / 1		
reaction time	0.161	interval	7 steps	1.00	1.00	1.02	1.00														0.99		3.02	
		velocity	5.72	9.14	9.14	8.96	9.14														9.82	8.10	9.08	
<b>Heat 1 - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)</b>																				<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>				
date	14-Feb-21	time	2.42	3.42	4.42	5.42	6.42														7.47	4 / 1		
reaction time	0.142	interval	7 steps	1.00	1.00	1.00	1.00														1.05		3.00	
		velocity	5.67	9.14	9.14	9.14	9.14														9.26	8.03	9.14	
<b>FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA)</b>																				<i>Vazel (2021) - https://twitter.com/pjvazel/status/1359286403834724356</i>				

date	09-Feb-21	time	2.50	3.49	4.48	5.47	6.45							7.32	5 / 1		
reaction time	0.150	interval	7 steps	0.99	0.99	0.99	0.98							0.87	AR		2.97
		velocity	5.49	9.23	9.23	9.23	9.33							11.17	8.20		9.23
<b>Heat 2 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)</b>														<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>			
date	09-Feb-21	time	2.38	3.38	4.38	5.36	6.34							7.38	4 / 1		
reaction time	0.194	interval	7 steps	1.00	1.00	0.98	0.98							1.04			2.98
		velocity	5.76	9.14	9.14	9.33	9.33							9.35	8.13		9.20
<b>FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis)</b>														<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>			
date	24-Jan-21	time	2.42	3.43	4.43	5.42	6.39							7.35	4 / 1		
reaction time	0.174	interval	7 steps	1.01	1.00	0.99	0.97							0.96	=AR =PB		3.00
		velocity	5.67	9.05	9.14	9.23	9.42							10.13	8.16		9.14
<b>FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>			
date	19-Aug-20	time	2.36	3.37	4.34	5.34	6.31	7.34	8.34	9.44	10.51	11.64		13.22	3 / 2		
reaction time	0.141	interval	7 steps	1.01	0.97	1.00	0.97	1.03	1.00	1.10	1.07	1.13	1.58			2.98	3.00
wind	0.3 m/s	velocity	5.81	9.05	9.42	9.14	9.42	8.87	9.14	8.31	8.54	8.09	8.87	8.32		9.20	9.14
<b>FINAL - 2020 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>			
date	14-Aug-20	time	2.50	3.50	4.50	5.50	6.50	7.50	8.54	9.57	10.64	11.74		13.19	3 / 4		
reaction time	0.163	interval	7 steps	1.00	1.00	1.00	1.00	1.00	1.04	1.03	1.07	1.10	1.45			3.00	3.04
wind	0.8 m/s	velocity	5.49	9.14	9.14	9.14	9.14	8.79	8.87	8.54	8.31	9.67	8.34		9.14	9.02	8.57
<b>FINAL - 2019 IAAF World Championships (Doha, QAT)</b>														<i>CAA Hurdle Development (2019)</i>			
date	02-Oct-19	time	2.46	3.46	4.44	5.41	6.41	7.40	8.42	9.44	10.50	11.60		13.10	6 / 1		
reaction time	0.158	interval	7 steps	1.00	0.98	0.97	1.00	0.99	1.02	1.02	1.06	1.10	1.50			2.95	3.01
wind	0.6 m/s	velocity	5.58	9.14	9.33	9.42	9.14	9.23	8.96	8.96	8.62	8.31	9.35	8.40		9.29	9.11
<b>Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)</b>														<i>CAA Hurdle Development (2019)</i>			
date	02-Oct-19	time	2.50	3.50	4.46	5.43	6.40	7.39	8.40	9.42	10.48	11.62		13.10	5 / 1		
reaction time	0.166	interval	7 steps	1.00	0.96	0.97	0.97	0.99	1.01	1.02	1.06	1.14	1.48			2.93	2.97
wind	1.1 m/s	velocity	5.49	9.14	9.52	9.42	9.42	9.23	9.05	8.96	8.62	8.02	9.47	8.40		9.36	9.23
<b>Heat 4 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>			
date	30-Sep-19	time	2.38	3.38	4.34	5.32	6.32	7.30	8.32	9.36	10.42	11.56		13.22	8 / 1		
reaction time	0.160	interval	7 steps	1.00	0.96	0.98	1.00	0.98	1.02	1.04	1.06	1.14	1.66			2.94	3.00
wind	0.4 m/s	velocity	5.76	9.14	9.52	9.33	9.14	9.33	8.96	8.79	8.62	8.02	8.45	8.32		9.33	9.14
<b>FINAL - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	24-Aug-19	time	2.44	3.44	4.44	5.44	6.42	7.44	8.44	9.50	10.58	11.66		13.25	5 / 6		
reaction time	0.162	interval	7 steps	1.00	1.00	1.00	0.98	1.02	1.00	1.06	1.08	1.08	1.59			3.00	3.00
wind	0.8 m/s	velocity	5.62	9.14	9.14	9.14	9.33	8.96	9.14	8.62	8.46	8.46	8.82	8.30		9.14	9.14
<b>FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	28-Jul-19	time	2.46	3.50	4.48	5.47	6.47	7.48	8.54	9.58	10.67	11.77		13.36	7 / 2		
reaction time		interval	7 steps	1.04	0.98	0.99	1.00	1.01	1.06	1.04	1.09	1.10	1.59			3.01	3.07
wind	-0.8 m/s	velocity	5.58	8.79	9.33	9.23	9.14	9.05	8.62	8.79	8.39	8.31	8.82	8.23		9.11	8.93
<b>FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	07-Jun-19	time	2.47	3.47	4.47	5.44	6.41	7.40	8.40	9.43	10.47	11.54		12.98	5 / 1		
reaction time	0.180	interval	7 steps	1.00	1.00	0.97	0.97	0.99	1.00	1.03	1.04	1.07	1.44	PB		2.97	2.96
wind	0.8 m/s	velocity	5.55	9.14	9.14	9.42	9.42	9.23	9.14	8.87	8.79	8.54	9.74	8.47		9.23	9.26
<b>Quarter-Final 1 - 2019 NCAA Championships - East Preliminary Round (Jacksonville, FL) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	25-May-19	time	2.36	3.36	4.36	5.36	6.36	7.36	8.38	9.40	10.44	11.50		13.10	6 / 1		
reaction time		interval	7 steps	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.06	1.60			3.00	3.02
wind	1.3 m/s	velocity	5.81	9.14	9.14	9.14	9.14	9.14	8.96	8.96	8.79	8.62	8.76	8.40		9.14	9.08
<b>FINAL - 2019 South Eastern Conference Championships (Fayetteville, AR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	11-May-19	time	2.53	3.53	4.53	5.53	6.50	7.50	8.50	9.53	10.58	11.68		13.12	5 / 2		
reaction time		interval	7 steps	1.00	1.00	1.00	0.97	1.00	1.00	1.03	1.05	1.10	1.44			3.00	2.97
wind	1.0 m/s	velocity	5.42	9.14	9.14	9.14	9.42	9.14	9.14	8.87	8.70	8.31	9.74	8.38		9.14	9.23
<b>FINAL - 2019 NCAA National Indoor Championships (Birmingham, AL) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	9-Mar-19	time	2.51	3.52	4.53	5.51	6.48							7.35	4 / 1		
reaction time	0.170	interval	7 steps	1.01	1.01	0.98	0.97							0.87	AR PB		3.00
		velocity	5.47	9.05	9.05	9.33	9.42							11.17	8.16		9.14
<b>FINAL - 2019 South Eastern Conference Indoor Championships (Fayetteville, AR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	23-Feb-19	time	2.55	3.57	4.57	5.56	6.54							7.44	4 / 1		
reaction time		interval	7 steps	1.02	1.00	0.99	0.98							0.90			3.01
		velocity	5.38	8.96	9.14	9.23	9.33							10.80	8.06		9.11
<b>FINAL - 2019 Tyson Indoor Invitational (Fayetteville, AR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			









wind	0.6 m/s	velocity	5.24	8.39	8.70	8.54	8.62	8.62	8.62	8.09	8.31	8.02	9.22	7.91	8.54	8.62	8.14	
<b>FINAL - 2020 Japanese National Championships (Niigata, JPN)</b>															<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>			
date	03-Oct-20	time	2.64	3.71	4.75	5.79	6.83	7.88	8.94	10.00	11.08	12.21		13.67		9 / 6		
reaction time	0.153	interval	7 steps	1.07	1.04	1.04	1.04	1.05	1.06	1.06	1.08	1.13	1.46		3.15	3.15	3.27	
wind	-0.1 m/s	velocity	5.20	8.54	8.79	8.79	8.79	8.70	8.62	8.62	8.46	8.09	9.60	8.05	8.70	8.70	8.39	
<b>Heat 2 - 2020 Japanese National Championships (Niigata, JPN)</b>															<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>			
date	02-Oct-20	time	2.62	3.68	4.72	5.75	6.81	7.86	8.92	10.00	11.06	12.17		13.61		7 / 3		
reaction time	0.151	interval	7 steps	1.06	1.04	1.03	1.06	1.05	1.06	1.08	1.06	1.11	1.44		3.13	3.17	3.25	
wind	0.4 m/s	velocity	5.24	8.62	8.79	8.87	8.62	8.70	8.62	8.46	8.62	8.23	9.74	8.08	8.76	8.65	8.44	
<b>FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)</b>															<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>			
date	23-Aug-20	time	2.70	3.79	4.86	5.93	7.01	8.11	9.23	10.34	11.46	12.61		14.09		7 / 6		
reaction time	0.146	interval	7 steps	1.09	1.07	1.07	1.08	1.10	1.12	1.11	1.12	1.15	1.48		3.23	3.30	3.38	
wind	-0.4 m/s	velocity	5.08	8.39	8.54	8.54	8.46	8.31	8.16	8.23	8.16	7.95	9.47	7.81	8.49	8.31	8.11	
<b>Ishikawa, Shuhei (JPN) (1995)</b>																		
<b>Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)</b>															<i>Omega Timing (2023) - diamond league race analysis</i>			
date	16-Jul-23	time	2.41	3.48	4.53	5.58	6.62	7.67	8.74	9.82	10.91	12.00		13.64		2 / 8		
reaction time	0.133	interval	7 steps	1.07	1.05	1.05	1.04	1.05	1.07	1.08	1.09	1.09	1.64		3.17	3.16	3.26	
wind	-0.2 m/s	velocity	5.69	8.54	8.70	8.70	8.79	8.70	8.54	8.46	8.39	8.39	8.55	8.06	8.65	8.68	8.41	
<b>Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)</b>															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>			
date	17-Jul-22	time	2.63	3.70	4.78	5.85	6.90	7.95	9.02	10.07	11.14	12.25		13.68		1 / 8		
reaction time	0.144	interval	7 steps	1.07	1.08	1.07	1.05	1.05	1.07	1.05	1.07	1.11	1.43		3.22	3.17	3.23	
wind	-0.6 m/s	velocity	5.22	8.54	8.46	8.54	8.70	8.70	8.54	8.70	8.54	8.23	9.80	8.04	8.52	8.65	8.49	
<b>Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>			
date	16-Jul-22	time	2.58	3.65	4.69	5.73	6.76	7.80	8.86	9.93	11.00	12.10		13.53		3 / 4		
reaction time	0.144	interval	7 steps	1.07	1.04	1.04	1.03	1.04	1.06	1.07	1.07	1.10	1.43		3.15	3.13	3.24	
wind	-0.3 m/s	velocity	5.32	8.54	8.79	8.79	8.87	8.79	8.62	8.54	8.54	8.31	9.80	8.13	8.70	8.76	8.46	
<b>FINAL - 2022 Japanese National Championships (Osaka, JPN)</b>															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>			
date	12-Jun-22	time	2.60	3.67	4.70	5.72	6.75	7.77	8.83	9.88	10.93	12.03		13.48		4 / 3		
reaction time	0.155	interval	7 steps	1.07	1.03	1.02	1.03	1.02	1.06	1.05	1.05	1.10	1.45		3.12	3.11	3.20	
wind	-1.2 m/s	velocity	5.28	8.54	8.87	8.96	8.87	8.96	8.62	8.70	8.70	8.31	9.67	8.16	8.79	8.82	8.57	
<b>FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)</b>															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>			
date	08-May-22	time	2.62	3.70	4.76	5.81	6.89	7.95	9.03	10.12	11.23	12.35		13.85		6 / 8		
reaction time	0.162	interval	7 steps	1.08	1.06	1.05	1.08	1.06	1.08	1.09	1.11	1.12	1.50		3.19	3.22	3.32	
wind	0.1 m/s	velocity	5.24	8.46	8.62	8.70	8.46	8.62	8.46	8.39	8.23	8.16	9.35	7.94	8.60	8.52	8.26	
<b>FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)</b>															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>			
date	01-May-22	time	2.60	3.65	4.70	5.75	6.80	7.83	8.89	9.95	11.02	12.12		13.58		6 / 3		
reaction time	0.157	interval	7 steps	1.05	1.05	1.05	1.05	1.03	1.06	1.06	1.07	1.10	1.46		3.15	3.14	3.23	
wind	0.8 m/s	velocity	5.28	8.70	8.70	8.70	8.70	8.87	8.62	8.62	8.54	8.31	9.60	8.10	8.70	8.73	8.49	
<b>FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)</b>															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>			
date	29-Apr-22	time	2.63	3.73	4.80	5.89	6.95	8.06	9.15	10.25	11.35	12.46		13.94		5 / 5		
reaction time	0.140	interval	7 steps	1.10	1.07	1.09	1.06	1.11	1.09	1.10	1.10	1.11	1.48		3.26	3.26	3.31	
wind	-1.5 m/s	velocity	5.22	8.31	8.54	8.39	8.62	8.23	8.39	8.31	8.31	8.23	9.47	7.89	8.41	8.41	8.28	
<b>FINAL - 2021 Fuse Sprint (Tottori, JPN)</b>															<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>			
date	06-Jun-21	time	2.60	3.64	4.68	5.71	6.73	7.75	8.82	9.86	10.93	12.03		13.48		7 / 2		
reaction time	0.152	interval	7 steps	1.04	1.04	1.03	1.02	1.02	1.07	1.04	1.07	1.10	1.45		3.11	3.11	3.21	
wind	1.8 m/s	velocity	5.28	8.79	8.79	8.87	8.96	8.96	8.54	8.79	8.54	8.31	9.67	8.16	8.82	8.82	8.54	
<b>FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)</b>															<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>			
date	01-Jun-21	time	2.58	3.62	4.65	5.68	6.70	7.75	8.79	9.85	10.90	11.98		13.42		6 / 2		
reaction time	0.156	interval	7 steps	1.04	1.03	1.03	1.02	1.05	1.04	1.06	1.05	1.08	1.44		3.10	3.11	3.19	
wind	0.3 m/s	velocity	5.32	8.79	8.87	8.87	8.96	8.70	8.79	8.62	8.70	8.46	9.74	8.20	8.85	8.82	8.60	
<b>FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)</b>															<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>			
date	09-May-21	time	2.65	3.74	4.77	5.80	6.86	7.93	8.99	10.07	11.15	12.25		13.67		8 / 6		
reaction time	0.141	interval	7 steps	1.09	1.03	1.03	1.06	1.07	1.06	1.08	1.08	1.10	1.42		3.15	3.19	3.26	
wind	-0.8 m/s	velocity	5.18	8.39	8.87	8.87	8.62	8.54	8.62	8.46	8.46	8.31	9.87	8.05	8.70	8.60	8.41	
<b>FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)</b>															<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>			
date	29-Apr-21	time	2.58	3.65	4.66	5.69	6.73	7.77	8.80	9.86	10.91	11.98		13.44		5 / 3		
reaction time		interval	7 steps	1.07	1.01	1.03	1.04	1.04	1.03	1.06	1.05	1.07	1.46		3.11	3.11	3.18	
wind	1.7 m/s	velocity	5.32	8.54	9.05	8.87	8.79	8.79	8.87	8.62	8.70	8.54	9.60	8.18	8.82	8.82	8.62	
<b>FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)</b>															<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>			
date	24-Oct-20	time	2.60	3.66	4.71	5.75	6.82	7.87	8.94	10.00	11.10	12.20		13.69		6 / 4		



reaction time	0.124	interval	7 steps	1.09	1.07	1.07	1.06	1.07	1.08	1.09	1.11	1.10	1.46				3.23	3.21	3.30
wind	0.3 m/s	velocity	5.32	8.39	8.54	8.54	8.62	8.54	8.46	8.39	8.23	8.31	9.60	7.98			8.49	8.54	8.31
<b>Heat 1 - 2017 Japanese National Championships (Osaka, JPN)</b>																			
date	24-Jun-17	time	2.57	3.65	4.73	5.80	6.86	7.91	8.96	10.03	11.10	12.20		13.67	4 / 2				
reaction time	0.156	interval	7 steps	1.08	1.08	1.07	1.06	1.05	1.05	1.07	1.07	1.10	1.47	PB			3.23	3.16	3.24
wind	1.3 m/s	velocity	5.34	8.46	8.46	8.54	8.62	8.70	8.70	8.54	8.54	8.31	9.54	8.05			8.49	8.68	8.46
<b>FINAL - 2016 West Japan Carnival (Kita-Kyushu, JPN)</b>																			
date	03-Nov-16	time	2.58	3.67	4.74	5.84	6.93	8.01	9.09	10.19	11.28	12.41		13.88	/ 2				
reaction time		interval		1.09	1.07	1.10	1.09	1.08	1.08	1.10	1.09	1.13	1.47				3.26	3.25	3.32
wind	1.1 m/s	velocity	5.32	8.39	8.54	8.31	8.39	8.46	8.46	8.31	8.39	8.09	9.54	7.93			8.41	8.44	8.26
<b>Semi-Final 2 - 2016 Japanese University Championships (Kumagaya, JPN)</b>																			
date	04-Sep-16	time	2.61	3.74	4.81	5.93	7.01	8.12	9.22	10.34	11.44	12.56		14.07	7 / 4				
reaction time	0.157	interval	7 steps	1.13	1.07	1.12	1.08	1.11	1.10	1.12	1.10	1.12	1.51				3.32	3.29	3.34
wind	0.7 m/s	velocity	5.26	8.09	8.54	8.16	8.46	8.23	8.31	8.16	8.31	8.16	9.28	7.82			8.26	8.33	8.21
<b>Issei, Osaka (JPN) (2002)</b>																			
<b>FINAL B - 2016 Japanese Junior Olympics (Yokohama, JPN) (91cm)</b>																			
date	30-Oct-16	time	2.76	3.91	5.06	6.21	7.33	8.49	9.63	10.82	12.00	13.21		14.87	4 / 1				
reaction time		interval		1.15	1.15	1.15	1.12	1.16	1.14	1.19	1.18	1.21	1.66				3.45	3.42	3.58
wind	-0.8 m/s	velocity	4.97	7.95	7.95	7.95	8.16	7.88	8.02	7.68	7.75	7.55	8.45	7.40			7.95	8.02	7.66
<b>Iwafune, Yoichi (JPN) (1985)</b>																			
<b>FINAL - 2017 Nambu Memorial (Sapporo, JPN)</b>																			
date	09-Jul-17	time	2.68	3.78	4.85	5.93	7.00	8.06	9.15	10.26	11.37	12.52		14.01	5 / 3				
reaction time		interval		1.10	1.07	1.08	1.07	1.06	1.09	1.11	1.11	1.15	1.49				3.25	3.22	3.37
wind	2.7 m/s	velocity	5.12	8.31	8.54	8.46	8.54	8.62	8.39	8.23	8.23	7.95	9.41	7.85			8.44	8.52	8.14
<b>Heat 4 - 2017 Japanese National Championships (Osaka, JPN)</b>																			
date	24-Jun-17	time	2.71	3.81	4.88	5.97	7.05	8.15	9.24	10.37	11.50	12.63		14.14	7 / 6				
reaction time	0.151	interval		1.10	1.07	1.09	1.08	1.10	1.09	1.13	1.13	1.13	1.51				3.26	3.27	3.39
wind	0.0 m/s	velocity	5.06	8.31	8.54	8.39	8.46	8.31	8.39	8.09	8.09	8.09	9.28	7.78			8.41	8.39	8.09
<b>FINAL - 2016 Fuse Sprint (Tottori, JPN)</b>																			
date	05-Jun-16	time	2.64	3.72	4.77	5.84	6.91	7.99	9.07	10.16	11.29	12.41		13.87	3 / 5				
reaction time		interval		1.08	1.05	1.07	1.07	1.08	1.08	1.09	1.13	1.12	1.46				3.20	3.23	3.34
wind	1.4 m/s	velocity	5.20	8.46	8.70	8.54	8.54	8.46	8.46	8.39	8.09	8.16	9.60	7.93			8.57	8.49	8.21
<b>FINAL - 2009 Nambu Chuhei Memorial (Sapporo, JPN)</b>																			
date	09-Jul-09	time	2.65	3.74	4.82	5.87	6.93	8.00	9.06	10.14	11.25	12.38		13.87	/ 3				
reaction time		interval		1.09	1.08	1.05	1.06	1.07	1.06	1.08	1.11	1.13	1.49				3.22	3.19	3.32
wind	1.2 m/s	velocity	5.18	8.39	8.46	8.70	8.62	8.54	8.62	8.46	8.23	8.09	9.41	7.93			8.52	8.60	8.26
<b>Iwakiri, Yuki (JPN) (1998)</b>																			
<b>FINAL - 2016 Japanese National High School Championships (Okayama, JPN) (99cm)</b>																			
date	02-Aug-16	time	2.77	3.88	5.00	6.13	7.24	8.39	9.53	10.70	11.87	13.06		14.67	8 / 7				
reaction time	0.160	interval		1.11	1.12	1.13	1.11	1.15	1.14	1.17	1.17	1.19	1.61				3.36	3.40	3.53
wind	1.2 m/s	velocity	4.95	8.23	8.16	8.09	8.23	7.95	8.02	7.81	7.81	7.68	8.71	7.50			8.16	8.06	7.77
<b>FINAL - 2016 Kagoshima Prefecture High School Meeting (Kagoshima, JPN)</b>																			
date	28-May-16	time	2.78	3.94	5.07	6.19	7.32	8.45	9.59	10.75	11.91	13.10		14.60	3 / 1				
reaction time		interval		1.16	1.13	1.12	1.13	1.13	1.14	1.16	1.16	1.19	1.50				3.41	3.40	3.51
wind	0.0 m/s	velocity	4.94	7.88	8.09	8.16	8.09	8.09	8.02	7.88	7.88	7.68	9.35	7.53			8.04	8.06	7.81
<b>Izumiya, Shunsuke (JPN) (2000)</b>																			
<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b>																			
date	17-Sep-23	time	2.34	3.38	4.38	5.40	6.41	7.41	8.44	9.48	10.51	11.55		13.10	7 / 4				
reaction time	0.136	interval	7 steps	1.04	1.00	1.02	1.01	1.00	1.03	1.04	1.03	1.04	1.55				3.06	3.04	3.11
wind	0.9 m/s	velocity	5.86	8.79	9.14	8.96	9.05	9.14	8.87	8.79	8.87	8.79	9.05	8.40			8.96	9.02	8.82
<b>FINAL - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>																			
date	21-Aug-23	time	2.52	3.56	4.60	5.64	6.66	7.66	8.68	9.72	10.76	11.84		13.19	6 / 5				
reaction time	0.143	interval	7 steps	1.04	1.04	1.04	1.02	1.00	1.02	1.04	1.04	1.08	1.35				3.12	3.04	3.16
wind	0.0 m/s	velocity	5.44	8.79	8.79	8.79	8.96	9.14	8.96	8.79	8.79	8.46	10.39	8.34			8.79	9.02	8.68
<b>Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>																			
date	21-Aug-23	time	2.52	3.60	4.60	5.62	6.64	7.66	8.66	9.69	10.72	11.80		13.16	6 / 1				
reaction time	0.129	interval	7 steps	1.08	1.00	1.02	1.02	1.02	1.00	1.03	1.03	1.08	1.36				3.10	3.04	3.14
wind	-0.2 m/s	velocity	5.44	8.46	9.14	8.96	8.96	8.96	9.14	8.87	8.87	8.46	10.31	8.36			8.85	9.02	8.73
<b>Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>																			
date	20-Aug-23	time	2.57	3.62	4.64	5.66	6.68	7.76	8.80	9.86	10.90	11.98		13.33	6 / 2				
reaction time	0.146	interval	7 steps	1.05	1.02	1.02	1.02	1.08	1.04	1.06	1.04	1.08	1.35				3.09	3.14	3.18

wind	0.5 m/s	velocity	5.34	8.70	8.96	8.96	8.96	8.46	8.79	8.62	8.79	8.46	10.39	8.25	8.87	8.73	8.62	
<b>FINAL - 2023 London Athletics Meet (London, GBR)</b>															<i>Omega Timing (2023) - diamond league race analysis</i>			
date	23-Jul-23	time	2.35	3.39	4.41	5.42	6.41	7.41	8.42	9.45	10.49	11.54		13.06	3 / 2			
reaction time	0.138	interval	7 steps	1.04	1.02	1.01	0.99	1.00	1.01	1.03	1.04	1.05	1.52			3.07	3.00	3.12
wind	1.3 m/s	velocity	5.84	8.79	8.96	9.05	9.23	9.14	9.05	8.87	8.79	8.70	9.22	8.42		8.93	9.14	8.79
<b>FINAL - 2023 Athletissima (Lausanne, SUI)</b>															<i>Omega Timing (2023) - diamond league race analysis</i>			
date	30-Jun-23	time	2.33	3.40	4.42	5.45	6.46	7.47	8.50	9.55	10.60	11.67		13.22	4 / 1			
reaction time	0.129	interval	7 steps	1.07	1.02	1.03	1.01	1.01	1.03	1.05	1.05	1.07	1.55			3.12	3.05	3.17
wind	-1.0 m/s	velocity	5.89	8.54	8.96	8.87	9.05	9.05	8.87	8.70	8.70	8.54	9.05	8.32		8.79	8.99	8.65
<b>FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)</b>															<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	04-Sep-22	time	2.50	3.54	4.58	5.60	6.62	7.66	8.68	9.74	10.78	11.88		13.26	8 / 4			
reaction time	0.129	interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.02	1.06	1.04	1.10	1.38			3.10	3.08	3.20
wind	0.6 m/s	velocity	5.49	8.79	8.79	8.96	8.96	8.79	8.96	8.62	8.79	8.31	10.16	8.30		8.85	8.90	8.57
<b>Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)</b>															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>			
date	17-Jul-22	time	2.59	3.65	4.68	5.72	6.77	7.81	8.85	9.91	10.97	12.04		13.42	8 / 5			
reaction time	0.112	interval	7 steps	1.06	1.03	1.04	1.05	1.04	1.04	1.06	1.06	1.07	1.38			3.13	3.13	3.19
wind	0.3 m/s	velocity	5.30	8.62	8.87	8.79	8.70	8.79	8.79	8.62	8.62	8.54	10.16	8.20		8.76	8.76	8.60
<b>Heat 5 - 2022 World Athletics Championships (Eugene, OR)</b>															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>			
date	16-Jul-22	time	2.62	3.67	4.73	5.77	6.81	7.85	8.93	9.98	11.07	12.17		13.56	1 / 3			
reaction time	0.128	interval	7 steps	1.05	1.06	1.04	1.04	1.04	1.08	1.05	1.09	1.10	1.39			3.15	3.16	3.24
wind	0.4 m/s	velocity	5.24	8.70	8.62	8.79	8.79	8.79	8.46	8.70	8.39	8.31	10.09	8.11		8.70	8.68	8.46
<b>FINAL - 2022 Japanese National Championships (Osaka, JPN)</b>															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>			
date	12-Jun-22	time	2.52	3.55	4.58	5.60	6.63	7.54	8.66	9.71	10.77	11.83		13.21	5 / 1			
reaction time	0.142	interval	7 steps	1.03	1.03	1.02	1.03	0.91	1.12	1.05	1.06	1.06	1.38			3.08	3.06	3.17
wind	-1.2 m/s	velocity	5.44	8.87	8.87	8.96	8.87	10.04	8.16	8.70	8.62	8.62	10.16	8.33		8.90	8.96	8.65
<b>FINAL - 2021 Japanese National Championships (Osaka, JPN)</b>															<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>			
date	27-Jun-21	time	2.55	3.57	4.61	5.63	6.64	7.65	8.67	9.68	10.69	11.75		13.06	6 / 1			
reaction time	0.155	interval	7 steps	1.02	1.04	1.02	1.01	1.01	1.02	1.01	1.01	1.06	1.31	NR PB		3.08	3.04	3.08
wind	1.2 m/s	velocity	5.38	8.96	8.79	8.96	9.05	9.05	8.96	9.05	9.05	8.62	10.70	8.42		8.90	9.02	8.90
<b>FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)</b>															<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>			
date	09-May-21	time	2.51	3.60	4.63	5.71	6.76	7.83	8.90	9.94	11.01	12.06		13.43	7 / 2			
reaction time	0.132	interval	7 steps	1.09	1.03	1.08	1.05	1.07	1.07	1.04	1.07	1.05	1.37			3.20	3.19	3.16
wind	-0.8 m/s	velocity	5.47	8.39	8.87	8.46	8.70	8.54	8.54	8.79	8.54	8.70	10.23	8.19		8.57	8.60	8.68
<b>FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)</b>															<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>			
date	29-Apr-21	time	2.57	3.65	4.66	5.69	6.70	7.74	8.79	9.83	10.88	11.93		13.33	3 / 2			
reaction time		interval	7 steps	1.08	1.01	1.03	1.01	1.04	1.05	1.04	1.05	1.05	1.40	PB		3.12	3.10	3.14
wind	1.7 m/s	velocity	5.34	8.46	9.05	8.87	9.05	8.79	8.70	8.79	8.70	8.70	10.01	8.25		8.79	8.85	8.73
<b>FINAL - 2020 Japanese National Championships (Niigata, JPN)</b>															<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>			
date	03-Oct-20	time	2.59	3.65	4.69	5.71	6.74	7.81	8.85	9.92	10.97	12.07		13.48	5 / 3			
reaction time	0.130	interval		1.06	1.04	1.02	1.03	1.07	1.04	1.07	1.05	1.10	1.41			3.12	3.14	3.22
wind	-0.1 m/s	velocity	5.30	8.62	8.79	8.96	8.87	8.54	8.79	8.54	8.70	8.31	9.94	8.16		8.79	8.73	8.52
<b>Heat 1 - 2020 Japanese National Championships (Niigata, JPN)</b>															<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>			
date	02-Oct-20	time	2.58	3.62	4.67	5.70	6.73	7.79	8.81	9.87	10.92	11.99		13.45	4 / 2			
reaction time	0.128	interval		1.04	1.05	1.03	1.03	1.06	1.02	1.06	1.05	1.07	1.46			3.12	3.11	3.18
wind	0.8 m/s	velocity	5.32	8.79	8.70	8.87	8.87	8.62	8.96	8.62	8.70	8.54	9.60	8.18		8.79	8.82	8.62
<b>FINAL - 2019 Japanese National Championships (Fukuoka, JPN)</b>															<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>			
date	30-Jun-19	time	2.55	3.59	4.63	5.65	6.68	7.72	8.75	9.80	10.89	11.97		13.36	6 / 2			
reaction time	0.144	interval		1.04	1.04	1.02	1.03	1.04	1.03	1.05	1.09	1.08	1.39	=NR NJR PB		3.10	3.10	3.22
wind	-0.6 m/s	velocity	5.38	8.79	8.79	8.96	8.87	8.79	8.87	8.70	8.39	8.46	10.09	8.23		8.85	8.85	8.52
<b>FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)</b>															<i>Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season</i>			
date	19-May-19	time	2.53	3.60	4.62	5.66	6.71	7.72	8.74	9.79	10.84	11.93		13.26	3 / 1			
reaction time	0.121	interval		1.07	1.02	1.04	1.05	1.01	1.02	1.05	1.05	1.09	1.33			3.13	3.08	3.19
wind	2.9 m/s	velocity	5.42	8.54	8.96	8.79	8.70	9.05	8.96	8.70	8.70	8.39	10.54	8.30		8.76	8.90	8.60
<b>FINAL - 2019 Kinami Memorial (Osaka, JPN)</b>															<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>			
date	06-May-19	time	2.59	3.63	4.71	5.76	6.78	7.87	8.96	10.01	11.07	12.20		13.58	7 / 3			
reaction time		interval		1.04	1.08	1.05	1.02	1.09	1.09	1.05	1.06	1.13	1.38			3.17	3.20	3.24
wind	0.3 m/s	velocity	5.30	8.79	8.46	8.70	8.96	8.39	8.39	8.70	8.62	8.09	10.16	8.10		8.65	8.57	8.46
<b>A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)</b>															<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>			
date	28-Apr-19	time	2.56	3.62	4.68	5.72	6.77	7.82	8.88	9.95	11.04	12.13		13.56	4 / 2			
reaction time		interval		1.06	1.06	1.04	1.05	1.05	1.06	1.07	1.09	1.09	1.43	NJR PB		3.16	3.16	3.25

