

Men's 110m Hurdles Touchdown Times - by time

LAST UPDATE: 13-Nov-23

Zhoya, Sasha (FRA) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 World Athletics U20 Championships (Nairobi, KEN) (99.1cm) (Altitude) (TV Analysis) <i>Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record</i>																		
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	WU20R		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
Merritt, Aries (USA) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis) <i>May (2012) - http://www.fgs.uni-halle.de</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	1.00	1.02	1.04	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
Holloway, Grant (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2021 USA Olympic Trials (Eugene, OR) <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	PB		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
Allen, Devon (USA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis) <i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																		
date	12-Jun-22	time	2.42	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	PB		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
Kingdom, Roger (USA) (1962)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1989 IAAF World Cup (Barcelona, ESP) <i>Gill (1990) - atletismo (I) carreras y marcha</i>																		
date	10-Sep-89	time	2.55	3.60	4.61	5.61	6.58	7.56	8.54	9.54	10.54	11.57		12.87	9 / 1			
reaction time		interval		1.05	1.01	1.00	0.97	0.98	0.98	1.00	1.00	1.03	1.30			3.06	2.93	3.03
wind	2.6 m/s	velocity	5.38	8.70	9.05	9.14	9.42	9.33	9.33	9.14	9.14	8.87	10.78	8.55		8.96	9.36	9.05
Robles, Dayron (CUB) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2008 Golden Spike (Ostrava, CZE) (TV Analysis) <i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	12-Jun-08	time	2.47	3.48	4.46	5.46	6.44	7.43	8.42	9.44	10.46	11.49		12.87	6 / 1			
reaction time		interval	7 steps	1.01	0.98	1.00	0.98	0.99	0.99	1.02	1.02	1.03	1.38	WR		2.99	2.96	3.07
wind	0.9 m/s	velocity	5.55	9.05	9.33	9.14	9.33	9.23	9.23	8.96	8.96	8.87	10.16	8.55		9.17	9.26	8.93
Oliver, David (USA) (1982)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2010 Areva Meeting (Saint-Denis, FRA) <i>Wang (2013) - research upon time characters of Liu Xiang's 110m hurdles</i>																		
date	16-Jul-10	time	2.53	3.53	4.56	5.56	6.53	7.50	8.50	9.50	10.50	11.50		12.87	1 / 1			
reaction time	0.161	interval	7 steps	1.00	1.03	1.00	0.97	0.97	1.00	1.00	1.00	1.00	1.37	AR PB		3.03	2.94	3.00
wind	0.5 m/s	velocity	5.42	9.14	8.87	9.14	9.42	9.42	9.14	9.14	9.14	9.14	10.23	8.55		9.05	9.33	9.14
Liu Xiang (CHN) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Prefontaine Classic (Eugene, OR) (TV Analysis) <i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																		
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	5 / 1			
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
Tinch, Cordell (USA) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 NCAA Division II National Championships (Pueblo, CO) (Altitude) (TV Analysis) <i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																		
date	27-May-23	time	2.50	3.50	4.50	5.48	6.46	7.44	8.41	9.43	10.43	11.46		12.87	5 / 1			
reaction time		interval	7 steps	1.00	1.00	0.98	0.98	0.98	0.97	1.02	1.00	1.03	1.41			2.98	2.93	3.05
wind	6.0 m/s	velocity	5.49	9.14	9.14	9.33	9.33	9.33	9.42	8.96	9.14	8.87	9.94	8.55		9.20	9.36	8.99
Liu Xiang (CHN) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Race 2 - 2006 Athletissima (Lausanne, SUI) <i>Xiao (2014) - development process of the characteristics about 110m hurdle training in China</i>																		
date	11-Jun-06	time	2.52	3.54	4.55	5.56	6.54	7.51	8.49	9.47	10.50	11.53		12.88	2 / 1			
reaction time		interval		1.02	1.01	1.01	0.98	0.97	0.98	0.98	1.03	1.03	1.35	WR		3.04	2.93	3.04
wind	1.1 m/s	velocity	5.44	8.96	9.05	9.05	9.33	9.42	9.33	9.33	8.87	8.87	10.39	8.54		9.02	9.36	9.02
Arnold, Dominique (USA) (1973)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Race 2 - 2006 Athletissima Meeting (Lausanne, SUI) <i>Li (2013) - technical characteristics of Merritt, the 110m hurdle champion at London Olympics</i>																		
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
McLeod, Omar (JAM) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Jamaican National Championships (Kingston, JAM) (TV Analysis) <i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																		
date	24-Jun-17	time	2.43	3.46	4.46	5.46	6.43	7.43	8.43	9.43	10.43	11.45		12.90	4 / 1			
reaction time		interval		1.03	1.00	1.00	0.97	1.00	1.00	1.00	1.00	1.02	1.45	NR PB		3.03	2.97	3.02
wind	0.7 m/s	velocity	5.65	8.87	9.14	9.14	9.42	9.14	9.14	9.14	9.14	8.96	9.67	8.53		9.05	9.23	9.08

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

Name (Nationality) (Year)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Jackson, Colin (GBR) (1967)																		
FINAL - 1993 IAAF World Championships (Stuttgart, GER)																		
date		20-Aug-93	time	2.53	3.54	4.53	5.51	6.49	7.47	8.47	9.48	10.51	11.55					
reaction time		0.122	interval		1.01	0.99	0.98	0.98	0.98	1.00	1.01	1.03	1.04	1.36		2.98	2.96	3.08
wind		0.5 m/s	velocity	5.42	9.05	9.23	9.33	9.33	9.33	9.14	9.05	8.87	8.79	10.31	8.52	9.20	9.26	8.90
Liu Xiang (CHN) (1983)																		
FINAL - 2004 Olympic Games (Athens, GRE)																		
date		27-Aug-04	time	2.41	3.43	4.43	5.42	6.41	7.39	8.39	9.39	10.41	11.44					
reaction time		0.139	interval		1.02	1.00	0.99	0.99	0.98	1.00	1.00	1.02	1.03	1.47		3.01	2.97	3.05
wind		0.3 m/s	velocity	5.69	8.96	9.14	9.23	9.23	9.33	9.33	9.14	9.14	8.96	8.87	9.54	9.11	9.23	8.99
Johnson, Allen (USA) (1971)																		
FINAL - 1996 USA Olympic Trials (Atlanta, GA)																		
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					
reaction time			interval		1.04	1.00	0.96	1.00	0.97	0.99	1.00	1.04	1.06	1.50		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
Johnson, Allen (USA) (1971)																		
FINAL - 1996 Memorial Van Damme (Brussels, BEL)																		
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					
reaction time			interval		1.00	0.98	1.00	0.98	1.01	0.98	1.05	1.02	1.03	1.31		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
Robles, Dayron (CUB) (1986)																		
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)																		
date		23-Sep-07	time	2.51	3.55	4.54	5.53	6.53	7.51	8.51	9.51	10.53	11.57					
reaction time		0.158	interval	7 steps	1.04	0.99	0.99	1.00	0.98	1.00	1.00	1.02	1.04	1.35		3.02	2.98	3.06
wind		0.0 m/s	velocity	5.47	8.79	9.23	9.23	9.14	9.33	9.14	9.14	8.96	8.79	10.39	8.51	9.08	9.20	8.96
Merritt, Aries (USA) (1985)																		
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)																		
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					
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		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
Shubenkov, Sergey (ANA) (1990)																		
FINAL - 2018 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)																		
date		02-Jul-18	time	2.52	3.54	4.54	5.52	6.50	7.48	8.46	9.46	10.48	11.52					
reaction time		0.169	interval	7 steps	1.02	1.00	0.98	0.98	0.98	0.98	1.00	1.02	1.04	1.40		3.00	2.94	3.06
wind		0.6 m/s	velocity	5.44	8.96	9.14	9.33	9.33	9.33	9.33	9.14	8.96	8.79	10.01	8.51	9.14	9.33	8.96
Johnson, Allen (USA) (1971)																		
FINAL - 1997 IAAF World Championships (Athens, GRE)																		
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					
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
Liu Xiang (CHN) (1983)																		
FINAL - 2006 IAAF World Athletic Final (Stuttgart, GER) (TV Analysis)																		
date		09-Sep-06	time	2.57	3.59	4.58	5.57	6.55	7.53	8.54	9.55	10.56	11.57					
reaction time		0.108	interval		1.02	0.99	0.99	0.98	0.98	1.01	1.01	1.01	1.01	1.36		3.00	2.97	3.03
wind		-0.8 m/s	velocity	5.34	8.96	9.23	9.23	9.33	9.33	9.05	9.05	9.05	9.05	10.31	8.51	9.14	9.23	9.05
Robles, Dayron (CUB) (1986)																		
FINAL - 2008 Olympic Games (Beijing, CHN)																		
date		8.21.08	time	2.50	3.53	4.50	5.49	6.48	7.48	8.48	9.50	10.53	11.56					
reaction time		0.183	interval	7 steps	1.03	0.97	0.99	0.99	1.00	1.00	1.02	1.03	1.03	1.37		2.99	2.99	3.08
wind		0.1 m/s	velocity	5.49	8.87	9.42	9.23	9.23	9.14	9.14	8.96	8.87	8.87	10.23	8.51	9.17	9.17	8.90
Merritt, Aries (USA) (1985)																		
FINAL - 2012 USA Olympic Trials (Eugene, OR)																		
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					
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		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
Merritt, Aries (USA) (1985)																		
FINAL - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)																		
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					
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		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
Merritt, Aries (USA) (1985)																		
FINAL - 2012 Herculis Meeting International D'Atlétisme (Monaco, MON) (TV Analysis)																		

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	
Zhoya, Sasha (FRA) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 2	2021 World Athletics U20 Championships (Nairobi, KEN) (99.1cm) (Altitude) (TV Analysis)																		
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	WU20R		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	
Parchment, Hansle (JAM) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL	2023 Prefontaine Classic (Eugene, OR)																		
date	17-Sep-23	time	2.47	3.50	4.48	5.47	6.45	7.42	8.40	9.40	10.40	11.41		12.93	5 / 1				
reaction time	0.168	interval	7 steps	1.03	0.98	0.99	0.98	0.97	0.98	1.00	1.00	1.01	1.52	PB		3.00	2.93	3.01	
wind	0.9 m/s	velocity	5.55	8.87	9.33	9.23	9.33	9.42	9.33	9.14	9.14	9.05	9.22	8.51		9.14	9.36	9.11	
Merritt, Aries (USA) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 2	2012 Olympic Games (London, GBR) (TV Analysis)																		
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	
Broadbell, Rasheed (JAM) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL	2023 Jamaican National Championships (Kingston, JAM) (TV Analysis)																		
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	9.42	9.14	9.33	9.14	9.33	9.14	9.60	8.50		9.05	9.23	9.20
Jackson, Colin (GBR) (1967)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL	1989 IAAF World Cup (Barcelona, ESP)																		
date	10-Sep-89	time	2.55	3.59	4.60	5.61	6.61	7.60	8.61	9.62	10.63	11.67		12.95	4 / 2				
reaction time		interval	1.04	1.01	1.01	1.00	0.99	1.01	1.01	1.01	1.01	1.04	1.28			3.06	3.00	3.06	
wind	2.6 m/s	velocity	5.38	8.79	9.05	9.05	9.14	9.23	9.05	9.05	9.05	8.79	10.95	8.49		8.96	9.14	8.96	
Johnson, Allen (USA) (1971)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL	1996 Olympic Games (Atlanta, GA)																		
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	
Liu Xiang (CHN) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL	2007 IAAF World Championships (Osaka, JPN)																		
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	9 / 1				
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	
Oliver, David (USA) (1982)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL	2008 USA Olympic Trials (Eugene, OR)																		
date	06-Jul-08	time	2.57	3.59	4.60	5.59	6.57	7.56	8.55	9.54	10.53	11.57		12.95	4 / 1				
reaction time	0.191	interval	1.02	1.01	0.99	0.98	0.99	0.99	0.99	0.99	1.04	1.38				3.02	2.96	3.02	
wind	3.5 m/s	velocity	5.34	8.96	9.05	9.23	9.33	9.23	9.23	9.23	9.23	8.79	10.16	8.49		9.08	9.26	9.08	
Merritt, Aries (USA) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL	2012 AVIVA Grand Prix (Birmingham, GBR) (TV Analysis)																		
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	
Shubenkov, Sergey (ANA) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL	2018 Athletissima (Lausanne, SUI) (TV Analysis)																		
date	05-Jul-18	time	2.59	3.61	4.62	5.60	6.58	7.56	8.54	9.54	10.58	11.65		12.95	6 / 1				
reaction time	0.147	interval	7 steps	1.02	1.01	0.98	0.98	0.98	0.98	1.00	1.04	1.07	1.30			3.01	2.94	3.11	
wind	0.6 m/s	velocity	5.30	8.96	9.05	9.33	9.33	9.33	9.33	9.14	8.79	8.54	10.78	8.49		9.11	9.33	8.82	
Johnson, Allen (USA) (1971)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL	2006 IAAF World Cup (Athens, GRE) (TV Analysis)																		
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	
Merritt, Aries (USA) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL	2012 Prefontaine Classic (Eugene, OR) (TV Analysis)																		
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
McLeod, Omar (JAM) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)	<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																
date	04-Jul-17	time	2.48	3.50	4.50	5.50	6.50	7.50	8.48	9.52	10.54	11.56		12.96	4 / 1		
reaction time	0.138	interval	1.02	1.00	1.00	1.00	1.00	0.98	1.04	1.02	1.02	1.02	1.40		3.02	2.98	3.08
wind	0.3 m/s	velocity	5.53	8.96	9.14	9.14	9.14	9.14	9.33	8.79	8.96	8.96	10.01	8.49	9.08	9.20	8.90
Holloway, Grant (USA) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)	<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
Tinch, Cordell (USA) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Trackwired Arkansas Grand Prix (Fayetteville, AR) (TV Analysis)	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	23-May-23	time	2.46	3.50	4.50	5.50	6.48	7.46	8.43	9.47	10.47	11.49		12.96	5 / 1		
reaction time		interval	7 steps	1.04	1.00	1.00	0.98	0.98	0.97	1.04	1.00	1.02	1.47	PB	3.04	2.93	3.06
wind	1.3 m/s	velocity	5.58	8.79	9.14	9.14	9.33	9.33	9.42	8.79	9.14	8.96	9.54	8.49	9.02	9.36	8.96
Holloway, Grant (USA) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	21-Aug-23	time	2.44	3.44	4.40	5.36	6.36	7.36	8.36	9.38	10.42	11.52		12.96	5 / 1		
reaction time	0.135	interval	7 steps	1.00	0.96	0.96	1.00	1.00	1.00	1.02	1.04	1.10	1.44		2.92	3.00	3.16
wind	0.0 m/s	velocity	5.62	9.14	9.52	9.52	9.14	9.14	9.14	8.96	8.79	8.31	9.74	8.49	9.39	9.14	8.68
Parchment, Hansle (JAM) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)	<i>Omega Timing (2023) - diamond league race analysis</i>																
date	02-Sep-23	time	2.40	3.40	4.40	5.40	6.40	7.40	8.40	9.40	10.40	11.40		12.96	5 / 1		
reaction time	0.163	interval	7 steps	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.56		3.00	3.00	3.00
wind	0.0 m/s	velocity	5.72	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	8.99	8.49	9.14	9.14	9.14