wind	0.6 m/s	velocity	5.36	8.62	8.62	8.79	8.70	8.70	8.62	8.54	8.39	8.39	9.80	8.11	8.68	8.68	8.44
<b>FINAL - 2018 Japanese U20 National Championships (Nagoya, JPN) (99cm)</b>															<i>Shibayama (2021) race analysis of men's 110m hurdles in the 2021 season</i>		
date	19-Oct-18	time	2.53	3.57	4.61	5.64	6.63	7.66	8.68	9.71	10.75	11.81	13.19	6 / 1			
reaction time	0.123	interval	1.04	1.04	1.03	0.99	1.03	1.02	1.03	1.04	1.06	1.38	<b>NJR PB</b>		3.11	3.04	3.13
wind	-0.6 m/s	velocity	5.42	8.79	8.79	8.87	9.23	8.87	8.96	8.87	8.79	8.62	10.16	8.34	8.82	9.02	8.76
<b>FINAL - 2018 Japanese University National Championships (Nagoya, JPN)</b>															<i>Shibayama (2021) race analysis of men's 110m hurdles in the 2021 season</i>		
date	09-Sep-18	time	2.60	3.65	4.69	5.77	6.80	7.88	8.94	10.04	11.15	12.28	13.75	/ 1			
reaction time		interval	1.05	1.04	1.08	1.03	1.08	1.06	1.10	1.11	1.13	1.47	<b>PB</b>		3.17	3.17	3.34
wind	-1.1 m/s	velocity	5.28	8.70	8.79	8.46	8.87	8.46	8.62	8.31	8.23	8.09	9.54	8.00	8.65	8.65	8.21
<b>FINAL - 2018 IAAF World Junior Championships (Tampere, FIN) (99cm)</b>															<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>		
date	12-Jul-18	time	2.59	3.63	4.70	5.69	6.70	7.73	8.78	9.81	10.87	11.92	13.38	2 / 3			
reaction time	0.170	interval	1.04	1.07	0.99	1.01	1.03	1.05	1.03	1.06	1.05	1.46	<b>PB</b>		3.10	3.09	3.14
wind	0.3 m/s	velocity	5.30	8.79	8.54	9.23	9.05	8.87	8.70	8.87	8.62	8.70	9.60	8.22	8.85	8.87	8.73
<b>Jackson, Colin (GBR) (1967)</b>																	
<b>FINAL - 2002 European Championships (Munich, GER)</b>															<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>		
date	10-Aug-02	time	2.57	3.59	4.59	5.59	6.59	7.61	8.63	9.66	10.71	11.77	13.11	/ 1			
reaction time	0.117	interval	1.02	1.00	1.00	1.00	1.02	1.02	1.03	1.05	1.06	1.34			3.02	3.04	3.14
wind	0.4 m/s	velocity	5.34	8.96	9.14	9.14	9.14	8.96	8.96	8.87	8.70	8.62	10.46	8.39	9.08	9.02	8.73
<b>Semi-Final 2 - 2002 European Championships (Munich, GER)</b>															<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>		
date	10-Aug-02	time	2.58	3.62	4.64	5.66	6.66	7.68	8.70	9.73	10.76	11.82	13.21	/ 1			
reaction time	0.112	interval	1.04	1.02	1.02	1.00	1.02	1.02	1.03	1.03	1.06	1.39			3.08	3.04	3.12
wind	0.8 m/s	velocity	5.32	8.79	8.96	8.96	9.14	8.96	8.96	8.87	8.87	8.62	10.09	8.33	8.90	9.02	8.79
<b>Heat 1 - 2002 European Championships (Munich, GER)</b>															<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>		
date	09-Aug-02	time	2.59	3.63	4.66	5.67	6.69	7.72	8.75	9.79	10.85	11.95	13.41	/ 1			
reaction time	0.107	interval	1.04	1.03	1.01	1.02	1.03	1.03	1.04	1.06	1.10	1.46			3.08	3.08	3.20
wind	-0.9 m/s	velocity	5.30	8.79	8.87	9.05	8.96	8.87	8.87	8.79	8.62	8.31	9.60	8.20	8.90	8.90	8.57
<b>FINAL - 1999 IAAF World Championships (Sevilla, ESP)</b>															<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>		
date	25-Aug-99	time	2.51	3.52	4.52	5.50	6.51	7.52	8.52	9.55	10.58	11.64	13.04	5 / 1			
reaction time	0.116	interval	1.01	1.00	0.98	1.01	1.01	1.00	1.03	1.03	1.06	1.40			2.99	3.02	3.12
wind	1.0 m/s	velocity	5.47	9.05	9.14	9.33	9.05	9.14	8.87	8.87	8.62	10.01	8.44		9.17	9.08	8.79
<b>Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)</b>															<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>		
date	24-Aug-99	time	2.50	3.52	4.53	5.54	6.54	7.56	8.57	9.60	10.66	11.72	13.19	6 / 2			
reaction time	0.110	interval	1.02	1.01	1.01	1.00	1.02	1.01	1.03	1.06	1.06	1.47			3.04	3.03	3.15
wind	0.0 m/s	velocity	5.49	8.96	9.05	9.05	9.14	8.96	9.05	8.87	8.62	8.62	9.54	8.34	9.02	9.05	8.70
<b>Quarter-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)</b>															<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>		
date	23-Aug-99	time	2.50	3.52	4.53	5.53	6.52	7.53	8.54	9.57	10.63	11.71	13.21	6 / 1			
reaction time	0.117	interval	1.02	1.01	1.00	0.99	1.01	1.01	1.03	1.06	1.08	1.50			3.03	3.01	3.17
wind	-0.2 m/s	velocity	5.49	8.96	9.05	9.14	9.23	9.05	9.05	8.87	8.62	8.46	9.35	8.33	9.05	9.11	8.65
<b>Heat 5 - 1999 IAAF World Championships (Sevilla, ESP)</b>															<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>		
date	23-Aug-99	time	2.49	3.50	4.50	5.50	6.51	7.52	8.55	9.57	10.61	11.67	13.19	1 / 1			
reaction time	0.115	interval	1.01	1.00	1.00	1.01	1.01	1.03	1.02	1.04	1.06	1.52			3.01	3.05	3.12
wind	-0.5 m/s	velocity	5.51	9.05	9.14	9.14	9.05	9.05	8.87	8.96	8.79	8.62	9.22	8.34	9.11	8.99	8.79
<b>FINAL - 1999 Sydney Grand Prix (Sydney, AUS)</b>															<i>Arnold (2009) - UK Athletics - Hurdling Masterclass</i>		
date	20-Feb-99	time	2.57	3.62	4.66	5.68	6.70	7.72	8.76	9.79	10.85	11.92	13.30	/ 1			
reaction time		interval	1.05	1.04	1.02	1.02	1.02	1.04	1.03	1.06	1.07	1.38			3.11	3.08	3.16
wind	0.6 m/s	velocity	5.34	8.70	8.79	8.96	8.96	8.96	8.79	8.87	8.62	8.54	10.16	8.27	8.82	8.90	8.68
<b>FINAL - 1998 European Championships (Budapest, HUN)</b>															<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>		
date	22-Aug-98	time	2.56	3.58	4.60	5.58	6.59	7.59	8.57	9.59	10.63	11.69	13.02	3 / 1			
reaction time		interval	1.02	1.02	0.98	1.01	1.00	0.98	1.02	1.04	1.06	1.33	<b>CR</b>		3.02	2.99	3.12
wind	1.5 m/s	velocity	5.36	8.96	8.96	9.33	9.05	9.14	9.33	8.96	8.79	8.62	10.54	8.45	9.08	9.17	8.79
<b>FINAL - 1997 IAAF World Championships (Athens, GRE)</b>															<i>Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>		
date	07-Aug-97	time	2.58	3.62	4.62	5.62	6.62	7.62	8.62	9.64	10.68	11.72	13.05	5 / 2			
reaction time	0.118	interval	1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.04	1.33			3.04	3.00	3.10
wind	0.0 m/s	velocity	5.32	8.79	9.14	9.14	9.14	9.14	8.96	8.79	8.79	10.54	8.43		9.02	9.14	8.85
<b>FINAL - 1997 European Cup (Munich, GER)</b>															<i>Jung (2003) - http://www.fgs.uni-halle.de</i>		
date	22-Jun-97	time	2.57	3.60	4.62	5.62	6.62	7.64	8.68	9.72	10.77	11.85	13.28	/ 2			
reaction time		interval	1.03	1.02	1.00	1.00	1.02	1.04	1.04	1.05	1.08	1.43			3.05	3.06	3.17
wind	0.2 m/s	velocity	5.34	8.87	8.96	9.14	9.14	8.96	8.79	8.79	8.70	8.46	9.80	8.28	8.99	8.96	8.65
<b>FINAL - 1996 Olympic Games (Atlanta, GA)</b>															<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>		
date	26-Jul-96	time	2.36	3.42	4.42	5.48	6.43	7.40	8.48	9.54	10.56	11.62	13.19	5 / 4			



date	07-Jun-19	time	2.54	3.60	4.64	5.67	6.70	7.70	8.71	9.76	10.81	11.91		13.38		6 / 4			
reaction time	0.175	interval		1.06	1.04	1.03	1.03	1.00	1.01	1.05	1.05	1.10	1.47				3.13	3.04	3.20
wind	0.8 m/s	velocity	5.40	8.62	8.79	8.87	8.87	9.14	9.05	8.70	8.70	8.31	9.54	8.22			8.76	9.02	8.57
<b>Semi-Final 1 - 2019 NCAA National Championships (Austin, TX) (TV Analysis)</b>													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>						
date	05-Jun-19	time	2.38	3.43	4.46	5.48	6.50	7.50	8.60	9.63	10.68	11.74		13.37		7 / 2			
reaction time	0.213	interval		1.05	1.03	1.02	1.02	1.00	1.10	1.03	1.05	1.06	1.63	<b>PB</b>			3.10	3.12	3.14
wind	0.9 m/s	velocity	5.76	8.70	8.87	8.96	8.96	9.14	8.31	8.87	8.70	8.62	8.60	8.23			8.85	8.79	8.73
<b>Ján, Jan (CZE) (1993)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)</b>													<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>						
date	25-Feb-12	time	2.75	3.92	5.04	6.21	7.34							8.39		2 / 5			
reaction time	0.141	interval		1.17	1.12	1.17	1.13						1.05				3.46		
wind		velocity	4.99	7.81	8.16	7.81	8.09						9.26	7.15			7.92		
<b>Jarrett, Tony (GBR) (1968)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Heat 4 - 2002 European Championships (Munich, GER)</b>													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>						
date	09-Aug-02	time	2.66	3.72	4.78	5.80	6.86	7.90	8.96	10.01	11.09	12.19		13.63		/ 2			
reaction time	0.153	interval		1.06	1.06	1.02	1.06	1.04	1.06	1.05	1.08	1.10	1.44				3.14	3.16	3.23
wind	-0.1 m/s	velocity	5.16	8.62	8.62	8.96	8.62	8.79	8.62	8.70	8.46	8.31	9.74	8.07			8.73	8.68	8.49
<b>FINAL - 2001 European Cup (Bremen, GER)</b>													<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>						
date	24-Jun-01	time	2.64	3.70	4.76	5.80	6.84	7.91	8.95	10.01	11.10	12.17		13.58		4 / 3			
reaction time	0.150	interval		1.06	1.06	1.04	1.04	1.07	1.04	1.06	1.09	1.07	1.41				3.16	3.15	3.22
wind	1.3 m/s	velocity	5.20	8.62	8.62	8.79	8.79	8.54	8.79	8.62	8.39	8.54	9.94	8.10			8.68	8.70	8.52
<b>FINAL - 1998 European Championships (Budapest, HUN)</b>													<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>						
date	22-Aug-98	time	2.58	3.61	4.66	5.69	6.74	7.74	8.74	9.76	10.80	11.89		13.32		8 / 6			
reaction time		interval		1.03	1.05	1.03	1.05	1.00	1.00	1.02	1.04	1.09	1.43				3.11	3.05	3.15
wind	1.5 m/s	velocity	5.32	8.87	8.70	8.87	8.70	9.14	9.14	8.96	8.79	8.39	9.80	8.26			8.82	8.99	8.70
<b>FINAL - 1992 Olympic Games (Barcelona, ESP)</b>													<i>Knight (1992) - 1992 Olympic report: the hurdling events</i>						
date	03-Aug-92	time	2.63	3.69	4.71	5.72	6.75	7.78	8.79	9.82	10.88	11.93		13.26		8 / 4			
reaction time	0.163	interval		1.06	1.02	1.01	1.03	1.03	1.01	1.03	1.06	1.05	1.33				3.09	3.07	3.14
wind	0.8 m/s	velocity	5.22	8.62	8.96	9.05	8.87	8.87	9.05	8.87	8.62	8.70	10.54	8.30			8.87	8.93	8.73
<b>FINAL - 1988 Olympic Games (Seoul, KOR)</b>													<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>						
date	26-Sep-88	time	2.58	3.65	4.73	5.77	6.84	7.89	8.93	9.99	11.05	12.15		13.54		2 / 6			
reaction time	0.164	interval		1.07	1.08	1.04	1.07	1.05	1.04	1.06	1.06	1.10	1.39				3.19	3.16	3.22
wind	1.5 m/s	velocity	5.32	8.54	8.46	8.79	8.54	8.70	8.79	8.62	8.62	8.31	10.09	8.12			8.60	8.68	8.52
<b>Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)</b>													<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>						
date	26-Sep-88	time	2.54	3.62	4.69	5.74	6.78	7.82	8.90	9.96	11.04	12.11		13.56		6 / 4			
reaction time	0.152	interval		1.08	1.07	1.05	1.04	1.04	1.08	1.06	1.08	1.07	1.45				3.20	3.16	3.21
wind	-0.7 m/s	velocity	5.40	8.46	8.54	8.70	8.79	8.79	8.46	8.62	8.46	8.54	9.67	8.11			8.57	8.68	8.54
<b>Jelínek, Erik (CZE) (1998)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)</b>													<i>Feher (2015) - Final report U18 &amp; U20 Czech Republic indoor national champs</i>						
date	14-Feb-15	time	2.78	3.94	5.06	6.19	7.31							8.33		1 / 8			
reaction time	0.153	interval		1.16	1.12	1.13	1.12						1.02				3.41		
wind		velocity	4.94	7.88	8.16	8.09	8.16						9.53	7.20			8.04		
<b>Ji Haohao (CHN) (2001)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)</b>													<i>CAA Hurdle Development (2021)</i>						
date	25-Jun-21	time	2.72	3.84	4.94	6.07	7.18	8.29	9.43	10.56	11.71	12.88		14.44		7 / 7			
reaction time	0.177	interval		1.12	1.10	1.13	1.11	1.11	1.14	1.13	1.15	1.17	1.56				3.35	3.36	3.45
wind	0.5 m/s	velocity	5.04	8.16	8.31	8.09	8.23	8.23	8.02	8.09	7.95	7.81	8.99	7.62			8.19	8.16	7.95
<b>U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)</b>													<i>CAA Hurdle Development (2019)</i>						
date	14-Aug-19	time	2.69	3.77	4.84	5.90	6.94	8.04	9.09	10.19	11.31	12.43		13.96		2 / 6			
reaction time	0.187	interval		1.08	1.07	1.06	1.04	1.10	1.05	1.10	1.12	1.12	1.53				3.21	3.19	3.34
wind	-0.3 m/s	velocity	5.10	8.46	8.54	8.62	8.79	8.31	8.70	8.31	8.16	8.16	9.16	7.88			8.54	8.60	8.21
<b>U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)</b>													<i>CAA Hurdle Development (2019)</i>						
date	14-Aug-19	time	2.56	3.64	4.71	5.77	6.82	7.88	8.96	10.05	11.16	12.28		13.91		6 / 3			
reaction time	0.168	interval		1.08	1.07	1.06	1.05	1.06	1.08	1.09	1.11	1.12	1.63				3.21	3.19	3.32
wind	0.5 m/s	velocity	5.36	8.46	8.54	8.62	8.70	8.62	8.46	8.39	8.23	8.16	8.60	7.91			8.54	8.60	8.26
<b>Ji Wei (CHN) (1984)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>	
<b>FINAL - 2017 Chinese National Games (Tianjin, CHN)</b>													<i>Henson (2017) - coaching observations</i>						
date	03-Sep-17	time	2.73	3.84	4.92	5.99	7.03	8.08	9.16	10.26	11.36	12.50		14.01		9 / 6			
reaction time		interval		1.11	1.08	1.07	1.04	1.05	1.08	1.10	1.10	1.14	1.51				3.26	3.17	3.34
wind	0.3 m/s	velocity	5.03	8.23	8.46	8.54	8.79	8.70	8.46	8.31	8.31	8.02	9.28	7.85			8.41	8.65	8.21
<b>FINAL - 2009 IAAF World Championships (Berlin, GER)</b>													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						

date	20-Aug-09	time	2.68	3.77	4.80	5.84	6.86	7.92	8.96	10.02	11.09	12.17		13.57	1 / 8					
reaction time	0.144	interval		1.09	1.03	1.04	1.02	1.06	1.04	1.06	1.07	1.08	1.40			3.16	3.12	3.21		
wind	0.1 m/s	velocity	5.12	8.39	8.87	8.79	8.96	8.62	8.79	8.62	8.54	8.46	10.01	8.11		8.68	8.79	8.54		
<b>Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)</b>																				
										<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>										
date	20-Aug-09	time	2.64	3.71	4.74	5.77	6.79	7.82	8.84	9.89	10.95	12.01		13.41	4 / 3					
reaction time	0.147	interval		1.07	1.03	1.03	1.02	1.03	1.02	1.05	1.06	1.06	1.40			3.13	3.07	3.17		
wind	0.9 m/s	velocity	5.20	8.54	8.87	8.87	8.96	8.87	8.96	8.70	8.62	8.62	10.01	8.20		8.76	8.93	8.65		
<b>Heat 5 - 2009 IAAF World Championships (Berlin, GER)</b>																				
										<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>										
date	19-Aug-09	time	2.64	3.71	4.75	5.79	6.81	7.86	8.91	9.95	11.03	12.11		13.51	2 / 1					
reaction time	0.124	interval		1.07	1.04	1.04	1.02	1.05	1.05	1.04	1.08	1.08	1.40			3.15	3.12	3.20		
wind	0.0 m/s	velocity	5.20	8.54	8.79	8.79	8.96	8.70	8.70	8.79	8.46	8.46	10.01	8.14		8.70	8.79	8.57		
<b>FINAL - 2009 Osaka Grand Prix (Osaka, JPN)</b>																				
										<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>										
date	09-May-09	time	2.63	3.69	4.73	5.77	6.78	7.80	8.81	9.84	10.91	11.99		13.51	/ 3					
reaction time		interval		1.06	1.04	1.04	1.01	1.02	1.01	1.03	1.07	1.08	1.52			3.14	3.04	3.18		
wind	0.2 m/s	velocity	5.22	8.62	8.79	8.79	9.05	8.96	9.05	8.87	8.54	8.46	9.22	8.14		8.73	9.02	8.62		
<b>Jia Qihang (CHN) (2001)</b>																				
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																				
															<i>CAA Hurdle Development (2019)</i>					
<b>U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)</b>																				
date	14-Aug-19	time	2.59	3.72	4.81	5.91	6.99	8.14	9.26	10.41	11.51	12.70		14.30	7 / 5					
reaction time	0.177	interval		1.13	1.09	1.10	1.08	1.15	1.12	1.15	1.10	1.19	1.60			3.32	3.35	3.44		
wind	0.5 m/s	velocity	5.30	8.09	8.39	8.31	8.46	7.95	8.16	7.95	8.31	7.68	8.76	7.69		8.26	8.19	7.97		
<b>Jian Jinlong (CHN) (2000)</b>																				
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																				
															<i>CAA Hurdle Development (2021)</i>					
<b>Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)</b>																				
date	24-Apr-21	time	2.75	3.93	5.06	6.20	7.32	8.46	9.59	10.74	11.90	13.10		14.66	2 / 6					
reaction time	0.166	interval		1.18	1.13	1.14	1.12	1.14	1.13	1.15	1.16	1.20	1.56	PB		3.45	3.39	3.51		
wind	-1.1 m/s	velocity	4.99	7.75	8.09	8.02	8.16	8.02	8.09	7.95	7.88	7.62	8.99	7.50		7.95	8.09	7.81		
<b>Jiang Fan (CHN) (1990)</b>																				
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																				
															<i>CAA Hurdle Development (2020)</i>					
<b>Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)</b>																				
date	16-Sep-20	time	2.69	3.82	4.92	6.01	7.12	8.21	9.30	10.45	11.59	12.74		14.27	4 / 5					
reaction time	0.140	interval		1.13	1.10	1.09	1.11	1.09	1.09	1.15	1.14	1.15	1.53			3.32	3.29	3.44		
wind	-0.5 m/s	velocity	5.10	8.09	8.31	8.39	8.23	8.39	8.39	7.95	8.02	7.95	9.16	7.71		8.26	8.33	7.97		
<b>FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)</b>																				
															<i>CAA Hurdle Development (2020)</i>					
date	14-Feb-20	time	2.70	3.82	4.90	6.01	7.11							8.14	2 / 6					
reaction time		interval		1.12	1.08	1.11	1.10						1.03			3.31				
		velocity	5.08	8.16	8.46	8.23	8.31						9.44	7.37		8.28				
<b>Semi-Final 3 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)</b>																				
															<i>CAA Hurdle Development (2020)</i>					
date	14-Feb-20	time	2.68	3.80	4.85	5.94	7.00							7.96	1 / 2					
reaction time		interval		1.12	1.05	1.09	1.06						0.96			3.26				
		velocity	5.12	8.16	8.70	8.39	8.62						10.13	7.54		8.41				
<b>Heat 2 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)</b>																				
															<i>CAA Hurdle Development (2020)</i>					
date	14-Feb-20	time	2.55	3.65	4.72	5.79	6.87							7.94	2 / 1					
reaction time		interval		1.10	1.07	1.07	1.08						1.07			3.24				
		velocity	5.38	8.31	8.54	8.54	8.46						9.08	7.56		8.46				
<b>FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)</b>																				
															<i>CAA Hurdle Development (2020)</i>					
date	01-Feb-20	time	2.72	3.81	4.89	5.98	7.04							7.97	2 / 5					
reaction time		interval		1.09	1.08	1.09	1.06						0.93			3.26				
		velocity	5.04	8.39	8.46	8.39	8.62						10.45	7.53		8.41				
<b>Heat 2 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)</b>																				
															<i>CAA Hurdle Development (2020)</i>					
date	01-Feb-20	time	2.72	3.82	4.91	5.97	7.02							7.97	5 / 2					
reaction time		interval		1.10	1.09	1.06	1.05						0.95			3.25				
		velocity	5.04	8.31	8.39	8.62	8.70						10.23	7.53		8.44				
<b>Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)</b>																				
															<i>CAA Hurdle Development (2019)</i>					
date	23-Aug-19	time	2.70	3.84	4.95	6.06	7.17	8.29	9.41	10.59	11.83	13.09		14.80	9 / 6					
reaction time	0.159	interval		1.14	1.11	1.11	1.11	1.12	1.12	1.18	1.24	1.26	1.71			3.36	3.35	3.68		
wind	-0.2 m/s	velocity	5.08	8.02	8.23	8.23	8.23	8.16	8.16	7.75	7.37	7.25	8.20	7.43		8.16	8.19	7.45		
<b>FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)</b>																				
															<i>CAA Hurdle Development (2019)</i>					
date	02-Aug-19	time	2.65	3.74	4.80	5.87	6.92	7.99	9.07	10.16	11.26	12.38		13.89	5 / 4					
reaction time	0.148	interval		1.09	1.06	1.07	1.05	1.07	1.08	1.09	1.10	1.12	1.51			3.22	3.20	3.31		
wind	0.0 m/s	velocity	5.18	8.39	8.62	8.54	8.70	8.54	8.46	8.39	8.31	8.16	9.28	7.92		8.52	8.57	8.28		
<b>Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)</b>																				
															<i>CAA Hurdle Development (2019)</i>					
date	02-Aug-19	time	2.68	3.78	4.88	5.97	7.05	8.12	9.24	10.36	11.48	12.61		14.13	7 / 2					
reaction time	0.144	interval		1.10	1.10	1.09	1.08	1.07	1.12	1.12	1.12	1.13	1.52			3.29	3.27	3.37		

wind	-0.3 m/s	velocity	5.12	8.31	8.31	8.39	8.46	8.54	8.16	8.16	8.16	8.09	9.22	7.78	8.33	8.39	8.14
<b>FINAL - 2019 Chinese National Championships (Shenyang, CHN)</b>																	
CAA Hurdle Development (2019)																	
date	08-Jul-19	time	2.63	3.73	4.80	5.89	6.97	8.06	9.15	10.24	11.34	12.48		13.96	7 / 5		
reaction time	0.153	interval	1.10	1.07	1.09	1.08	1.09	1.09	1.09	1.10	1.14	1.48			3.26	3.26	3.33
wind	0.1 m/s	velocity	5.22	8.31	8.54	8.39	8.46	8.39	8.39	8.39	8.31	8.02	9.47	7.88	8.41	8.41	8.23
<b>Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)</b>																	
CAA Hurdle Development (2019)																	
date	08-Jul-19	time	2.69	3.80	4.87	5.95	7.05	8.12	9.22	10.34	11.44	12.59		14.12	6 / 2		
reaction time		interval	1.11	1.07	1.08	1.10	1.10	1.07	1.10	1.12	1.10	1.15	1.53		3.26	3.27	3.37
wind	0.1 m/s	velocity	5.10	8.23	8.54	8.46	8.31	8.54	8.31	8.16	8.31	7.95	9.16	7.79	8.41	8.39	8.14
<b>Heat 4 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)</b>																	
CAA Hurdle Development (2019)																	
date	13-Apr-19	time	2.69	3.84	4.96	6.08	7.22	8.40						dnf	8 / --		
reaction time	0.153	interval	1.15	1.12	1.12	1.14	1.18								3.39		
wind	-0.8 m/s	velocity	5.10	7.95	8.16	8.16	8.02	7.75							8.09		
<b>FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)</b>																	
CAA Hurdle Development (2019)																	
date	09-Apr-19	time	2.76	3.88	4.97	6.11	7.21	8.34	9.48	10.63	11.80	12.98		14.65	8 / 7		
reaction time	0.209	interval	1.12	1.09	1.14	1.10	1.13	1.14	1.15	1.17	1.18	1.67			3.35	3.37	3.50
wind	0.2 m/s	velocity	4.97	8.16	8.39	8.02	8.31	8.09	8.02	7.95	7.81	7.75	8.40	7.51	8.19	8.14	7.83
<b>Heat 2 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)</b>																	
CAA Hurdle Development (2019)																	
date	08-Apr-19	time	2.71	3.85	4.95	6.05	7.15	8.26	9.38	10.50	11.65	12.79		14.33	5 / 2		
reaction time	0.176	interval	1.14	1.10	1.10	1.10	1.11	1.12	1.12	1.15	1.14	1.54			3.34	3.33	3.41
wind	-0.6 m/s	velocity	5.06	8.02	8.31	8.31	8.31	8.23	8.16	8.16	7.95	8.02	9.10	7.68	8.21	8.23	8.04
<b>A-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)</b>																	
CAA Hurdle Development (2019)																	
date	24-Feb-19	time	2.68	3.80	4.89	5.99	7.09							8.03	5 / 3		
reaction time		interval	1.12	1.09	1.10	1.10						0.94			3.31		
		velocity	5.12	8.16	8.39	8.31	8.31					10.34	7.47		8.28		
<b>A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)</b>																	
CAA Hurdle Development (2019)																	
date	20-Feb-19	time	2.67	3.79	4.85	5.94	7.02							7.94	5 / 1		
reaction time		interval	1.12	1.06	1.09	1.08						0.92			3.27		
		velocity	5.14	8.16	8.62	8.39	8.46					10.57	7.56		8.39		
<b>FINAL - 2017 Chinese National Games (Tianjin, CHN)</b>																	
Henson (2017) - coaching observations																	
date	03-Sep-17	time	2.65	3.72	4.79	5.84	6.89	7.94	9.02	10.11	11.20	12.31		13.78	2 / 2		
reaction time		interval	1.07	1.07	1.05	1.05	1.05	1.08	1.09	1.09	1.11	1.47			3.19	3.18	3.29
wind	0.3 m/s	velocity	5.18	8.54	8.54	8.70	8.70	8.70	8.46	8.39	8.39	8.23	9.54	7.98	8.60	8.62	8.33
<b>Jiang Jinlong (CHN) (2000)</b>																	
CAA Hurdle Development (2019)																	
H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10																	
<b>U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)</b>																	
CAA Hurdle Development (2019)																	
date	14-Aug-19	time	2.70	3.80	4.90	5.99	7.09	8.18	9.26	10.37	11.48	12.61		14.16	3 / 5		
reaction time	0.168	interval	1.10	1.10	1.09	1.10	1.09	1.08	1.11	1.11	1.13	1.55			3.29	3.27	3.35
wind	-0.3 m/s	velocity	5.08	8.31	8.31	8.39	8.31	8.39	8.46	8.23	8.23	8.09	9.05	7.77	8.33	8.39	8.19
<b>Jiang Wei (CHN) (1994)</b>																	
CAA Hurdle Development (2021)																	
H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10																	
<b>Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)</b>																	
CAA Hurdle Development (2021)																	
date	25-Jun-21	time	2.69	3.82	4.97	6.09	7.21	8.31	9.43	10.56	11.73	12.90		14.49	4 / 5		
reaction time	0.162	interval	1.13	1.15	1.12	1.12	1.10	1.12	1.13	1.17	1.17	1.59			3.40	3.34	3.47
wind	-0.2 m/s	velocity	5.10	8.09	7.95	8.16	8.16	8.31	8.16	8.09	7.81	7.81	8.82	7.59	8.06	8.21	7.90
<b>FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)</b>																	
CAA Hurdle Development (2021)																	
date	19-May-21	time	2.74	3.89	5.00	6.10	7.22	8.36	9.44	10.59	11.73	12.90		14.43	2 / 5		
reaction time	0.194	interval	1.15	1.11	1.10	1.12	1.14	1.08	1.15	1.14	1.17	1.53			3.36	3.34	3.46
wind	1.9 m/s	velocity	5.01	7.95	8.23	8.31	8.16	8.02	8.46	7.95	8.02	7.81	9.16	7.62	8.16	8.21	7.92
<b>Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)</b>																	
CAA Hurdle Development (2019)																	
date	23-Aug-19	time	2.72	3.87	4.99	6.11	7.26	8.39	9.51	10.68	11.84	13.04		14.60	3 / 4		
reaction time	0.200	interval	7 steps	1.15	1.12	1.12	1.15	1.13	1.12	1.17	1.16	1.20	1.56		3.39	3.40	3.53
wind	-0.2 m/s	velocity	5.04	7.95	8.16	8.16	7.95	8.09	8.16	7.81	7.88	7.62	8.99	7.53	8.09	8.06	7.77
<b>B-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)</b>																	
CAA Hurdle Development (2019)																	
date	4-Mar-19	time	2.69	3.79	4.87	5.93	7.01							7.98	3 / 2		
reaction time		interval	7 steps	1.10	1.08	1.06	1.08					0.97			3.24		
		velocity	5.10	8.31	8.46	8.62	8.46					10.02	7.52		8.46		
<b>Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)</b>																	
Henson (2018) - coaching observations																	
date	15-Sep-18	time	2.68	3.78	4.87	5.94	7.02	8.12	9.22	10.36	11.50	12.66		14.22	8 / 5		
reaction time		interval	7 steps	1.10	1.09	1.07	1.08	1.10	1.10	1.14	1.14	1.16	1.56		3.26	3.28	3.44
wind	0.7 m/s	velocity	5.12	8.31	8.39	8.54	8.46	8.31	8.31	8.02	8.02	7.88	8.99	7.74	8.41	8.36	7.97
<b>Jiang Yuhong (CHN) (1997)</b>																	
H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10																	

Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)															CAA Hurdle Development (2019)			
date	11-Jul-19	time	2.98	4.25	5.51	6.79	8.10	9.56	11.04	12.50	13.98	15.48	17.39	4 / 6				
reaction time	0.247	interval		1.27	1.26	1.28	1.31	1.46	1.48	1.46	1.48	1.50	1.91		3.81	4.25	4.44	
wind	-0.1 m/s	velocity	4.60	7.20	7.25	7.14	6.98	6.26	6.18	6.26	6.18	6.09	7.34	6.33	7.20	6.45	6.18	
Jiles-Tindall, Julius (USA) (1986)															USATF Men's Hurdle Development (2007)			
date	23-Jun-07	time	2.69	3.79	4.90	5.99	7.08	8.16	9.28	10.38	11.47	12.61	14.10	6 / 7				
reaction time		interval		1.10	1.11	1.09	1.09	1.08	1.12	1.10	1.09	1.14	1.49		3.30	3.29	3.33	
wind	-2.8 m/s	velocity	5.10	8.31	8.23	8.39	8.39	8.46	8.16	8.31	8.39	8.02	9.41	7.80	8.31	8.33	8.23	
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)															USATF Women's Sprint Development (2003)			
date	21-Jun-03	time	2.70	3.84	4.94	6.04	7.14	8.29	9.41	10.54	11.71	12.89	14.51	2 / 7				
reaction time		interval		1.14	1.10	1.10	1.10	1.15	1.12	1.13	1.17	1.18	1.62		3.34	3.37	3.48	
wind	-2.4 m/s	velocity	5.08	8.02	8.31	8.31	8.31	7.95	8.16	8.09	7.81	7.75	8.65	7.58	8.21	8.14	7.88	
John, Alexander (GER) (1986)															Graubner (2009) - biomechanical analyses at the 12th IAAF world championships			
date	20-Aug-09	time	2.65	3.71	4.77	5.84	6.89	7.95	9.03	10.09	11.17	12.27	13.64	6 / 8				
reaction time	0.185	interval		1.06	1.06	1.07	1.05	1.06	1.08	1.06	1.08	1.10	1.37		3.19	3.19	3.24	
wind	0.6 m/s	velocity	5.18	8.62	8.62	8.54	8.70	8.62	8.46	8.62	8.46	8.31	10.23	8.06	8.60	8.60	8.46	
Heat 4 - 2009 IAAF World Championships (Berlin, GER)															Graubner (2009) - biomechanical analyses at the 12th IAAF world championships			
date	19-Aug-09	time	2.63	3.70	4.75	5.81	6.84	7.88	8.93	9.96	11.01	12.08	13.41	5 / 2				
reaction time	0.114	interval		1.07	1.05	1.06	1.03	1.04	1.05	1.03	1.05	1.07	1.33		3.18	3.12	3.15	
wind	0.5 m/s	velocity	5.22	8.54	8.70	8.62	8.87	8.79	8.70	8.87	8.70	8.54	10.54	8.20	8.62	8.79	8.70	
Johnson, Allen (USA) (1971)															Graubner (2007) - http://www.fgs.uni-halle.de			
date	23-Sep-07	time	2.59	3.63	4.66	5.68	6.71	7.74	8.77	9.81	10.87	11.95	13.36	2 / 6				
reaction time	0.158	interval		1.04	1.03	1.02	1.03	1.03	1.03	1.04	1.06	1.08	1.41		3.09	3.09	3.18	
wind	0.0 m/s	velocity	5.30	8.79	8.87	8.96	8.87	8.87	8.87	8.79	8.62	8.46	9.94	8.23	8.87	8.87	8.62	
FINAL - 2007 USATF National Championships (Indianapolis, IN)															USATF Men's Hurdle Development (2007)			
date	24-Jun-07	time	2.59	3.62	4.64	5.64	6.67	7.69	8.76	9.78	10.93	12.03	13.60	2 / 7				
reaction time		interval		1.03	1.02	1.00	1.03	1.02	1.07	1.02	1.15	1.10	1.57		3.05	3.12	3.27	
wind	0.5 m/s	velocity	5.30	8.87	8.96	9.14	8.87	8.96	8.54	8.96	7.95	8.31	8.93	8.09	8.99	8.79	8.39	
Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)															USATF Men's Hurdle Development (2007)			
date	24-Jun-07	time	2.57	3.64	4.64	5.67	6.69	7.71	8.76	9.81	10.86	11.95	13.42	8 / 4				
reaction time		interval		1.07	1.00	1.03	1.02	1.02	1.05	1.05	1.05	1.09	1.47		3.10	3.09	3.19	
wind	-0.6 m/s	velocity	5.34	8.54	9.14	8.87	8.96	8.96	8.70	8.70	8.70	8.39	9.54	8.20	8.85	8.87	8.60	
Heat 1 - 2007 USATF National Championships (Indianapolis, IN)															USATF Men's Hurdle Development (2007)			
date	23-Jun-07	time	2.57	3.62	4.64	5.67	6.71	7.73	8.77	9.86	10.93	12.02	13.52	3 / 3				
reaction time		interval		1.05	1.02	1.03	1.04	1.02	1.04	1.09	1.07	1.09	1.50		3.10	3.10	3.25	
wind	0.1 m/s	velocity	5.34	8.70	8.96	8.87	8.79	8.96	8.79	8.39	8.54	8.39	9.35	8.14	8.85	8.85	8.44	
FINAL - 2006 IAAF World Cup (Athens, GRE) (TV Analysis)															Graubner (2009) - http://www.fgs.uni-halle.de			
date	17-Sep-06	time	2.55	3.54	4.54	5.53	6.51	7.50	8.49	9.49	10.51	11.55	12.96	3 / 1				
reaction time	0.164	interval		0.99	1.00	0.99	0.98	0.99	0.99	1.00	1.02	1.04	1.41	CR	2.98	2.96	3.06	
wind	0.4 m/s	velocity	5.38	9.23	9.14	9.23	9.33	9.23	9.23	9.14	8.96	8.79	9.94	8.49	9.20	9.26	8.96	
FINAL - 2005 USATF National Championships (Carson, CA)															USATF Women's Sprint Development (2005)			
date	24-Jun-05	time	2.56	3.57	4.58	5.58	6.56	7.56	8.58	9.56	10.58	11.64	12.99	2 / 1				
reaction time		interval		1.01	1.01	1.00	0.98	1.00	1.02	0.98	1.02	1.06	1.35		3.02	3.00	3.06	
wind	0.2 m/s	velocity	5.36	9.05	9.05	9.14	9.33	9.14	8.96	9.33	8.96	8.62	10.39	8.47	9.08	9.14	8.96	
FINAL - 2003 IAAF World Championships (Paris, FRA)															Leynier (2003) - Paris 2003 - Haies: Le 110m haies			
date	30-Aug-03	time	2.56	3.60	4.60	5.60	6.60	7.62	8.62	9.64	10.68	11.72	13.12	4 / 1				
reaction time	0.159	interval		1.04	1.00	1.00	1.00	1.02	1.00	1.02	1.04	1.04	1.40		3.04	3.02	3.10	
wind	0.3 m/s	velocity	5.36	8.79	9.14	9.14	9.14	8.96	9.14	8.96	8.79	8.79	10.01	8.38	9.02	9.08	8.85	
FINAL - 2003 Athletissima Meeting (Lausanne, SUI)															Xu (2004) - an analysis of Liu Xiang's technique in 100m hurdle final at the Athens Olympic Games			
date	01-Jul-03	time	2.56	3.58	4.60	5.60	6.58	7.58	8.60	9.60	10.62	11.66	13.06	/ 1				
reaction time		interval		1.02	1.02	1.00	0.98	1.00	1.02	1.00	1.02	1.04	1.40		3.04	3.00	3.06	
wind	0.0 m/s	velocity	5.36	8.96	8.96	9.14	9.33	9.14	8.96	9.14	8.96	8.79	10.01	8.42	9.02	9.14	8.96	
FINAL - 2003 USATF National Championships (Palo Alto, CA)															USATF Women's Sprint Development (2003)			
date	21-Jun-03	time	2.35	3.44	4.44	5.49	6.51	7.52	8.56	9.59	10.64	11.70	13.37	6 / 1				
reaction time		interval		1.09	1.00	1.05	1.02	1.01	1.04	1.03	1.05	1.06	1.67		3.14	3.07	3.14	
wind	-2.4 m/s	velocity	5.84	8.39	9.14	8.70	8.96	9.05	8.79	8.87	8.70	8.62	8.40	8.23	8.73	8.93	8.73	
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	2.48	3.49	4.51	5.51	6.52	7.55	8.59	9.65	10.71	11.78	13.45	5 / 2				