Liu Xiang (CHN) (1983)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Golden Grand Prix (Shanghai, CHN)	<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	2.38	3.38	4.45	5.42	6.42	7.45	8.42	9.46	10.43	11.47		12.97	5 / 1		
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
Merritt, Aries (USA) (1985)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 ISTAF (Berlin, GER) (TV Analysis)	<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	1.00	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
Shubnikov, Sergey (ANA) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)	<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																
date	31-Aug-18	time	2.54	3.56	4.58	5.58	6.56	7.54	8.52	9.52	10.54	11.56		12.97	5 / 1		
reaction time	0.168	interval	7 steps	1.02	1.00	0.98	0.98	0.98	1.00	1.02	1.02	1.41		3.04	2.94	3.04	
wind	-0.1 m/s	velocity	5.40	8.96	8.96	9.14	9.33	9.33	9.33	9.14	8.96	8.96	9.94	8.48	9.02	9.33	9.02
Tinch, Cordell (USA) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 MIAA Championships (Jefferson City, MO) (TV Analysis)	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	07-May-23	time	2.40	3.40	4.40	5.37	6.34	7.31	8.34	9.34	10.36	11.40		12.97	4 / 1		
reaction time		interval	7 steps	1.00	1.00	0.97	0.97	0.97	1.03	1.00	1.02	1.04	1.57		2.97	2.97	3.06
wind	3.0 m/s	velocity	5.72	9.14	9.14	9.42	9.42	9.42	8.87	9.14	8.96	8.79	8.93	8.48	9.23	9.23	8.96
Kingdom, Roger (USA) (1962)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1988 Olympic Games (Seoul, KOR)	<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																
date	26-Sep-88	time	2.55	3.60	4.61	5.61	6.61	7.59	8.59	9.59	10.62	11.64		12.98	4 / 1		
reaction time	0.142	interval		1.05	1.01	1.00	1.00	0.98	1.00	1.00	1.03	1.02	1.34	OR	3.06	2.98	3.05
wind	1.5 m/s	velocity	5.38	8.70	9.05	9.14	9.14	9.33	9.14	9.14	8.87	8.96	10.46	8.47	8.96	9.20	8.99
Richardson, Jason (USA) (1986)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 USA Olympic Trials (Eugene, OR)	<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																
date	30-Jun-12	time	2.42	3.44	4.44	5.44	6.45	7.44	8.44	9.44	10.44	11.44		12.98	6 / 2		
reaction time	0.185	interval	7 steps	1.02	1.00	1.00	1.01	0.99	1.00	1.00	1.00	1.00	1.54	=PB	3.02	3.00	3.00
wind	1.2 m/s	velocity	5.67	8.96	9.14	9.14	9.05	9.23	9.14	9.14	9.14	9.14	9.10	8.47	9.08	9.14	9.14
Richardson, Jason (USA) (1986)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 AVIVA Grand Prix (Birmingham, GBR) (TV Analysis)	<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																
date	26-Aug-12	time	2.48	3.52	4.52	5.52	6.52	7.50	8.48	9.48	10.50	11.52		12.98	2 / 2		
reaction time	0.165	interval	7 steps	1.04	1.00	1.00	1.00	0.98	0.98	1.00	1.02	1.02	1.46	=PB	3.04	2.96	3.04
wind	-0.9 m/s	velocity	5.53	8.79	9.14	9.14	9.14	9.33	9.33	9.14	8.96	8.96	9.60	8.47	9.02	9.26	9.02

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Shubenkov, Sergey (RUS) (1990)																			
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)		<i>Henson (2021) - Athlete First: major championships report</i>																	
date	28-Aug-15	time	2.52	3.54	4.56	5.54	6.52	7.52	8.52	9.52	10.54	11.58		12.98	7 / 1				
reaction time	0.139	interval	7 steps	1.02	1.02	0.98	0.98	1.00	1.00	1.00	1.02	1.04	1.40	NR		3.02	2.98	3.06	
wind	0.2 m/s	velocity	5.44	8.96	8.96	9.33	9.33	9.14	9.14	9.14	8.96	8.79	10.01	8.47		9.08	9.20	8.96	
McLeod, Omar (JAM) (1994)																			
FINAL - 2016 Shanghai Golden Grand Prix (Shanghai, CHN) (TV Analysis)		<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>																	
date	14-May-16	time	2.42	3.48	4.48	5.48	6.50	7.52	8.54	9.56	10.56	11.58		12.98	5 / 1				
reaction time	0.133	interval	7 steps	1.06	1.00	1.00	1.02	1.02	1.02	1.00	1.02	1.40				3.06	3.06	3.04	
wind	1.2 m/s	velocity	5.67	8.62	9.14	9.14	8.96	8.96	8.96	9.14	8.96	10.01	8.47			8.96	8.96	9.02	
Holloway, Grant (USA) (1997)																			
FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)		<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	0.133	interval	7 steps	1.00	1.00	0.97	0.97	0.99	1.00	1.03	1.04	1.44		PB		2.97	2.96	3.14	
wind	0.8 m/s	velocity	5.55	9.14	9.14	9.42	9.42	9.23	9.14	8.87	8.79	9.74	8.47			9.23	9.26	8.73	
Zhoya, Sasha (FRA) (2002)																			
Semi-Final 3 - 2021 European U20 Championships (Tallinn, EST) (99.1cm) (TV Analysis)		<i>Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record</i>																	
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	
Holloway, Grant (USA) (1997)																			
FINAL - 2023 Meeting de Paris (Paris, FRA)		<i>Omega Timing (2023) - diamond league race analysis</i>																	
date	09-Jun-23	time	2.30	3.30	4.28	5.25	6.24	7.23	8.24	9.26	10.30	11.36		12.98	6 / 1				
reaction time	0.157	interval	7 steps	1.00	0.98	0.97	0.99	0.99	1.01	1.02	1.04	1.06	1.62			2.95	2.99	3.12	
wind	-0.5 m/s	velocity	5.97	9.14	9.33	9.42	9.23	9.23	9.05	8.96	8.79	8.62	8.65	8.47		9.29	9.17	8.79	
Johnson, Allen (USA) (1971)																			
FINAL - 2005 USATF National Championships (Carson, CA)		<i>USATF Women's Sprint Development (2005)</i>																	
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	
Trammell, Terrence (USA) (1978)																			
FINAL - 2007 IAAF World Championships (Osaka, JPN)		<i>Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data</i>																	
date	31-Aug-07	time	2.53	3.53	4.52	5.53	6.53	7.52	8.53	9.55	10.57	11.60		12.99	5 / 2				
reaction time	0.205	interval		1.00	0.99	1.01	1.00	0.99	1.01	1.02	1.02	1.03	1.39			3.00	3.00	3.07	
wind	1.7 m/s	velocity	5.42	9.14	9.23	9.05	9.14	9.23	9.05	8.96	8.96	8.87	10.09	8.47		9.14	9.14	8.93	
Merritt, Aries (USA) (1985)																			
Heat 3 - 2012 Arkansas Twilight (Fayetteville, AR)		<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																	
date	04-May-12	time	2.50	3.53	4.53	5.53	6.52	7.51	8.50	9.51	10.52	11.54		12.99	5 / 1				
reaction time		interval	7 steps	1.03	1.00	1.00	0.99	0.99	0.99	1.01	1.01	1.02	1.45			3.03	2.97	3.04	
wind	2.9 m/s	velocity	5.49	8.87	9.14	9.14	9.23	9.23	9.23	9.05	9.05	8.96	9.67	8.47		9.05	9.23	9.02	
Shubenkov, Sergey (ANA) (1990)																			
FINAL - 2018 Meeting International de Montreuil (Montreuil, FRA) (TV Analysis)		<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																	
date	19-Jun-18	time	2.62	3.64	4.64	5.62	6.60	7.58	8.56	9.56	10.58	11.62		12.99	5 / 1				
reaction time	0.143	interval	7 steps	1.02	1.00	0.98	0.98	0.98	0.98	1.00	1.02	1.04	1.37			3.00	2.94	3.06	
wind	0.5 m/s	velocity	5.24	8.96	9.14	9.33	9.33	9.33	9.33	9.14	8.96	8.79	10.23	8.47		9.14	9.33	8.96	
Allen, Devon (USA) (1994)																			
FINAL - 2021 Boris Hanzeković Memorial (Zagreb, CRO) (TV Analysis)		<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		PB		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	
Holloway, Grant (USA) (1997)																			
FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)		<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	
Broadbell, Rasheed (JAM) (2000)																			
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)		<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																	
date	26-Aug-22	time	2.47	3.50	4.50	5.50	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		PB		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	
Britt, Jamal (USA) (1998)																			
FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)		<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																	

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	
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													<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
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Adidas Atlanta City Games (Atlanta, GA) (street) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
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
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	24-Jun-23	time	2.47	3.50	4.50	5.50	6.54	7.54	8.56	9.58	10.60	11.61		13.01	3 / 1			
reaction time	0.159	interval		1.03	1.00	1.00	1.04	1.00	1.02	1.02	1.02	1.01	1.40			3.03	3.06	3.05
wind	1.6 m/s	velocity	5.55	8.87	9.14	9.14	8.79	9.14	8.96	8.96	8.96	9.05	10.01	8.46		9.05	8.96	8.99
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 London Athletics Meet (London, GBR)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	23-Jul-23	time	2.36	3.35	4.33	5.30	6.29	7.28	8.29	9.32	10.37	11.43		13.01	5 / 1			
reaction time	0.165	interval	7 steps	0.99	0.98	0.97	0.99	0.99	1.01	1.03	1.05	1.06	1.58			2.94	2.99	3.14
wind	1.3 m/s	velocity	5.81	9.23	9.33	9.42	9.23	9.23	9.05	8.87	8.70	8.62	8.87	8.46		9.33	9.17	8.73
Zhoya, Sasha (FRA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2023 French National Championships (Albi, FRA) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
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
Zhoya, Sasha (FRA) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 French National Championships (Albi, FRA) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
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
Jackson, Colin (GBR) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1998 European Championships (Budapest, HUN)													<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	CR		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
Trammell, Terrence (USA) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2005 USATF National Championships (Carson, CA)													<i>USATF Women's Sprint Development (2005)</i>					
date	24-Jun-05	time	2.54	3.57	4.61	5.61	6.61	7.61	8.63	9.64	10.64	11.69		13.02	6 / 3			
reaction time		interval		1.03	1.04	1.00	1.00	1.00	1.02	1.01	1.00	1.05	1.33	PB		3.07	3.02	3.06
wind	0.2 m/s	velocity	5.40	8.87	8.79	9.14	9.14	9.14	8.96	9.05	9.14	8.70	10.54	8.45		8.93	9.08	8.96
Trammell, Terrence (USA) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 2 - 2006 Athletissima Meeting (Lausanne, SUI)													<i>Li (2013) - technical characteristics of Merritt, the 110m hurdle champion at London Olympics</i>					
date	11-Jul-06	time	2.54	3.55	4.55	5.51	6.48	7.47	8.49	9.51	10.53	11.59		13.02	5 / 3			
reaction time		interval		1.01	1.00	0.96	0.97	0.99	1.02	1.02	1.02	1.06	1.43	=PB		2.97	2.98	3.10
wind	1.1 m/s	velocity	5.40	9.05	9.14	9.52	9.42	9.23	8.96	8.96	8.96	8.62	9.80	8.45		9.23	9.20	8.85
Payne, David (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 IAAF World Championships (Osaka, JPN)													<i>Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data</i>					
date	31-Aug-07	time	2.52	3.55	4.57	5.58	6.60	7.60	8.62	9.62	10.63	11.67		13.02	7 / 3			
reaction time	0.141	interval		1.03	1.02	1.01	1.02	1.00	1.02	1.00	1.01	1.04	1.35	PB		3.06	3.04	3.05
wind	1.7 m/s	velocity	5.44	8.87	8.96	9.05	8.96	9.14	8.96	9.14	9.05	8.79	10.39	8.45		8.96	9.02	8.99
Holloway, Grant (USA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<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
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)													<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	17-Jul-22	time	2.57	3.60	4.60	5.57	6.53	7.55	8.53	9.53	10.55	11.58		13.02	3 / 1			
reaction time	0.128	interval	7 steps	1.03	1.00	0.97	0.96	1.02	0.98	1.00	1.02	1.03	1.44			3.00	2.96	3.05
wind	2.5 m/s	velocity	5.34	8.87	9.14	9.42	9.52	8.96	9.33	9.14	8.96	8.87	9.74	8.45		9.14	9.26	8.99

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Holloway, Grant (USA) (1997)																		
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)																		
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
Holloway, Grant (USA) (1997)																		
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																		
date	21-Aug-23	time	2.44	3.44	4.42	5.40	6.38	7.38	8.40	9.42	10.46	11.53		13.02	5 / 1			
reaction time	0.137	interval	7 steps	1.00	0.98	0.98	0.98	1.00	1.02	1.02	1.04	1.07	1.49			2.96	3.00	3.13
wind	-0.2 m/s	velocity	5.62	9.14	9.33	9.33	9.33	9.14	8.96	8.96	8.79	8.54	9.41	8.45		9.26	9.14	8.76
Merritt, Aries (USA) (1985)																		
FINAL - 2012 Arkansas Twilight (Fayetteville, AR)																		
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			
reaction time		interval	7 steps	1.03	1.02	1.02	1.00	0.97	1.00	1.00	1.00					3.07	2.97	
wind	1.0 m/s	velocity	5.49	8.87	8.96	8.96	9.14	9.42	9.14	9.14	9.14		8.44			8.93	9.23	
Parchment, Hansle (JAM) (1990)																		
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)																		
date	28-Aug-15	time	2.54	3.58	4.60	5.58	6.58	7.56	8.56	9.56	10.56	11.62		13.03	8 / 2			
reaction time	0.143	interval	7 steps	1.04	1.02	0.98	1.00	0.98	1.00	1.00	1.00	1.06	1.41			3.04	2.98	3.06
wind	0.2 m/s	velocity	5.40	8.79	8.96	9.33	9.14	9.33	9.14	9.14	9.14	8.62	9.94	8.44		9.02	9.20	8.96
Allen, Devon (USA) (1994)																		
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)																		
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			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
Shubenkov, Sergey (ANA) (1990)																		
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)																		
date	09-Sep-18	time	2.52	3.58	4.60	5.56	6.54	7.54	8.54	9.54	10.54	11.58		13.03	2 / 1			
reaction time	0.143	interval	7 steps	1.06	1.02	0.96	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	5.44	8.62	8.96	9.52	9.33	9.14	9.14	9.14	9.14	8.79	9.67	8.44		9.02	9.20	9.02
Parchment, Hansle (JAM) (1990)																		
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)																		
date	28-Aug-21	time	2.46	3.48	4.48	5.48	6.46	7.46	8.44	9.46	10.50	11.54		13.03	6 / 1			
reaction time	0.138	interval	7 steps	1.02	1.00	1.00	0.98	1.00	0.98	1.02	1.04	1.04	1.49			3.02	2.96	3.10
wind	0.7 m/s	velocity	5.58	8.96	9.14	9.14	9.33	9.14	9.33	8.96	8.79	8.79	9.41	8.44		9.08	9.26	8.85
Holloway, Grant (USA) (1997)																		
Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)																		
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
Roberts, Daniel (USA) (1998)																		
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)																		
date	26-Jun-22	time	2.43	3.47	4.47	5.47	6.47	7.47	8.50	9.52	10.54	11.61		13.03	7 / 1			
reaction time		interval		1.04	1.00	1.00	1.00	1.00	1.03	1.02	1.02	1.07	1.42			3.04	3.03	3.11
wind	1.2 m/s	velocity	5.65	8.79	9.14	9.14	9.14	9.14	8.87	8.96	8.96	8.54	9.87	8.44		9.02	9.05	8.82
Holloway, Grant (USA) (1997)																		
FINAL - 2022 World Athletics Championships (Eugene, OR)																		
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
Cunningham, Trey (USA) (1998)																		
FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)																		
date	10-Aug-22	time	2.43	3.43	4.40	5.40	6.40	7.43	8.46	9.46	10.53	11.60		13.03	4 / 2			
reaction time	0.141	interval	7 steps	1.00	0.97	1.00	1.00	1.03	1.03	1.00	1.07	1.07	1.43			2.97	3.06	3.14
wind	0.6 m/s	velocity	5.65	9.14	9.42	9.14	9.14	8.87	8.87	9.14	8.54	8.54	9.80	8.44		9.23	8.96	8.73
Holloway, Grant (USA) (1997)																		
FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)																		
date	04-Jun-23	time	2.53	3.53	4.51	5.49	6.45	7.43	8.45	9.47	10.53	11.60		13.03	6 / 1			
reaction time	0.187	interval	7 steps	1.00	0.98	0.98	0.96	0.98	1.02	1.02	1.06	1.07	1.43			2.96	2.96	3.15
wind	0.4 m/s	velocity	5.42	9.14	9.33	9.33	9.52	9.33	8.96	8.96	8.62	8.54	9.80	8.44		9.26	9.26	8.70
Roberts, Daniel (USA) (1998)																		
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)																		
date		time																
reaction time		interval																
wind		velocity																

date	02-Sep-23	time	2.33	3.37	4.37	5.35	6.35	7.35	8.36	9.39	10.43	11.48	13.03	4 / 2					
reaction time	0.140	interval		1.04	1.00	0.98	1.00	1.00	1.01	1.03	1.04	1.05	1.55		3.02	3.01	3.12		
wind	0.0 m/s	velocity	5.89	8.79	9.14	9.33	9.14	9.14	9.05	8.87	8.79	8.70	9.05	8.44	9.08	9.11	8.79		
Nehemiah, Renaldo (USA) (1959)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 1981 International Abendsportfest (Koblenz, FRG)											<i>Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen im olympiazklus 1981/84</i>								
date	26-Aug-81	time	2.50	4.53	6.54	8.54	11.63	13.04	/ 1										
reaction time		interval		2.03	2.01	2.00	3.09	1.41											3.09
wind	0.0 m/s	velocity	5.49	9.00	9.09	9.14	8.87	9.94	8.44										8.87
Jackson, Colin (GBR) (1967)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 1999 IAAF World Championships (Sevilla, ESP)											<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	9.05	9.14	8.87	8.87	8.62	10.01	8.44	9.17	9.08	8.79		
Johnson, Allen (USA) (1971)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2001 ISTAF (Berlin, GER)											<i>Graubner (2009) - http://www.fgs.uni-halle.de</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		
Richardson, Jason (USA) (1986)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)											<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>								
date	08-Aug-12	time	2.54	3.54	4.54	5.54	6.56	7.58	8.58	9.58	10.58	11.62	13.04	4 / 2					
reaction time	0.194	interval	7 steps	1.00	1.00	1.00	1.02	1.02	1.00	1.00	1.00	1.04	1.42		3.00	3.04	3.04		
wind	-0.3 m/s	velocity	5.40	9.14	9.14	9.14	8.96	8.96	9.14	9.14	9.14	8.79	9.87	8.44	9.14	9.02	9.02		
Merritt, Aries (USA) (1985)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)											<i>Henson (2021) - Athlete First: major championships report</i>								
date	28-Aug-15	time	2.48	3.52	4.52	5.52	6.52	7.52	8.52	9.54	10.58	11.62	13.04	4 / 3					
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		
Ortega, Orlando (ESP) (1991)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)											<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>								
date	15-Jul-16	time	2.48	3.52	4.54	5.54	6.54	7.54	8.56	9.56	10.56	11.60	13.04	3 / 1					
reaction time	0.136	interval	7 steps	1.04	1.02	1.00	1.00	1.00	1.02	1.00	1.00	1.04	1.44	NR	3.06	3.02	3.04		
wind	0.0 m/s	velocity	5.53	8.79	8.96	9.14	9.14	9.14	8.96	9.14	9.14	8.79	9.74	8.44	8.96	9.08	9.02		
McLeod, Omar (JAM) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)											<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>								
date	29-Apr-17	time	2.47	3.53	4.53	5.53	6.53	7.53	8.55	9.57	10.57	11.61	13.04	4 / 1					
reaction time		interval		1.06	1.00	1.00	1.00	1.00	1.02	1.02	1.00	1.04	1.43		3.06	3.02	3.06		
wind	1.8 m/s	velocity	5.55	8.62	9.14	9.14	9.14	9.14	8.96	8.96	9.14	8.79	9.80	8.44	8.96	9.08	8.96		
McLeod, Omar (JAM) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2017 IAAF World Championships (London, GBR)											<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles</i>								
date	07-Aug-17	time	2.36	3.42	4.42	5.43	6.42	7.44	8.45	9.46	10.48	11.51	13.04	4 / 1					
reaction time	0.123	interval		1.06	1.00	1.01	0.99	1.02	1.01	1.01	1.02	1.03	1.53		3.07	3.02	3.06		
wind	0.0 m/s	velocity	5.81	8.62	9.14	9.05	9.23	8.96	9.05	9.05	8.96	8.87	9.16	8.44	8.93	9.08	8.96		
McLeod, Omar (JAM) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 1 - 2021 Jamaican National Championships (Kingston, JAM) (TV Analysis)											<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		
Parchment, Hansle (JAM) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)											<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>								
date	06-Aug-21	time	2.50	3.54	4.56	5.54	6.52	7.50	8.50	9.54	10.56	11.58	13.04	7 / 1					
reaction time	0.130	interval	7 steps	1.04	1.02	0.98	0.98	0.98	1.00	1.04	1.02	1.02	1.46		3.04	2.96	3.08		
wind	-0.5 m/s	velocity	5.49	8.79	8.96	9.33	9.33	9.33	9.14	8.79	8.96	8.96	9.60	8.44	9.02	9.26	8.90		
Holloway, Grant (USA) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)											<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>								
date	02-Jun-23	time	2.45	3.46	4.44	5.42	6.40	7.41	8.42	9.45	10.51	11.59	13.04	6 / 1					
reaction time	0.152	interval	7 steps	1.01	0.98	0.98	0.98	1.01	1.01	1.03	1.06	1.08	1.45		2.97	3.00	3.17		
wind	-0.2 m/s	velocity	5.60	9.05	9.33	9.33	9.33	9.05	9.05	8.87	8.62	8.46	9.67	8.44	9.23	9.14	8.65		
Allen, Devon (USA) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)											<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>								
date	24-Jun-23	time	2.57	3.62	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	
Schwarthoff, Florian (GER) (1968)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1995 German National Championships (Bremen, GER)	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
date	02-Jul-95	time	2.54	3.59	4.61	5.60	6.59	7.60	8.58	9.59	10.61	11.65		13.05	/ 1			
reaction time		interval		1.05	1.02	0.99	0.99	1.01	0.98	1.01	1.02	1.04	1.40	NR		3.06	2.98	3.07
wind	-0.8 m/s	velocity	5.40	8.70	8.96	9.23	9.23	9.05	9.33	9.05	8.96	8.79	10.01	8.43		8.96	9.20	8.93
Crear, Mark (USA) (1968)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1996 USA Olympic Trials (Atlanta, GA)	<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
Jackson, Colin (GBR) (1967)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1997 IAAF World Championships (Athens, GRE)	<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	9.14	8.96	8.79	8.79	10.54	8.43		9.02	9.14	8.85
Richardson, Jason (USA) (1986)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)	<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																	
date	07-Sep-12	time	2.50	3.54	4.52	5.50	6.50	7.50	8.50	9.50	10.54	11.58		13.05	5 / 2			
reaction time	0.147	interval	7 steps	1.04	0.98	0.98	1.00	1.00	1.00	1.00	1.04	1.04	1.47			3.00	3.00	3.08
wind	0.3 m/s	velocity	5.49	8.79	9.33	9.33	9.14	9.14	9.14	9.14	8.79	8.79	9.54	8.43		9.14	9.14	8.90
McLeod, Omar (JAM) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)	<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																	
date	06-May-16	time	2.50	3.54	4.54	5.54	6.52	7.50	8.50	9.54	10.56	11.62		13.05	4 / 1			
reaction time	0.131	interval		1.04	1.00	1.00	0.98	0.98	1.00	1.04	1.02	1.06	1.43			3.04	2.96	3.12
wind	1.4 m/s	velocity	5.49	8.79	9.14	9.14	9.33	9.33	9.14	8.79	8.96	8.62	9.80	8.43		9.02	9.26	8.79