reaction time	0.135	interval	1.01	1.02	1.00	1.01	1.03	1.04	1.06	1.06	1.07	1.67		3.03	3.08	3.19					
wind	-2.2 m/s	velocity	5.53	9.05	8.96	9.14	9.05	8.87	8.79	8.62	8.62	8.54	8.40	8.18	9.05	8.90	8.60				
<b>FINAL - 2001 ISTAF (Berlin, GER)</b>													<i>Graubner (2009) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a></i>								
date	31-Aug-09	time	2.58	3.59	4.60	5.58	6.58	7.58	8.58	9.60	10.62	11.66	13.04	4 / 1							
reaction time	0.170	interval	1.01	1.01	0.98	1.00	1.00	1.00	1.02	1.02	1.04	1.38		3.00	3.00	3.08					
wind	1.0 m/s	velocity	5.32	9.05	9.05	9.33	9.14	9.14	9.14	8.96	8.96	8.79	10.16	8.44	9.14	9.14	8.90				
<b>FINAL - 1997 IAAF World Championships (Athens, GRE)</b>													<i>Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>								
date	07-Aug-97	time	2.56	3.56	4.54	5.54	6.52	7.54	8.52	9.57	10.59	11.62	12.93	4 / 1							
reaction time	0.128	interval	1.00	0.98	1.00	0.98	1.02	0.98	1.05	1.02	1.03	1.31		2.98	2.98	3.10					
wind	0.0 m/s	velocity	5.36	9.14	9.33	9.14	9.33	8.96	9.33	8.70	8.96	8.87	10.70	8.51	9.20	9.20	8.85				
<b>FINAL - 1996 Memorial Van Damme (Brussels, BEL)</b>													<i>Shi (2013) - comprehensive research on the "three characteristics" of the men's 110m hurdles</i>								
date	23-Aug-96	time	2.56	3.56	4.54	5.54	6.52	7.53	8.51	9.56	10.58	11.61	12.92	/ 1							
reaction time		interval	1.00	0.98	1.00	0.98	1.01	0.98	1.05	1.02	1.03	1.31	=AR =PB	2.98	2.97	3.10					
wind	0.2 m/s	velocity	5.36	9.14	9.33	9.14	9.33	9.05	9.33	8.70	8.96	8.87	10.70	8.51	9.20	9.23	8.85				
<b>FINAL - 1996 Olympic Games (Atlanta, GA)</b>													<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>								
date	26-Jul-96	time	2.34	3.38	4.39	5.36	6.32	7.30	8.30	9.33	10.36	11.38	12.95	6 / 1							
reaction time	0.170	interval	1.04	1.01	0.97	0.96	0.98	1.00	1.03	1.03	1.02	1.57	OR	3.02	2.94	3.08					
wind	0.8 m/s	velocity	5.86	8.79	9.05	9.42	9.52	9.33	9.14	8.87	8.87	8.96	8.93	8.49	9.08	9.33	8.90				
<b>FINAL - 1996 USA Olympic Trials (Atlanta, GA)</b>													<i>McNichols (2000) - Hurdle technique study through video analysis</i>								
date	23-Jun-96	time	2.36	3.40	4.40	5.36	6.36	7.33	8.32	9.32	10.36	11.42	12.92	6 / 1							
reaction time		interval	1.04	1.00	0.96	1.00	0.97	0.99	1.00	1.04	1.06	1.50	AR PB	3.00	2.96	3.10					
wind	0.9 m/s	velocity	5.81	8.79	9.14	9.52	9.14	9.42	9.23	9.14	8.79	8.62	9.35	8.51	9.14	9.26	8.85				
<b>Joseph, Jason (SUI) (1998)</b>																					
<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b>																	<i>Omega Timing (2023) - diamond league race analysis</i>				
date	17-Sep-23	time	2.43	3.49	4.52	5.52	6.51	7.50	8.51	9.52	10.54	11.57	13.12	8 / 5							
reaction time	0.156	interval	7 steps	1.06	1.03	1.00	0.99	0.99	1.01	1.01	1.02	1.03	1.55		3.09	2.99	3.06				
wind	0.9 m/s	velocity	5.65	8.62	8.87	9.14	9.23	9.23	9.05	9.05	8.96	8.87	9.05	8.38	8.87	9.17	8.96				
<b>FINAL - 2023 Weltklasse (Zürich, SUI)</b>																	<i>Omega Timing (2023) - diamond league race analysis</i>				
date	31-Aug-23	time	2.40	3.46	4.46	5.45	6.45	7.45	8.46	9.46	10.49	11.54	13.08	5 / 1							
reaction time	0.137	interval	7 steps	1.06	1.00	0.99	1.00	1.00	1.01	1.00	1.03	1.05	1.54	NR PB	3.05	3.01	3.08				
wind	-0.1 m/s	velocity	5.72	8.62	9.14	9.23	9.14	9.05	9.14	8.87	8.70	9.10	8.41		8.99	9.11	8.90				
<b>FINAL - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>																	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	21-Aug-23	time	2.54	3.56	4.56	5.58	6.60	7.64	8.68	9.72	10.76	11.84	13.28	9 / 7							
reaction time	0.143	interval	7 steps	1.02	1.00	1.02	1.02	1.04	1.04	1.04	1.04	1.08	1.44		3.04	3.10	3.16				
wind	0.0 m/s	velocity	5.40	8.96	9.14	8.96	8.96	8.79	8.79	8.79	8.79	8.46	9.74	8.28	9.02	8.85	8.68				
<b>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>																	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	21-Aug-23	time	2.56	3.66	4.68	5.70	6.72	7.73	8.73	9.73	10.77	11.80	13.25	8 / 4							
reaction time	0.163	interval	7 steps	1.10	1.02	1.02	1.02	1.01	1.00	1.00	1.04	1.03	1.45		3.14	3.03	3.07				
wind	-0.1 m/s	velocity	5.36	8.31	8.96	8.96	8.96	9.05	9.14	9.14	8.79	8.87	9.67	8.30	8.73	9.05	8.93				
<b>Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>																	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	20-Aug-23	time	2.53	3.60	4.62	5.64	6.68	7.72	8.78	9.82	10.86	11.90	13.38	2 / 4							
reaction time	0.159	interval	7 steps	1.07	1.02	1.02	1.04	1.04	1.06	1.04	1.04	1.04	1.48		3.11	3.14	3.12				
wind	-0.6 m/s	velocity	5.42	8.54	8.96	8.96	8.79	8.79	8.62	8.79	8.79	8.79	9.47	8.22	8.82	8.73	8.79				
<b>FINAL - 2023 Athletissima (Lausanne, SUI)</b>																	<i>Omega Timing (2023) - diamond league race analysis</i>				
date	30-Jun-23	time	2.40	3.47	4.49	5.50	6.50	7.50	8.52	9.58	10.63	11.68	13.23	5 / 2							
reaction time	0.153	interval	7 steps	1.07	1.02	1.01	1.00	1.00	1.02	1.06	1.05	1.05	1.55		3.10	3.02	3.16				
wind	-1.0 m/s	velocity	5.72	8.54	8.96	9.05	9.14	9.14	8.96	8.62	8.70	8.70	9.05	8.31	8.85	9.08	8.68				
<b>FINAL - 2023 Meeting de Paris (Paris, FRA)</b>																	<i>Omega Timing (2023) - diamond league race analysis</i>				
date	09-Jun-23	time	2.43	3.47	4.49	5.49	6.50	7.51	8.53	9.56	10.61	11.67	13.29	3 / 7							
reaction time	0.195	interval	7 steps	1.04	1.02	1.00	1.01	1.01	1.02	1.03	1.05	1.06	1.62		3.06	3.04	3.14				
wind	-0.5 m/s	velocity	5.65	8.79	8.96	9.14	9.05	9.05	8.96	8.87	8.70	8.62	8.65	8.28	8.96	9.02	8.73				
<b>Heat 1 - 2023 Meeting de Paris (Paris, FRA)</b>																	<i>Omega Timing (2023) - diamond league race analysis</i>				
date	09-Jun-23	time	2.47	3.54	4.57	5.59	6.60	7.62	8.65	9.68	10.71	11.78	13.36	4 / 2							
reaction time	0.201	interval	7 steps	1.07	1.03	1.02	1.01	1.02	1.03	1.03	1.03	1.07	1.58		3.12	3.06	3.13				
wind	-2.0 m/s	velocity	5.55	8.54	8.87	8.96	9.05	8.96	8.87	8.87	8.87	8.54	8.87	8.23	8.79	8.96	8.76				
<b>FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)</b>																	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	02-Jun-23	time	2.53	3.56	4.54	5.52	6.54	7.54	8.54	9.57	10.60	11.66	13.10	3 / 2							
reaction time	0.164	interval	7 steps	1.03	0.98	0.98	1.02	1.00	1.00	1.03	1.03	1.06	1.44	NR	2.99	3.02	3.12				
wind	-0.2 m/s	velocity	5.42	8.87	9.33	9.33	8.96	9.14	9.14	8.87	8.87	8.62	9.74	8.40	9.17	9.08	8.79				
<b>FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)</b>																	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				



<b>FINAL</b> - 2018 Kinami Michitaka Memorial (Osaka, JPN)														<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>					
date	06-May-18	time	2.65	3.72	4.80	5.86	6.94	8.00	9.10	10.20	11.33	12.47	13.91	8 / 4					
reaction time		interval		1.07	1.08	1.06	1.08	1.06	1.10	1.10	1.13	1.14	1.44	3.21	3.24	3.37			
wind	1.6 m/s	velocity	5.18	8.54	8.46	8.62	8.46	8.62	8.31	8.31	8.09	8.02	9.74	7.91	8.54	8.46	8.14		
<b>Semi-Final 2</b> - 2017 Japanese National Championships (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>					
date	24-Jun-17	time	2.64	3.72	4.79	5.88	6.95	8.03	9.11	10.21	11.33	12.45	13.93	8 / 6					
reaction time	0.144	interval		1.08	1.07	1.09	1.07	1.08	1.08	1.10	1.12	1.12	1.48	3.24	3.23	3.34			
wind	0.3 m/s	velocity	5.20	8.46	8.54	8.39	8.54	8.46	8.46	8.31	8.16	8.16	9.47	7.90	8.46	8.49	8.21		
<b>Heat 3</b> - 2017 Japanese National Championships (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>					
date	24-Jun-17	time	2.62	3.72	4.78	5.86	6.92	8.00	9.09	10.18	11.30	12.44	13.88	2 / 2					
reaction time	0.140	interval		1.10	1.06	1.08	1.06	1.08	1.09	1.09	1.12	1.14	1.44	3.24	3.23	3.35			
wind	0.5 m/s	velocity	5.24	8.31	8.62	8.46	8.62	8.46	8.39	8.39	8.16	8.02	9.74	7.93	8.46	8.49	8.19		
<b>FINAL</b> - 2017 Kansai Regional University Championships (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>					
date	11-May-17	time	2.64	3.72	4.81	5.89	6.98	8.06	9.15	10.25	11.35	12.48	13.93	7 / 1					
reaction time		interval		1.08	1.09	1.08	1.09	1.08	1.09	1.10	1.10	1.13	1.45	3.25	3.26	3.33			
wind	1.6 m/s	velocity	5.20	8.46	8.39	8.46	8.39	8.46	8.39	8.31	8.31	8.09	9.67	7.90	8.44	8.41	8.23		
<b>FINAL</b> - 2017 Mito Invitational (Mito, JPN)														<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>					
date	05-May-17	time	2.68	3.76	4.90	6.01	7.12	8.24	9.37	10.49	11.64	12.81	14.33	3 / 7					
reaction time		interval		1.08	1.14	1.11	1.11	1.12	1.13	1.12	1.15	1.17	1.52	3.33	3.36	3.44			
wind	-2.3 m/s	velocity	5.12	8.46	8.02	8.23	8.23	8.16	8.09	8.16	7.95	7.81	9.22	7.68	8.23	8.16	7.97		
<b>Heat 2</b> - 2017 Mito Invitational (Mito, JPN)														<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>					
date	05-May-17	time	2.67	3.77	4.83	5.93	7.03	8.12	9.21	10.34	11.48	12.64	14.11	6 / 3					
reaction time		interval		1.10	1.06	1.10	1.10	1.09	1.09	1.13	1.14	1.16	1.47	3.26	3.28	3.43			
wind	0.6 m/s	velocity	5.14	8.31	8.62	8.31	8.31	8.39	8.39	8.09	8.02	7.88	9.54	7.80	8.41	8.36	7.99		
<b>B FINAL</b> - 2017 Mikio Oda Memorial (Hiroshima, JPN)														<i>(2017) - tfdata-store.com/2017/05/01/458/</i>					
date	29-Apr-17	time	2.67	3.75	4.86	5.97	7.06	8.18	9.31	10.47	11.60	12.76	14.28	6 / 6					
reaction time		interval		1.08	1.11	1.11	1.09	1.12	1.13	1.16	1.13	1.16	1.52	3.30	3.34	3.45			
wind	-1.5 m/s	velocity	5.14	8.46	8.23	8.23	8.39	8.16	8.09	7.88	8.09	7.88	9.22	7.70	8.31	8.21	7.95		
<b>FINAL</b> - 2017 Kyoto University Meeting (Kyoto, JPN)														<i>(2017) - tfdata-store.com/2017/04/12/post-362/</i>					
date	09-Apr-17	time	2.68	3.77	4.85	5.95	7.02	8.11	9.21	10.31	11.41	12.51	13.97	6 / 1					
reaction time		interval		1.09	1.08	1.10	1.07	1.09	1.10	1.10	1.10	1.10	1.46	3.27	3.26	3.30			
wind	1.5 m/s	velocity	5.12	8.39	8.46	8.31	8.54	8.39	8.31	8.31	8.31	8.31	9.60	7.87	8.39	8.41	8.31		
<b>FINAL</b> - 2016 Japanese University Championships (Kumagaya, JPN)														<i>(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</i>					
date	04-Sep-16	time	2.71	3.83	4.94	6.06	7.17	8.27	9.39	10.51	11.64	12.80	14.32	9 / 5					
reaction time	0.169	interval		1.12	1.11	1.12	1.11	1.10	1.12	1.12	1.13	1.16	1.52	3.35	3.33	3.41			
wind	-1.9 m/s	velocity	5.06	8.16	8.23	8.16	8.23	8.31	8.16	8.16	8.09	7.88	9.22	7.68	8.19	8.23	8.04		
<b>Semi-Final 1</b> - 2016 Japanese University Championships (Kumagaya, JPN)														<i>(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</i>					
date	04-Sep-16	time	2.71	3.80	4.88	5.98	7.08	8.18	9.29	10.37	11.47	12.59	14.01	7 / 2					
reaction time	0.159	interval		1.09	1.08	1.10	1.10	1.10	1.11	1.08	1.10	1.12	1.42	3.27	3.31	3.30			
wind	0.6 m/s	velocity	5.06	8.39	8.46	8.31	8.31	8.31	8.23	8.46	8.31	8.16	9.87	7.85	8.39	8.28	8.31		
<b>FINAL</b> - 2016 Japanese National Championships (Nagoya, JPN)														<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>					
date	26-Jun-16	time	2.64	3.74	4.81	5.89	6.97	8.02	9.11	10.18	11.25	12.36	13.78	1 / 6					
reaction time	0.146	interval		1.10	1.07	1.08	1.08	1.05	1.09	1.07	1.07	1.11	1.42	3.25	3.22	3.25			
wind	2.4 m/s	velocity	5.20	8.31	8.54	8.46	8.46	8.70	8.39	8.54	8.54	8.23	9.87	7.98	8.44	8.52	8.44		
<b>FINAL</b> - 2016 Kansai University Meeting (Osaka, JPN)														<i>(2016.05.30) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</i>					
date	13-May-16	time	2.64	3.72	4.80	5.85	6.92	7.98	9.04	10.11	11.20	12.30	13.72	5 / 1					
reaction time		interval		1.08	1.08	1.05	1.07	1.06	1.06	1.07	1.09	1.10	1.42	3.21	3.19	3.26			
wind	0.5 m/s	velocity	5.20	8.46	8.46	8.70	8.54	8.62	8.62	8.54	8.39	8.31	9.87	8.02	8.54	8.60	8.41		
<b>FINAL</b> - 2016 Mito Invitational (Mito, JPN)														<i>(2016.05.27) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</i>					
date	05-May-16	time	2.66	3.74	4.81	5.89	6.96	8.04	9.12	10.22	11.32	12.45	13.86	4 / 2					
reaction time		interval		1.08	1.07	1.08	1.07	1.08	1.08	1.10	1.10	1.13	1.41	3.23	3.23	3.33			
wind	0.7 m/s	velocity	5.16	8.46	8.54	8.46	8.54	8.46	8.46	8.31	8.31	8.09	9.94	7.94	8.49	8.49	8.23		
<b>Kameyama, Yuji (JPN) (1997)</b>																			
<b>FINAL</b> - 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	3.86	4.98	6.10	7.21	8.30	9.40	10.52	11.64	12.81	14.33	6 / 5					
reaction time		interval		1.12	1.12	1.12	1.11	1.09	1.10	1.12	1.12	1.17	1.52	3.36	3.30	3.41			
wind	1.6 m/s	velocity	5.01	8.16	8.16	8.16	8.23	8.39	8.31	8.16	8.16	7.81	9.22	7.68	8.16	8.31	8.04		
<b>Kanai, Nao (JPN) (1997)</b>																			
<b>FINAL</b> - 2015 Japanese National Junior Championships (Nagoya, JPN) (0.99)														<i>Takashima (2015) - race analysis of 110m &amp; 100m hurdles in Japan- results 2015 competitions</i>					
date	16-Oct-15	time	2.65	3.74	4.81	5.89	6.97	8.04	9.12	10.22	11.32	12.45	13.91	5 / 2					







<b>Semi-Final 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)</b> (2016.11.08) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>															
date	21-Oct-16	time	2.63	3.70	4.79	5.84	6.91	7.99	9.07	10.17	11.28	12.41	13.85	4 / 1	
reaction time		interval		1.07	1.09	1.05	1.07	1.08	1.08	1.10	1.11	1.13	1.44	3.21 3.23 3.34	
wind	1.0 m/s	velocity	5.22	8.54	8.39	8.70	8.54	8.46	8.46	8.31	8.23	8.09	9.74	7.94 8.54 8.49 8.21	
<b>Heat 4 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)</b> (2016.11.08) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>															
date	21-Oct-16	time	2.67	3.75	4.83	5.90	6.97	8.04	9.14	10.23	11.33	12.51	14.05	1 / 1	
reaction time		interval		1.08	1.08	1.07	1.07	1.10	1.10	1.09	1.10	1.18	1.54	3.23 3.24 3.37	
wind	1.5 m/s	velocity	5.14	8.46	8.46	8.54	8.54	8.31	8.39	8.31	7.75	9.10	7.83	8.49 8.46 8.14	
<b>Katsuta, Kizuku (JPN) (1999)</b>															
<b>FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)</b> Kota (2017) - 70th high school championships: JAF scientific committee- biomechanics data															
date	02-Aug-17	time	2.68	3.78	4.88	5.98	7.08	8.20	9.33	10.44	11.59	12.73	14.19	7 / 1	
reaction time	0.153	interval		1.10	1.10	1.10	1.10	1.12	1.13	1.11	1.15	1.14	1.46	3.30 3.35 3.40	
wind	-0.7 m/s	velocity	5.12	8.31	8.31	8.31	8.31	8.16	8.09	8.23	7.95	8.02	9.60	7.75 8.31 8.19 8.06	
<b>FINAL - 2017 Fuse Sprint (Tottori, JPN)</b> (2017) - <a href="http://tfdata-store.com/2017/06/04/post-848/">tfdata-store.com/2017/06/04/post-848/</a>															
date	04-Jun-17	time	2.69	3.78	4.90	5.99	7.09	8.20	9.32	10.45	11.57	12.74	14.20	3 / 6	
reaction time		interval		1.09	1.12	1.09	1.10	1.11	1.12	1.13	1.12	1.17	1.46	3.30 3.33 3.42	
wind	3.2 m/s	velocity	5.10	8.39	8.16	8.39	8.31	8.23	8.16	8.09	8.16	7.81	9.60	7.75 8.31 8.23 8.02	
<b>FINAL - 2016 Japanese National High School Championships (Okayama, JPN) (99cm)</b> Kota (2016) - 69th high school championships: JAF scientific committee- biomechanics data															
date	02-Aug-16	time	2.65	3.74	4.88	5.99	7.11	8.24	9.36	10.46	11.59	12.74	14.18	4 / 2	
reaction time	0.147	interval		1.09	1.14	1.11	1.12	1.13	1.12	1.10	1.13	1.15	1.44	PB 3.34 3.37 3.38	
wind	1.2 m/s	velocity	5.18	8.39	8.02	8.23	8.16	8.09	8.16	8.31	8.09	7.95	9.74	7.76 8.21 8.14 8.11	
<b>Kavka, Tomáš (CZE) (1989)</b>															
<b>FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)</b> Feher (2014) - Final report from the Czech Republic national championships															
date	02-Aug-14	time	2.77	3.93	5.03	6.21	7.35	8.53	9.69	10.85	12.08	13.27	14.95	7 / 6	
reaction time	0.122	interval		1.16	1.10	1.18	1.14	1.18	1.16	1.16	1.23	1.19	1.68	3.44 3.48 3.58	
wind	-1.2 m/s	velocity	4.95	7.88	8.31	7.75	8.02	7.75	7.88	7.88	7.43	7.68	8.35	7.36 7.97 7.88 7.66	
<b>Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)</b> Feher (2014) - Final report from the Czech Republic national championships															
date	02-Aug-14	time	2.84	4.00	5.15	6.25	7.40	8.55	9.70	10.85	12.05	13.28	14.83	6 / 3	
reaction time	0.150	interval		1.16	1.15	1.10	1.15	1.15	1.15	1.15	1.20	1.23	1.55	3.41 3.45 3.58	
wind	0.8 m/s	velocity	4.83	7.88	7.95	8.31	7.95	7.95	7.95	7.95	7.62	7.43	9.05	7.42 8.04 7.95 7.66	
<b>FINAL - 2013 Czech Republic National Championships (Tábor, CZE)</b> Feher (2013) - Final report from the men's & women's Czech Republic national championships															
date	15-Jun-13	time	2.80	3.92	5.05	6.13	7.24	8.38	9.50	10.65	11.79	12.95	14.54	6 / 5	
reaction time	0.161	interval		1.12	1.13	1.08	1.11	1.14	1.12	1.15	1.14	1.16	1.59	3.33 3.37 3.45	
wind	0.4 m/s	velocity	4.90	8.16	8.09	8.46	8.23	8.02	8.16	7.95	8.02	7.88	8.82	7.57 8.23 8.14 7.95	
<b>Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)</b> Feher (2013) - Final report from the men's & women's Czech Republic national championships															
date	15-Jun-13	time	2.81	3.98	5.08	6.19	7.32	8.45	9.58	10.70	11.87	13.03	14.59	5 / 2	
reaction time	0.161	interval		1.17	1.10	1.11	1.13	1.13	1.13	1.12	1.17	1.16	1.56	3.38 3.39 3.45	
wind	-0.3 m/s	velocity	4.88	7.81	8.31	8.23	8.09	8.09	8.09	8.16	7.81	7.88	8.99	7.54 8.11 8.09 7.95	
<b>FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)</b> Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles															
date	25-Feb-12	time	2.74	3.88	4.94	6.01	7.10						8.05	6 / 4	
reaction time	0.153	interval		1.14	1.06	1.07	1.09					0.95		3.27	
		velocity	5.01	8.02	8.62	8.54	8.39					10.23	7.45	8.39	
<b>Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)</b> Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles															
date	25-Feb-12	time	2.75	3.87	4.95	6.02	7.11						8.09	3 / 2	
reaction time	0.143	interval		1.12	1.08	1.07	1.09					0.98		3.27	
		velocity	4.99	8.16	8.46	8.54	8.39					9.92	7.42	8.39	
<b>Kawahara, Ren (JPN) (2006)</b>															
<b>FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)</b> Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season															
date	24-Oct-21	time	2.74	3.89	5.05	6.21	7.39	8.54	9.69	10.81	11.94	13.11	14.68	1 / 2	
reaction time		interval		1.15	1.16	1.16	1.18	1.15	1.15	1.12	1.13	1.17	1.57	3.47 3.48 3.42	
wind	1.0 m/s	velocity	5.01	7.95	7.88	7.88	7.75	7.95	7.95	8.16	8.09	7.81	8.93	7.49 7.90 7.88 8.02	
<b>Kawakami, Asuma (JPN) (1999)</b>															
<b>Semi-Final 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)</b> (2016.11.11) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>															
date	21-Oct-16	time	2.67	3.76	4.87	5.96	7.04	8.14	9.24	10.35	11.49	12.63	14.09	5 / 2	
reaction time		interval		1.09	1.11	1.09	1.08	1.10	1.10	1.11	1.14	1.14	1.46	3.29 3.28 3.39	
wind	-0.2 m/s	velocity	5.14	8.39	8.23	8.39	8.46	8.31	8.31	8.23	8.02	8.02	9.60	7.81 8.33 8.36 8.09	
<b>Heat 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)</b> (2016.11.07) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>															
date	21-Oct-16	time	2.67	3.78	4.88	5.97	7.08	8.20	9.31	10.43	11.56	12.71	14.21	7 / 1	
reaction time		interval		1.11	1.10	1.09	1.11	1.12	1.11	1.12	1.13	1.15	1.50	3.30 3.34 3.40	
wind	1.7 m/s	velocity	5.14	8.23	8.31	8.39	8.23	8.16	8.23	8.16	8.09	7.95	9.35	7.74 8.31 8.21 8.06	
<b>Kawamura, Naoya (JPN) (1996)</b>															
H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10



































wind	1.9 m/s	velocity	5.14	8.31	8.31	8.62	8.39	8.54	8.16	8.16	8.09	7.95	9.16	7.78	8.41	8.36	8.06	
<b>Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)</b>																		
date	24-Apr-21	time	2.66	3.77	4.92	6.02	7.14	8.29	9.49	10.70	11.90	13.14	14.78	CAA Hurdle Development (2021)				
reaction time	0.164	interval	1.11	1.15	1.10	1.12	1.15	1.20	1.21	1.20	1.24	1.64	3.36	3.47	3.65			
wind	-1.1 m/s	velocity	5.16	8.23	7.95	8.31	8.16	7.95	7.62	7.55	7.62	7.37	8.55	7.44	8.16	7.90	7.51	
<b>U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)</b>																		
date	14-Aug-19	time	2.54	3.61	4.67	5.69	6.73	7.76	8.80	9.86	10.91	11.99	13.47	CAA Hurdle Development (2019)				
reaction time	0.152	interval	1.07	1.06	1.02	1.04	1.03	1.04	1.06	1.05	1.08	1.48	PB	3.15	3.11	3.19		
wind	-0.3 m/s	velocity	5.40	8.54	8.62	8.96	8.79	8.87	8.79	8.62	8.70	8.46	9.47	8.17	8.70	8.82	8.60	
<b>U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)</b>																		
date	14-Aug-19	time	2.57	3.61	4.67	5.71	6.74	7.77	8.83	9.89	10.98	12.08	13.66	CAA Hurdle Development (2019)				
reaction time	0.152	interval	1.04	1.06	1.04	1.03	1.03	1.06	1.06	1.09	1.10	1.58	3.14	3.12	3.25			
wind	0.6 m/s	velocity	5.34	8.79	8.62	8.79	8.87	8.87	8.62	8.62	8.39	8.31	8.87	8.05	8.73	8.79	8.44	
<b>Liu Junqian (CHN) (2003)</b>																		
<b>FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)</b>																		
date	08-Apr-21	time	2.68	3.80	4.92	6.04	7.16	8.28	9.40	10.52	11.72	12.90	14.51	CAA Hurdle Development (2021)				
reaction time		interval	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.20	1.18	1.61	3.36	3.36	3.50			
wind	-0.1 m/s	velocity	5.12	8.16	8.16	8.16	8.16	8.16	8.16	8.16	7.62	7.75	8.71	7.58	8.16	8.16	7.83	
<b>Liu Junxi (CHN) (2003)</b>																		
<b>U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)</b>																		
date	14-Aug-19	time	2.61	3.78										dnf	CAA Hurdle Development (2019)			
reaction time		interval	1.17										4 / --					
wind	-0.1 m/s	velocity	5.26	7.81														
<b>Liu Xiang (CHN) (1983)</b>																		
<b>FINAL - 2012 Prefontaine Classic (Eugene, OR) (TV Analysis)</b>																		
date	02-Jun-12	time	2.50	3.52	4.52	5.50	6.48	7.50	8.48	9.48	10.48	11.50	12.87	Henson (2020) - Athlete First: 2012 Aries Merritt world record season				
reaction time	0.131	interval	7 steps	1.02	1.00	0.98	0.98	1.02	0.98	1.00	1.00	1.02	1.37	3.00	2.98	3.02		
wind	2.4 m/s	velocity	5.49	8.96	9.14	9.33	9.33	8.96	9.33	9.14	9.14	8.96	10.23	8.55	9.14	9.20	9.08	
<b>FINAL - 2012 Golden Grand Prix (Shanghai, CHN)</b>																		
date	19-May-12	time	2.38	3.38	4.45	5.42	6.42	7.45	8.42	9.46	10.43	11.47	12.97	Feng (2016) - Liu Xiang's seven-step starting: discussion on the key issues of 110m hurdles technical training				
reaction time	0.160	interval	1.00	1.07	0.97	1.00	1.03	0.97	1.04	0.97	1.04	1.50	3.04	3.00	3.05			
wind	0.4 m/s	velocity	5.76	9.14	8.54	9.42	9.14	8.87	9.42	8.79	9.42	8.79	9.35	8.48	9.02	9.14	8.99	
<b>FINAL - 2012 Seiko Golden Grand Prix (Kawasaki, JPN)</b>																		
date	06-May-12	time	2.51	3.57	4.57	5.59	6.58	7.59	8.61	9.62	10.63	11.67	13.09	Karube (2013) - the analysis of hurdle clearance and interval sprint in men's 110m sprint hurdle				
reaction time		interval	7 steps	1.06	1.00	1.02	0.99	1.01	1.02	1.01	1.01	1.04	1.42	3.08	3.02	3.06		
wind	0.2 m/s	velocity	5.47	8.62	9.14	8.96	9.23	9.05	8.96	9.05	9.05	8.79	9.87	8.40	8.90	9.08	8.96	
<b>FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis)</b>																		
date	11-Mar-12	time	2.50	3.52	4.54	5.56	6.58							7.49	Henson (2020) - Athlete First: 2012 Aries Merritt world record season			
reaction time	0.167	interval	7 steps	1.02	1.02	1.02	1.02							0.91	3.06			
		velocity	5.49	8.96	8.96	8.96	8.96							10.68	8.01	8.96		
<b>FINAL - 2012 Aviva Grand Prix (Birmingham, GBR)</b>																		
date	18-Feb-12	time	2.54	3.54	4.54	5.54	6.51							7.41	Wang (2012) - analysis of the time characteristics of Liu Xiang in his first 110m hurdles competition of 2012			
reaction time	0.154	interval	1.00	1.00	1.00	0.97							0.90	AR PB	3.00			
		velocity	5.40	9.14	9.14	9.14	9.42							10.80	8.10	9.14		
<b>FINAL - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)</b>																		
date	29-Aug-11	time	2.48	3.52	4.52	5.52	6.52	7.51	8.51	9.52	10.54	11.62	13.27	Henson (2021) - Athlete First: major championships report				
reaction time	0.164	interval	7 steps	1.04	1.00	1.00	1.00	0.99	1.00	1.01	1.02	1.08	1.65	3.04	2.99	3.11		
wind	-1.1 m/s	velocity	5.53	8.79	9.14	9.14	9.14	9.23	9.14	9.05	8.96	8.46	8.50	8.29	9.02	9.17	8.82	
<b>FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)</b>																		
date	14-Mar-10	time	2.61	3.67	4.70	5.73	6.77							7.65	Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships			
reaction time	0.151	interval	1.06	1.03	1.03	1.04							0.88	3.12				
		velocity	5.26	8.62	8.87	8.87	8.79							11.05	7.84	8.79		
<b>FINAL - 2007 Golden Grand Prix (Shanghai, CHN)</b>																		
date	28-Sep-07	time	2.26	3.22	4.36	5.44	6.40	7.42	8.29	9.32	10.42	11.46	13.21	Ma (2008) - analysis of Liu Xiang's time characteristic in men's 110m hurdles during golden grand prix in Shanghai				
reaction time	0.164	interval	0.96	1.14	1.08	0.96	1.02	0.87	1.03	1.10	1.04	1.75	3.18	2.85	3.17			
wind	-0.4 m/s	velocity	6.07	9.52	8.02	8.46	9.52	8.96	10.51	8.87	8.31	8.79	8.01	8.33	8.62	9.62	8.65	
<b>FINAL - 2007 IAAF World Championships (Osaka, JPN)</b>																		
date	31-Aug-07	time	2.57	3.61	4.58	5.58	6.57	7.55	8.55	9.55	10.53	11.57	12.95	Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data				
reaction time	0.161	interval	1.04	0.97	1.00	0.99	0.98	1.00	1.00	0.98	1.04	1.38	3.01	2.97	3.02			
wind	1.7 m/s	velocity	5.34	8.79	9.42	9.14	9.23	9.33	9.14	9.14	9.33	8.79	10.16	8.49	9.11	9.23	9.08	