McLeod, Omar (JAM) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)	<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																	
date	16-Aug-16	time	2.44	3.50	4.52	5.54	6.54	7.54	8.56	9.60	10.60	11.62		13.05	5 / 1			
reaction time	0.142	interval		1.06	1.02	1.02	1.00	1.00	1.02	1.04	1.00	1.02	1.43			3.10	3.02	3.06
wind	0.2 m/s	velocity	5.62	8.62	8.96	8.96	9.14	9.14	8.96	8.79	9.14	8.96	9.80	8.43		8.85	9.08	8.96
Levy, Ronald (JAM) (1992)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Meeting de Paris (Paris, FRA) (TV Analysis)	<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																	
date	01-Jul-17	time	2.44	3.46	4.50	5.50	6.48	7.50	8.54	9.54	10.58	11.66		13.05	8 / 1			
reaction time	0.133	interval	7 steps	1.02	1.04	1.00	0.98	1.02	1.04	1.00	1.04	1.08	1.39	PB		3.06	3.04	3.12
wind	-0.1 m/s	velocity	5.62	8.96	8.79	9.14	9.33	8.96	8.79	9.14	8.79	8.46	10.09	8.43		8.96	9.02	8.79
Ortega, Orlando (ESP) (1991)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2019 Athletissima (Lausanne, SUI) (TV Analysis)	<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																	
date	05-Jul-19	time	2.52	3.52	4.54	5.54	6.54	7.54	8.54	9.56	10.58	11.62		13.05	4 / 1			
reaction time	0.134	interval	7 steps	1.00	1.02	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.43			3.02	3.00	3.08
wind	1.0 m/s	velocity	5.44	9.14	8.96	9.14	9.14	9.14	9.14	8.96	8.96	8.79	9.80	8.43		9.08	9.14	8.90
Zhoya, Sasha (FRA) (2002)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2021 European U20 Championships (Tallinn, EST) (99.1cm) (TV Analysis)	<i>Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record</i>																	
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	1.04	1.00	1.53	CR			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	8.79	9.14	9.16	8.43			9.14	9.14	9.02
Holloway, Grant (USA) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)	<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
Roberts, Daniel (USA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																	
date	09-Jul-23	time	2.46	3.47	4.47	5.47	6.47	7.47	8.48	9.51	10.55	11.63		13.05	6 / 1			
reaction time		interval		1.01	1.00	1.00	1.00	1.00	1.01	1.03	1.04	1.08	1.42			3.01	3.01	3.15
wind	-0.2 m/s	velocity	5.58	9.05	9.14	9.14	9.14	9.14	9.05	8.87	8.79	8.46	9.87	8.43		9.11	9.11	8.70
Johnson, Allen (USA) (1971)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2003 Athletissima Meeting (Lausanne, SUI)	<i>Xu (2004) - an analysis of Liu Xiang's technique in 100m hurdle final at the Athens Olympic Games</i>																	
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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Doucouré, Ladji (FRA) (1983)																			
Semi-Final 2 - 2004 Olympic Games (Athens, GRE)		<i>Liagone (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		NR / PB	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	
Liu Xiang (CHN) (1983)																			
FINAL - 2004 Osaka Grand Prix (Osaka, JPN)		<i>Zhang (2005) - technical characteristics analysis of 110m hurdles race of Liu Xiang</i>																	
date	08-May-04	time	2.56	3.59	4.59	5.57	6.58	7.58	8.60	9.62	10.65	11.69		13.06	/ 1				
reaction time		interval		1.03	1.00	0.98	1.01	1.00	1.02	1.02	1.03	1.04	1.37		AR	3.01	3.03	3.09	
wind	-1.2 m/s	velocity	5.36	8.87	9.14	9.33	9.05	9.14	8.96	8.96	8.87	8.79	10.23	8.42		9.11	9.05	8.87	
Liu Xiang (CHN) (1983)																			
FINAL - 2004 Chinese National Grand Prix (Tianjin, CHN)		<i>Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles</i>																	
date	01-Aug-04	time	2.57	3.61	4.62	5.62	6.62	7.63	8.63	9.65	10.67	11.72		13.06	/ 1				
reaction time		interval		1.04	1.01	1.00	1.00	1.01	1.00	1.02	1.02	1.05	1.34		=PB	3.05	3.01	3.09	
wind	-0.8 m/s	velocity	5.34	8.79	9.05	9.14	9.14	9.05	9.14	8.96	8.96	8.70	10.46	8.42		8.99	9.11	8.87	
Richardson, Jason (USA) (1986)																			
FINAL - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																	
date	13-Jul-12	time	2.48	3.50	4.50	5.50	6.50	7.50	8.48	9.48	10.54	11.58		13.06	3 / 2				
reaction time	0.166	interval		7 steps	1.02	1.00	1.00	1.00	0.98	1.00	1.06	1.04	1.48			3.02	2.98	3.10	
wind	0.6 m/s	velocity	5.53	8.96	9.14	9.14	9.14	9.14	9.33	9.14	8.62	8.79	9.47	8.42		9.08	9.20	8.85	
McLeod, Omar (JAM) (1994)																			
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)		<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>																	
date	28-May-16	time	2.44	3.50	4.52	5.54	6.56	7.56	8.56	9.58	10.60	11.62		13.06	4 / 1				
reaction time		interval		1.06	1.02	1.02	1.02	1.00	1.00	1.02	1.02	1.02	1.44			3.10	3.02	3.06	
wind	0.7 m/s	velocity	5.62	8.62	8.96	8.96	8.96	9.14	9.14	8.96	8.96	8.96	9.74	8.42		8.85	9.08	8.96	
Roberts, Daniel (USA) (1998)																			
Semi-Final 1 - 2019 NCAA National Championships (Austin, TX) (TV Analysis)		<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																	
date	05-Jun-19	time	2.33	3.35	4.35	5.35	6.35	7.38	8.41	9.43	10.46	11.50		13.06	6 / 1				
reaction time	0.203	interval		1.02	1.00	1.00	1.00	1.03	1.03	1.02	1.03	1.04	1.56		PB	3.02	3.06	3.09	
wind	0.9 m/s	velocity	5.89	8.96	9.14	9.14	9.14	8.87	8.87	8.96	8.87	8.79	8.99	8.42		9.08	8.96	8.87	
Izumiya, Shunsuke (JPN) (2000)																			
FINAL - 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	2.55	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	
Zhoya, Sasha (FRA) (2002)																			
FINAL - 2021 French National U20 Championships (Bondoufle, FRA) (99.1cm) (TV Analysis)		<i>Henson (2021) - Athlete First: 2021 Sasha Zhoya 110m Hurdles World U20 Record</i>																	
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	
Allen, Devon (USA) (1994)																			
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)		<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	1.00	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	
Levy, Ronald (JAM) (1992)																			
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)		<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																	
date	09-Sep-21	time	2.46	3.50	4.54	5.54	6.56	7.58	8.58	9.58	10.62	11.66		13.06	7 / 2				
reaction time	0.128	interval		7 steps	1.04	1.04	1.00	1.02	1.00	1.00	1.04	1.04	1.40			3.08	3.04	3.08	
wind	0.6 m/s	velocity	5.58	8.79	8.79	9.14	8.96	8.96	9.14	9.14	8.79	8.79	10.01	8.42		8.90	9.02	8.90	
Holloway, Grant (USA) (1997)																			
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)		<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																	
date	12-Jun-22	time	2.35	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	
Broadbell, Rasheed (JAM) (2000)																			
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)		<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	
Izumiya, Shunsuke (JPN) (2000)																			
FINAL - 2023 London Athletics Meet (London, GBR)		<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
Holloway, Grant (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2023 Prefontaine Classic (Eugene, OR)																			
date	17-Sep-23	time	2.33	3.35	4.34	5.34	6.34	7.34	8.35	9.38	10.41	11.47		13.06		6 / 2			
reaction time	0.153	interval	7 steps	1.02	0.99	1.00	1.00	1.00	1.01	1.03	1.03	1.06	1.59				3.01	3.01	3.12
wind	0.9 m/s	velocity	5.89	8.96	9.23	9.14	9.14	9.14	9.05	8.87	8.87	8.62	8.82	8.42			9.11	9.11	8.79
García, Anier (CUB) (1976)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1999 IAAF World Championships (Sevilla, ESP)																			
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
Doucouré, Ladji (FRA) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2005 IAAF World Championships (Helsinki, FIN)																			
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
Richardson, Jason (USA) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2012 Herculis Meeting International D'Athlétisme (Monaco, MON) (TV Analysis)																			
date	20-Jul-12	time	2.50	3.52	4.52	5.52	6.50	7.50	8.48	9.48	10.52	11.56		13.07		4 / 2			
reaction time	0.162	interval	7 steps	1.02	1.00	1.00	0.98	1.00	0.98	1.00	1.04	1.04	1.51				3.02	2.96	3.08
wind	0.0 m/s	velocity	5.49	8.96	9.14	9.14	9.33	9.14	9.33	9.14	8.79	8.79	9.28	8.42			9.08	9.26	8.90
Merritt, Aries (USA) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 5 - 2012 Olympic Games (London, GBR) (TV Analysis)																			
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
Shubenkov, Sergey (ANA) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2018 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)																			
date	20-Jul-18	time	2.52	3.56	4.56	5.56	6.56	7.56	8.56	9.56	10.58	11.60		13.07		4 / 1			
reaction time	0.132	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.47				3.04	3.00	3.04
wind	-0.2 m/s	velocity	5.44	8.79	9.14	9.14	9.14	9.14	9.14	9.14	8.96	8.96	9.54	8.42			9.02	9.14	9.02
Roberts, Daniel (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2019 South Eastern Conference Championships (Fayetteville, AR) (TV Analysis)																			
date	11-May-19	time	2.53	3.56	4.58	5.60	6.60	7.58	8.60	9.62	10.66	11.72		13.07		4 / 1			
reaction time		interval		1.03	1.02	1.02	1.00	0.98	1.02	1.02	1.04	1.06	1.35	PB			3.07	3.00	3.12
wind	1.0 m/s	velocity	5.42	8.87	8.96	8.96	9.14	9.33	8.96	8.96	8.79	8.62	10.39	8.42			8.93	9.14	8.79
McLeod, Omar (JAM) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2019 ISTAF (Berlin, GER) (TV Analysis)																			
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
Holloway, Grant (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2021 Tom Jones Invitational (Gainesville, FL) (TV Analysis)																			
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
Allen, Devon (USA) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2021 Athletissima (Lausanne, SUI) (TV Analysis)																			
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	1.06	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
Cunningham, Trey (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2022 NCAA East Region Preliminary (Bloomington, IN) (TV Analysis)																			
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
Cunningham, Trey (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																			
date	17-Jul-22	time	2.48	3.50	4.50	5.50	6.50	7.53	8.53	9.56	10.60	11.66		13.07		3 / 1			
reaction time	0.120	interval	7 steps	1.02	1.00	1.00	1.00	1.03	1.00	1.03	1.04	1.06	1.41				3.02	3.03	3.13

wind	0.3 m/s	velocity	5.53	8.96	9.14	9.14	9.14	8.87	9.14	8.87	8.79	8.62	9.94	8.42	9.08	9.05	8.76
Crittenden, Freddie (USA) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)												<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
Edwards, Eric (USA) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)												<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	21-May-23	time	2.53	3.56	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	1.04	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	8.79	8.79	8.62	10.23	8.42	9.05	9.14	8.73	
Belocian, Wilhem (FRA) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 French National Championships (Albi, FRA) (TV Analysis)												<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
Parchment, Hansle (JAM) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)												<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	21-Aug-23	time	2.56	3.62	4.62	5.60	6.60	7.62	8.62	9.62	10.64	11.66		13.07	8 / 2		
reaction time	0.169	interval	7 steps	1.06	1.00	0.98	1.00	1.02	1.00	1.00	1.02	1.02	1.41		3.04	3.02	3.04
wind	0.0 m/s	velocity	5.36	8.62	9.14	9.33	9.14	8.96	9.14	9.14	8.96	8.96	9.94	8.42	9.02	9.08	9.02
Roberts, Daniel (USA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Prefontaine Classic (Eugene, OR)												<i>Omega Timing (2023) - diamond league race analysis</i>					
date	17-Sep-23	time	2.34	3.37	4.37	5.38	6.39	7.40	8.42	9.46	10.50	11.55		13.07	3 / 3		
reaction time	0.149	interval	1.03	1.00	1.01	1.01	1.01	1.02	1.04	1.04	1.05	1.52			3.04	3.04	3.13
wind	0.9 m/s	velocity	5.86	8.87	9.14	9.05	9.05	9.05	8.96	8.79	8.79	8.70	9.22	8.42	9.02	9.02	8.76
Olijar, Stanislav (LAT) (1979)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2003 Athletissima Meeting (Lausanne, SUI)												<i>Zhang (2005) - technical characteristics analysis of 110m hurdles race of Liu Xiang</i>					
date	01-Jul-03	time	2.58	3.60	4.60	5.60	6.58	7.58	8.60	9.60	10.64	11.70		13.08	/ 2		
reaction time		interval	1.02	1.00	1.00	0.98	1.00	1.02	1.00	1.04	1.06	1.38			3.02	3.00	3.10
wind	0.0 m/s	velocity	5.32	8.96	9.14	9.14	9.33	9.14	8.96	9.14	8.79	8.62	10.16	8.41	9.08	9.14	8.85
Trammell, Terrence (USA) (1978)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 USATF National Championships (Indianapolis, IN)												<i>USATF Men's Hurdle Development (2007)</i>					
date	24-Jun-07	time	2.55	3.59	4.59	5.59	6.59	7.59	8.59	9.59	10.61	11.70		13.08	3 / 1		
reaction time		interval	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.02	1.09	1.38			3.04	3.00	3.11
wind	0.5 m/s	velocity	5.38	8.79	9.14	9.14	9.14	9.14	9.14	9.14	8.96	8.39	10.16	8.41	9.02	9.14	8.82
Payne, David (USA) (1982)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)												<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>					
date	23-Sep-07	time	2.57	3.61	4.64	5.65	6.67	7.68	8.69	9.69	10.71	11.74		13.08	5 / 2		
reaction time	0.146	interval	1.04	1.03	1.01	1.02	1.01	1.01	1.00	1.02	1.03	1.34			3.08	3.04	3.05
wind	0.0 m/s	velocity	5.34	8.79	8.87	9.05	8.96	9.05	9.05	9.14	8.96	8.87	10.46	8.41	8.90	9.02	8.99
Porter, Jeff (USA) (1985)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 USA Olympic Trials (Eugene, OR)												<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	30-Jun-12	time	2.40	3.42	4.43	5.42	6.44	7.44	8.44	9.47	10.51	11.53		13.08	4 / 3		
reaction time	0.157	interval	1.02	1.01	0.99	1.02	1.00	1.00	1.03	1.04	1.02	1.55			3.02	3.02	3.09
wind	1.2 m/s	velocity	5.72	8.96	9.05	9.23	8.96	9.14	9.14	8.87	8.79	8.96	9.05	8.41	9.08	9.08	8.87
Ortega, Orlando (ESP) (1991)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)												<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	09-Sep-16	time	2.50	3.54	4.57	5.57	6.57	7.57	8.57	9.59	10.61	11.64		13.08	5 / 1		
reaction time	0.145	interval	7 steps	1.04	1.03	1.00	1.00	1.00	1.00	1.02	1.02	1.03	1.44		3.07	3.00	3.07
wind	0.2 m/s	velocity	5.49	8.79	8.87	9.14	9.14	9.14	8.96	8.96	8.87	9.74	8.41	8.93	9.14	8.93	
Shubenkov, Sergey (ANA) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	26-May-18	time	2.56	3.58	4.58	5.56	6.56	7.56	8.56	9.58	10.62	11.66		13.08	6 / 2		
reaction time	0.173	interval	7 steps	1.02	1.00	0.98	1.00	1.00	1.00	1.02	1.04	1.04	1.42		3.00	3.00	3.10