reaction time	0.162	interval	1.04	1.04	1.02	1.02							0.90	<b>PB</b>	3.10			
		velocity	5.36	8.79	8.79	8.96	8.96						10.80	7.92	8.85			
<b>Race 1 - 2011 European Team Championships (Stockholm, SWE)</b>																		
date	19-Jun-11	time	2.60	3.66	4.72	5.80	6.84	7.92	8.98	10.06	11.16	12.24		13.76	Blomkvist (2011) - www.sub13.se			
reaction time	0.173	interval	1.06	1.06	1.08	1.04	1.08	1.06	1.08	1.10	1.08	1.52			3.20	3.18	3.26	
wind	-0.8 m/s	velocity	5.28	8.62	8.62	8.46	8.79	8.46	8.62	8.46	8.31	8.46	9.22	7.99	8.57	8.62	8.41	
<b>Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)</b>																		
date	20-Aug-09	time	2.59	3.62	4.67	5.70	6.73	7.79	8.85	9.89	10.97	12.05		13.46	Graubner (2009) - biomechanical analyses at the 12th IAAF world championships			
reaction time	0.154	interval	1.03	1.05	1.03	1.03	1.06	1.06	1.04	1.08	1.08	1.41	<b>PB</b>		3.11	3.15	3.20	
wind	0.6 m/s	velocity	5.30	8.87	8.70	8.87	8.87	8.62	8.62	8.79	8.46	8.46	9.94	8.17	8.82	8.70	8.57	
<b>Ma Lei (CHN) (1989)</b>																		
<b>Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)</b>																		
date	08-Jul-19	time	2.72	3.85	4.95	6.04	7.14	8.22	9.31	10.43	11.54	12.69		14.21	CAA Hurdle Development (2019)			
reaction time	0.155	interval	7 steps	1.13	1.10	1.09	1.10	1.08	1.09	1.12	1.11	1.15	1.52		3.32	3.27	3.38	
wind	0.1 m/s	velocity	5.04	8.09	8.31	8.39	8.31	8.46	8.39	8.16	8.23	7.95	9.22	7.74	8.26	8.39	8.11	
<b>FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)</b>																		
date	23-May-19	time	2.68	3.78	4.86	5.92	6.98	8.06	9.14	10.22	11.32	12.42		13.91	CAA Hurdle Development (2019)			
reaction time	0.158	interval	7 steps	1.10	1.08	1.06	1.06	1.08	1.08	1.08	1.10	1.10	1.49		3.24	3.22	3.28	
wind	2.5 m/s	velocity	5.12	8.31	8.46	8.62	8.62	8.46	8.46	8.46	8.31	8.31	9.41	7.91	8.46	8.52	8.36	
<b>Heat 4 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)</b>																		
date	13-Apr-19	time	2.76	3.88	4.98	6.09	7.17	8.28	9.38	10.50	11.66	12.80		14.36	CAA Hurdle Development (2019)			
reaction time	0.164	interval	7 steps	1.12	1.10	1.11	1.08	1.11	1.10	1.12	1.16	1.14	1.56		3.33	3.29	3.42	
wind	-0.8 m/s	velocity	4.97	8.16	8.31	8.23	8.46	8.23	8.31	8.16	7.88	8.02	8.99	7.66	8.23	8.33	8.02	
<b>FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)</b>																		
date	09-Apr-19	time	2.94	4.10	5.22	6.34	7.46	8.59	9.71	10.87	12.04	13.24		14.87	CAA Hurdle Development (2019)			
reaction time	0.328	interval	7 steps	1.16	1.12	1.12	1.12	1.13	1.12	1.16	1.17	1.20	1.63		3.40	3.37	3.53	
wind	0.2 m/s	velocity	4.67	7.88	8.16	8.16	8.16	8.09	8.16	7.88	7.81	7.62	8.60	7.40	8.06	8.14	7.77	
<b>Heat 5 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)</b>																		
date	08-Apr-19	time	2.75	3.89	5.00	6.09	7.18	8.30	9.42	10.54	11.68	12.82		14.34	CAA Hurdle Development (2019)			
reaction time	0.159	interval	7 steps	1.14	1.11	1.09	1.09	1.12	1.12	1.12	1.14	1.14	1.52		3.34	3.33	3.40	
wind	0.6 m/s	velocity	4.99	8.02	8.23	8.39	8.39	8.16	8.16	8.16	8.02	8.02	9.22	7.67	8.21	8.23	8.06	
<b>FINAL - 2018 Chinese National Championships (Taiyuan, CHN)</b>																		
date	16-Sep-18	time	2.74	3.87	4.96	6.07	7.21	8.36	9.53	10.69	11.89	13.11		14.80	Henson (2018) - coaching observations			
reaction time		interval	7 steps	1.13	1.09	1.11	1.14	1.15	1.17	1.16	1.20	1.22	1.69		3.33	3.46	3.58	
wind	-0.3 m/s	velocity	5.01	8.09	8.39	8.23	8.02	7.95	7.81	7.88	7.62	7.49	8.30	7.43	8.23	7.92	7.66	
<b>Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)</b>																		
date	15-Sep-18	time	2.72	3.82	4.90	5.99	7.07	8.14	9.24	10.34	11.46	12.61		14.10	Henson (2018) - coaching observations			
reaction time		interval	7 steps	1.10	1.08	1.09	1.08	1.07	1.10	1.10	1.12	1.15	1.49		3.27	3.25	3.37	
wind	0.7 m/s	velocity	5.04	8.31	8.46	8.39	8.46	8.54	8.31	8.31	8.16	7.95	9.41	7.80	8.39	8.44	8.14	
<b>FINAL - 2018 National Grand Prix Final (Guiyang, CHN) (Altitude)</b>																		
date	17-Jun-18	time	2.69	3.78	4.84	5.91	6.98	8.04	9.13	10.21	11.32	12.45		13.93	Zhang (2019) - comparative analysis characteristics Chinese elite men's 110m hurdles in different age groups			
reaction time		interval	7 steps	1.09	1.06	1.07	1.07	1.06	1.09	1.08	1.11	1.13	1.48		3.22	3.22	3.32	
wind	-0.3 m/s	velocity	5.10	8.39	8.62	8.54	8.54	8.62	8.39	8.46	8.23	8.09	9.47	7.90	8.52	8.52	8.26	
<b>FINAL - 2017 Chinese National Games (Tianjin, CHN)</b>																		
date	03-Sep-17	time	2.72	3.81	4.87	5.94	6.99	8.07	9.13	10.23	11.36	12.48		13.96	Henson (2017) - coaching observations			
reaction time		interval	7 steps	1.09	1.06	1.07	1.05	1.08	1.06	1.10	1.13	1.12	1.48		3.22	3.19	3.35	
wind	0.3 m/s	velocity	5.04	8.39	8.62	8.54	8.70	8.46	8.62	8.31	8.09	8.16	9.47	7.88	8.52	8.60	8.19	
<b>Machi, Ryota (JPN) (2001)</b>																		
<b>FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (99cm)</b>																		
date	06-Oct-19	time	2.64	3.74	4.80	5.86	6.93	7.95	9.01	10.08	11.16	12.26		13.72	Enomoto (2019) - research on athlete performance and technique- 2019 data book			
reaction time	0.145	interval	1.10	1.06	1.06	1.07	1.02	1.06	1.07	1.08	1.10	1.46			3.22	3.15	3.25	
wind	2.7 m/s	velocity	5.20	8.31	8.62	8.62	8.54	8.96	8.62	8.54	8.46	8.31	9.60	8.02	8.52	8.70	8.44	
<b>Mack, Thomas (USA) (1985)</b>																		
<b>Heat 4 - 2007 USATF National Championships (Indianapolis, IN)</b>																		
date	23-Jun-07	time	2.64	3.74	4.82	5.91	7.01	8.11	9.20	10.31	11.43	12.56		14.03	USATF Men's Hurdle Development (2007)			
reaction time		interval	1.10	1.08	1.09	1.10	1.10	1.09	1.11	1.12	1.13	1.47			3.27	3.29	3.36	
wind	-2.8 m/s	velocity	5.20	8.31	8.46	8.39	8.31	8.31	8.39	8.23	8.16	8.09	9.54	7.84	8.39	8.33	8.16	
<b>Maeda, Hirotake (JPN) (1996)</b>																		
<b>Heat 3 - 2017 Japanese National Championships (Osaka, JPN)</b>																		
date	24-Jun-17	time	2.60	3.73	4.82	5.92	7.01	8.16	9.30	10.41	11.51	12.64		14.05	(2017) - tfdata-store.com/2017/07/13/post-1040/			
reaction time	0.137	interval	1.13	1.09	1.10	1.09	1.15	1.14	1.11	1.10	1.13	1.41			3.32	3.38	3.34	

















reaction time	0.170	interval	1.17	1.14	1.12	1.10	1.13	1.11	1.15	1.14	1.15	1.55		3.43	3.34	3.44	
wind	-0.9 m/s	velocity	5.01	7.81	8.02	8.16	8.31	8.09	8.23	7.95	8.02	7.95	9.05	7.59	7.99	8.21	7.97
<b>Decathlon - Heat 2</b> - 2019 Japanese National Multi-Event Championships (Nagano, JPN) <i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	09-Jun-19	time	2.69	3.80	4.91	5.99	7.08	8.19	9.28	10.41	11.53	12.68		14.19	5 / 3		
reaction time		interval	1.11	1.11	1.08	1.09	1.11	1.09	1.13	1.12	1.15	1.51		3.30	3.29	3.40	
wind	2.1 m/s	velocity	5.10	8.23	8.23	8.46	8.39	8.23	8.39	8.09	8.16	7.95	9.28	7.75	8.31	8.33	8.06
<b>Decathlon - Heat 3</b> - 2018 Japanese National Multi-Event Championships (Nagano, JPN) <i>Matsubayashi (2018) - research on athlete performance and technique</i>																	
date	17-Jun-18	time	2.70	3.81	4.91	5.99	7.07	8.14	9.22	10.34	11.45	12.61		14.08	6 / 1		
reaction time		interval	1.11	1.10	1.08	1.08	1.07	1.08	1.12	1.11	1.16	1.47	<b>PB</b>	3.29	3.23	3.39	
wind	0.2 m/s	velocity	5.08	8.23	8.31	8.46	8.46	8.54	8.46	8.16	8.23	7.88	9.54	7.81	8.33	8.49	8.09
<b>Masashi, Kimoto (JPN)</b>																	
<b>FINAL</b> - 2016 West Japan University Championships (Kyoto, JPN) <i>(2016.07.02) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en</i>																	
date	01-Jul-16	time	2.66	3.74	4.84	5.93	7.01	8.10	9.20	10.31	11.44	12.58		14.01	4 / 1		
reaction time		interval	1.08	1.10	1.09	1.08	1.09	1.10	1.11	1.13	1.14	1.43		3.27	3.27	3.38	
wind	-2.1 m/s	velocity	5.16	8.46	8.31	8.39	8.46	8.39	8.31	8.23	8.09	8.02	9.80	7.85	8.39	8.39	8.11
<b>Mason, Tyler (JAM) (1995)</b>																	
<b>FINAL</b> - 2023 Kamila Skolimowska Memorial (Silesia, POL) <i>Omega Timing (2023) - diamond league race analysis</i>																	
date	16-Jul-23	time	2.38	3.45	4.50	5.53	6.55	7.57	8.59	9.63	10.67	11.72		13.29	5 / 3		
reaction time	0.138	interval	7 steps	1.07	1.05	1.03	1.02	1.02	1.02	1.04	1.04	1.05	1.57		3.15	3.06	3.13
wind	0.3 m/s	velocity	5.76	8.54	8.70	8.87	8.96	8.96	8.96	8.79	8.79	8.70	8.93	8.28	8.70	8.96	8.76
<b>Heat 2</b> - 2023 Kamila Skolimowska Memorial (Silesia, POL) <i>Omega Timing (2023) - diamond league race analysis</i>																	
date	16-Jul-23	time	2.40	3.46	4.49	5.52	6.53	7.57	8.60	9.64	10.67	11.71		13.28	4 / 2		
reaction time	0.152	interval	7 steps	1.06	1.03	1.03	1.01	1.04	1.03	1.04	1.03	1.04	1.57		3.12	3.08	3.11
wind	-0.2 m/s	velocity	5.72	8.62	8.87	8.87	9.05	8.79	8.87	8.79	8.87	8.79	8.93	8.28	8.79	8.90	8.82
<b>FINAL</b> - 2023 Jamaican National Championships (Kingston, JAM) (TV Analysis) <i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																	
date	09-Jul-23	time	2.53	3.58	4.62	5.62	6.60	7.60	8.62	9.65	10.67	11.72		13.22	5 / 4		
reaction time		interval	7 steps	1.05	1.04	1.00	0.98	1.00	1.02	1.03	1.02	1.05	1.50		3.09	3.00	3.10
wind	0.7 m/s	velocity	5.42	8.70	8.79	9.14	9.33	9.14	8.96	8.87	8.96	8.70	9.35	8.32	8.87	9.14	8.85
<b>FINAL</b> - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis) <i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																	
date	21-May-23	time	2.56	3.66	4.67	5.66	6.66	7.66	8.68	9.72	10.75	11.86		13.30	3 / 4		
reaction time	0.155	interval	7 steps	1.10	1.01	0.99	1.00	1.00	1.02	1.04	1.03	1.11	1.44		3.10	3.02	3.18
wind	4.0 m/s	velocity	5.36	8.31	9.05	9.23	9.14	9.14	8.96	8.79	8.87	8.23	9.74	8.27	8.85	9.08	8.62
<b>Masuno, Genta (JPN) (1993)</b>																	
<b>FINAL</b> - 2020 Michitaka Kinami Memorial (Osaka, JPN) <i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>																	
date	24-Oct-20	time	2.61	3.68	4.75	5.80	6.87	7.92	8.98	10.06	11.18	12.27		13.77	2 / 5		
reaction time		interval	1.07	1.07	1.05	1.07	1.05	1.06	1.06	1.08	1.12	1.09	1.50		3.19	3.18	3.29
wind	0.6 m/s	velocity	5.26	8.54	8.54	8.70	8.54	8.70	8.62	8.46	8.16	8.39	9.35	7.99	8.60	8.62	8.33
<b>FINAL</b> - 2020 Japanese National Championships (Niigata, JPN) <i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>																	
date	03-Oct-20	time	2.59	3.65	4.71	5.76	6.81	7.87	8.94	10.00	11.09	12.18		13.61	4 / 5		
reaction time	0.136	interval	1.06	1.06	1.05	1.05	1.06	1.07	1.06	1.09	1.09	1.43		3.17	3.18	3.24	
wind	-0.1 m/s	velocity	5.30	8.62	8.62	8.70	8.70	8.62	8.54	8.62	8.39	8.39	9.80	8.08	8.65	8.62	8.46
<b>Heat 2</b> - 2020 Japanese National Championships (Niigata, JPN) <i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>																	
date	02-Oct-20	time	2.63	3.69	4.75	5.79	6.83	7.88	8.93	10.00	11.08	12.16		13.59	8 / 2		
reaction time	0.148	interval	1.06	1.06	1.04	1.04	1.05	1.05	1.07	1.08	1.08	1.43		3.16	3.14	3.23	
wind	0.4 m/s	velocity	5.22	8.62	8.62	8.79	8.79	8.70	8.70	8.54	8.46	8.46	9.80	8.09	8.68	8.73	8.49
<b>Race 2</b> - 2020 World Athletics Trials (Fuji, JPN) <i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>																	
date	06-Sep-20	time	2.60	3.67	4.73	5.76	6.81	7.88	8.95	10.03	11.12	12.23		13.69	3 / 1		
reaction time		interval	1.07	1.06	1.03	1.05	1.07	1.07	1.07	1.08	1.09	1.11	1.46		3.16	3.19	3.28
wind	1.3 m/s	velocity	5.28	8.54	8.62	8.87	8.70	8.54	8.54	8.46	8.39	8.23	9.60	8.04	8.68	8.60	8.36
<b>FINAL</b> - 2020 Athlete Night Games (Fukui, JPN) <i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>																	
date	29-Aug-20	time	2.61	3.67	4.72	5.75	6.81	7.88	8.94	10.00	11.09	12.19		13.62	1 / 7		
reaction time		interval	1.06	1.05	1.03	1.06	1.07	1.06	1.06	1.09	1.10	1.43		3.14	3.19	3.25	
wind	1.4 m/s	velocity	5.26	8.62	8.70	8.87	8.62	8.54	8.62	8.39	8.31	9.80	8.08	8.73	8.60	8.44	
<b>A FINAL</b> - 2018 National Sports Festival (Fukui, JPN) <i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																	
date	08-Oct-18	time	2.60	3.65	4.67	5.70	6.74	7.78	8.84	9.91	10.98	12.07		13.50	5 / 2		
reaction time	0.143	interval	1.05	1.02	1.03	1.04	1.04	1.06	1.07	1.07	1.09	1.43		3.10	3.14	3.23	
wind	1.2 m/s	velocity	5.28	8.70	8.96	8.87	8.79	8.79	8.62	8.54	8.54	8.39	9.80	8.15	8.85	8.73	8.49
<b>FINAL</b> - 2018 Japanese National Championships (Yamaguchi, JPN) <i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																	
date	24-Jun-18	time	2.61	3.68	4.72	5.76	6.81	7.87	8.95	10.08	11.20	12.30		13.82	6 / 7		
reaction time	0.152	interval	1.07	1.04	1.04	1.05	1.06	1.08	1.13	1.12	1.10	1.52		3.15	3.19	3.35	
wind	0.7 m/s	velocity	5.26	8.54	8.79	8.79	8.70	8.62	8.46	8.09	8.16	8.31	9.22	7.96	8.70	8.60	8.19





<b>FINAL - 2010 European Team Championships, 1st League (Budapest, HUN)</b>														<i>Blomkvist (2010) - www.sub13.se</i>					
date	20-Jun-10	time	2.57	3.67	4.76	5.80	6.87	7.93	9.01	10.12	11.20	12.33		13.95	6 / 5				
reaction time	0.176	interval		1.10	1.09	1.04	1.07	1.06	1.08	1.11	1.08	1.13	1.62			3.23	3.21	3.32	
wind	1.1 m/s	velocity	5.34	8.31	8.39	8.79	8.54	8.62	8.46	8.23	8.46	8.09	8.65	7.89		8.49	8.54	8.26	
<b>McConico, Jaylan (USA) (1998)</b>																			
<b>Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	26-Jun-21	time	2.55	3.62	4.64	5.68	6.70	7.72	8.74	9.81	10.86	11.94		13.43	4 / 6				
reaction time	0.209	interval		1.07	1.02	1.04	1.02	1.02	1.07	1.10	1.05	1.08	1.49			3.13	3.06	3.20	
wind	1.8 m/s	velocity	5.38	8.54	8.96	8.79	8.96	8.96	8.96	8.54	8.70	8.46	9.41	8.19		8.76	8.96	8.57	
<b>FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	11-Jun-21	time	2.55	3.57	4.60	5.63	6.63	7.63	8.73	9.80	10.83	11.93		13.38	4 / 2				
reaction time	0.194	interval		1.02	1.03	1.03	1.00	1.00	1.10	1.07	1.03	1.10	1.45			3.08	3.10	3.20	
wind	-0.6 m/s	velocity	5.38	8.96	8.87	8.87	9.14	9.14	8.31	8.54	8.87	8.31	9.67	8.22		8.90	8.85	8.57	
<b>McCorry, Jacob (AUS) (1997)</b>																			
<b>B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)</b>														<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>					
date	28-Apr-19	time	2.67	3.76	4.83	5.92	7.03	8.14	9.25	10.36	11.46	12.63		14.20	3 / 3				
reaction time		interval		1.09	1.07	1.09	1.11	1.11	1.11	1.11	1.10	1.17	1.57			3.25	3.33	3.38	
wind	1.4 m/s	velocity	5.14	8.39	8.54	8.39	8.23	8.23	8.23	8.23	8.31	7.81	8.93	7.75		8.44	8.23	8.11	
<b>McDonald, Ian (IRL) (1984)</b>																			
<b>FINAL - 2012 Windsprint (Sundsvall, SWE)</b>														<i>Blomkvist (2012) - www.sub13.se</i>					
date	17-Jun-12	time	2.74	3.84	4.94	6.03	7.12	8.21	9.35	10.48	11.62	12.77		14.36	1 / 5				
reaction time		interval		1.10	1.10	1.09	1.09	1.09	1.14	1.13	1.14	1.15	1.59			3.29	3.32	3.42	
wind	1.1 m/s	velocity	5.01	8.31	8.31	8.39	8.39	8.39	8.02	8.09	8.02	7.95	8.82	7.66		8.33	8.26	8.02	
<b>McDonald, Rich (CAN) (1949)</b>																			
<b>Heat 4 - 1972 Olympic Games (Munich, GER)</b>														<i>Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften</i>					
date	03-Sep-72	time	2.5			5.8								14.36	8 / 3				
reaction time		interval				3.32										3.32			
wind	0.9 m/s	velocity	5.44			8.26								7.66		8.26			
<b>McDowell, Andrew (USA) (1988)</b>																			
<b>FINAL - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm)</b>														<i>USATF Men's Hurdle Development (2007)</i>					
date	21-Jun-07	time	2.69	3.74	4.77	5.82	6.89	7.94	8.98	10.09	11.18	12.30		13.84	1 / 7				
reaction time		interval		1.05	1.03	1.05	1.07	1.05	1.04	1.11	1.09	1.12	1.54			3.13	3.16	3.32	
wind	2.7 m/s	velocity	5.10	8.70	8.87	8.70	8.54	8.70	8.79	8.23	8.39	8.16	9.10	7.95		8.76	8.68	8.26	
<b>McDowell, Jon (USA) (1984)</b>																			
<b>Heat 2 - 2007 USATF National Championships (Indianapolis, IN)</b>														<i>USATF Men's Hurdle Development (2007)</i>					
date	23-Jun-07	time	2.84	3.94	5.00	6.11	7.18	8.26	9.36	10.46	11.58	12.71		14.05	1 / 7				
reaction time		interval		1.10	1.06	1.11	1.07	1.08	1.10	1.10	1.12	1.13	1.34			3.27	3.25	3.35	
wind	-1.9 m/s	velocity	4.83	8.31	8.62	8.23	8.54	8.46	8.31	8.31	8.16	8.09	10.46	7.83		8.39	8.44	8.19	
<b>McKoy, Mark (CAN) (1961)</b>																			
<b>FINAL - 1992 Olympic Games (Barcelona, ESP)</b>														<i>Knight (1992) - 1992 Olympic report: the hurdling events</i>					
date	03-Aug-92	time	2.46	3.51	4.52	5.53	6.53	7.56	8.57	9.61	10.66	11.73		13.12	4 / 1				
reaction time	0.155	interval		1.05	1.01	1.01	1.00	1.03	1.01	1.04	1.05	1.07	1.39			3.07	3.04	3.16	
wind	0.8 m/s	velocity	5.58	8.70	9.05	9.05	9.14	8.87	9.05	8.79	8.70	8.54	10.09	8.38		8.93	9.02	8.68	
<b>FINAL - 1988 Olympic Games (Seoul, KOR)</b>														<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>					
date	26-Sep-88	time	2.49	3.55	4.57	5.62	6.65	7.77	8.86	9.97	11.08	12.17		13.61	8 / 7				
reaction time	0.142	interval		1.06	1.02	1.05	1.03	1.12	1.09	1.11	1.11	1.09	1.44			3.13	3.24	3.31	
wind	1.5 m/s	velocity	5.51	8.62	8.96	8.70	8.87	8.16	8.39	8.23	8.23	8.39	9.74	8.08		8.76	8.46	8.28	
<b>Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)</b>														<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>					
date	26-Sep-88	time	2.49	3.54	4.61	5.66	6.72	7.77	8.82	9.91	10.99	12.08		13.54	5 / 3				
reaction time	0.144	interval		1.05	1.07	1.05	1.06	1.05	1.05	1.09	1.08	1.09	1.46			3.17	3.16	3.26	
wind	-0.7 m/s	velocity	5.51	8.70	8.54	8.70	8.62	8.70	8.70	8.39	8.46	8.39	9.60	8.12		8.65	8.68	8.41	
<b>McLean, James (GBR) (1991)</b>																			
<b>Junior Final - 2010 ExxonMobil Bislett Games (Oslo, NOR) (99cm)</b>														<i>Blomkvist (2010) - www.sub13.se</i>					
date	04-Jun-10	time	2.46	3.52	4.56	5.60	6.68	7.80	8.88	10.00	11.14	12.32		13.97	3 / 4				
reaction time	0.151	interval		1.06	1.04	1.04	1.08	1.12	1.08	1.12	1.14	1.18	1.65	PB		3.14	3.28	3.44	
wind	0.3 m/s	velocity	5.58	8.62	8.79	8.79	8.46	8.16	8.46	8.16	8.02	7.75	8.50	7.87		8.73	8.36	7.97	
<b>McLeod, Omar (JAM) (1994)</b>																			
<b>FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)</b>														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	21-May-22	time	2.40	3.47	4.47	5.47	6.47	7.45	8.49	9.53	10.58	11.66		13.17	5 / 2				
reaction time	0.132	interval		1.07	1.00	1.00	1.00	0.98	1.04	1.04	1.05	1.08	1.51			3.07	3.02	3.17	
wind	0.7 m/s	velocity	5.72	8.54	9.14	9.14	9.14	9.33	8.79	8.79	8.70	8.46	9.28	8.35		8.93	9.08	8.65	
<b>FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					

date	13-Jul-21	time	2.56	3.62	4.62	5.66	6.68	7.68	8.68	9.74	10.78	11.94	13.42	5 / 2			
reaction time	0.140	interval		1.06	1.00	1.04	1.02	1.00	1.00	1.06	1.04	1.16	1.48		3.10	3.02	3.26
wind	0.8 m/s	velocity	5.36	8.62	9.14	8.79	8.96	9.14	9.14	8.62	8.79	7.88	9.47	8.20	8.85	9.08	8.41
<b>Heat 1 - 2021 Jamaican National Championships (Kingston, JAM) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	26-Jun-21	time	2.47	3.53	4.53	5.56	6.53	7.57	8.57	9.57	10.58	11.59	13.04	4 / 1			
reaction time		interval		1.06	1.00	1.03	0.97	1.04	1.00	1.00	1.01	1.01	1.45		3.09	3.01	3.02
wind	1.3 m/s	velocity	5.55	8.62	9.14	8.87	9.42	8.79	9.14	9.14	9.05	9.05	9.67	8.44	8.87	9.11	9.08
<b>FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	10-Jun-21	time	2.44	3.50	4.48	5.48	6.48	7.48	8.48	9.50	10.50	11.56	13.01	4 / 1			
reaction time	0.147	interval		1.06	0.98	1.00	1.00	1.00	1.00	1.02	1.00	1.06	1.45		3.04	3.00	3.08
wind	-0.1 m/s	velocity	5.62	8.62	9.33	9.14	9.14	9.14	9.14	8.96	9.14	8.62	9.67	8.46	9.02	9.14	8.90
<b>FINAL - 2021 Fanny Blankers Koen Games (Hengelo, NED) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>			
date	06-Jun-21	time	2.37	3.43	4.48	5.50	6.47	7.47	8.54	9.56	10.58	11.66	13.08	5 / 1			
reaction time		interval		1.06	1.05	1.02	0.97	1.00	1.07	1.02	1.02	1.08	1.42		3.13	3.04	3.12
wind	1.7 m/s	velocity	5.79	8.62	8.70	8.96	9.42	9.14	8.54	8.96	8.96	8.46	9.87	8.41	8.76	9.02	8.79
<b>FINAL - 2019 IAAF World Championships (Doha, QAT)</b>														<i>CAA Hurdle Development (2019)</i>			
date	02-Oct-19	time	2.53	3.53	4.54	5.57	6.56	7.53	8.54	9.54	10.70	12.00	14.10	4 / --			
reaction time	0.128	interval		1.00	1.01	1.03	0.99	0.97	1.01	1.00	1.16	1.30	2.10	DQ	3.04	2.97	3.46
wind	0.6 m/s	velocity	5.42	9.14	9.05	8.87	9.23	9.42	9.05	9.14	7.88	7.03	6.68	7.80	9.02	9.23	7.92
<b>Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)</b>														<i>CAA Hurdle Development (2019)</i>			
date	02-Oct-19	time	2.51	3.54	4.54	5.54	6.58	7.59	8.61	9.65	10.70	11.76	13.08	5 / 1			
reaction time	0.141	interval		1.03	1.00	1.00	1.04	1.01	1.02	1.04	1.05	1.06	1.32		3.03	3.07	3.15
wind	0.9 m/s	velocity	5.47	8.87	9.14	9.14	8.79	9.05	8.96	8.79	8.70	8.62	10.62	8.41	9.05	8.93	8.70
<b>Heat 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>			
date	30-Sep-19	time	2.52	3.54	4.56	5.56	6.58	7.60	8.62	9.66	10.70	11.76	13.17	9 / 1			
reaction time	0.132	interval		1.02	1.02	1.00	1.02	1.02	1.02	1.04	1.04	1.06	1.41		3.04	3.06	3.14
wind	0.2 m/s	velocity	5.44	8.96	8.96	9.14	8.96	8.96	8.96	8.79	8.79	8.62	9.94	8.35	9.02	8.96	8.73
<b>FINAL - 2019 ISTAF (Berlin, GER) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	01-Sep-19	time	2.46	3.46	4.46	5.50	6.50	7.50	8.52	9.58	10.62	11.68	13.07	5 / 1			
reaction time	0.130	interval		1.00	1.00	1.04	1.00	1.00	1.02	1.06	1.04	1.06	1.39		3.04	3.02	3.16
wind	0.8 m/s	velocity	5.58	9.14	9.14	8.79	9.14	9.14	8.96	8.62	8.79	8.62	10.09	8.42	9.02	9.08	8.68
<b>FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	18-Aug-19	time	2.54	3.56	4.57	5.58	6.57	7.61	8.59	9.63	10.65	11.74	13.21	5 / 1			
reaction time	0.139	interval		1.02	1.01	1.01	0.99	1.04	0.98	1.04	1.02	1.09	1.47		3.04	3.01	3.15
wind	-0.2 m/s	velocity	5.40	8.96	9.05	9.05	9.23	8.79	9.33	8.79	8.96	8.39	9.54	8.33	9.02	9.11	8.70
<b>FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	21-Jul-19	time	2.39	3.45	4.48	5.53	6.55	7.56	8.58	9.64	10.72	11.77	13.32	4 / 3			
reaction time	0.134	interval		1.06	1.03	1.05	1.02	1.01	1.02	1.06	1.08	1.05	1.55		3.14	3.05	3.19
wind	0.4 m/s	velocity	5.74	8.62	8.87	8.70	8.96	9.05	8.96	8.62	8.46	8.70	9.05	8.26	8.73	8.99	8.60
<b>FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	30-Jun-19	time	2.53	3.60	4.62	5.64	6.66	7.70	8.75	9.80	10.83	11.88	13.29	5 / 3			
reaction time	0.164	interval		1.07	1.02	1.02	1.02	1.04	1.05	1.05	1.03	1.05	1.41		3.11	3.11	3.13
wind	0.3 m/s	velocity	5.42	8.54	8.96	8.96	8.96	8.79	8.70	8.70	8.87	8.70	9.94	8.28	8.82	8.82	8.76
<b>FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	16-Jun-19	time	2.44	3.46	4.48	5.48	6.50	7.52	8.56	9.58	10.62	11.72	13.48	5 / 5			
reaction time	0.145	interval		1.02	1.02	1.00	1.02	1.02	1.04	1.02	1.04	1.10	1.76		3.04	3.08	3.16
wind	0.3 m/s	velocity	5.62	8.96	8.96	9.14	8.96	8.96	8.79	8.96	8.79	8.31	7.97	8.16	9.02	8.90	8.68
<b>FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	21-May-19	time	2.55	3.57	4.58	5.60	6.64	7.66	8.71	9.75	10.79	11.89	13.28	6 / 2			
reaction time	0.152	interval		1.02	1.01	1.02	1.04	1.02	1.05	1.04	1.04	1.10	1.39		3.05	3.11	3.18
wind	0.1 m/s	velocity	5.38	8.96	9.05	8.96	8.79	8.96	8.70	8.79	8.79	8.31	10.09	8.28	8.99	8.82	8.62
<b>FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	18-May-19	time	2.52	3.56	4.58	5.56	6.56	7.58	8.60	9.62	10.68	11.76	13.12	4 / 1			
reaction time	0.149	interval		1.04	1.02	0.98	1.00	1.02	1.02	1.02	1.06	1.08	1.36		3.04	3.04	3.16
wind	0.7 m/s	velocity	5.44	8.79	8.96	9.33	9.14	8.96	8.96	8.96	8.62	8.46	10.31	8.38	9.02	9.02	8.68
<b>FINAL - 2018 Athletissima (Lausanne, SUI) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	05-Jul-18	time	2.57	3.59	4.61	5.60	6.61	7.62	8.63	9.66	10.81	11.95	13.41	5 / 5			
reaction time	0.134	interval		1.02	1.02	0.99	1.01	1.01	1.01	1.03	1.15	1.14	1.46		3.03	3.03	3.32
wind	0.6 m/s	velocity	5.34	8.96	8.96	9.23	9.05	9.05	9.05	8.87	7.95	8.02	9.60	8.20	9.05	9.05	8.26
<b>FINAL - 2018 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			







reaction time	0.141	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.04	1.42		3.04	3.00	3.10
wind	0.2 m/s	velocity	5.53	8.79	9.14	9.14	9.14	9.14	9.14	8.96	8.79	8.79	9.87	8.44	9.02	9.14	8.85
<b>FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: major championships report</i>			
date	12-Aug-13	time	2.50	3.54	4.54	5.54	6.54	7.54	8.58	9.62	10.68	11.78		13.31	8 / 6		
reaction time	0.147	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.04	1.04	1.06	1.10	1.53		3.04	3.04	3.20
wind	0.3 m/s	velocity	5.49	8.79	9.14	9.14	9.14	9.14	8.79	8.79	8.62	8.31	9.16	8.26	9.02	9.02	8.57
<b>FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)</b>														<i>May (2012) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a></i>			
date	07-Sep-12	time	2.52	3.56	4.56	5.53	6.50	7.48	8.46	9.44	10.44	11.46		12.80	6 / 1		
reaction time	0.145	interval	7 steps	1.04	1.00	0.97	0.97	0.98	0.98	0.98	1.00	1.02	1.34	WR	3.01	2.93	3.00
wind	0.3 m/s	velocity	5.44	8.79	9.14	9.42	9.42	9.33	9.33	9.33	9.14	8.96	10.46	8.59	9.11	9.36	9.14
<b>FINAL - 2012 ISTAF (Berlin, GER) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2012 Aries Merritt world record season</i>			
date	02-Sep-12	time	2.43	3.45	4.47	5.47	6.47	7.47	8.47	9.47	10.49	11.51		12.97	4 / 1		
reaction time	0.164	interval	7 steps	1.02	1.02	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.46		3.04	3.00	3.04
wind	1.2 m/s	velocity	5.65	8.96	8.96	9.14	9.14	9.14	9.14	9.14	8.96	8.96	9.60	8.48	9.02	9.14	9.02
<b>FINAL - 2012 AVIVA Grand Prix (Birmingham, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>			
date	26-Aug-12	time	2.44	3.46	4.47	5.48	6.46	7.46	8.46	9.46	10.46	11.50		12.95	3 / 1		
reaction time	0.146	interval	7 steps	1.02	1.01	1.01	0.98	1.00	1.00	1.00	1.00	1.04	1.45		3.04	2.98	3.04
wind	-0.9 m/s	velocity	5.62	8.96	9.05	9.05	9.33	9.14	9.14	9.14	9.14	8.79	9.67	8.49	9.02	9.20	9.02
<b>FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)</b>														<i>Graubner (2012) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a></i>			
date	08-Aug-12	time	2.54	3.55	4.55	5.54	6.53	7.52	8.53	9.53	10.55	11.57		12.92	6 / 1		
reaction time	0.143	interval	7 steps	1.01	1.00	0.99	0.99	0.99	1.01	1.00	1.02	1.02	1.35	PB	3.00	2.99	3.04
wind	-0.3 m/s	velocity	5.40	9.05	9.14	9.23	9.23	9.23	9.05	9.14	8.96	8.96	10.39	8.51	9.14	9.17	9.02
<b>Semi-Final 2 - 2012 Olympic Games (London, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>			
date	08-Aug-12	time	2.48	3.50	4.52	5.50	6.50	7.48	8.46	9.46	10.48	11.50		12.94	7 / 1		
reaction time	0.147	interval	7 steps	1.02	1.02	0.98	1.00	0.98	0.98	1.00	1.02	1.02	1.44		3.02	2.96	3.04
wind	0.1 m/s	velocity	5.53	8.96	8.96	9.33	9.14	9.33	9.33	9.14	8.96	8.96	9.74	8.50	9.08	9.26	9.02
<b>Heat 5 - 2012 Olympic Games (London, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>			
date	07-Aug-12	time	2.46	3.50	4.48	5.50	6.50	7.50	8.50	9.50	10.50	11.58		13.07	7 / 1		
reaction time	0.142	interval	7 steps	1.04	0.98	1.02	1.00	1.00	1.00	1.00	1.00	1.08	1.49		3.04	3.00	3.08
wind	0.7 m/s	velocity	5.58	8.79	9.33	8.96	9.14	9.14	9.14	9.14	9.14	8.46	9.41	8.42	9.02	9.14	8.90
<b>FINAL - 2012 Herculis Meeting International D'Atlétisme (Monaco, MON) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>			
date	20-Jul-12	time	2.38	3.40	4.44	5.42	6.40	7.38	8.38	9.38	10.42	11.46		12.93	5 / 1		
reaction time	0.112	interval	7 steps	1.02	1.04	0.98	0.98	0.98	1.00	1.00	1.04	1.04	1.47	=PB	3.04	2.96	3.08
wind	0.0 m/s	velocity	5.76	8.96	8.79	9.33	9.33	9.33	9.14	9.14	8.79	8.79	9.54	8.51	9.02	9.26	8.90
<b>FINAL - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>			
date	13-Jul-12	time	2.46	3.46	4.48	5.46	6.44	7.42	8.42	9.42	10.46	11.46		12.93	4 / 1		
reaction time	0.137	interval	7 steps	1.00	1.02	0.98	0.98	0.98	1.00	1.00	1.04	1.00	1.47	=PB	3.00	2.96	3.04
wind	0.6 m/s	velocity	5.58	9.14	8.96	9.33	9.33	9.33	9.14	9.14	8.79	9.14	9.54	8.51	9.14	9.26	9.02
<b>Heat 2 - 2012 AVIVA Grand Prix (Birmingham, GBR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2012 Aries Merritt world record season</i>			
date	13-Jul-12	time	2.48	3.52	4.52	5.52	6.52	7.54	8.56	9.58	10.60	11.66		13.14	4 / 1		
reaction time	0.139	interval	7 steps	1.04	1.00	1.00	1.00	1.02	1.02	1.02	1.02	1.06	1.48		3.04	3.04	3.10
wind	-0.9 m/s	velocity	5.53	8.79	9.14	9.14	9.14	8.96	8.96	8.96	8.96	8.62	9.47	8.37	9.02	9.02	8.85
<b>FINAL - 2012 USA Olympic Trials (Eugene, OR)</b>														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>			
date	30-Jun-12	time	2.37	3.40	4.40	5.39	6.37	7.36	8.34	9.34	10.36	11.37		12.93	5 / 1		
reaction time	0.138	interval	7 steps	1.03	1.00	0.99	0.98	0.99	0.98	1.00	1.02	1.01	1.56	PB	3.02	2.95	3.03
wind	1.2 m/s	velocity	5.79	8.87	9.14	9.23	9.33	9.23	9.33	9.14	8.96	9.05	8.99	8.51	9.08	9.29	9.05
<b>FINAL - 2012 Prefontaine Classic (Eugene, OR) (TV Analysis)</b>														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>			
date	02-Jun-12	time	2.52	3.54	4.56	5.58	6.56	7.56	8.56	9.54	10.54	11.58		12.96	3 / 2		
reaction time	0.151	interval	7 steps	1.02	1.02	1.02	0.98	1.00	1.00	0.98	1.00	1.04	1.38		3.06	2.98	3.02
wind	2.4 m/s	velocity	5.44	8.96	8.96	8.96	9.33	9.14	9.14	9.33	9.14	8.79	10.16	8.49	8.96	9.20	9.08
<b>FINAL - 2012 Golden Grand Prix (Shanghai, CHN)</b>														<i>Feng (2016) - Liu Xiang's seven-step starting: discussion on the key issues of 110m hurdles technical training</i>			
date	19-May-12	time	2.34	3.38	4.42	5.46	6.50	7.54	8.58	9.62	10.66	11.70		13.26	6 / 4		
reaction time	0.142	interval	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.56		3.12	3.12	3.12
wind	0.4 m/s	velocity	5.86	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.99	8.30	8.79	8.79	8.79
<b>FINAL - 2012 Colorful Daegu Meeting (Daegu, KOR) (TV Analysis)</b>														<i>Henson (2021) - Athlete First: 2012 Aries Merritt world record season</i>			
date	16-May-12	time	2.53	3.60	4.60	5.60	6.60	7.60	8.64	9.67				13.21	3 / 1		
reaction time	0.165	interval	7 steps	1.07	1.00	1.00	1.00	1.00	1.04	1.03					3.07	3.04	
wind	-0.4 m/s	velocity	5.42	8.54	9.14	9.14	9.14	9.14	8.79	8.87				8.33	8.93	9.02	
<b>FINAL - 2012 Arkansas Twilight (Fayetteville, AR)</b>														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>			
date	04-May-12	time	2.50	3.53	4.55	5.57	6.57	7.54	8.54	9.54	10.54			13.03	5 / 1		







<b>Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														CAA Hurdle Development (2020)				
date	15-Feb-20	time	2.63	3.72	4.79	5.84	6.89							7.83	6 / 4			
reaction time	0.161	interval		1.09	1.07	1.05	1.05							0.94		3.21		
		velocity	5.22	8.39	8.54	8.70	8.70							10.34	7.66	8.54		
<b>Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														CAA Hurdle Development (2020)				
date	14-Feb-20	time	2.64	3.74	4.79	5.82	6.89							7.82	1 / 3			
reaction time	0.154	interval		1.10	1.05	1.03	1.07							0.93		3.18		
		velocity	5.20	8.31	8.70	8.87	8.54							10.45	7.67	8.62		
<b>FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)</b>														Henson (2020) - Athlete First: 2019 year end hurdle report				
date	18-Aug-19	time	2.64	3.73	4.80	5.87	6.91	7.93	9.00	10.09	11.16	12.26		13.81	2 / 8			
reaction time	0.144	interval		1.09	1.07	1.07	1.04	1.02	1.07	1.09	1.07	1.10	1.55			3.23	3.13	3.26
wind	-0.2 m/s	velocity	5.20	8.39	8.54	8.54	8.79	8.96	8.54	8.39	8.54	8.31	9.05	7.97		8.49	8.76	8.41
<b>FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)</b>														Henson (2020) - Athlete First: 2019 year end hurdle report				
date	07-Jun-19	time	2.60	3.67	4.70	5.70	6.74	7.77	8.81	9.84	10.87	11.94		13.37	3 / 3			
reaction time	0.176	interval		1.07	1.03	1.00	1.04	1.03	1.04	1.03	1.03	1.07	1.43	PB		3.10	3.11	3.13
wind	0.8 m/s	velocity	5.28	8.54	8.87	9.14	8.79	8.87	8.79	8.87	8.87	8.54	9.80	8.23		8.85	8.82	8.76
<b>FINAL - 2019 South Eastern Conference Championships (Fayetteville, AR) (TV Analysis)</b>														Henson (2020) - Athlete First: 2019 year end hurdle report				
date	11-May-19	time	2.66	3.75	4.80	5.84	6.86	7.86	8.90	9.93	10.96	12.03		13.42	6 / 3			
reaction time		interval		1.09	1.05	1.04	1.02	1.00	1.04	1.03	1.03	1.07	1.39			3.18	3.06	3.13
wind	1.0 m/s	velocity	5.16	8.39	8.70	8.79	8.96	9.14	8.79	8.87	8.87	8.54	10.09	8.20		8.62	8.96	8.76
<b>Moore, Titus (USA) (1999)</b>																		
<b>Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														CAA Hurdle Development (2020)				
date	15-Feb-20	time	2.66	3.77	4.84	5.90	6.97							7.87	7 / 5			
reaction time	0.179	interval		1.11	1.07	1.06	1.07							0.90		3.24		
		velocity	5.16	8.23	8.54	8.62	8.54							10.80	7.62	8.46		
<b>Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)</b>														CAA Hurdle Development (2020)				
date	14-Feb-20	time	2.64	3.73	4.79	5.85	6.92							7.84	6 / 4			
reaction time	0.159	interval		1.09	1.06	1.06	1.07							0.92	PB	3.21		
		velocity	5.20	8.39	8.62	8.62	8.54							10.57	7.65	8.54		
<b>Moracho, Javier (ESP) (1957)</b>																		
<b>FINAL - 1989 IAAF World Cup (Barcelona, ESP)</b>														Gill (1990) - atletismo (I) carreras y marcha				
date	10-Sep-89	time	2.60	3.67	4.73	5.78	6.86	7.92	9.02	10.12	11.23	12.39		13.83	6 / 5			
reaction time		interval	7 steps	1.07	1.06	1.05	1.08	1.06	1.10	1.10	1.11	1.16	1.44			3.18	3.24	3.37
wind	2.6 m/s	velocity	5.28	8.54	8.62	8.70	8.46	8.62	8.31	8.31	8.23	7.88	9.74	7.95		8.62	8.46	8.14
<b>Morimoto, Kimihito (JPN) (1993)</b>																		
<b>Decathlon - Heat 2 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)</b>														Matsubayashi (2018) - research on athlete performance and technique				
date	17-Jun-18	time	2.70	3.89	5.07	6.23	7.39	8.55	9.76	10.95	12.13	13.35		14.91	5 / 1			
reaction time		interval		1.19	1.18	1.16	1.16	1.16	1.21	1.19	1.18	1.22	1.56			3.53	3.53	3.59
wind	0.5 m/s	velocity	5.08	7.68	7.75	7.88	7.88	7.88	7.55	7.68	7.75	7.49	8.99	7.38		7.77	7.77	7.64
<b>Morita, Kanon (JPN) (2000)</b>																		
<b>U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm)</b>														Joshi (2018) - research on athlete performance and technique- 2018 data book				
date	07-Oct-18	time	2.59	3.67	4.72	5.79	6.83	7.90	8.97	10.04	11.11	12.20		13.60	6 / 3			
reaction time	0.126	interval		1.08	1.05	1.07	1.04	1.07	1.07	1.07	1.07	1.09	1.40			3.20	3.18	3.23
wind	1.5 m/s	velocity	5.30	8.46	8.70	8.54	8.79	8.54	8.54	8.54	8.54	8.39	10.01	8.09		8.57	8.62	8.49
<b>Heat 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)</b>														(2016.11.07) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>				
date	21-Oct-16	time	2.66	3.80	4.92	6.04	7.15	8.28	9.42	10.54	11.70	12.86		14.39	7 / 2			
reaction time		interval		1.14	1.12	1.12	1.11	1.13	1.14	1.12	1.16	1.16	1.53			3.38	3.38	3.44
wind	1.4 m/s	velocity	5.16	8.02	8.16	8.16	8.23	8.09	8.02	8.16	7.88	7.88	9.16	7.64		8.11	8.11	7.97
<b>Morita, Shunichi (JPN) (1989)</b>																		
<b>FINAL - 2017 Fuse Sprint (Tottori, JPN)</b>														(2017) - <a href="https://tfd-data-store.com/2017/06/04/post-848/">tfd-data-store.com/2017/06/04/post-848/</a>				
date	04-Jun-17	time	2.76	3.83	4.95	6.05	7.14	8.24	9.37	10.50	11.63	12.78		14.24	2 / 7			
reaction time		interval		1.07	1.12	1.10	1.09	1.10	1.13	1.13	1.13	1.15	1.46			3.29	3.32	3.41
wind	3.2 m/s	velocity	4.97	8.54	8.16	8.31	8.39	8.31	8.09	8.09	8.09	7.95	9.60	7.72		8.33	8.26	8.04
<b>FINAL - 2017 East Japan Business Athletics Championships (Yuma, JPN)</b>														(2017) - <a href="https://tfd-data-store.com/2017/05/20/post-579/">tfd-data-store.com/2017/05/20/post-579/</a>				
date	20-May-17	time	2.77	3.90	5.01	6.11	7.23	8.35	9.48	10.63	11.80	12.98		14.62	9 / 8			
reaction time		interval		1.13	1.11	1.10	1.12	1.12	1.13	1.15	1.17	1.18	1.64			3.34	3.37	3.50
wind	1.1 m/s	velocity	4.95	8.09	8.23	8.31	8.16	8.16	8.09	7.95	7.81	7.75	8.55	7.52		8.21	8.14	7.83
<b>Heat 2 - 2017 Mito Invitational (Mito, JPN)</b>														(2017) - <a href="https://tfd-data-store.com/2017/05/06/post-423/">tfd-data-store.com/2017/05/06/post-423/</a>				
date	05-May-17	time	2.75	3.89	5.02	6.15	7.28	8.40	9.53	10.69	11.86	13.04		14.58	3 / 5			
reaction time		interval		1.14	1.13	1.13	1.13	1.12	1.13	1.16	1.17	1.18	1.54			3.40	3.38	3.51
wind	0.6 m/s	velocity	4.99	8.02	8.09	8.09	8.09	8.16	8.09	7.88	7.81	7.75	9.10	7.54		8.06	8.11	7.81



date	02-Sep-23	time	2.37	3.42	4.43	5.44	6.46	7.47	8.51	9.54	10.59	11.65		13.19	2 / 5				
reaction time	0.153	interval	7 steps	1.05	1.01	1.01	1.02	1.01	1.04	1.03	1.05	1.06	1.54			3.07	3.07	3.14	
wind	0.0 m/s	velocity	5.79	8.70	9.05	9.05	8.96	9.05	8.79	8.87	8.70	8.62	9.10	8.34		8.93	8.93	8.73	
<b>Heat 4 - 2022 World Athletics Championships (Eugene, OR)</b>															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>				
date	16-Jul-22	time	2.67	3.78	4.83	5.86	6.92	7.98	9.03	10.09	11.16	12.30		13.73	8 / 6				
reaction time	0.182	interval	7 steps	1.11	1.05	1.03	1.06	1.06	1.05	1.06	1.07	1.14	1.43			3.19	3.17	3.27	
wind	0.2 m/s	velocity	5.14	8.23	8.70	8.87	8.62	8.62	8.70	8.62	8.54	8.02	9.80	8.01		8.60	8.65	8.39	
<b>FINAL - 2022 Japanese National Championships (Osaka, JPN)</b>															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>				
date	12-Jun-22	time	2.62	3.65	4.67	5.68	6.70	7.72	8.73	9.78	10.83	11.89		13.31	7 / 2				
reaction time	0.174	interval	7 steps	1.03	1.02	1.01	1.02	1.02	1.01	1.05	1.05	1.06	1.42			3.06	3.05	3.16	
wind	-1.2 m/s	velocity	5.24	8.87	8.96	9.05	8.96	8.96	9.05	8.70	8.70	8.62	9.87	8.26		8.96	8.99	8.68	
<b>FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)</b>															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>				
date	08-May-22	time	2.60	3.66	4.69	5.71	6.73	7.75	8.80	9.84	10.89	11.95		13.34	5 / 1				
reaction time	0.159	interval	7 steps	1.06	1.03	1.02	1.02	1.02	1.05	1.04	1.05	1.06	1.39			3.11	3.09	3.15	
wind	0.1 m/s	velocity	5.28	8.62	8.87	8.96	8.96	8.96	8.70	8.79	8.70	8.62	10.09	8.25		8.82	8.87	8.70	
<b>FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)</b>															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>				
date	29-Apr-22	time	2.66	3.73	4.78	5.80	6.84	7.88	8.92	9.97	11.03	12.12		13.55	6 / 1				
reaction time	0.159	interval	7 steps	1.07	1.05	1.02	1.04	1.04	1.04	1.05	1.06	1.09	1.43			3.14	3.12	3.20	
wind	-1.5 m/s	velocity	5.16	8.54	8.70	8.96	8.79	8.79	8.79	8.70	8.62	8.39	9.80	8.12		8.73	8.79	8.57	
<b>FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)</b>															<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>				
date	01-Jun-21	time	2.60	3.65	4.68	5.70	6.72	7.76	8.81	9.86	10.91	11.99		13.35	7 / 1				
reaction time	0.150	interval	7 steps	1.05	1.03	1.02	1.02	1.04	1.05	1.05	1.05	1.08	1.36	<b>NJR PB</b>		3.10	3.11	3.18	
wind	0.3 m/s	velocity	5.28	8.70	8.87	8.96	8.96	8.79	8.70	8.70	8.70	8.46	10.31	8.24		8.85	8.82	8.62	
<b>FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)</b>															<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>				
date	09-May-21	time	2.56	3.63	4.66	5.72	6.77	7.81	8.85	9.93	11.01	12.11		13.51	9 / 4				
reaction time	0.119	interval	7 steps	1.07	1.03	1.06	1.05	1.04	1.04	1.08	1.08	1.10	1.40	<b>PB</b>		3.16	3.13	3.26	
wind	-0.8 m/s	velocity	5.36	8.54	8.87	8.62	8.70	8.79	8.79	8.46	8.46	8.31	10.01	8.14		8.68	8.76	8.41	
<b>FINAL - 2021 Mikio Oda Memorial (Hiroshima, JPN)</b>															<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>				
date	29-Apr-21	time	2.63	3.68	4.72	5.75	6.79	7.84	8.91	9.98	11.04	12.11		13.53	6 / 4				
reaction time		interval	7 steps	1.05	1.04	1.03	1.04	1.05	1.07	1.07	1.06	1.07	1.42	<b>PB</b>		3.12	3.16	3.20	
wind	1.7 m/s	velocity	5.22	8.70	8.79	8.87	8.79	8.70	8.54	8.54	8.62	8.54	9.87	8.13		8.79	8.68	8.57	
<b>Heat 2 - 2020 Japanese National Championships (Niigata, JPN)</b>															<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>				
date	02-Oct-20	time	2.63	3.69	4.74	5.80	6.85	7.90	8.98	10.05	11.12	12.20		13.61	5 / 4				
reaction time	0.168	interval		1.06	1.05	1.06	1.05	1.05	1.08	1.07	1.07	1.08	1.41	<b>PB</b>		3.17	3.18	3.22	
wind	0.4 m/s	velocity	5.22	8.62	8.70	8.62	8.70	8.70	8.46	8.54	8.54	8.46	9.94	8.08		8.65	8.62	8.52	
<b>FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)</b>															<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>				
date	23-Aug-20	time	2.58	3.67	4.72	5.79	6.84	7.90	8.96	10.04	11.13	12.22		13.65	2 / 2				
reaction time	0.138	interval		1.09	1.05	1.07	1.05	1.06	1.06	1.08	1.09	1.09	1.43	<b>PB</b>		3.21	3.17	3.26	
wind	-0.4 m/s	velocity	5.32	8.39	8.70	8.54	8.70	8.62	8.62	8.46	8.39	8.39	9.80	8.06		8.54	8.65	8.41	
<b>U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (99cm)</b>															<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>				
date	18-Oct-19	time	2.60	3.64	4.70	5.74	6.78	7.83	8.87	9.94	11.01	12.08		13.54	5 / 1				
reaction time	0.144	interval		1.04	1.06	1.04	1.04	1.05	1.04	1.07	1.07	1.07	1.46			3.14	3.13	3.21	
wind	-0.6 m/s	velocity	5.28	8.79	8.62	8.79	8.79	8.70	8.79	8.54	8.54	8.54	9.60	8.12		8.73	8.76	8.54	
<b>FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (99cm)</b>															<i>Enomoto (2019) - research on athlete performance and technique- 2019 data book</i>				
date	06-Oct-19	time	2.60	3.66	4.69	5.73	6.75	7.79	8.83	9.88	10.92	11.97		13.37	4 / 1				
reaction time	0.160	interval		1.06	1.03	1.04	1.02	1.04	1.04	1.05	1.04	1.05	1.40			3.13	3.10	3.14	
wind	2.7 m/s	velocity	5.28	8.62	8.87	8.79	8.96	8.79	8.79	8.70	8.79	8.70	10.01	8.23		8.76	8.85	8.73	
<b>FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (99cm)</b>															<i>Kota (2019) - 72nd high school champs: JAF scientific committee - biomechanics data</i>				
date	08-Aug-19	time	2.64	3.73	4.83	5.92	7.02	8.13	9.25	10.37	11.49	12.63		14.04	6 / 1				
reaction time		interval		1.09	1.10	1.09	1.10	1.11	1.12	1.12	1.12	1.14	1.41	<b>PB</b>		3.28	3.33	3.38	
wind	-3.0 m/s	velocity	5.20	8.39	8.31	8.39	8.31	8.23	8.16	8.16	8.16	8.02	9.94	7.83		8.36	8.23	8.11	
<b>FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99cm)</b>															<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>				
date	06-Aug-18	time	2.66	3.75	4.89	5.99	7.11	8.24	9.43	10.60	11.77	12.98		14.43	4 / 8				
reaction time		interval		1.09	1.14	1.10	1.12	1.13	1.19	1.17	1.17	1.21	1.45			3.33	3.44	3.55	
wind	1.6 m/s	velocity	5.16	8.39	8.02	8.31	8.16	8.09	7.68	7.81	7.81	7.55	9.67	7.62		8.23	7.97	7.72	
<b>Murray, Cameron (USA) (1999)</b>																			
<b>FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)</b>																			
date	09-Jun-23	time	2.67																
reaction time		interval	7 steps																
wind	1.8 m/s	velocity	5.14																















































































































































































wind -0.4 m/s velocity 5.24 8.87 9.05 9.14 9.14 9.33 9.14 8.79 8.87 8.70 9.60 8.32 9.02 9.20 8.79

**Wilt, Caleb (USA) (1997)**

**Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)** *CAA Hurdle Development (2020)*  
 date 15-Feb-20 time 2.58 3.67 4.75 5.82 6.89 7.85 7/6  
 reaction time 0.112 interval **7 Steps** 1.09 1.08 1.07 1.07 0.96 3.24  
 velocity 5.32 8.39 8.46 8.54 8.54 10.13 7.64 8.46

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

*CAA Hurdle Development (2020)*  
 date 14-Feb-20 time 2.59 3.65 4.74 5.80 6.87 7.82 2/3  
 reaction time 0.144 interval **7 Steps** 1.06 1.09 1.06 1.07 0.95 =PB 3.21  
 velocity 5.30 8.62 8.39 8.62 8.54 10.23 7.67 8.54

**Wright, Don (AUS) (1959)**

**Semi-Final 2 - 1983 IAAF World Championships (Helsinki, FIN)** *Knocke (1984) - the hurdles*  
 date 12-Aug-83 time 2.66 3.82 4.96 5.98 7.04 8.42 9.57 10.58 11.72 12.88 14.28 3/7  
 reaction time interval 1.16 1.14 1.02 1.06 1.38 1.15 1.01 1.14 1.16 1.40 3.32 3.59 3.31  
 wind -0.7 m/s velocity 5.16 7.88 8.02 8.96 8.62 6.62 7.95 9.05 8.02 7.88 10.01 7.70 8.26 7.64 8.28

**Heat 4 - 1983 IAAF World Championships (Helsinki, FIN)**

*Knocke (1984) - the hurdles*  
 date 11-Aug-83 time 2.55 3.68 4.77 5.75 6.81 7.82 9.00 10.04 11.10 12.19 13.70 /2  
 reaction time interval 1.13 1.09 0.98 1.06 1.01 1.18 1.04 1.06 1.09 1.51 3.20 3.25 3.19  
 wind 2.1 m/s velocity 5.38 8.09 8.39 9.33 8.62 9.05 7.75 8.79 8.62 8.39 9.28 8.03 8.57 8.44 8.60

**Wu Zhenhua (CHN) (1998)**

**FINAL - 2021 Chinese National Championships (Chongqing, CHN)** *CAA Hurdle Development (2021)*  
 date 25-Jun-21 time 2.65 3.75 4.82 5.90 6.99 8.07 9.16 10.26 11.38 12.53 13.98 2/7  
 reaction time 0.164 interval 1.10 1.07 1.08 1.09 1.08 1.09 1.10 1.12 1.15 1.45 PB 3.25 3.26 3.37  
 wind 1.6 m/s velocity 5.18 8.31 8.54 8.46 8.39 8.46 8.39 8.31 8.16 7.95 9.67 7.87 8.44 8.41 8.14

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

*CAA Hurdle Development (2021)*  
 date 25-Jun-21 time 2.69 3.77 4.87 5.94 7.02 8.11 9.19 10.29 11.38 12.51 14.01 3/4  
 reaction time 0.201 interval 1.08 1.10 1.07 1.08 1.09 1.08 1.10 1.09 1.13 1.50 PB 3.25 3.25 3.32  
 wind 0.5 m/s velocity 5.10 8.46 8.31 8.54 8.46 8.39 8.46 8.31 8.39 8.09 9.35 7.85 8.44 8.44 8.26

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

*CAA Hurdle Development (2021)*  
 date 24-Apr-21 time 2.70 3.79 4.90 5.98 7.06 8.16 9.26 10.35 11.46 12.59 14.04 9/4  
 reaction time 0.174 interval 1.09 1.11 1.08 1.08 1.10 1.10 1.09 1.11 1.13 1.45 PB 3.28 3.28 3.33  
 wind -0.3 m/s velocity 5.08 8.39 8.23 8.46 8.46 8.31 8.31 8.39 8.23 8.09 9.67 7.83 8.36 8.36 8.23

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

*CAA Hurdle Development (2021)*  
 date 24-Apr-21 time 2.68 3.80 4.88 5.98 7.08 8.20 9.32 10.44 11.59 12.72 14.21 9/3  
 reaction time 0.156 interval 1.12 1.08 1.10 1.10 1.12 1.12 1.12 1.15 1.13 1.49 3.30 3.34 3.40  
 wind -1.1 m/s velocity 5.12 8.16 8.46 8.31 8.31 8.16 8.16 8.16 7.95 8.09 9.41 7.74 8.31 8.21 8.06

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

*CAA Hurdle Development (2020)*  
 date 16-Sep-20 time 2.73 3.89 5.03 6.14 7.27 8.39 9.59 10.79 11.97 13.18 14.73 5/8  
 reaction time 0.150 interval 1.16 1.14 1.11 1.13 1.12 1.20 1.20 1.18 1.21 1.55 3.41 3.45 3.59  
 wind -0.5 m/s velocity 5.03 7.88 8.02 8.23 8.09 8.16 7.62 7.75 7.55 9.05 7.47 8.04 7.95 7.64

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

*CAA Hurdle Development (2019)*  
 date 24-Aug-19 time 2.74 3.87 5.00 6.12 7.23 8.36 9.50 10.73 11.92 13.16 14.83 9/8  
 reaction time 0.184 interval 1.13 1.13 1.12 1.11 1.13 1.14 1.23 1.19 1.24 1.67 3.38 3.38 3.66  
 wind -0.1 m/s velocity 5.01 8.09 8.09 8.16 8.23 8.09 8.02 7.43 7.68 7.37 8.40 7.42 8.11 8.11 7.49

**Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)**

*CAA Hurdle Development (2019)*  
 date 23-Aug-19 time 2.74 3.84 4.95 6.06 7.20 8.31 9.44 10.59 11.73 12.88 14.41 9/4  
 reaction time 0.175 interval 1.10 1.11 1.11 1.14 1.11 1.13 1.15 1.14 1.15 1.53 3.32 3.38 3.44  
 wind -0.2 m/s velocity 5.01 8.31 8.23 8.23 8.02 8.23 8.09 7.95 8.02 7.95 9.16 7.63 8.26 8.11 7.97

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

*CAA Hurdle Development (2019)*  
 date 02-Aug-19 time 2.70 3.82 4.93 6.02 7.12 8.21 9.32 10.43 11.58 12.75 14.25 7/7  
 reaction time 0.151 interval 1.12 1.11 1.09 1.10 1.09 1.11 1.11 1.15 1.17 1.50 3.32 3.30 3.43  
 wind 0.0 m/s velocity 5.08 8.16 8.23 8.39 8.31 8.39 8.23 8.23 7.95 7.81 9.35 7.72 8.26 8.31 7.99

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

*CAA Hurdle Development (2019)*  
 date 02-Aug-19 time 2.74 3.87 4.98 6.10 7.21 8.34 9.48 10.61 11.74 12.91 14.43 8/3  
 reaction time 0.174 interval 1.13 1.11 1.12 1.11 1.13 1.14 1.13 1.13 1.17 1.52 3.36 3.38 3.43  
 wind -0.2 m/s velocity 5.01 8.09 8.23 8.16 8.23 8.09 8.02 8.09 8.09 7.81 9.22 7.62 8.16 8.11 7.99

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

*CAA Hurdle Development (2019)*  
 date 08-Jul-19 time 2.70 3.81 4.94 6.04 7.20 8.34 9.51 10.68 11.86 13.05 14.69 7/6  
 reaction time 0.157 interval 1.11 1.13 1.10 1.16 1.14 1.17 1.17 1.18 1.19 1.64 3.34 3.47 3.54  
 wind 0.4 m/s velocity 5.08 8.23 8.09 8.31 7.88 8.02 7.81 7.81 7.75 7.68 8.55 7.49 8.21 7.90 7.75















date 28-Feb-19 time 2.67 3.81 4.91 6.01 7.15 8.10 2 / 4  
 reaction time interval 1.14 1.10 1.10 1.14 0.95 3.34  
 velocity 5.14 8.02 8.31 8.31 8.02 10.23 7.41 8.21

**FINAL - 2018 Chinese National U20 Championships (Nanchang, CHN) (99.1cm) Zhang (2019) - comparative analysis characteristics Chinese elite 110m hurdles in different age**

date 13-May-18 time 2.70 3.82 4.90 5.98 7.06 8.15 9.22 10.32 11.44 12.57 14.13 / 6  
 reaction time interval 1.12 1.08 1.08 1.08 1.09 1.07 1.10 1.12 1.13 1.56 3.28 3.24 3.35  
 wind 1.0 m/s velocity 5.08 8.16 8.46 8.46 8.46 8.39 8.54 8.31 8.16 8.09 8.99 7.78 8.36 8.46 8.19

**Yang Wei-Ting (TPE) (1994)**

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

**FINAL - 2018 Asian Games (Jakarta, INA) Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season**

date 28-Aug-18 time 2.62 3.68 4.72 5.76 6.82 7.87 8.95 10.05 11.13 12.29 13.75 8 / 8  
 reaction time 0.136 interval 1.06 1.04 1.04 1.06 1.05 1.08 1.10 1.08 1.16 1.46 3.14 3.19 3.34  
 wind 0.0 m/s velocity 5.24 8.62 8.79 8.79 8.62 8.70 8.46 8.31 8.46 7.88 9.60 8.00 8.73 8.60 8.21

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

date 21-May-17 time 2.67 3.75 4.83 5.89 6.94 7.99 9.06 10.13 11.20 12.31 13.79 8 / 8  
 reaction time 0.145 interval 1.08 1.08 1.06 1.05 1.05 1.07 1.07 1.07 1.11 1.48 3.22 3.17 3.25  
 wind -1.8 m/s velocity 5.14 8.46 8.46 8.62 8.70 8.70 8.54 8.54 8.54 8.23 9.47 7.98 8.52 8.65 8.44

**Yang Yuxuan (CHN) (2002)**

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

**Heat 1 - 2021 Chinese National Championships (Chongqing, CHN) CAA Hurdle Development (2021)**

date 25-Jun-21 time 2.72 3.83 4.94 6.05 7.14 8.24 9.36 10.49 11.64 12.80 14.29 3 / 4  
 reaction time 0.146 interval 1.11 1.11 1.11 1.09 1.10 1.12 1.13 1.15 1.16 1.49 3.33 3.31 3.44  
 wind -1.0 m/s velocity 5.04 8.23 8.23 8.23 8.39 8.31 8.16 8.09 7.95 7.88 9.41 7.70 8.23 8.28 7.97

**Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN) CAA Hurdle Development (2020)**

date 16-Sep-20 time 2.72 3.88 4.98 6.10 7.20 8.32 9.45 10.59 11.75 12.91 14.43 4 / 9  
 reaction time 0.138 interval 1.16 1.10 1.12 1.10 1.12 1.13 1.14 1.16 1.16 1.52 3.38 3.35 3.46  
 wind 0.3 m/s velocity 5.04 7.88 8.31 8.16 8.31 8.16 8.09 8.02 7.88 7.88 9.22 7.62 8.11 8.19 7.92

**Heat 2 - 2019 Chinese National Championships (Shenyang, CHN) CAA Hurdle Development (2019)**

date 08-Jul-19 time 2.70 3.82 4.90 6.00 7.11 8.22 9.34 10.46 11.59 12.74 14.23 8 / 5  
 reaction time 0.158 interval 1.12 1.08 1.10 1.11 1.11 1.12 1.12 1.13 1.15 1.49 **PB** 3.30 3.34 3.40  
 wind 0.4 m/s velocity 5.08 8.16 8.46 8.31 8.23 8.23 8.16 8.16 8.09 7.95 9.41 7.73 8.31 8.21 8.06

**FINAL - 2019 Chinese National Grand Prix 3 (Jinhai, CHN) CAA Hurdle Development (2019)**

date 23-May-19 time 2.70 3.82 4.90 5.98 7.06 8.12 9.22 10.30 11.38 12.50 13.94 8 / 5  
 reaction time 0.166 interval 1.12 1.08 1.08 1.08 1.06 1.10 1.08 1.08 1.12 1.44 3.28 3.24 3.28  
 wind 2.5 m/s velocity 5.08 8.16 8.46 8.46 8.46 8.62 8.31 8.46 8.46 8.16 9.74 7.89 8.36 8.46 8.36

**FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN) CAA Hurdle Development (2019)**

date 09-Apr-19 time 2.76 3.88 4.98 6.08 7.18 8.26 9.38 10.52 11.66 12.82 14.36 3 / 6  
 reaction time 0.180 interval 1.12 1.10 1.10 1.10 1.08 1.12 1.14 1.14 1.16 1.54 3.32 3.30 3.44  
 wind 0.2 m/s velocity 4.97 8.16 8.31 8.31 8.31 8.46 8.16 8.02 8.02 7.88 9.10 7.66 8.26 8.31 7.97

**Heat 3 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN) CAA Hurdle Development (2019)**

date 08-Apr-19 time 2.76 3.88 4.99 6.13 7.25 8.36 9.46 10.58 11.70 12.83 14.34 8 / 2  
 reaction time 0.165 interval 1.12 1.11 1.14 1.12 1.11 1.10 1.12 1.12 1.13 1.51 **PB** 3.37 3.33 3.37  
 wind 0.0 m/s velocity 4.97 8.16 8.23 8.02 8.16 8.23 8.31 8.16 8.16 8.09 9.28 7.67 8.14 8.23 8.14

**B-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN) CAA Hurdle Development (2019)**

date 24-Feb-19 time 2.73 3.85 4.99 6.09 7.20 8.12 5 / 2  
 reaction time interval 1.12 1.14 1.10 1.11 0.92 **PB** 3.36  
 velocity 5.03 8.16 8.02 8.31 8.23 10.57 7.39 8.16

**B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN) CAA Hurdle Development (2019)**

date 20-Feb-19 time 2.75 3.85 4.95 6.02 7.12 8.19 2 / 4  
 reaction time interval 1.10 1.10 1.07 1.10 1.07 3.27  
 velocity 4.99 8.31 8.31 8.54 8.31 9.08 7.33 8.39

**Yang Zihao (CHN) (1998)**

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

**Decathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN) CAA Hurdle Development (2021)**

date 27-Jun-21 time 2.72 3.89 5.04 6.17 7.32 8.44 9.56 10.73 11.91 13.08 14.63 8 / 2  
 reaction time 0.172 interval 1.17 1.15 1.13 1.15 1.12 1.12 1.17 1.18 1.17 1.55 3.45 3.39 3.52  
 wind 0.5 m/s velocity 5.04 7.81 7.95 8.09 7.95 8.16 8.16 7.81 7.75 7.81 9.05 7.52 7.95 8.09 7.79

**Decathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN) CAA Hurdle Development (2019)**

date 23-Aug-19 time 2.82 4.00 5.16 6.32 7.49 8.69 9.89 11.13 12.33 13.61 15.25 7 / 2  
 reaction time 0.187 interval 1.18 1.16 1.16 1.17 1.20 1.20 1.24 1.20 1.28 1.64 3.50 3.57 3.72  
 wind ?? m/s velocity 4.87 7.75 7.88 7.88 7.81 7.62 7.62 7.37 7.62 7.14 8.55 7.21 7.83 7.68 7.37

**Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN) CAA Hurdle Development (2019)**

date 11-Jul-19 time 2.75 3.90 5.05 6.19 7.32 8.49 9.69 10.84 12.04 13.21 14.78 5 / 2  
 reaction time 0.171 interval 1.15 1.15 1.14 1.13 1.17 1.20 1.15 1.20 1.17 1.57 **PB** 3.44 3.50 3.52



<b>Semi-Final 1 - 2017 Japanese National Championships (Osaka, JPN)</b>													(2017) - <a href="https://tfd-data-store.com/2017/07/13/post-1040/">tfd-data-store.com/2017/07/13/post-1040/</a>				
date	24-Jun-17	time	2.61	3.68	4.73	5.78	6.82	7.88	8.95	10.03	11.12	12.23	13.66	6 / 3			
reaction time	0.146	interval	<a href="#">7 steps</a>	1.07	1.05	1.05	1.04	1.06	1.07	1.08	1.09	1.11	1.43	3.17	3.17	3.28	
wind	0.6 m/s	velocity	5.26	8.54	8.70	8.70	8.79	8.62	8.54	8.46	8.39	8.23	9.80	8.05	8.65	8.36	
<b>Heat 4 - 2017 Japanese National Championships (Osaka, JPN)</b>													(2017) - <a href="https://tfd-data-store.com/2017/07/13/post-1040/">tfd-data-store.com/2017/07/13/post-1040/</a>				
date	24-Jun-17	time	2.61	3.69	4.76	5.80	6.85	7.90	8.96	10.03	11.12	12.23	13.65	8 / 3			
reaction time	0.143	interval	<a href="#">7 steps</a>	1.08	1.07	1.04	1.05	1.05	1.06	1.07	1.09	1.11	1.42	3.19	3.16	3.27	
wind	0.0 m/s	velocity	5.26	8.46	8.54	8.79	8.70	8.70	8.62	8.54	8.39	8.23	9.87	8.06	8.60	8.39	
<b>Heat 5 - 2017 Fuse Sprint (Tottori, JPN)</b>													(2017) - <a href="https://tfd-data-store.com/2017/06/04/post-848/">tfd-data-store.com/2017/06/04/post-848/</a>				
date	04-Jun-17	time	2.60	3.68	4.74	5.78	6.82	7.87	8.93	9.99	11.07	12.16	13.60	6 / 2			
reaction time		interval	<a href="#">7 steps</a>	1.08	1.06	1.04	1.04	1.05	1.06	1.06	1.08	1.09	1.44	3.18	3.15	3.23	
wind	1.5 m/s	velocity	5.28	8.46	8.62	8.79	8.79	8.70	8.62	8.62	8.46	8.39	9.74	8.09	8.62	8.49	
<b>FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)</b>													(2017) - <a href="https://tfd-data-store.com/2017/05/22/post-599/">tfd-data-store.com/2017/05/22/post-599/</a>				
date	21-May-17	time	2.64	3.72	4.78	5.84	6.89	7.95	9.02	10.07	11.15	12.24	13.69	6 / 4			
reaction time	0.151	interval	<a href="#">7 steps</a>	1.08	1.06	1.06	1.05	1.06	1.07	1.05	1.08	1.09	1.45	3.20	3.18	3.22	
wind	-1.8 m/s	velocity	5.20	8.46	8.62	8.62	8.70	8.62	8.54	8.70	8.46	8.39	9.67	8.04	8.57	8.52	
<b>Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)</b>													(2017) - <a href="https://tfd-data-store.com/2017/05/08/post-413/">tfd-data-store.com/2017/05/08/post-413/</a>				
date	07-May-17	time	2.62	3.70	4.77	5.83	6.89	7.97	9.04	10.11	11.21	12.33	13.77	6 / 3			
reaction time		interval	<a href="#">7 steps</a>	1.08	1.07	1.06	1.06	1.08	1.07	1.07	1.10	1.12	1.44	3.21	3.21	3.29	
wind	-1.5 m/s	velocity	5.24	8.46	8.54	8.62	8.62	8.46	8.54	8.54	8.31	8.16	9.74	7.99	8.54	8.33	
<b>FINAL - 2017 Michitaka Memorial (Osaka, JPN)</b>													(2017) - <a href="https://tfd-data-store.com/2017/05/08/post-413/">tfd-data-store.com/2017/05/08/post-413/</a>				
date	07-May-17	time	2.64	3.72	4.79	5.85	6.91	7.98	9.04	10.11	11.20	12.30	13.71	5 / 4			
reaction time		interval	<a href="#">7 steps</a>	1.08	1.07	1.06	1.06	1.07	1.06	1.07	1.09	1.10	1.41	3.21	3.19	3.26	
wind	-0.8 m/s	velocity	5.20	8.46	8.54	8.62	8.62	8.54	8.62	8.54	8.39	8.31	9.94	8.02	8.54	8.41	
<b>FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)</b>													(2017) - <a href="https://tfd-data-store.com/2017/05/01/458/">tfd-data-store.com/2017/05/01/458/</a>				
date	29-Apr-17	time	2.66	3.75	4.82	5.88	6.93	8.01	9.07	10.13	11.21	12.30	13.74	3 / 5			
reaction time		interval	<a href="#">7 steps</a>	1.09	1.07	1.06	1.05	1.08	1.06	1.06	1.08	1.09	1.44	3.22	3.19	3.23	
wind	1.5 m/s	velocity	5.16	8.39	8.54	8.62	8.70	8.46	8.62	8.62	8.46	8.39	9.74	8.01	8.52	8.49	
<b>FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>													(2016.10.11) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>				
date	10-Oct-16	time	2.64	3.72	4.78	5.82	6.87	7.92	8.97	10.03	11.10	12.18	13.62	4 / 1			
reaction time	0.146	interval	<a href="#">7 steps</a>	1.08	1.06	1.04	1.05	1.05	1.05	1.06	1.07	1.08	1.44	3.18	3.15	3.21	
wind	0.3 m/s	velocity	5.20	8.46	8.62	8.79	8.70	8.70	8.70	8.62	8.54	8.46	9.74	8.08	8.62	8.54	
<b>FINAL - 2016 Japanese National Corporate Championships (Osaka, JPN)</b>													(2016.09.28) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>				
date	25-Sep-16	time	2.63	3.71	4.78	5.84	6.88	7.93	8.99	10.04	11.12	12.20	13.65	4 / 1			
reaction time	0.153	interval	<a href="#">7 steps</a>	1.08	1.07	1.06	1.04	1.05	1.06	1.05	1.08	1.08	1.45	3.21	3.15	3.21	
wind	0.7 m/s	velocity	5.22	8.46	8.54	8.62	8.79	8.70	8.62	8.70	8.46	8.46	9.67	8.06	8.54	8.70	
<b>FINAL - 2016 Japanese National Championships (Nagoya, JPN)</b>													<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>				
date	26-Jun-16	time	2.62	3.69	4.73	5.77	6.81	7.85	8.88	9.93	10.98	12.06	13.48	7 / 1			
reaction time	0.138	interval		1.07	1.04	1.04	1.04	1.04	1.03	1.05	1.05	1.08	1.42	3.15	3.11	3.18	
wind	<a href="#">2.4 m/s</a>	velocity	5.24	8.54	8.79	8.79	8.79	8.79	8.87	8.70	8.70	8.46	9.87	8.16	8.70	8.82	
<b>FINAL - 2016 Fuse Sprint (Tottori, JPN)</b>													<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>				
date	05-Jun-16	time	2.61	3.67	4.72	5.76	6.79	7.84	8.88	9.93	11.00	12.07	13.47	5 / 1			
reaction time		interval	<a href="#">7 steps</a>	1.06	1.05	1.04	1.03	1.05	1.04	1.05	1.07	1.07	<b>PB</b>	3.15	3.12	3.19	
wind	1.4 m/s	velocity	5.26	8.62	8.70	8.79	8.87	8.70	8.79	8.70	8.54	8.54	10.01	8.17	8.70	8.79	
<b>Heat 3 - 2016 Fuse Sprint (Tottori, JPN)</b>													(2016.06.05) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>				
date	05-Jun-16	time	2.64	3.71	4.75	5.80	6.85	7.89	8.94	10.00	11.06	12.14	13.54	6 / 1			
reaction time		interval	<a href="#">7 steps</a>	1.07	1.04	1.05	1.05	1.04	1.05	1.06	1.06	1.08	1.40	<b>PB</b>	3.16	3.14	3.20
wind	1.6 m/s	velocity	5.20	8.54	8.79	8.70	8.70	8.79	8.70	8.62	8.62	8.46	10.01	8.12	8.68	8.73	
<b>FINAL - 2016 East Japan Corporate Championships (Kumagaya, JPN)</b>													(2016.05.21) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>				
date	21-May-16	time	2.66	3.74	4.79	5.85	6.90	7.96	9.03	10.09	11.16	12.24	13.64	5 / 1			
reaction time		interval	<a href="#">7 steps</a>	1.08	1.05	1.06	1.05	1.06	1.07	1.06	1.07	1.08	1.40	3.19	3.18	3.21	
wind	-0.7 m/s	velocity	5.16	8.46	8.70	8.62	8.70	8.62	8.54	8.62	8.54	8.46	10.01	8.06	8.60	8.62	
<b>FINAL - 2016 Kinan Memorial (Osaka, JPN)</b>													(2016.05.17) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a>				
date	08-May-16	time	2.66	3.74	4.80	5.85	6.91	7.97	9.02	10.08	11.14	12.22	13.62	6 / 1			
reaction time		interval	<a href="#">7 steps</a>	1.08	1.06	1.05	1.06	1.06	1.05	1.06	1.06	1.08	1.40	3.19	3.17	3.20	
wind	-0.2 m/s	velocity	5.16	8.46	8.62	8.70	8.62	8.62	8.70	8.62	8.62	8.46	10.01	8.08	8.60	8.65	
<b>FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)</b>													<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>				
date	29-Apr-16	time	2.69	3.78	4.84	5.89	6.94	8.00	9.06	10.13	11.22	12.33	13.78	/ 1			
reaction time		interval		1.09	1.06	1.05	1.05	1.06	1.06	1.07	1.09	1.11	1.45	3.20	3.17	3.27	
wind	-0.5 m/s	velocity	5.10	8.39	8.62	8.70	8.70	8.62	8.62	8.54	8.39	8.23	9.67	7.98	8.57	8.65	

<b>FINAL - 2014 Japanese National Championships (Fukushima, JPN)</b>		<i>(2017.02.22) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a></i>															
date	08-Jun-14	time	2.60	3.69	4.74	5.78	6.81	7.87	8.93	10.00	11.07	12.15	13.59	4 / 2			
reaction time	0.137	interval	7 steps	1.09	1.05	1.04	1.03	1.06	1.06	1.07	1.07	1.08	1.44	<b>=PB</b>	3.18	3.15	3.22
wind	0.4 m/s	velocity	5.28	8.39	8.70	8.79	8.87	8.62	8.62	8.54	8.54	8.46	9.74	8.09	8.62	8.70	8.52
<b>Semi-Final 2 - 2014 Japanese National Championships (Fukushima, JPN)</b>		<i>(2017.02.26) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a></i>															
date	08-Jun-14	time	2.63	3.71	4.75	5.79	6.84	7.89	8.94	10.01	11.08	12.17	13.60	6 / 1			
reaction time	0.147	interval	7 steps	1.08	1.04	1.04	1.05	1.05	1.05	1.07	1.07	1.09	1.43		3.16	3.15	3.23
wind	-0.5 m/s	velocity	5.22	8.46	8.79	8.79	8.70	8.70	8.70	8.54	8.54	8.39	9.80	8.09	8.68	8.70	8.49
<b>FINAL - 2013 Japanese Corporate Championships (Hiratsuka, JPN)</b>		<i>(2016.11.18) - <a href="https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en">https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</a></i>															
date	19-Oct-13	time	2.72	3.80	4.85	5.89	6.93	7.95	9.00	10.06	11.12	12.21	13.60	4 / 1			
reaction time		interval		1.08	1.05	1.04	1.04	1.02	1.05	1.06	1.06	1.09	1.39		3.17	3.11	3.21
wind	6.7 m/s	velocity	5.04	8.46	8.70	8.79	8.79	8.96	8.70	8.62	8.62	8.39	10.09	8.09	8.65	8.82	8.54
<b>FINAL - 2013 Japanese National Championships (Chofu, JPN)</b>		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	09-Jun-13	time	2.60	3.69	4.76	5.81	6.86	7.89	8.95	10.01	11.07	12.18	13.59	7 / 1			
reaction time		interval	7 steps	1.09	1.07	1.05	1.05	1.03	1.06	1.06	1.06	1.11	1.41	<b>PB</b>	3.21	3.14	3.23
wind	1.3 m/s	velocity	5.28	8.39	8.54	8.70	8.70	8.87	8.62	8.62	8.62	8.23	9.94	8.09	8.54	8.73	8.49
<b>Semi-Final 2 - 2013 Japanese National Championships (Chofu, JPN)</b>		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	09-Jun-13	time	2.62	3.71	4.75	5.82	6.86	7.91	8.97	10.03	11.11	12.21	13.63	6 / 1			
reaction time		interval	7 steps	1.09	1.04	1.07	1.04	1.05	1.06	1.06	1.08	1.10	1.42		3.20	3.15	3.24
wind	1.2 m/s	velocity	5.24	8.39	8.79	8.54	8.79	8.70	8.62	8.62	8.46	8.31	9.87	8.07	8.57	8.70	8.46
<b>Heat 4 - 2013 Japanese National Championships (Chofu, JPN)</b>		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	08-Jun-13	time	2.61	3.70	4.75	5.79	6.83	7.88	8.95	10.03	11.12	12.21	13.62	6 / 1			
reaction time		interval	7 steps	1.09	1.05	1.04	1.04	1.05	1.07	1.08	1.09	1.09	1.41	<b>PB</b>	3.18	3.16	3.26
wind	0.1 m/s	velocity	5.26	8.39	8.70	8.79	8.79	8.70	8.54	8.46	8.39	8.39	9.94	8.08	8.62	8.68	8.41
<b>FINAL - 2013 Mito Invitational Athletics Meeting (Mito, JPN)</b>		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	04-May-13	time	2.67	3.80	4.90	5.99	7.06	8.13	9.22	10.32	11.42	12.53	13.97	/ 1			
reaction time		interval		1.13	1.10	1.09	1.07	1.07	1.09	1.10	1.10	1.11	1.44		3.32	3.23	3.31
wind	-1.3 m/s	velocity	5.14	8.09	8.31	8.39	8.54	8.54	8.39	8.31	8.31	8.23	9.74	7.87	8.26	8.49	8.28
<b>Heat 1 - 2013 Mito Invitational Athletics Meeting (Mito, JPN)</b>		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	04-May-13	time	2.63	3.73	4.79	5.85	6.91	7.97	9.05	10.12	11.22	12.32	13.74	/ 1			
reaction time		interval		1.10	1.06	1.06	1.06	1.06	1.08	1.07	1.10	1.10	1.42		3.22	3.20	3.27
wind	0.8 m/s	velocity	5.22	8.31	8.62	8.62	8.62	8.62	8.46	8.54	8.31	8.31	9.87	8.01	8.52	8.57	8.39
<b>FINAL - 2013 Mikio Oda Memorial (Hiroshima, JPN)</b>		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	29-Apr-13	time	2.64	3.74	4.82	5.90	6.98	8.03	9.11	10.18	11.27	12.40	13.86	/ 4			
reaction time		interval		1.10	1.08	1.08	1.08	1.05	1.08	1.07	1.09	1.13	1.46		3.26	3.21	3.29
wind	0.7 m/s	velocity	5.20	8.31	8.46	8.46	8.46	8.70	8.46	8.54	8.39	8.09	9.60	7.94	8.41	8.54	8.33
<b>Heat 1 - 2013 Mikio Oda Memorial (Hiroshima, JPN)</b>		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	29-Apr-13	time	2.63	3.73	4.79	5.86	6.91	8.00	9.08	10.18	11.28	12.42	13.85	/ 4			
reaction time		interval		1.10	1.06	1.07	1.05	1.09	1.08	1.10	1.10	1.14	1.43		3.23	3.22	3.34
wind	1.5 m/s	velocity	5.22	8.31	8.62	8.54	8.70	8.39	8.46	8.31	8.31	8.02	9.80	7.94	8.49	8.52	8.21
<b>Semi-Final 2 - 2012 Japanese National Championships (Osaka, JPN)</b>		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	10-Jun-12	time	2.61	3.67	4.72	5.78	6.85	7.90	8.99	10.08	11.18	12.32	13.75	5 / 1			
reaction time		interval		1.06	1.05	1.06	1.07	1.05	1.09	1.09	1.10	1.14	1.43		3.17	3.21	3.33
wind	0.5 m/s	velocity	5.26	8.62	8.70	8.62	8.54	8.70	8.39	8.39	8.31	8.02	9.80	8.00	8.65	8.54	8.23
<b>Heat 2 - 2012 Japanese National Championships (Osaka, JPN)</b>		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	09-Jun-12	time	2.62	3.71	4.77	5.84	6.91	7.99	9.10	10.21	11.32	12.46	13.94	5 / 2			
reaction time		interval		1.09	1.06	1.07	1.07	1.08	1.11	1.11	1.11	1.14	1.48		3.22	3.26	3.36
wind	-1.1 m/s	velocity	5.24	8.39	8.62	8.54	8.54	8.46	8.23	8.23	8.23	8.02	9.47	7.89	8.52	8.41	8.16
<b>A FINAL - 2012 Mikio Oda Memorial (Hiroshima, JPN)</b>		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	29-Apr-12	time	2.59	3.65	4.71	5.78	6.85	7.93	8.99	10.06	11.15	12.27	13.69	6 / 3			
reaction time		interval		1.06	1.06	1.07	1.07	1.08	1.06	1.07	1.09	1.12	1.42		3.19	3.21	3.28
wind	2.1 m/s	velocity	5.30	8.62	8.62	8.54	8.54	8.46	8.62	8.54	8.39	8.16	9.87	8.04	8.60	8.54	8.36
<b>FINAL - 2011 Asian Championships (Kobe, JPN)</b>		<i>Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro</i>															
date	10-Jul-11	time	2.62	3.72	4.80	5.91	7.01	8.11	9.23	10.37	11.51	12.69	14.21	/ 4			
reaction time		interval		1.10	1.08	1.11	1.10	1.10	1.12	1.14	1.14	1.18	1.52		3.29	3.32	3.46
wind	-2.1 m/s	velocity	5.24	8.31	8.46	8.23	8.31	8.31	8.16	8.02	8.02	7.75	9.22	7.74	8.33	8.26	7.92
<b>FINAL - 2011 Japanese National Championships (Kumagaya, JPN)</b>		<i>Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro</i>															
date	11-Jun-11	time	2.64	3.72	4.80	5.87	6.94	8.01	9.11	10.20	11.30	12.42	13.86	/ 1			
reaction time		interval		1.08	1.08	1.07	1.07	1.07	1.10	1.09	1.10	1.12	1.44	<b>PB</b>	3.23	3.24	3.31
wind	-0.1 m/s	velocity	5.20	8.46	8.46	8.54	8.54	8.31	8.31	8.39	8.31	8.16	9.74	7.94	8.49	8.46	8.28

<b>Semi-Final 2</b> - 2011 Japanese National Championships (Kumagaya, JPN)													<i>Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro</i>					
date	11-Jun-11	time	2.59	3.70	4.79	5.87	6.95	8.03	9.12	10.23	11.34	12.48	13.95	/ 1				
reaction time		interval		1.11	1.09	1.08	1.08	1.08	1.09	1.11	1.11	1.14	1.47	3.28	3.25	3.36		
wind	-0.1 m/s	velocity	5.30	8.23	8.39	8.46	8.46	8.46	8.39	8.23	8.23	8.02	9.54	7.89	8.36	8.44	8.16	
<b>Heat 2</b> - 2011 Japanese National Championships (Kumagaya, JPN)													<i>Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro</i>					
date	10-Jun-11	time	2.61	3.68	4.74	5.81	6.87	7.95	9.05	10.16	11.29	12.43	13.89	/ 1				
reaction time		interval		1.07	1.06	1.07	1.06	1.08	1.10	1.11	1.13	1.14	1.46	PB	3.20	3.24	3.38	
wind	0.1 m/s	velocity	5.26	8.54	8.62	8.54	8.62	8.46	8.31	8.23	8.09	8.02	9.60	7.92	8.57	8.46	8.11	
<b>FINAL</b> - 2011 Mikio Oda Memorial (Hiroshima, JPN)													<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>					
date	29-Apr-11	time	2.62	3.71	4.78	5.84	6.90	7.96	9.04	10.14	11.25	12.36	13.79	/ 6				
reaction time		interval		1.09	1.07	1.06	1.06	1.06	1.08	1.10	1.11	1.11	1.43	3.22	3.20	3.32		
wind	2.4 m/s	velocity	5.24	8.39	8.54	8.62	8.62	8.62	8.46	8.31	8.23	8.23	9.80	7.98	8.52	8.57	8.26	
<b>Ylösto, Mikael (FIN) (1963)</b>																		
<b>Semi-Final 2</b> - 1988 Olympic Games (Seoul, KOR)													<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>					
date	26-Sep-88	time	2.61	3.70	4.78	5.86	6.98	8.06	9.18	10.28	11.39	12.51	14.09	2 / 8				
reaction time		interval		1.09	1.08	1.08	1.12	1.08	1.12	1.10	1.11	1.12	1.58	3.25	3.32	3.33		
wind	-0.7 m/s	velocity	5.26	8.39	8.46	8.46	8.16	8.46	8.16	8.31	8.23	8.16	8.87	7.81	8.44	8.26	8.23	
<b>Yin Jing (CHN) (1988)</b>																		
<b>FINAL</b> - 2009 Mikio Oda Memorial (Hiroshima, JPN)													<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>					
date	29-Apr-09	time	2.60	3.67	4.70	5.73	6.75	7.77	8.81	9.86	10.90	11.96	13.40	/ 1				
reaction time		interval		1.07	1.03	1.03	1.02	1.02	1.04	1.05	1.04	1.06	1.44	PB	3.13	3.08	3.15	
wind	1.9 m/s	velocity	5.28	8.54	8.87	8.87	8.96	8.96	8.79	8.70	8.79	8.62	9.74	8.21	8.76	8.90	8.70	
<b>Yokochi, Taiga (JPN) (2000)</b>																		
<b>Semi-Final 2</b> - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	21-Aug-23	time	2.60	3.70	4.80	5.93	7.05	8.18	9.36	10.50	11.80	13.06	14.93	1 / 9				
reaction time		interval		7 steps	1.10	1.10	1.13	1.12	1.13	1.18	1.14	1.30	1.26	1.87	3.33	3.43	3.70	
wind	-0.2 m/s	velocity	5.28	8.31	8.31	8.09	8.16	8.09	7.75	8.02	7.03	7.25	7.50	7.37	8.23	7.99	7.41	
<b>FINAL</b> - 2022 Japanese National Championships (Osaka, JPN)													<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	12-Jun-22	time	2.64	3.73	4.77	5.82	6.85	7.92	8.97	10.05	11.13	12.25	13.72	3 / 8				
reaction time		interval		7 steps	1.09	1.04	1.05	1.03	1.07	1.05	1.08	1.08	1.12	1.47	3.18	3.15	3.28	
wind	-1.2 m/s	velocity	5.20	8.39	8.79	8.70	8.87	8.54	8.70	8.46	8.46	8.16	9.54	8.02	8.62	8.70	8.36	
<b>FINAL</b> - 2022 Seiko Golden Grand Prix (Tokyo, JPN)													<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	08-May-22	time	2.65	3.75	4.79	5.83	6.88	7.94	9.00	10.07	11.17	12.27	13.73	8 / 6				
reaction time		interval		7 steps	1.10	1.04	1.04	1.05	1.06	1.06	1.07	1.10	1.10	1.46	3.18	3.17	3.27	
wind	0.1 m/s	velocity	5.18	8.31	8.79	8.79	8.70	8.62	8.62	8.54	8.31	8.31	9.60	8.01	8.62	8.65	8.39	
<b>FINAL</b> - 2022 Mikio Oda Memorial (Hiroshima, JPN)													<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	29-Apr-22	time	2.67	3.77	4.83	5.90	6.95	8.00	9.05	10.20	11.33	12.48	13.98	2 / 7				
reaction time		interval		7 steps	1.10	1.06	1.07	1.05	1.05	1.05	1.15	1.13	1.15	1.50	3.23	3.15	3.43	
wind	-1.5 m/s	velocity	5.14	8.31	8.62	8.54	8.70	8.70	8.70	7.95	8.09	7.95	9.35	7.87	8.49	8.70	7.99	
<b>FINAL</b> - 2021 Japanese National Championships (Osaka, JPN)													<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>					
date	27-Jun-21	time	2.62	3.70	4.72	5.75	6.76	7.77	8.84	9.89	10.96	12.03	13.47	8 / 5				
reaction time		interval		7 steps	1.08	1.02	1.03	1.01	1.01	1.07	1.05	1.07	1.07	1.44	PB	3.13	3.09	3.19
wind	1.2 m/s	velocity	5.24	8.46	8.96	8.87	9.05	9.05	8.54	8.70	8.54	8.54	9.74	8.17	8.76	8.87	8.60	
<b>FINAL</b> - 2021 Ready Steady Tokyo (Tokyo, JPN)													<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>					
date	09-May-21	time	2.58	3.64	4.69	5.73	6.78	7.83	8.88	9.98	11.09	12.20	13.67	6 / 7				
reaction time		interval		7 steps	1.06	1.05	1.04	1.05	1.05	1.10	1.11	1.11	1.47	3.15	3.15	3.32		
wind	-0.8 m/s	velocity	5.32	8.62	8.70	8.79	8.70	8.70	8.70	8.31	8.23	8.23	9.54	8.05	8.70	8.70	8.26	
<b>FINAL</b> - 2021 Mikio Oda Memorial (Hiroshima, JPN)													<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>					
date	29-Apr-21	time	2.65	3.75	4.81	5.85	6.89	7.93	8.99	10.06	11.14	12.24	13.68	1 / 6				
reaction time		interval		7 steps	1.10	1.06	1.04	1.04	1.04	1.06	1.07	1.08	1.10	1.44	3.20	3.14	3.25	
wind	1.7 m/s	velocity	5.18	8.31	8.62	8.79	8.79	8.79	8.62	8.54	8.46	8.31	9.74	8.04	8.57	8.73	8.44	
<b>FINAL</b> - 2020 Michitaka Kinami Memorial (Osaka, JPN)													<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>					
date	24-Oct-20	time	2.67	3.77	4.80	5.87	6.91	7.95	9.04	10.07	11.15	12.24	13.67	5 / 3				
reaction time		interval		7 steps	1.10	1.03	1.07	1.04	1.04	1.09	1.03	1.08	1.09	1.43	3.20	3.17	3.20	
wind	0.6 m/s	velocity	5.14	8.31	8.87	8.54	8.79	8.79	8.39	8.87	8.46	8.39	9.80	8.05	8.57	8.65	8.57	
<b>FINAL</b> - 2020 Japanese National Championships (Niigata, JPN)													<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>					
date	03-Oct-20	time	2.67	3.75	4.80	5.83	6.88	7.93	8.97	10.05	11.12	12.23	13.72	3 / 8				
reaction time		interval		7 steps	1.08	1.05	1.03	1.05	1.05	1.04	1.08	1.07	1.11	1.49	3.16	3.14	3.26	
wind	-0.1 m/s	velocity	5.14	8.46	8.70	8.87	8.70	8.70	8.79	8.46	8.54	8.23	9.41	8.02	8.68	8.73	8.41	
<b>Heat 1</b> - 2020 Japanese National Championships (Niigata, JPN)													<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>					

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

date	02-Oct-20	time	2.69	3.76	4.80	5.83	6.85	7.90	8.93	10.00	11.06	12.15		13.60	7 / 5					
reaction time	0.160	interval	<b>7 steps</b>	1.07	1.04	1.03	1.02	1.05	1.03	1.07	1.06	1.09	1.45	<b>PB</b>		3.14	3.10	3.22		
wind	0.8 m/s	velocity	5.10	8.54	8.79	8.87	8.96	8.70	8.87	8.54	8.62	8.39	9.67	8.09		8.73	8.85	8.52		
<b>Yoneyama, Aiki (JPN) (2004)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>				
<b>FINAL</b> - 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	3.84	4.99	6.12	7.26	8.38	9.65	10.92	12.22	13.47		15.00	7 / 8					
reaction time	0.124	interval		1.15	1.15	1.13	1.14	1.12	1.27	1.27	1.30	1.25	1.53		3.43	3.53	3.82			
wind	-3.8 m/s	velocity	5.10	7.95	7.95	8.09	8.02	8.16	7.20	7.20	7.03	7.31	9.16	7.33	7.99	7.77	7.18			
<b>Yoshima, Kaito (JPN) (1998)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>				
<b>B FINAL</b> - 2022 Mikio Oda Memorial (Hiroshima, JPN) <i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>																				
date	29-Apr-22	time	2.70	3.81	4.90	5.99	7.06	8.13	9.24	10.35	11.48	12.64		14.16	1 / 6					
reaction time	0.175	interval	<b>7 steps</b>	1.11	1.09	1.09	1.07	1.07	1.11	1.11	1.13	1.16	1.52		3.29	3.25	3.40			
wind	-0.7 m/s	velocity	5.08	8.23	8.39	8.39	8.54	8.54	8.23	8.23	8.09	7.88	9.22	7.77	8.33	8.44	8.06			
<b>Yoshinaga, Kazuyuki (JPN) (1984)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>				
<b>FINAL</b> - 2009 Japanese National Championships (Hiroshima, JPN) <i>Ryutaro (2010) - an attempt or a creation of a race pattern standard model for the 110m hurdles</i>																				
date	27-Jun-09	time	2.63	3.71	4.78	5.85	6.91	8.01	9.10	10.19	11.27	12.38		13.86	1 / 5					
reaction time		interval		1.08	1.07	1.07	1.06	1.10	1.09	1.09	1.08	1.11	1.48	<b>PB</b>	3.22	3.25	3.28			
wind	1.6 m/s	velocity	5.22	8.46	8.54	8.54	8.62	8.31	8.39	8.39	8.46	8.23	9.47	7.94	8.52	8.44	8.36			
<b>Yuuto, Yuiguchi (JPN)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>				
<b>FINAL</b> - 2016 Miyazaki Prefecture High School Championships (Miyazaki, JPN) <i>(2016.10.26) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</i>																				
date	16-Sep-16	time	2.81	3.97	5.16	6.35	7.54	8.72	10.00	11.23	12.46	13.70		15.25	4 / 1					
reaction time		interval		1.16	1.19	1.19	1.19	1.18	1.28	1.23	1.23	1.24	1.55		3.54	3.65	3.70			
wind	0.4 m/s	velocity	4.88	7.88	7.68	7.68	7.68	7.75	7.14	7.43	7.43	7.37	9.05	7.21	7.75	7.51	7.41			
<b>Yu Haonan (CHN) (2000)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>				
<b>U20 Heat 3</b> - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm) <i>CAA Hurdle Development (2019)</i>																				
date	14-Aug-19	time	2.64	3.75	4.83	5.94	7.02	8.12	9.21	10.31	11.41	12.53		14.04	4 / 3					
reaction time	0.154	interval		1.11	1.08	1.11	1.08	1.10	1.09	1.10	1.10	1.12	1.51		3.30	3.27	3.32			
wind	0.6 m/s	velocity	5.20	8.23	8.46	8.23	8.46	8.31	8.39	8.31	8.31	8.16	9.28	7.83	8.31	8.39	8.26			
<b>Yu Zhicheng (CHN) (1963)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>				
<b>FINAL</b> - 1990 Asian Games (Beijing, CHN) <i>Feng (1993) - an analysis of the racing technique in the entire course of the men's 110m hurdles</i>																				
date	28-Sep-90	time	2.70	3.79	4.86	5.94	6.99	8.06	9.14	10.22	11.32	12.40		13.82	3 / 1					
reaction time		interval		1.09	1.07	1.08	1.05	1.07	1.08	1.08	1.10	1.08	1.42	<b>=AR</b>	3.24	3.20	3.26			
wind	2.0 m/s	velocity	5.08	8.39	8.54	8.46	8.70	8.54	8.46	8.46	8.31	8.46	9.87	7.96	8.46	8.57	8.41			
<b>Semi-Final 2</b> - 1988 Olympic Games (Seoul, KOR)	<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																			
date	26-Sep-88	time	2.62	3.74	4.82	5.88	6.94	8.03	9.11	10.23	11.35	12.47		13.94	7 / 6					
reaction time	0.143	interval		1.12	1.08	1.06	1.06	1.09	1.08	1.12	1.12	1.12	1.47		3.26	3.23	3.36			
wind	-0.7 m/s	velocity	5.24	8.16	8.46	8.62	8.62	8.39	8.46	8.16	8.16	8.16	9.54	7.89	8.41	8.49	8.16			
<b>FINAL</b> - 1987 Chinese National Games (Guangzhou, CHN)	<i>Wang (2009) - research of training characteristic during different stages in the development of 110m hurdles</i>																			
date	28-Nov-87	time	2.62	3.73	4.85	5.93	6.95	7.98	9.02	10.04	11.12	12.24		13.72	/ 2					
reaction time		interval		1.11	1.12	1.08	1.02	1.03	1.04	1.02	1.08	1.12	1.48		3.31	3.09	3.22			
wind	1.6 m/s	velocity	5.24	8.23	8.16	8.46	8.96	8.87	8.79	8.96	8.46	8.16	9.47	8.02	8.28	8.87	8.52			
<b>Yue Xuesong (CHN) (1997)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>				
<b>Decathlon - Heat 1</b> - 2021 Chinese National Championships (Chongqing, CHN) <i>CAA Hurdle Development (2021)</i>																				
date	27-Jun-21	time	2.80	3.95	5.10	6.25	7.42	8.59	9.74	10.91	12.08	13.28		14.82	4 / 3					
reaction time	0.193	interval		1.15	1.15	1.15	1.17	1.17	1.15	1.17	1.17	1.20	1.54		3.45	3.49	3.54			
wind	0.5 m/s	velocity	4.90	7.95	7.95	7.95	7.81	7.81	7.95	7.81	7.81	7.62	9.10	7.42	7.95	7.86	7.75			
<b>Decathlon - Heat 3</b> - 2019 Chinese National Championships (Shenyang, CHN)	<i>CAA Hurdle Development (2019)</i>																			
date	11-Jul-19	time	2.77	3.92	5.05	6.20	7.36	8.52	9.69	10.86	12.03	13.23		14.76	5 / 1					
reaction time	0.203	interval		1.15	1.13	1.15	1.16	1.16	1.17	1.17	1.17	1.20	1.53	<b>PB</b>	3.43	3.49	3.54			
wind	0.0 m/s	velocity	4.95	7.95	8.09	7.95	7.88	7.88	7.81	7.81	7.81	7.62	9.16	7.45	7.99	7.86	7.75			
<b>Záhora, Vojtech (CZE) (1998)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>				
<b>Heat 1</b> - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm) <i>Feher (2014) - Final report from the U18 &amp; U20 Czech Republic national championships</i>																				
date	28-Jun-14	time	2.92	4.15	5.36	6.62	7.82	9.04	10.30	11.53	12.79	14.10		15.84	5 / 6					
reaction time	0.180	interval		1.23	1.21	1.26	1.20	1.22	1.26	1.23	1.26	1.31	1.74		3.70	3.68	3.80			
wind	-0.3 m/s	velocity	4.70	7.43	7.55	7.25	7.62	7.49	7.25	7.43	7.25	6.98	8.06	6.94	7.41	7.45	7.22			
<b>Zallow, Chad (USA) (1997)</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>				
<b>FINAL</b> - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis) <i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>																				
date	24-Jan-21	time	2.55	3.60	4.64	5.70	6.72							7.71	6 / 4					
reaction time	0.189	interval		1.05	1.04	1.06	1.02						0.99		3.15					
		velocity	5.38	8.70	8.79	8.62	8.96						9.82	7.78	8.70					
<b>FINAL</b> - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)	<i>CAA Hurdle Development (2020)</i>																			
date	15-Feb-20	time	2.53	3.59	4.65	5.70	6.75							7.65	2 / 4					

reaction time 0.151 interval 1.06 1.06 1.05 1.05  
velocity 5.42 8.62 8.62 8.70 8.70

0.90 3.17  
10.80 7.84 8.65

**Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)**

CAA Hurdle Development (2020)

date 15-Feb-20 time 2.55 3.60 4.67 5.72 6.80  
reaction time 0.156 interval 1.05 1.07 1.05 1.08  
velocity 5.38 8.70 8.54 8.70 8.46

7.72 4 / 3  
0.92 3.17  
10.57 7.77 8.65

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

CAA Hurdle Development (2020)

date 14-Feb-20 time 2.57 3.62 4.67 5.72 6.81  
reaction time 0.168 interval 1.05 1.05 1.05 1.09  
velocity 5.34 8.70 8.70 8.70 8.39

7.67 8 / 1  
0.86 3.15  
11.30 7.82 8.70

**FINAL - 2020 Millrose Games (New York, NY) (TV Analysis)**

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

date 08-Feb-20 time 2.50 3.55 4.63 5.67 6.72  
reaction time 0.172 interval 1.05 1.08 1.04 1.05  
velocity 5.49 8.70 8.46 8.79 8.70

7.69 8 / 3  
0.97 3.17  
10.02 7.80 8.65

**Zaza, Wellington (LBR) (1995)****FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)**

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

date 21-May-22 time 2.47 3.57 4.67 5.73 6.77 7.90 8.95 10.08 11.17 12.28  
reaction time 0.141 interval 1.10 1.10 1.06 1.04 1.13 1.05 1.13 1.09 1.11 1.53  
wind 0.7 m/s velocity 5.55 8.31 8.31 8.62 8.79 8.09 8.70 8.09 8.39 8.23 9.16

13.81 8 / 8  
3.26 3.22 3.33  
7.97 8.41 8.52 8.23

**FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)**

Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record

date 17-Feb-22 time 2.45 3.52 4.55 5.57 6.63  
reaction time 0.149 interval 1.07 1.03 1.02 1.06  
velocity 5.60 8.54 8.87 8.96 8.62

7.63 8 / 6  
1.00 3.12  
9.72 7.86 8.79

**FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis)**

Henson (2021) - men's 60m hurdles world record season - Grant Holloway

date 24-Jan-21 time 2.50 3.60 4.70 5.78 6.88  
reaction time 0.153 interval 1.10 1.10 1.08 1.10  
velocity 5.49 8.31 8.31 8.46 8.31

7.87 2 / 6  
0.99 3.28  
9.82 7.62 8.36

**Zeller, Joshua (GBR) (2000)****FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)**

Omega Timing (2023) - diamond league race analysis

date 02-Sep-23 time 2.47 3.56 4.59 5.62 6.64 7.68 8.72 9.75 10.81 11.88  
reaction time 0.147 interval 1.09 1.03 1.03 1.02 1.04 1.04 1.03 1.06 1.07 1.57  
wind 0.0 m/s velocity 5.55 8.39 8.87 8.87 8.96 8.79 8.79 8.87 8.62 8.54 8.93

13.45 1 / 9  
3.15 3.10 3.16  
8.18 8.70 8.85 8.68

**FINAL - 2023 London Athletics Meet (London, GBR)**

Omega Timing (2023) - diamond league race analysis

date 23-Jul-23 time 2.49 3.57 4.60 5.61 6.67 7.75 8.81 9.89 10.99 12.10  
reaction time 0.144 interval 1.08 1.03 1.01 1.06 1.08 1.06 1.08 1.10 1.11 1.72  
wind 1.3 m/s velocity 5.51 8.46 8.87 9.05 8.62 8.46 8.62 8.46 8.31 8.23 8.15

13.82 1 / 6  
3.12 3.20 3.29  
7.96 8.79 8.57 8.33

**FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)**

Omega Timing (2023) - diamond league race analysis

date 16-Jul-23 time 2.49 3.56 4.59 5.62 6.64 7.65 8.68 9.72 10.77 11.84  
reaction time 0.158 interval 1.07 1.03 1.03 1.02 1.01 1.03 1.04 1.05 1.07 1.59  
wind 0.3 m/s velocity 5.51 8.54 8.87 8.87 8.96 9.05 8.87 8.79 8.70 8.54 8.82

13.43 1 / 5  
3.13 3.06 3.16  
8.19 8.76 8.96 8.68

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

Omega Timing (2023) - diamond league race analysis

date 16-Jul-23 time 2.49 3.57 4.61 5.64 6.65 7.67 8.70 9.74 10.78 11.83  
reaction time 0.156 interval 1.08 1.04 1.03 1.01 1.02 1.03 1.04 1.04 1.05 1.57  
wind 0.3 m/s velocity 5.51 8.46 8.79 8.87 9.05 8.96 8.87 8.79 8.79 8.70 8.93

13.40 8 / 6  
3.15 3.06 3.13  
8.21 8.70 8.96 8.76

**FINAL - 2023 Athletissima (Lausanne, SUI)**

Omega Timing (2023) - diamond league race analysis

date 30-Jun-23 time 2.47 3.56 4.60 5.64 6.66 7.69 8.73 9.79 10.87 11.96  
reaction time 0.153 interval 1.09 1.04 1.04 1.02 1.03 1.04 1.06 1.08 1.09 1.62  
wind -1.0 m/s velocity 5.55 8.39 8.79 8.79 8.96 8.87 8.79 8.62 8.46 8.39 8.65

13.58 8 / 7  
3.17 3.09 3.23  
8.10 8.65 8.87 8.49

**FINAL - 2022 World Athletics Championships (Eugene, OR)**

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

date 17-Jul-22 time 2.61 3.67 4.69 5.71 6.72 7.73 8.75 9.78 10.82 11.89  
reaction time 0.145 interval 1.06 1.02 1.02 1.01 1.01 1.02 1.03 1.04 1.07 1.44  
wind 1.2 m/s velocity 5.26 8.62 8.96 8.96 9.05 9.05 8.96 8.87 8.79 8.54 9.74

13.33 7 / 5  
3.10 3.04 3.14  
8.25 8.85 9.02 8.73

**Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)**

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

date 17-Jul-22 time 2.56 3.60 4.63 5.63 6.65 7.67 8.70 9.73 10.80 11.86  
reaction time 0.124 interval 1.04 1.03 1.00 1.02 1.02 1.03 1.03 1.07 1.06 1.45  
wind -0.6 m/s velocity 5.36 8.79 8.87 9.14 8.96 8.96 8.87 8.87 8.54 8.62 9.67

13.31 5 / 2  
3.07 3.07 3.16  
8.26 8.93 8.93 8.68

**Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)**

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

date 16-Jul-22 time 2.56 3.63 4.68 5.70 6.73 7.73 8.76 9.80 10.86 11.93  
reaction time 0.126 interval 1.07 1.05 1.02 1.03 1.00 1.03 1.04 1.06 1.07 1.48  
wind 0.4 m/s velocity 5.36 8.54 8.70 8.96 8.87 9.14 8.87 8.79 8.62 8.54 9.47

13.41 5 / 3  
3.14 3.06 3.17  
8.20 8.73 8.96 8.65

FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report					
date	10-Jun-22	time	2.50	3.57	4.59	5.61	6.61	7.62	8.64	9.66	10.69	11.73	13.26	7 / 3				
reaction time	interval		1.07	1.02	1.02	1.00	1.01	1.02	1.02	1.03	1.04	1.53		3.11	3.03	3.09		
wind	0.0 m/s	velocity	5.49	8.54	8.96	8.96	9.14	9.05	8.96	8.96	8.87	8.79	9.16	8.30	8.82	9.05	8.87	
<b>Zeng Jianhang (CHN) (1998)</b>			<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>H6</b>	<b>H7</b>	<b>H8</b>	<b>H9</b>	<b>H10</b>	<b>Run-In</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>H1-H4</b>	<b>H4-H7</b>	<b>H7-H10</b>
<b>Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)</b>																		
CAA Hurdle Development (2021)																		
date	24-Apr-21	time	2.56	3.62	4.66	5.69	6.72	7.77	8.84	9.91	11.00	12.10	13.62	5 / 1				
reaction time	0.151	interval	1.06	1.04	1.03	1.03	1.05	1.07	1.07	1.09	1.10	1.52	3.13 3.15 3.26					
wind	-1.2 m/s	velocity	5.36	8.62	8.79	8.87	8.87	8.70	8.54	8.54	8.39	8.31	9.22	8.08	8.76 8.70 8.41			
<b>FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)</b>																		
CAA Hurdle Development (2021)																		
date	08-Apr-21	time	2.56	3.64	4.66	5.68	6.68	7.72	8.76	9.80	10.88	11.96	13.43	6 / 1				
reaction time	interval		1.08	1.02	1.02	1.00	1.04	1.04	1.04	1.08	1.08	1.47	PB 3.12 3.08 3.20					
wind	-0.1 m/s	velocity	5.36	8.46	8.96	8.96	9.14	8.79	8.79	8.79	8.46	8.46	9.54	8.19	8.79 8.90 8.57			
<b>FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)</b>																		
CAA Hurdle Development (2021)																		
date	18-Mar-21	time	2.54	3.59	4.63	5.65	6.67						7.57	4 / 1				
reaction time	0.161	interval	1.05	1.04	1.02	1.02						0.90	3.11					
wind		velocity	5.40	8.70	8.79	8.96	8.96					10.80	7.93	8.82				
<b>A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)</b>																		
CAA Hurdle Development (2021)																		
date	13-Mar-21	time	2.54	3.58	4.62	5.62	6.64						7.55	3 / 1				
reaction time	0.163	interval	1.04	1.04	1.00	1.02						0.91	PB 3.08					
wind		velocity	5.40	8.79	8.79	9.14	8.96					10.68	7.95	8.90				
<b>FINAL - 2020 Chinese National Championships (Shaoxing, CHN)</b>																		
CAA Hurdle Development (2020)																		
date	16-Sep-20	time	2.58	3.62	4.66	5.69	6.72	7.76	8.82	9.90	10.98	12.09	13.54	6 / 2				
reaction time	0.156	interval	1.04	1.04	1.03	1.03	1.04	1.06	1.08	1.08	1.11	1.45	3.11 3.13 3.27					
wind	0.4 m/s	velocity	5.32	8.79	8.79	8.87	8.87	8.79	8.62	8.46	8.46	8.23	9.67	8.12	8.82 8.76 8.39			
<b>Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)</b>																		
CAA Hurdle Development (2020)																		
date	16-Sep-20	time	2.61	3.69	4.72	5.75	6.81	7.87	8.94	10.02	11.12	12.22	13.69	6 / 2				
reaction time	0.159	interval	1.08	1.03	1.03	1.06	1.06	1.07	1.08	1.10	1.10	1.47	3.14 3.19 3.28					
wind	0.3 m/s	velocity	5.26	8.46	8.87	8.87	8.62	8.62	8.54	8.46	8.31	8.31	9.54	8.04	8.73 8.60 8.36			
<b>FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	24-Aug-19	time	2.62	3.67	4.72	5.75	6.79	7.84	8.89	9.98	11.07	12.17	13.65	5 / 1				
reaction time	0.177	interval	1.05	1.05	1.03	1.04	1.05	1.05	1.09	1.09	1.10	1.48	3.13 3.14 3.28					
wind	-0.1 m/s	velocity	5.24	8.70	8.70	8.87	8.79	8.70	8.70	8.39	8.39	8.31	9.47	8.06	8.76 8.73 8.36			
<b>Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	23-Aug-19	time	2.65	3.71	4.77	5.85	6.94	8.02	9.11	10.24	11.38	12.53	14.11	4 / 1				
reaction time	0.176	interval	1.06	1.06	1.08	1.09	1.08	1.09	1.13	1.14	1.15	1.58	3.20 3.26 3.42					
wind	-0.2 m/s	velocity	5.18	8.62	8.62	8.46	8.39	8.46	8.39	8.09	8.02	7.95	8.87	7.80	8.57 8.41 8.02			
<b>FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	02-Aug-19	time	2.56	3.60	4.64	5.67	6.74	7.76	8.82	9.88	10.96	12.08	13.54	3 / 2				
reaction time	0.150	interval	1.04	1.04	1.03	1.07	1.02	1.06	1.06	1.08	1.12	1.46	3.11 3.15 3.26					
wind	0.0 m/s	velocity	5.36	8.79	8.79	8.87	8.54	8.96	8.62	8.62	8.46	8.16	9.60	8.12	8.82 8.70 8.41			
<b>Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	02-Aug-19	time	2.62	3.70	4.78	5.86	6.94	8.02	9.10	10.20	11.31	12.47	13.99	7 / 1				
reaction time	0.153	interval	1.08	1.08	1.08	1.08	1.08	1.08	1.10	1.11	1.16	1.52	3.24 3.24 3.37					
wind	-0.2 m/s	velocity	5.24	8.46	8.46	8.46	8.46	8.46	8.46	8.31	8.23	7.88	9.22	7.86	8.46 8.46 8.14			
<b>FINAL - 2019 Chinese National Championships (Shenyang, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	08-Jul-19	time	2.58	3.65	4.70	5.75	6.77	7.86	8.92	9.99	11.09	12.18	13.59	8 / 1				
reaction time	0.174	interval	1.07	1.05	1.05	1.02	1.09	1.06	1.07	1.10	1.09	1.41	3.17 3.17 3.26					
wind	0.1 m/s	velocity	5.32	8.54	8.70	8.70	8.96	8.39	8.62	8.54	8.31	8.39	9.94	8.09	8.65 8.65 8.41			
<b>Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	08-Jul-19	time	2.69	3.79	4.85	5.94	7.02	8.11	9.18	10.27	11.39	12.51	13.98	6 / 2				
reaction time	0.204	interval	1.10	1.06	1.09	1.08	1.09	1.07	1.09	1.12	1.12	1.47	3.25 3.24 3.33					
wind	-0.5 m/s	velocity	5.10	8.31	8.62	8.39	8.46	8.39	8.54	8.39	8.16	8.16	9.54	7.87	8.44 8.46 8.23			
<b>FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	07-Jun-19	time	2.58	3.62	4.66	5.67	6.70	7.72	8.76	9.80	10.92	12.03	13.45	3 / 2				
reaction time	0.168	interval	1.04	1.04	1.01	1.03	1.02	1.04	1.04	1.12	1.11	1.42	PB 3.09 3.09 3.27					
wind	1.2 m/s	velocity	5.32	8.79	8.79	9.05	8.87	8.96	8.79	8.79	8.16	8.23	9.87	8.18	8.87 8.87 8.39			
<b>FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	04-Jun-19	time	2.58	3.65	4.70	5.75	6.83	7.90	8.95	10.05	11.16	12.26	13.72	6 / 2				
reaction time	0.159	interval	1.07	1.05	1.05	1.08	1.07	1.05	1.10	1.11	1.10	1.46	3.17 3.20 3.31					
wind	-0.3 m/s	velocity	5.32	8.54	8.70	8.70	8.46	8.54	8.70	8.31	8.23	8.31	9.60	8.02	8.65 8.57 8.28			

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

<b>FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	21-May-19	time	2.59	3.64	4.70	5.73	6.76	7.82	8.87	9.95	11.04	12.16	13.62	10 / 8	3.14	3.14	3.29
reaction time	0.146	interval		1.05	1.06	1.03	1.03	1.06	1.05	1.08	1.09	1.12	1.46	<b>PB</b>			
wind	0.1 m/s	velocity	5.30	8.70	8.62	8.87	8.87	8.62	8.70	8.46	8.39	8.16	9.60	8.08	8.73	8.73	8.33
<b>FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	18-May-19	time	2.58	3.68	4.72	5.78	6.82	7.88	8.96	10.02	11.12	12.24	13.71	1 / 9	3.20	3.18	3.28
reaction time	0.154	interval		1.10	1.04	1.06	1.04	1.06	1.08	1.06	1.10	1.12	1.47		8.57	8.62	8.36
wind	0.7 m/s	velocity	5.32	8.31	8.79	8.62	8.79	8.62	8.46	8.62	8.31	8.16	9.54	8.02			
<b>Heat 2 - 4th Leg - 2019 IAAF World Relays - Shuttle Hurdle Relay (Yokohama, JPN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	11-May-19	time	2.50	3.58	4.68	5.78	6.88	7.97	9.04	10.17	11.27	12.41	13.90	4 / 3	3.28	3.26	3.37
reaction time		interval		1.08	1.10	1.10	1.10	1.09	1.07	1.13	1.10	1.14	1.49		8.36	8.41	8.14
wind	na	velocity	5.49	8.46	8.31	8.31	8.31	8.39	8.54	8.09	8.31	8.02	9.41	7.91	<b>57.54</b>		
<b>FINAL - 2019 Asian Athletics Championships (Doha, QAT)</b>														<i>CAA Hurdle Development (2019)</i>			
date	24-Apr-19	time	2.59	3.63	4.67	5.72	6.75	7.81	8.85	9.92	11.03	12.03	13.85	2 / 7	3.13	3.13	3.18
reaction time	0.152	interval		1.04	1.04	1.05	1.03	1.06	1.04	1.07	1.11	1.00	1.82		8.76	8.76	8.62
wind	1.7 m/s	velocity	5.30	8.79	8.79	8.70	8.87	8.62	8.79	8.54	8.23	9.14	7.70	7.94			
<b>Heat 1 - 2019 Asian Athletics Championships (Doha, QAT)</b>														<i>CAA Hurdle Development (2019)</i>			
date	23-Apr-19	time	2.55	3.60	4.67	5.70	6.76	7.82	8.89	9.98	11.07	12.21	13.69	7 / 3	3.15	3.19	3.32
reaction time	0.153	interval		1.05	1.07	1.03	1.06	1.06	1.07	1.09	1.09	1.14	1.48		8.70	8.60	8.26
wind	2.1 m/s	velocity	5.38	8.70	8.54	8.87	8.62	8.62	8.54	8.39	8.39	8.02	9.47	8.04			
<b>FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	13-Apr-19	time	2.62	3.70	4.74	5.78	6.82	7.86	8.94	10.02	11.12	12.22	13.67	4 / 1	3.16	3.16	3.28
reaction time	0.186	interval		1.08	1.04	1.04	1.04	1.04	1.08	1.08	1.10	1.10	1.45		8.68	8.68	8.36
wind	-0.3 m/s	velocity	5.24	8.46	8.79	8.79	8.79	8.79	8.46	8.46	8.31	8.31	9.67	8.05			
<b>Heat 2 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	13-Apr-19	time	2.62	3.67	4.73	5.78	6.82	7.88	8.96	10.06	11.20	12.39	13.98	5 / 1	3.16	3.18	3.43
reaction time	0.176	interval		1.05	1.06	1.05	1.04	1.06	1.08	1.10	1.14	1.19	1.59		8.68	8.62	7.99
wind	0.1 m/s	velocity	5.24	8.70	8.62	8.70	8.79	8.62	8.46	8.31	8.02	7.68	8.82	7.87			
<b>FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	09-Apr-19	time	2.58	3.65	4.70	5.73	6.77	7.80	8.96	10.22	11.35	12.51	14.00	9 / 2	3.15	3.23	3.55
reaction time	0.180	interval		1.07	1.05	1.03	1.04	1.03	1.16	1.26	1.13	1.16	1.49		8.70	8.49	7.72
wind	0.2 m/s	velocity	5.32	8.54	8.70	8.87	8.79	8.87	7.88	7.25	8.09	7.88	9.41	7.86			
<b>Heat 1 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	08-Apr-19	time	2.69	3.81	4.87	5.96	7.08	8.20	9.33	10.44	11.58	12.73	14.31	2 / 1	3.27	3.37	3.40
reaction time	0.290	interval		1.12	1.06	1.09	1.12	1.12	1.13	1.11	1.14	1.15	1.58		8.39	8.14	8.06
wind	-1.5 m/s	velocity	5.10	8.16	8.62	8.39	8.16	8.16	8.09	8.23	8.02	7.95	8.87	7.69			
<b>A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	20-Mar-19	time	2.55	3.62	4.68	5.69	6.74						7.62	3 / 1	3.14		
reaction time		interval		1.07	1.06	1.01	1.05					0.88	<b>PB</b>		8.73		
		velocity	5.38	8.54	8.62	9.05	8.70					11.05	7.87				
<b>A-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	24-Feb-19	time	2.60	3.69	4.73	5.77	6.81						7.70	3 / 1	3.17		
reaction time		interval		1.09	1.04	1.04	1.04					0.89			8.65		
		velocity	5.28	8.39	8.79	8.79	8.79					10.92	7.79				
<b>B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)</b>														<i>CAA Hurdle Development (2019)</i>			
date	20-Feb-19	time	2.60	3.68	4.74	5.79	6.84						7.75	4 / 1	3.19		
reaction time		interval		1.08	1.06	1.05	1.05					0.91			8.60		
		velocity	5.28	8.46	8.62	8.70	8.70					10.68	7.74				
<b>FINAL - 2018 Chinese National Championships (Taiyuan, CHN)</b>														<i>Henson (2018) - coaching observations</i>			
date	16-Sep-18	time	2.72	3.78	4.81	5.84	6.87	7.92	8.99	10.07	11.14	12.30	13.77	4 / 2	3.12	3.15	3.31
reaction time		interval		1.06	1.03	1.03	1.03	1.05	1.07	1.08	1.07	1.16	1.47		8.79	8.70	8.28
wind	-0.3 m/s	velocity	5.04	8.62	8.87	8.87	8.87	8.70	8.54	8.46	8.54	7.88	9.54	7.99			
<b>Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)</b>														<i>Henson (2018) - coaching observations</i>			
date	15-Sep-18	time	2.58	3.67	4.71	5.77	6.84	7.90	8.98	10.08	11.17	12.29	13.83	3 / 1	3.19	3.21	3.31
reaction time		interval		1.09	1.04	1.06	1.07	1.06	1.08	1.10	1.09	1.12	1.54		8.60	8.54	8.28
wind	0.7 m/s	velocity	5.32	8.39	8.79	8.62	8.54	8.62	8.46	8.31	8.39	8.16	9.10	7.95			
<b>FINAL - 2018 Asian Games (Jakarta, INA)</b>														<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>			
date	28-Aug-18	time	2.63	3.66	4.70	5.76	6.79	7.85	8.90	9.98	11.06	12.19	13.65	1 / 6	3.13	3.14	3.29
reaction time	0.221	interval		1.03	1.04	1.06	1.03	1.06	1.05	1.08	1.08	1.13	1.46	<b>=PB</b>	8.76	8.73	8.33
wind	0.0 m/s	velocity	5.22	8.87	8.79	8.62	8.87	8.62	8.70	8.46	8.46	8.09	9.60	8.06			

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



reaction time	interval	1.08	1.06	1.09	1.07	1.07	1.09	1.09	1.11	1.12	1.51			3.23	3.23	3.32	
wind	-0.3 m/s	velocity	5.10	8.46	8.62	8.39	8.54	8.54	8.39	8.39	8.23	8.16	9.28	7.87	8.49	8.49	8.26
<b>FINAL - 2017 Chinese National Games (Tianjin, CHN)</b>													<i>Henson (2017) - coaching observations</i>				
date	03-Sep-17	time	2.67	3.75	4.82	5.87	6.94	7.99	9.09	10.16	11.26	12.36		13.78	4 / 3		
reaction time	interval	1.08	1.07	1.05	1.07	1.05	1.10	1.07	1.10	1.10	1.42			3.20	3.22	3.27	
wind	0.3 m/s	velocity	5.14	8.46	8.54	8.70	8.54	8.70	8.31	8.54	8.31	8.31	9.87	7.98	8.57	8.52	8.39
<b>FINAL - 2016 Shanghai Golden Grand Prix (Shanghai, CHN)</b>													<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>				
date	14-May-16	time	2.54	3.60	4.64	5.68	6.74	7.82	8.90	10.02	11.10	12.22		13.79	1 / 7		
reaction time	0.142	interval	1.06	1.04	1.04	1.06	1.08	1.08	1.12	1.08	1.12	1.57			3.14	3.22	3.32
wind	1.2 m/s	velocity	5.40	8.62	8.79	8.79	8.62	8.46	8.46	8.16	8.46	8.16	8.93	7.98	8.73	8.52	8.26
<b>FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)</b>													<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>				
date	08-May-16	time	2.69	3.72	4.76	5.78	6.82	7.84	8.90	9.94	11.02	12.12		13.59	8 / 2		
reaction time	0.162	interval	1.03	1.04	1.02	1.04	1.02	1.06	1.04	1.08	1.10	1.47			3.09	3.12	3.22
wind	-0.6 m/s	velocity	5.10	8.87	8.79	8.96	8.79	8.96	8.62	8.79	8.46	8.31	9.54	8.09	8.87	8.79	8.52
<b>Zhang Jinzhao (CHN) (1999)</b>																	
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)</b>																	
date	25-Jun-21	time	2.70	3.82	4.88	5.95	7.04	8.12	9.23	10.34	11.46	12.59		14.09	4 / 3		
reaction time	0.189	interval	1.12	1.06	1.07	1.09	1.08	1.11	1.11	1.12	1.13	1.50			3.25	3.28	3.36
wind	-1.2 m/s	velocity	5.08	8.16	8.62	8.54	8.39	8.46	8.23	8.23	8.16	8.09	9.35	7.81	8.44	8.36	8.16
<b>FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)</b>																	
date	12-Jun-21	time	2.77	3.87	4.95	6.01	7.07	8.14	9.19	10.28	11.38	12.47		13.94	4 / 3		
reaction time	0.190	interval	1.10	1.08	1.06	1.06	1.07	1.05	1.09	1.10	1.09	1.47	PB		3.24	3.18	3.28
wind	0.9 m/s	velocity	4.95	8.31	8.46	8.62	8.62	8.54	8.70	8.39	8.31	8.39	9.54	7.89	8.46	8.62	8.36
<b>Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)</b>																	
date	12-Jun-21	time	2.64	3.76	4.84	5.92	7.00	8.09	9.17	10.28	11.39	12.51		14.10	3 / 2		
reaction time	0.172	interval	1.12	1.08	1.08	1.08	1.09	1.08	1.11	1.11	1.12	1.59			3.28	3.25	3.34
wind	-0.8 m/s	velocity	5.20	8.16	8.46	8.46	8.46	8.39	8.46	8.23	8.23	8.16	8.82	7.80	8.36	8.44	8.21
<b>FINAL - 2021 East China District Meeting (Zhaoqing, CHN)</b>																	
date	24-Apr-21	time	2.74	3.84	4.94	5.99	7.06	8.14	9.22	10.29	11.40	12.52		14.00	5 / 3		
reaction time	0.208	interval	1.10	1.10	1.05	1.07	1.08	1.08	1.07	1.11	1.12	1.48	PB		3.25	3.23	3.30
wind	-0.3 m/s	velocity	5.01	8.31	8.31	8.70	8.54	8.46	8.46	8.54	8.23	8.16	9.47	7.86	8.44	8.49	8.31
<b>Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)</b>																	
date	24-Apr-21	time	2.74	3.84	4.91	5.99	7.07	8.14	9.24	10.34	11.45	12.59		14.09	3 / 2		
reaction time	0.192	interval	1.10	1.07	1.08	1.08	1.07	1.10	1.10	1.11	1.14	1.50			3.25	3.25	3.35
wind	-1.1 m/s	velocity	5.01	8.31	8.54	8.46	8.46	8.54	8.31	8.31	8.23	8.02	9.35	7.81	8.44	8.44	8.19
<b>FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)</b>																	
date	08-Apr-21	time	2.76	3.86	4.96	6.04	7.12	8.22	9.32	10.42	11.52	12.64		14.12	9 / 3		
reaction time	interval	1.10	1.10	1.08	1.08	1.10	1.10	1.10	1.10	1.10	1.12	1.48	PB		3.28	3.28	3.32
wind	-0.1 m/s	velocity	4.97	8.31	8.31	8.46	8.46	8.31	8.31	8.31	8.31	8.16	9.47	7.79	8.36	8.36	8.26
<b>Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)</b>																	
date	08-Jul-19	time	2.82	3.95	5.06	6.17	7.29	8.41	9.54	10.69	11.85	13.03		14.55	4 / 6		
reaction time	0.233	interval	1.13	1.11	1.11	1.12	1.12	1.13	1.15	1.16	1.18	1.52	PB		3.35	3.37	3.49
wind	-0.5 m/s	velocity	4.87	8.09	8.23	8.23	8.16	8.16	8.09	7.95	7.88	7.75	9.22	7.56	8.19	8.14	7.86
<b>Zhang Shuai (CHN) (1996)</b>																	
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)</b>																	
date	08-Jul-19	time	2.69	3.84	5.01	6.14	7.26	8.37	9.53	10.69	11.86	13.05		14.67	8 / 7		
reaction time	0.260	interval	1.15	1.17	1.13	1.12	1.11	1.16	1.16	1.17	1.19	1.62			3.45	3.39	3.52
wind	-0.5 m/s	velocity	5.10	7.95	7.81	8.09	8.16	8.23	7.88	7.88	7.81	7.68	8.65	7.50	7.95	8.09	7.79
<b>FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)</b>																	
date	30-May-19	time	2.68	3.78	4.88	5.97	7.07	8.19	9.30	10.41	11.54	12.72		14.27	4 / 8		
reaction time	0.174	interval	1.10	1.10	1.09	1.10	1.12	1.11	1.11	1.13	1.18	1.55			3.29	3.33	3.42
wind	0.0 m/s	velocity	5.12	8.31	8.31	8.39	8.31	8.16	8.23	8.23	8.09	7.75	9.05	7.71	8.33	8.23	8.02
<b>B-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)</b>																	
date	4-Mar-19	time	2.70	3.79	4.96	6.08	7.21							8.26	4 / 4		
reaction time	interval	1.09	1.17	1.12	1.13							1.05			3.38		
	velocity	5.08	8.39	7.81	8.16	8.09						9.26	7.26		8.11		
<b>Zhang Shuaiyin (CHN) (1998)</b>																	
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Decathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)</b>																	
date	27-Jun-21	time	2.80	3.97	5.14	6.31	7.47	8.64	9.81	10.99	12.19	13.45		15.09	6 / 3		
reaction time	0.163	interval	1.17	1.17	1.17	1.16	1.17	1.17	1.18	1.20	1.26	1.64			3.51	3.50	3.64
wind	-0.2 m/s	velocity	4.90	7.81	7.81	7.81	7.88	7.81	7.81	7.75	7.62	7.25	8.55	7.29	7.81	7.83	7.53

**Zhang Tao (CHN) (1997)**

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
<b>Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)</b>																<i>CAA Hurdle Development (2021)</i>		
date	25-Jun-21	time	2.70	3.80	4.92	6.04	7.14	8.24	9.38	10.51	11.66	12.85		14.42	5 / 4			
reaction time	0.189	interval		1.10	1.12	1.12	1.10	1.10	1.14	1.13	1.15	1.19	1.57			3.34	3.34	3.47
wind	-0.2 m/s	velocity	5.08	8.31	8.16	8.16	8.31	8.31	8.02	8.09	7.95	7.68	8.93	7.63		8.21	8.21	7.90
<b>Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)</b>																<i>CAA Hurdle Development (2021)</i>		
date	24-Apr-21	time	2.72	3.91	5.04	6.21	7.38	8.54	9.73	10.93	12.16	13.37		15.13	7 / 7			
reaction time	0.186	interval		1.13	1.08	1.17	1.17	1.16	1.19	1.20	1.23	1.21	1.76			3.49	3.52	3.64
wind	-1.2 m/s	velocity	5.04	7.68	8.09	7.81	7.81	7.88	7.68	7.62	7.43	7.55	7.97	7.27		7.86	7.79	7.53
<b>FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)</b>																<i>CAA Hurdle Development (2019)</i>		
date	24-Aug-19	time	2.72	3.85	4.93	6.03	7.11	8.21	9.31	10.42	11.55	12.67		14.18	4 / 5			
reaction time	0.181	interval		1.13	1.08	1.10	1.08	1.10	1.10	1.11	1.13	1.12	1.51			3.31	3.28	3.36
wind	-0.1 m/s	velocity	5.04	8.09	8.46	8.31	8.46	8.31	8.31	8.23	8.09	8.16	9.28	7.76		8.28	8.36	8.16
<b>Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)</b>																<i>CAA Hurdle Development (2019)</i>		
date	23-Aug-19	time	2.74	3.85	4.95	6.05	7.14	8.22	9.33	10.46	11.58	12.75		14.30	4 / 1			
reaction time	0.180	interval		1.11	1.10	1.10	1.09	1.08	1.11	1.13	1.12	1.17	1.55			3.31	3.28	3.42
wind	-0.2 m/s	velocity	5.01	8.23	8.31	8.31	8.39	8.46	8.23	8.09	8.16	7.81	9.05	7.69		8.28	8.36	8.02
<b>FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)</b>																<i>CAA Hurdle Development (2019)</i>		
date	02-Aug-19	time	2.69	3.78	4.87	5.94	7.01	8.07	9.14	10.24	11.34	12.48		13.98	6 / 5			
reaction time	0.159	interval		1.09	1.09	1.07	1.07	1.06	1.07	1.10	1.10	1.14	1.50			3.25	3.20	3.34
wind	0.0 m/s	velocity	5.10	8.39	8.39	8.54	8.54	8.62	8.54	8.31	8.31	8.02	9.35	7.87		8.44	8.57	8.21
<b>Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)</b>																<i>CAA Hurdle Development (2019)</i>		
date	02-Aug-19	time	2.70	3.82	4.90	5.96	7.07	8.16	9.24	10.36	11.48	12.65		14.20	4 / 2			
reaction time	0.174	interval		1.12	1.08	1.06	1.11	1.09	1.08	1.12	1.12	1.17	1.55			3.26	3.28	3.41
wind	-0.2 m/s	velocity	5.08	8.16	8.46	8.62	8.23	8.39	8.46	8.16	8.16	7.81	9.05	7.75		8.41	8.36	8.04
<b>Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)</b>																<i>CAA Hurdle Development (2019)</i>		
date	08-Jul-19	time	2.65	3.75	4.82	5.91	6.96	7.99	9.07	10.16	11.26	12.41		13.89	2 / 1			
reaction time	0.158	interval		1.10	1.07	1.09	1.05	1.03	1.08	1.09	1.10	1.15	1.48			3.26	3.16	3.34
wind	-0.5 m/s	velocity	5.18	8.31	8.54	8.39	8.70	8.87	8.46	8.39	8.31	7.95	9.47	7.92		8.41	8.68	8.21
<b>FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)</b>																<i>CAA Hurdle Development (2019)</i>		
date	23-May-19	time	2.70	3.82	4.92	6.00	7.08	8.16	9.22	10.32	11.42	12.52		13.99	7 / 6			
reaction time	0.174	interval		1.12	1.10	1.08	1.08	1.08	1.06	1.10	1.10	1.10	1.47			3.30	3.22	3.30
wind	2.5 m/s	velocity	5.08	8.16	8.31	8.46	8.46	8.46	8.62	8.31	8.31	8.31	9.54	7.86		8.31	8.52	8.31
<b>FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)</b>																<i>CAA Hurdle Development (2019)</i>		
date	13-Apr-19	time	2.76	3.86	4.96	6.06	7.14	8.23	9.32	10.42	11.52	12.66		14.11	9 / 4			
reaction time	0.216	interval		1.10	1.10	1.10	1.08	1.09	1.09	1.10	1.10	1.14	1.45			3.30	3.26	3.34
wind	-0.3 m/s	velocity	4.97	8.31	8.31	8.31	8.46	8.39	8.39	8.31	8.31	8.02	9.67	7.80		8.31	8.41	8.21
<b>Heat 3 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)</b>																<i>CAA Hurdle Development (2019)</i>		
date	13-Apr-19	time	2.72	3.82	4.90	5.98	7.06	8.16	9.26	10.40	11.52	12.68		14.16	8 / 3			
reaction time	0.198	interval		1.10	1.08	1.08	1.08	1.10	1.10	1.14	1.12	1.16	1.48			3.26	3.28	3.42
wind	0.0 m/s	velocity	5.04	8.31	8.46	8.46	8.46	8.31	8.31	8.02	8.16	7.88	9.47	7.77		8.41	8.36	8.02
<b>FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)</b>																<i>CAA Hurdle Development (2019)</i>		
date	09-Apr-19	time	2.70	3.81	4.90	5.99	7.07	8.16	9.26	10.34	11.44	12.55		14.03	5 / 3			
reaction time	0.195	interval		1.11	1.09	1.09	1.08	1.09	1.10	1.08	1.10	1.11	1.48			3.29	3.27	3.29
wind	0.2 m/s	velocity	5.08	8.23	8.39	8.39	8.46	8.39	8.31	8.46	8.31	8.23	9.47	7.84		8.33	8.39	8.33
<b>Heat 2 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)</b>																<i>CAA Hurdle Development (2019)</i>		
date	08-Apr-19	time	2.72	3.82	4.90	5.98	7.06	8.14	9.26	10.34	11.44	12.58		14.05	7 / 1			
reaction time	0.200	interval		1.10	1.08	1.08	1.08	1.08	1.12	1.08	1.10	1.14	1.47			3.26	3.28	3.32
wind	-0.6 m/s	velocity	5.04	8.31	8.46	8.46	8.46	8.46	8.16	8.46	8.31	8.02	9.54	7.83		8.41	8.36	8.26
<b>A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)</b>																<i>CAA Hurdle Development (2019)</i>		
date	20-Feb-19	time	2.71	3.82	4.92	6.00	7.14							8.12	3 / 4			
reaction time		interval		1.11	1.10	1.08	1.14						0.98			3.29		
		velocity	5.06	8.23	8.31	8.46	8.02						9.92	7.39		8.33		
<b>FINAL - 2018 Chinese National Championships (Taiyuan, CHN)</b>																<i>Henson (2018) - coaching observations</i>		
date	16-Sep-18	time	2.80	3.89	4.96	6.02	7.12	8.19	9.29	10.39	11.50	12.53		16.34	3 / 8			
reaction time		interval		1.09	1.07	1.06	1.10	1.07	1.10	1.10	1.11	1.03	3.81			3.22	3.27	3.24
wind	-0.3 m/s	velocity	4.90	8.39	8.54	8.62	8.31	8.54	8.31	8.31	8.23	8.87	3.68	6.73		8.52	8.39	8.46
<b>Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)</b>																<i>Henson (2018) - coaching observations</i>		
date	15-Sep-18	time	2.77	3.85	4.90	5.99	7.50	8.11	9.18	10.29	11.36	12.51		14.00	8 / 2			
reaction time		interval		1.08	1.05	1.09	1.51	0.61	1.07	1.11	1.07	1.15	1.49			3.22	3.19	3.33

wind	-0.2 m/s	velocity	4.95	8.46	8.70	8.39	6.05	14.98	8.54	8.23	8.54	7.95	9.41	7.86	8.52	8.60	8.23
<b>FINAL - 2018 National Grand Prix Final (Guiyang, CHN) (Altitude)</b> <i>Zhang (2019) - comparative analysis characteristics Chinese elite men's 110m hurdles in different age groups</i>																	
date	17-Jun-18	time	2.71	3.78	4.86	5.91	6.99	8.05	9.14	10.21	11.32	12.41	13.92	/ 2			
reaction time		interval		1.07	1.08	1.05	1.08	1.06	1.09	1.07	1.11	1.09	1.51		3.20	3.23	3.27
wind	-0.3 m/s	velocity	5.06	8.54	8.46	8.70	8.46	8.62	8.39	8.54	8.23	8.39	9.28	7.90	8.57	8.49	8.39

<b>Zhang Xiangyu (CHN) (1991)</b>																	
<b>FINAL - 2018 National Grand Prix Final (Guiyang, CHN) (Altitude)</b> <i>Zhang (2019) - comparative analysis characteristics Chinese elite men's 110m hurdles in different age groups</i>																	
date	17-Jun-18	time	2.71	3.80	4.89	5.97	7.08	8.16	9.27	10.37	11.50	12.62	14.15	/ 7			
reaction time		interval		1.09	1.09	1.08	1.11	1.08	1.11	1.10	1.13	1.12	1.53		3.26	3.30	3.35
wind	-0.3 m/s	velocity	5.06	8.39	8.39	8.46	8.23	8.46	8.23	8.31	8.09	8.16	9.16	7.77	8.41	8.31	8.19

<b>Zhang Zhen (CHN) (1996)</b>																	
<b>Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)</b> <i>CAA Hurdle Development (2019)</i>																	
date	11-Jul-19	time	2.83	4.00	5.13	6.29	7.43	8.59	9.77	10.96	12.18	13.42	15.10	3 / 4			
reaction time	0.169	interval		1.17	1.13	1.16	1.14	1.16	1.18	1.19	1.22	1.24	1.68		3.46	3.48	3.65
wind	-0.1 m/s	velocity	4.85	7.81	8.09	7.88	8.02	7.88	7.75	7.68	7.49	7.37	8.35	7.28	7.92	7.88	7.51

<b>Zhao Guorui (CHN) (1996)</b>																	
<b>Decathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)</b> <i>CAA Hurdle Development (2019)</i>																	
date	23-Aug-19	time	2.84	4.07	5.29	6.52	7.81	9.06	10.31	11.63	12.90	14.25	16.02	8 / 5			
reaction time	0.207	interval		1.23	1.22	1.23	1.29	1.25	1.25	1.32	1.27	1.35	1.77		3.68	3.79	3.94
wind	?? m/s	velocity	4.83	7.43	7.49	7.43	7.09	7.31	7.31	6.92	7.20	6.77	7.92	6.87	7.45	7.23	6.96

<b>Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)</b> <i>CAA Hurdle Development (2019)</i>																	
date	11-Jul-19	time	2.78	4.02	5.24	6.44	7.64	8.86	10.09	11.33	12.59	13.86	15.63	6 / 5			
reaction time	0.198	interval		1.24	1.22	1.20	1.20	1.22	1.23	1.24	1.26	1.27	1.77	<b>PB</b>	3.66	3.65	3.77
wind	-0.1 m/s	velocity	4.94	7.37	7.49	7.62	7.62	7.49	7.43	7.37	7.25	7.20	7.92	7.04	7.49	7.51	7.27

<b>Zhao Jiefu (CHN) (2001)</b>																	
<b>Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)</b> <i>CAA Hurdle Development (2021)</i>																	
date	25-Jun-21	time	2.79	3.94	5.05	6.18	7.31	8.43	9.58	10.71	11.91	13.11	14.77	9 / 7			
reaction time	0.214	interval		1.15	1.11	1.13	1.13	1.12	1.15	1.13	1.20	1.20	1.66		3.39	3.40	3.53
wind	-1.2 m/s	velocity	4.92	7.95	8.23	8.09	8.09	8.16	7.95	8.09	7.62	7.62	8.45	7.45	8.09	8.06	7.77

<b>Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)</b> <i>CAA Hurdle Development (2021)</i>																	
date	24-Apr-21	time	2.80	3.96	5.08	6.23	7.35	8.46	9.60	10.74	11.88	13.08	14.69	2 / 5			
reaction time	0.213	interval		1.16	1.12	1.15	1.12	1.11	1.14	1.14	1.14	1.20	1.61		3.43	3.37	3.48
wind	-1.2 m/s	velocity	4.90	7.88	8.16	7.95	8.16	8.23	8.02	8.02	8.02	7.62	8.71	7.49	7.99	8.14	7.88

<b>Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)</b> <i>CAA Hurdle Development (2019)</i>																	
date	08-Jul-19	time	2.83	3.99	5.12	6.26	7.37	8.51	9.66	10.79	11.97	13.16	14.78	2 / 7			
reaction time	0.218	interval		1.16	1.13	1.14	1.11	1.14	1.15	1.13	1.18	1.19	1.62		3.43	3.40	3.50
wind	0.4 m/s	velocity	4.85	7.88	8.09	8.02	8.23	8.02	7.95	8.09	7.75	7.68	8.65	7.44	7.99	8.06	7.83

<b>Zhao Pengchuan (CHN) (1993)</b>																	
<b>Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)</b> <i>CAA Hurdle Development (2019)</i>																	
date	02-Aug-19	time	2.69	3.82	4.93	6.01	7.12	8.21	9.32	10.43	11.56	12.69	14.25	4 / 4			
reaction time	0.168	interval		1.13	1.11	1.08	1.11	1.09	1.11	1.11	1.13	1.13	1.56		3.32	3.31	3.37
wind	-0.3 m/s	velocity	5.10	8.09	8.23	8.46	8.23	8.39	8.23	8.23	8.09	8.09	8.99	7.72	8.26	8.28	8.14

<b>FINAL - 2019 Chinese National Championships (Shenyang, CHN)</b> <i>CAA Hurdle Development (2019)</i>																	
date	08-Jul-19	time	2.67	3.77	4.84	5.90	6.96	8.02	9.11	10.22	11.35	12.46	14.04	4 / 7			
reaction time	0.164	interval		1.10	1.07	1.06	1.06	1.06	1.09	1.11	1.13	1.11	1.58		3.23	3.21	3.35
wind	0.1 m/s	velocity	5.14	8.31	8.54	8.62	8.62	8.62	8.39	8.23	8.09	8.23	8.87	7.83	8.49	8.54	8.19

<b>Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)</b> <i>CAA Hurdle Development (2019)</i>																	
date	08-Jul-19	time	2.65	3.77	4.82	5.89	6.95	8.02	9.10	10.18	11.26	12.37	13.85	3 / 1			
reaction time	0.168	interval		1.12	1.05	1.07	1.06	1.07	1.08	1.08	1.08	1.11	1.48		3.24	3.21	3.27
wind	0.4 m/s	velocity	5.18	8.16	8.70	8.54	8.62	8.54	8.46	8.46	8.46	8.23	9.47	7.94	8.46	8.54	8.39

<b>FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)</b> <i>CAA Hurdle Development (2019)</i>																	
date	30-May-19	time	2.67	3.77	4.84	5.93	6.99	8.07	9.16	10.26	11.35	12.46	13.94	6 / 1			
reaction time	0.165	interval		1.10	1.07	1.09	1.06	1.08	1.09	1.10	1.09	1.11	1.48		3.26	3.23	3.30
wind	0.0 m/s	velocity	5.14	8.31	8.54	8.39	8.62	8.46	8.39	8.31	8.39	8.23	9.47	7.89	8.41	8.49	8.31

<b>FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)</b> <i>CAA Hurdle Development (2019)</i>																	
date	13-Apr-19	time	2.68	3.81	4.90	5.96	7.06	8.18	9.28	10.42	11.54	12.68	14.24	7 / 7			
reaction time	0.176	interval		1.13	1.09	1.06	1.10	1.12	1.10	1.14	1.12	1.14	1.56		3.28	3.32	3.40
wind	-0.3 m/s	velocity	5.12	8.09	8.39	8.62	8.31	8.16	8.31	8.02	8.16	8.02	8.99	7.72	8.36	8.26	8.06

<b>Heat 5 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)</b> <i>CAA Hurdle Development (2019)</i>																	
date	13-Apr-19	time	2.62	3.73	4.80	5.85	6.92	8.00	9.08	10.16	11.30	12.44	14.00	6 / 1			
reaction time	0.161	interval		1.11	1.07	1.05	1.07	1.08	1.08	1.08	1.14	1.14	1.56		3.23	3.23	3.36

wind	0.6 m/s	velocity	5.24	8.23	8.54	8.70	8.54	8.46	8.46	8.46	8.02	8.02	8.99	7.86		8.49	8.49	8.16
<b>Heat 1 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	08-Apr-19	time	2.78	3.89	4.98	6.06	7.18	8.26	9.38	10.48	11.60	12.75		14.38	3 / 2			
reaction time	0.288	interval	1.11	1.09	1.08	1.12	1.08	1.12	1.10	1.12	1.15	1.63				3.28	3.32	3.37
wind	-1.5 m/s	velocity	4.94	8.23	8.39	8.46	8.16	8.46	8.16	8.31	8.16	7.95	8.60	7.65		8.36	8.26	8.14
<b>A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	20-Mar-19	time	2.64	3.75	4.84	5.92	7.02							8.00	2 / 4			
reaction time		interval	1.11	1.09	1.08	1.10						0.98				3.28		
		velocity	5.20	8.23	8.39	8.46	8.31					9.92	7.50			8.36		
<b>A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	4-Mar-19	time	2.62	3.72	4.80	5.86	6.90							7.82	3 / 1			
reaction time		interval	1.10	1.08	1.06	1.04						0.92				3.24		
		velocity	5.24	8.31	8.46	8.62	8.79					10.57	7.67			8.46		
<b>A-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	28-Feb-19	time	2.61	3.71	4.77	5.85	6.91							7.84	4 / 2			
reaction time		interval	1.10	1.06	1.08	1.06						0.93				3.24		
		velocity	5.26	8.31	8.62	8.46	8.62					10.45	7.65			8.46		
<b>FINAL - 2018 Chinese National Championships (Taiyuan, CHN)</b>																		
Henson (2018) - coaching observations																		
date	16-Sep-18	time	2.67	3.79	4.87	5.94	7.06	8.09	9.20	10.29	11.39	12.51		13.99	7 / 3			
reaction time		interval	1.12	1.08	1.07	1.12	1.03	1.11	1.09	1.10	1.12	1.48				3.27	3.26	3.31
wind	-0.3 m/s	velocity	5.14	8.16	8.46	8.54	8.16	8.87	8.23	8.39	8.31	8.16	9.47	7.86		8.39	8.41	8.28
<b>Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)</b>																		
Henson (2018) - coaching observations																		
date	15-Sep-18	time	2.67	3.77	4.84	5.92	6.99	8.09	9.17	10.28	11.40	12.50		14.03	2 / 3			
reaction time		interval	1.10	1.07	1.08	1.07	1.10	1.10	1.08	1.11	1.12	1.10	1.53			3.25	3.25	3.33
wind	-0.2 m/s	velocity	5.14	8.31	8.54	8.46	8.54	8.31	8.46	8.23	8.16	8.31	9.16	7.84		8.44	8.44	8.23
<b>FINAL - 2017 Chinese National Games (Tianjin, CHN)</b>																		
Henson (2017) - coaching observations																		
date	03-Sep-17	time	2.63	3.74	4.82	5.89	6.97	8.04	9.12	10.22	11.32	12.46		13.94	3 / 4			
reaction time		interval	7 steps	1.11	1.08	1.07	1.08	1.07	1.08	1.10	1.10	1.14	1.48			3.26	3.23	3.34
wind	0.3 m/s	velocity	5.22	8.23	8.46	8.54	8.46	8.54	8.46	8.31	8.31	8.02	9.47	7.89		8.41	8.49	8.21
<b>Zheng Wang (CHN) (2003)</b>																		
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																		
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)																		
CAA Hurdle Development (2019)																		
date	14-Aug-19	time	2.64	3.74	4.80	5.87	6.93	8.02	9.09	10.18	11.33	12.46		14.06	7 / 2			
reaction time	0.167	interval	1.10	1.06	1.07	1.06	1.09	1.07	1.09	1.15	1.13	1.60				3.23	3.22	3.37
wind	-0.1 m/s	velocity	5.20	8.31	8.62	8.54	8.62	8.39	8.54	8.39	7.95	8.09	8.76	7.82		8.49	8.52	8.14
<b>Zhong Shulun (CHN) (2003)</b>																		
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																		
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)																		
CAA Hurdle Development (2019)																		
date	14-Aug-19	time	2.80	3.97	5.12	6.23	7.36	8.51	9.66	10.79	11.93	13.10		14.72	8 / 4			
reaction time	0.225	interval	1.17	1.15	1.11	1.13	1.15	1.15	1.13	1.14	1.17	1.62				3.43	3.43	3.44
wind	-0.1 m/s	velocity	4.90	7.81	7.95	8.23	8.09	7.95	7.95	8.09	8.02	7.81	8.65	7.47		7.99	7.99	7.97
<b>Zhou Jun (CHN) (2002)</b>																		
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																		
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)																		
CAA Hurdle Development (2019)																		
date	14-Aug-19	time	2.83	3.99	5.11	6.25	7.36	8.51	9.66	10.79	11.98	13.16		14.80	9 / 6			
reaction time	0.173	interval	1.16	1.12	1.14	1.11	1.15	1.15	1.13	1.19	1.18	1.64				3.42	3.41	3.50
wind	-0.1 m/s	velocity	4.85	7.88	8.16	8.02	8.23	7.95	7.95	8.09	7.68	7.75	8.55	7.43		8.02	8.04	7.83
<b>Zhoya, Sasha (FRA) (2002)</b>																		
<b>H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10</b>																		
FINAL - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																		
Henson (2023) - Athlete First: 2023 year end hurdle report																		
date	21-Aug-23	time	2.58	3.62	4.64	5.68	6.68	7.70	8.72	9.74	10.76	11.86		13.26	7 / 6			
reaction time	0.166	interval	7 steps	1.04	1.02	1.04	1.00	1.02	1.02	1.02	1.02	1.10	1.40			3.10	3.04	3.14
wind	0.0 m/s	velocity	5.32	8.79	8.96	8.79	9.14	8.96	8.96	8.96	8.96	8.31	10.01	8.30		8.85	9.02	8.73
<b>Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>																		
Henson (2023) - Athlete First: 2023 year end hurdle report																		
date	21-Aug-23	time	2.50	3.53	4.56	5.56	6.58	7.58	8.62	9.64	10.66	11.73		13.15	7 / 2			
reaction time	0.129	interval	7 steps	1.03	1.03	1.00	1.02	1.00	1.04	1.02	1.02	1.07	1.42	<b>PB</b>		3.06	3.06	3.11
wind	-0.2 m/s	velocity	5.49	8.87	8.87	9.14	8.96	9.14	8.79	8.96	8.96	8.54	9.87	8.37		8.96	8.96	8.82
<b>Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)</b>																		
Henson (2023) - Athlete First: 2023 year end hurdle report																		
date	20-Aug-23	time	2.56	3.63	4.70	5.72	6.73	7.75	8.78	9.80	10.88	11.93		13.35	7 / 3			
reaction time	0.157	interval	7 steps	1.07	1.07	1.02	1.01	1.02	1.03	1.02	1.08	1.05	1.42			3.16	3.06	3.15
wind	-0.3 m/s	velocity	5.36	8.54	8.54	8.96	9.05	8.96	8.87	8.96	8.46	8.70	9.87	8.24		8.68	8.96	8.70
<b>FINAL - 2023 French National Championships (Albi, FRA) (TV Analysis)</b>																		
Henson (2023) - Athlete First: 2023 year end hurdle report																		
date	29-Jul-23	time	2.50	3.54	4.54	5.52	6.50	7.50	8.52	9.52	10.54	11.58		13.01	6 / 1			
reaction time	0.187	interval	7 steps	1.04	1.00	0.98	0.98	1.00	1.02	1.00	1.02	1.04	1.43			3.02	3.00	3.06
wind	2.3 m/s	velocity	5.49	8.79	9.14	9.33	9.33	9.14	8.96	9.14	8.96	8.79	9.80	8.46		9.08	9.14	8.96

Heat 2 - 2023 French National Championships (Albi, FRA) (TV Analysis)															Henson (2023) - Athlete First: 2023 year end hurdle report					
date	29-Jul-23	time	2.52	3.56	4.58	5.56	6.52	7.52	8.52	9.52	10.54	11.58		13.01	6 / 1					
reaction time	0.173	interval	7 steps	1.04	1.02	0.98	0.96	1.00	1.00	1.00	1.02	1.04	1.43			3.04	2.96	3.06		
wind	5.3 m/s	velocity	5.44	8.79	8.96	9.33	9.52	9.14	9.14	9.14	8.96	8.79	9.80	8.46		9.02	9.26	8.96		

FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)															Henson (2022) - Athlete First: 2022 year end hurdle report					
date	17-Aug-22	time	2.52	3.58	4.62	5.64	6.66	7.68	8.72	9.78	10.86	11.92		16.51	7 / 8					
reaction time	0.153	interval	7 steps	1.06	1.04	1.02	1.02	1.02	1.04	1.06	1.08	1.06	4.59			3.12	3.08	3.20		
wind	-0.2 m/s	velocity	5.44	8.62	8.79	8.96	8.96	8.79	8.62	8.46	8.62	8.62	3.05	6.66		8.79	8.90	8.57		

FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)															Henson (2022) - Athlete First: 2022 year end hurdle report					
date	10-Aug-22	time	2.50	3.53	4.56	5.56	6.56	7.56	8.60	9.63	10.66	11.73		13.21	2 / 5					
reaction time	0.138	interval	7 steps	1.03	1.03	1.00	1.00	1.00	1.04	1.03	1.03	1.07	1.48			3.06	3.04	3.13		
wind	0.6 m/s	velocity	5.49	8.87	8.87	9.14	9.14	9.14	8.79	8.87	8.87	8.54	9.47	8.33		8.96	9.02	8.76		

Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															Henson (2022) - Athlete First: 2022 year end hurdle report					
date	17-Jul-22	time	2.50	3.63	4.70	5.76	6.80	7.83	8.83	9.88	10.96	12.00		13.47	8 / 5					
reaction time	0.154	interval	7 steps	1.13	1.07	1.06	1.04	1.03	1.00	1.05	1.08	1.04	1.47			3.26	3.07	3.17		
wind	-0.6 m/s	velocity	5.49	8.09	8.54	8.62	8.79	8.87	9.14	8.70	8.46	8.79	9.54	8.17		8.41	8.93	8.65		

Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)															Henson (2022) - Athlete First: 2022 year end hurdle report					
date	16-Jul-22	time	2.46	3.53	4.60	5.60	6.63	7.66	8.70	9.80	10.86	12.00		13.48	6 / 3					
reaction time	0.132	interval	7 steps	1.07	1.07	1.00	1.03	1.03	1.04	1.10	1.06	1.14	1.48			3.14	3.10	3.30		
wind	-0.3 m/s	velocity	5.58	8.54	8.54	9.14	8.87	8.87	8.79	8.31	8.62	8.02	9.47	8.16		8.73	8.85	8.31		

FINAL - 2021 World Athletics U20 Championships (Nairobi, KEN) (99.1cm) (Altitude) (TV Analysis)															Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record					
date	21-Aug-21	time	2.32	3.36	4.32	5.28	6.24	7.20	8.20	9.20	10.16	11.16		12.72	4 / 1					
reaction time	0.138	interval	7 steps	1.04	0.96	0.96	0.96	0.96	1.00	1.00	0.96	1.00	1.56	<b>WU20R</b>		2.96	2.92	2.96		
wind	1.0 m/s	velocity	5.91	8.79	9.52	9.52	9.52	9.52	9.14	9.14	9.52	9.14	8.99	8.65		9.26	9.39	9.26		

Semi-Final 2 - 2021 World Athletics U20 Championships (Nairobi, KEN) (99.1cm) (Altitude) (TV Analysis)															Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record					
date	20-Aug-21	time	2.36	3.36	4.36	5.34	6.32	7.28	8.26	9.26	10.28	11.32		12.93	6 / 1					
reaction time	0.160	interval	7 steps	1.00	1.00	0.98	0.98	0.96	0.98	1.00	1.02	1.04	1.61	<b>WU20R</b>		2.98	2.92	3.06		
wind	-0.4 m/s	velocity	5.81	9.14	9.14	9.33	9.33	9.52	9.33	9.14	8.96	8.79	8.71	8.51		9.20	9.39	8.96		

Heat 3 - 2021 World Athletics U20 Championships (Nairobi, KEN) (99.1cm) (Altitude) (TV Analysis)															Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record					
date	20-Aug-21	time	2.43	3.50	4.50	5.50	6.50	7.50	8.50	9.52	10.54	11.58		13.12	4 / 1					
reaction time	0.175	interval	7 steps	1.07	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.54			3.07	3.00	3.08		
wind	0.3 m/s	velocity	5.65	8.54	9.14	9.14	9.14	9.14	9.14	8.96	8.96	8.79	9.10	8.38		8.93	9.14	8.90		

FINAL - 2021 European U20 Championships (Tallinn, EST) (99.1cm) (TV Analysis)															Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record					
date	17-Jul-21	time	2.48	3.48	4.48	5.48	6.48	7.48	8.48	9.48	10.52	11.52		13.05	4 / 1					
reaction time	0.196	interval	7 steps	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00	1.53	<b>CR</b>		3.00	3.00	3.04		
wind	0.2 m/s	velocity	5.53	9.14	9.14	9.14	9.14	9.14	9.14	9.14	8.79	9.14	9.16	8.43		9.14	9.14	9.02		

Semi-Final 3 - 2021 European U20 Championships (Tallinn, EST) (99.1cm) (TV Analysis)															Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record					
date	16-Jul-21	time	2.48	3.48	4.48	5.46	6.42	7.40	8.38	9.38	10.40	11.44		12.98	5 / 1					
reaction time	0.219	interval	7 steps	1.00	1.00	0.98	0.96	0.98	0.98	1.00	1.02	1.04	1.54			2.98	2.92	3.06		
wind	2.4 m/s	velocity	5.53	9.14	9.14	9.33	9.52	9.33	9.33	9.14	8.96	8.79	9.10	8.47		9.20	9.39	8.96		

FINAL - 2021 French National U20 Championships (Bondoufle, FRA) (99.1cm) (TV Analysis)															Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record					
date	10-Jul-21	time	2.53	3.56	4.56	5.58	6.56	7.58	8.60	9.60	10.62	11.66		13.06	6 / 1					
reaction time	0.150	interval	7 steps	1.03	1.00	1.02	0.98	1.02	1.02	1.00	1.02	1.04	1.40			3.05	3.02	3.06		
wind	2.2 m/s	velocity	5.42	8.87	9.14	8.96	9.33	8.96	8.96	9.14	8.96	8.79	10.01	8.42		8.99	9.08	8.96		

Zhu Shenglong (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Chinese National Championships (Chongqing, CHN)															CAA Hurdle Development (2021)				
date	25-Jun-21	time	2.66	3.73	4.78	5.84	6.91	7.99	9.05	10.15	11.27	12.39		13.87	8 / 4				
reaction time	0.176	interval		1.07	1.05	1.06	1.07	1.08	1.06	1.10	1.12	1.12	1.48			3.18	3.21	3.34	
wind	1.6 m/s	velocity	5.16	8.54	8.70	8.62	8.54	8.46	8.62	8.31	8.16	8.16	9.47	7.93		8.62	8.54	8.21	
Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)															CAA Hurdle Development (2021)				
date	25-Jun-21	time	2.65	3.77	4.82	5.89	6.97	8.04	9.13	10.23	11.34	12.48		13.99	6 / 1				
reaction time	0.163	interval		1.12	1.05	1.07	1.08	1.07	1.09	1.10	1.11	1.14	1.51			3.24	3.24	3.35	
wind	-1.2 m/s	velocity	5.18	8.16	8.70	8.54	8.46	8.54	8.39	8.31	8.23	8.02	9.28	7.86		8.46	8.46	8.19	
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)															CAA Hurdle Development (2021)				
date	19-May-21	time	2.63	3.70	4.75	5.79	6.84	7.92	8.97	10.09	11.18	12.28		13.78	6 / 2				
reaction time	0.169	interval		1.07	1.05	1.04	1.05	1.08	1.05	1.12	1.09	1.10	1.50	<b>PB</b>		3.16	3.18	3.31	
wind	1.9 m/s	velocity	5.22	8.54	8.70	8.79	8.70	8.46	8.70	8.16	8.39	8.31	9.35	7.98		8.68	8.62	8.28	
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)															CAA Hurdle Development (2021)				
date	24-Apr-21	time	2.64	3.70	4.76	5.82	6.88	7.96	9.03	10.12	11.24	12.38		13.91	3 / 2				
reaction time	0.165	interval		1.06	1.06	1.06	1.06	1.08	1.07	1.09	1.12	1.14	1.53			3.18	3.21	3.35	

wind	-0.3 m/s	velocity	5.20	8.62	8.62	8.62	8.62	8.46	8.54	8.39	8.16	8.02	9.16	7.91	8.62	8.54	8.19	
<b>Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)</b>																		
CAA Hurdle Development (2021)																		
date	24-Apr-21	time	2.64	3.73	4.78	5.87	6.97	8.05	9.23	10.38	11.57	12.74		14.29	3/3	3.23	3.36	3.51
reaction time	0.164	interval		1.09	1.05	1.09	1.10	1.08	1.18	1.15	1.19	1.17	1.55			8.49	8.16	7.81
wind	-1.2 m/s	velocity	5.20	8.39	8.70	8.39	8.31	8.46	7.75	7.95	7.68	7.81	9.05	7.70				
<b>Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)</b>																		
CAA Hurdle Development (2020)																		
date	16-Sep-20	time	2.73	3.84	4.94	6.02	7.11	8.22	9.34	10.46	11.62	12.80		14.36	1/8	3.29	3.32	3.46
reaction time		interval		1.11	1.10	1.08	1.09	1.11	1.12	1.12	1.16	1.18	1.56			8.33	8.26	7.92
wind	0.3 m/s	velocity	5.03	8.23	8.31	8.46	8.39	8.23	8.16	8.16	7.88	7.75	8.99	7.66				
<b>FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)</b>																		
CAA Hurdle Development (2020)																		
date	14-Feb-20	time	2.69	3.77	4.86	5.89	6.96							7.88	5/2	3.20		
reaction time		interval		1.08	1.09	1.03	1.07					0.92				8.57		
		velocity	5.10	8.46	8.39	8.87	8.54						10.57	7.61				
<b>Semi-Final 2 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)</b>																		
CAA Hurdle Development (2020)																		
date	14-Feb-20	time	2.70	3.80	4.87	5.90	6.97							7.89	2/1	3.20		
reaction time		interval		1.10	1.07	1.03	1.07					0.92				8.57		
		velocity	5.08	8.31	8.54	8.87	8.54						10.57	7.60				
<b>Heat 3 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)</b>																		
CAA Hurdle Development (2020)																		
date	14-Feb-20	time	2.59	3.64	4.74	5.79	6.84							7.92	2/1	3.20		
reaction time		interval		1.05	1.10	1.05	1.05					1.08				8.57		
		velocity	5.30	8.70	8.31	8.70	8.70						9.00	7.58				
<b>FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)</b>																		
CAA Hurdle Development (2020)																		
date	01-Feb-20	time	2.64	3.72	4.76	5.79	6.82							7.74	6/1	3.15		
reaction time		interval		1.08	1.04	1.03	1.03					0.92		PB		8.70		
		velocity	5.20	8.46	8.79	8.87	8.87						10.57	7.75				
<b>Heat 1 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)</b>																		
CAA Hurdle Development (2020)																		
date	01-Feb-20	time	2.67	3.75	4.82	5.86	6.90							7.83	5/2	3.19		
reaction time		interval		1.08	1.07	1.04	1.04					0.93		PB		8.60		
		velocity	5.14	8.46	8.54	8.79	8.79						10.45	7.66				
<b>FINAL - 2020 Leonard Hilton Memorial Invitational (Houston, TX)</b>																		
CAA Hurdle Development (2020)																		
date	17-Jan-20	time	2.60	3.67	4.76	5.81	6.87							7.91	3/3	3.21		
reaction time		interval		1.07	1.09	1.05	1.06					1.04		PB		8.54		
		velocity	5.28	8.54	8.39	8.70	8.62						9.35	7.59				
<b>Heat 3 - 2020 Leonard Hilton Memorial Invitational (Houston, TX)</b>																		
CAA Hurdle Development (2020)																		
date	17-Jan-20	time	2.62	3.71	4.79	5.84	6.92							8.00	5/1	3.22		
reaction time		interval		1.09	1.08	1.05	1.08					1.08				8.52		
		velocity	5.24	8.39	8.46	8.70	8.46						9.00	7.50				
<b>Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	23-Aug-19	time	2.80	3.92	4.99	6.09	7.19	8.30	9.46	10.59	11.85	13.11		14.85	6/7	3.29	3.37	3.65
reaction time	0.184	interval		1.12	1.07	1.10	1.10	1.11	1.16	1.13	1.26	1.26	1.74			8.33	8.14	7.51
wind	-0.2 m/s	velocity	4.90	8.16	8.54	8.31	8.31	8.23	7.88	8.09	7.25	7.25	8.06	7.41				
<b>U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)</b>																		
CAA Hurdle Development (2019)																		
date	14-Aug-19	time	2.54	3.63	4.71	5.74	6.77	7.82	8.87	9.94	11.04	12.14		13.82	5/1	3.20	3.13	3.27
reaction time	0.145	interval		1.09	1.08	1.03	1.03	1.05	1.05	1.07	1.10	1.10	1.68			8.57	8.76	8.39
wind	0.5 m/s	velocity	5.40	8.39	8.46	8.87	8.87	8.70	8.70	8.54	8.31	8.31	8.35	7.96				
<b>Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	02-Aug-19	time	2.74	3.88	5.02	6.14	7.28	8.42	9.55	10.73	11.89	13.11		14.82	5/5	3.40	3.41	3.56
reaction time	0.154	interval		1.14	1.14	1.12	1.14	1.14	1.13	1.18	1.16	1.22	1.71			8.06	8.04	7.70
wind	-0.3 m/s	velocity	5.01	8.02	8.02	8.16	8.02	8.02	8.09	7.75	7.88	7.49	8.20	7.42				
<b>FINAL - 2019 Chinese National Championships (Shenyang, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	08-Jul-19	time	2.72	3.80	4.87	5.92	6.99	8.04	9.09	10.18	11.29	12.40		13.90	2/4	3.20	3.17	3.31
reaction time	0.170	interval		1.08	1.07	1.05	1.07	1.05	1.05	1.09	1.11	1.11	1.50	PB		8.57	8.65	8.28
wind	0.1 m/s	velocity	5.04	8.46	8.54	8.70	8.54	8.70	8.70	8.39	8.23	8.23	9.35	7.91				
<b>Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	08-Jul-19	time	2.71	3.80	4.89	5.95	7.02	8.09	9.20	10.31	11.43	12.57		14.08	5/3	3.24	3.25	3.37
reaction time	0.169	interval		1.09	1.09	1.06	1.07	1.07	1.11	1.11	1.12	1.14	1.51			8.46	8.44	8.14
wind	-0.5 m/s	velocity	5.06	8.39	8.39	8.62	8.54	8.54	8.23	8.23	8.16	8.02	9.28	7.81				
<b>FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)</b>																		
CAA Hurdle Development (2019)																		
date	30-May-19	time	2.71	3.80	4.89	5.96	7.03	8.09	9.16	10.26	11.37	12.51		14.01	8/3	3.25	3.20	3.35
reaction time	0.171	interval		1.09	1.09	1.07	1.07	1.06	1.07	1.10	1.11	1.14	1.50	PB				

wind	0.0 m/s	velocity	5.06	8.39	8.39	8.54	8.54	8.62	8.54	8.31	8.23	8.02	9.35	7.85	8.44	8.57	8.19
<b>B-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)</b>																	
date	20-Mar-19	time	2.71	3.79	4.87	5.97	7.04							7.97	CAA Hurdle Development (2019)		
reaction time		interval	1.08	1.08	1.10	1.07							0.93		2 / 2		
		velocity	5.06	8.46	8.46	8.31	8.54						10.45	7.53	3.26		
															8.41		
<b>A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)</b>																	
date	4-Mar-19	time	2.68	3.76	4.83	5.90	6.99							7.96	CAA Hurdle Development (2019)		
reaction time		interval	1.08	1.07	1.07	1.09							0.97	PB	2 / 4		
		velocity	5.12	8.46	8.54	8.54	8.39						10.02	7.54	3.22		
															8.52		
<b>B-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)</b>																	
date	28-Feb-19	time	2.72	3.80	4.88	5.94	7.04							7.98	CAA Hurdle Development (2019)		
reaction time		interval	1.08	1.08	1.06	1.10							0.94	PB	4 / 2		
		velocity	5.04	8.46	8.46	8.62	8.31						10.34	7.52	3.22		
															8.52		
<b>FINAL - 2018 Chinese National Championships (Taiyuan, CHN)</b>																	
date	16-Sep-18	time	2.72	3.82	4.89	5.96	7.04	8.12	9.22	10.33	11.46	12.58		14.09	Henson (2018) - coaching observations		
reaction time		interval	1.10	1.07	1.07	1.08	1.08	1.10	1.11	1.13	1.12	1.51	PB		2 / 4		
wind	-0.3 m/s	velocity	5.04	8.31	8.54	8.54	8.46	8.46	8.31	8.23	8.09	8.16	9.28	7.81	3.24 3.26 3.36		
														8.46 8.41 8.16			
<b>Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)</b>																	
date	15-Sep-18	time	2.74	3.85	4.94	6.00	7.09	8.19	9.26	10.38	11.49	12.61		14.13	Henson (2018) - coaching observations		
reaction time		interval	1.11	1.09	1.06	1.09	1.10	1.07	1.12	1.11	1.12	1.52	PB		2 / 4		
wind	0.7 m/s	velocity	5.01	8.23	8.39	8.62	8.39	8.31	8.54	8.16	8.23	8.16	9.22	7.78	3.26 3.26 3.35		
														8.41 8.41 8.19			
<b>FINAL - 2018 Chinese National U20 Championships (Nanchang, CHN) (99.1cm) Zhang (2019) - comparative analysis characteristics Chinese elite 110m hurdles in different age</b>																	
date	13-May-18	time	2.69	3.79	4.85	5.90	6.94	8.00	9.06	10.15	11.24	12.36		13.83	/ 3		
reaction time		interval	1.10	1.06	1.05	1.04	1.06	1.06	1.09	1.09	1.12	1.47			3.21 3.16 3.30		
wind	1.0 m/s	velocity	5.10	8.31	8.62	8.70	8.79	8.62	8.62	8.39	8.39	8.16	9.54	7.95	8.54 8.68 8.31		