wind	3.0 m/s	velocity	5.36	8.96	9.14	9.33	9.14	9.14	9.14	8.96	8.79	8.79	9.87	8.41	9.14	9.14	8.85
Ortega, Orlando (ESP) (1991)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	18-Aug-18	time	2.48	3.52	4.54	5.54	6.52	7.52	8.52	9.54	10.56	11.58		13.08	6 / 1		
reaction time	0.139	interval	7 steps	1.04	1.02	1.00	0.98	1.00	1.00	1.02	1.02	1.02	1.50		3.06	2.98	3.06
wind	1.3 m/s	velocity	5.53	8.79	8.96	9.14	9.33	9.14	9.14	8.96	8.96	8.96	9.35	8.41	8.96	9.20	8.96

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Roberts, Daniel (USA) (1998)																		
FINAL - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	24-Aug-19	time	2.46	3.48	4.50	5.52	6.52	7.52	8.54	9.56	10.58	11.66	13.08	3 / 1				
reaction time	0.161	interval		1.02	1.02	1.02	1.00	1.00	1.02	1.02	1.02	1.08	1.42		3.06	3.02	3.12	
wind	0.8 m/s	velocity	5.58	8.96	8.96	8.96	9.14	9.14	8.96	8.96	8.96	8.46	9.87	8.41	8.96	9.08	8.79	
McLeod, Omar (JAM) (1994)																		
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)													<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	
McLeod, Omar (JAM) (1994)																		
FINAL - 2021 Fanny Blankers Koen Games (Hengelo, NED) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	06-Jun-21	time	2.37	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	
Levy, Ronald (JAM) (1992)																		
Heat 1 - 2021 Jamaican National Championships (Kingston, JAM) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	26-Jun-21	time	2.53	3.53	4.56	5.56	6.53	7.53	8.53	9.53	10.56	11.60	13.08	5 / 2				
reaction time		interval		7 steps	1.00	1.03	1.00	0.97	1.00	1.00	1.00	1.03	1.04	1.48	3.03	2.97	3.07	
wind	1.3 m/s	velocity	5.42	9.14	8.87	9.14	9.42	9.14	9.14	9.14	9.14	8.87	8.79	9.47	9.05	9.23	8.93	
Holloway, Grant (USA) (1997)																		
FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	06-Jul-21	time	2.36	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	
Allen, Devon (USA) (1994)																		
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	28-Aug-21	time	2.52	3.54	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	
Cunningham, Trey (USA) (1998)																		
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)													<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	
Cunningham, Trey (USA) (1998)																		
FINAL - 2022 World Athletics Championships (Eugene, OR)													<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	17-Jul-22	time	2.52	3.53	4.53	5.54	6.53	7.58	8.60	9.63	10.65	11.72	13.08	6 / 2				
reaction time	0.109	interval		7 steps	1.01	1.00	1.01	0.99	1.05	1.02	1.03	1.02	1.07	1.36	3.02	3.06	3.12	
wind	1.2 m/s	velocity	5.44	9.05	9.14	9.05	9.23	8.70	8.96	8.87	8.96	8.54	10.31	8.41	9.08	8.96	8.79	
Parchment, Hansle (JAM) (1990)																		
FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	10-Aug-22	time	2.50	3.53	4.53	5.53	6.53	7.53	8.53	9.56	10.56	11.60	13.08	5 / 3				
reaction time	0.128	interval		7 steps	1.03	1.00	1.00	1.00	1.00	1.00	1.04	1.48		3.03	3.00	3.07		
wind	0.6 m/s	velocity	5.49	8.87	9.14	9.14	9.14	9.14	8.87	9.14	8.79	9.47	8.41	9.05	9.14	8.93		
Britt, Jamal (USA) (1998)																		
FINAL - 2022 NACAC Championships (Freeport, BAH) (TV Analysis)													<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	1.02	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	
Broadbell, Rasheed (JAM) (2000)																		
FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)													<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	1.00	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	
Tinch, Cordell (USA) (2000)																		
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	09-Jul-23	time	2.47	3.49	4.50	5.50	6.48	7.48	8.50	9.52	10.55	11.62	13.08	3 / 2				
reaction time		interval		7 steps	1.02	1.01	1.00	0.98	1.00	1.02	1.02	1.03	1.07	1.46	3.03	3.00	3.12	
wind	-0.2 m/s	velocity	5.55	8.96	9.05	9.14	9.33	9.14	8.96	8.96	8.87	8.54	9.60	8.41	9.05	9.14	8.79	
Joseph, Jason (SUI) (1998)																		
FINAL - 2023 Weltklasse (Zürich, SUI)													<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	9.14	9.05	9.14	8.87	8.70	9.10	8.41		8.99	9.11	8.90	
Crear, Mark (USA) (1968)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1996 Olympic Games (Atlanta, GA)																			
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	
Liu Xiang (CHN) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2012 Seiko Golden Grand Prix (Kawasaki, JPN)																			
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	4 / 1				
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	
Shubenkov, Sergey (RUS) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2012 Herculis Meeting International D'Atlétisme (Monaco, MON) (TV Analysis)																			
date	20-Jul-12	time	2.46	3.50	4.52	5.54	6.54	7.52	8.52	9.54	10.56	11.60		13.09	7 / 3				
reaction time	0.143	interval		1.04	1.02	1.02	1.00	0.98	1.00	1.02	1.02	1.04	1.49	NR		3.08	2.98	3.08	
wind	0.0 m/s	velocity	5.58	8.79	8.96	8.96	9.14	9.33	9.14	8.96	8.96	8.79	9.41	8.40		8.90	9.20	8.90	
Oliver, David (USA) (1982)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2016 Racers Grand Prix (Kingston, JAM) (TV Analysis)																			
date	11-Jun-16	time	2.43	3.46	4.46	5.46	6.46	7.43	8.46	9.50	10.50	11.56		13.09	4 / 1				
reaction time	0.161	interval	7 steps	1.03	1.00	1.00	1.00	0.97	1.03	1.04	1.00	1.06	1.53			3.03	3.00	3.10	
wind	0.2 m/s	velocity	5.65	8.87	9.14	9.14	9.14	9.42	8.87	8.79	9.14	8.62	9.16	8.40		9.05	9.14	8.85	
Ortega, Orlando (ESP) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2016 Spanish National Championships (Gijón, ESP) (TV Analysis)																			
date	24-Jul-16	time	2.50	3.56	4.57	5.56	6.54	7.56	8.56	9.56	10.56	11.60		13.09	4 / 1				
reaction time	0.161	interval	7 steps	1.06	1.01	0.99	0.98	1.02	1.00	1.00	1.00	1.04	1.49			3.06	3.00	3.04	
wind	1.0 m/s	velocity	5.49	8.62	9.05	9.23	9.33	8.96	9.14	9.14	9.14	8.79	9.41	8.40		8.96	9.14	9.02	
McLeod, Omar (JAM) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)																			
date	13-May-17	time	2.48	3.50	4.54	5.58	6.56	7.58	8.58	9.62	10.64	11.70		13.09	5 / 1				
reaction time	0.141	interval		1.02	1.04	1.04	0.98	1.02	1.00	1.04	1.02	1.06	1.39			3.10	3.00	3.12	
wind	0.5 m/s	velocity	5.53	8.96	8.79	8.79	9.33	8.96	9.14	8.79	8.96	8.62	10.09	8.40		8.85	9.14	8.79	
Ortega, Orlando (ESP) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)																			
date	18-Jun-17	time	2.56	3.56	4.58	5.62	6.62	7.62	8.62	9.60	10.62	11.64		13.09	4 / 1				
reaction time	0.146	interval		1.00	1.02	1.04	1.00	1.00	1.00	0.98	1.02	1.02	1.45			3.06	3.00	3.02	
wind	3.5 m/s	velocity	5.36	9.14	8.96	8.79	9.14	9.14	9.14	9.33	8.96	8.96	9.67	8.40		8.96	9.14	9.08	
Darien, Garfield (FRA) (1987)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)																			
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	PB		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	
Merritt, Aries (USA) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Müller's Anniversary Games (London, GBR)																			
date	09-Jul-17	time	2.52	3.56	4.58	5.56	6.58	7.58	8.58	9.58	10.62	11.62		13.09	4 / 1				
reaction time	0.134	interval	7 steps	1.04	1.02	0.98	1.02	1.00	1.00	1.00	1.04	1.00	1.47			3.04	3.02	3.04	
wind	0.0 m/s	velocity	5.44	8.79	8.96	9.33	8.96	9.14	9.14	9.14	8.79	9.14	9.54	8.40		9.02	9.08	9.02	
Shubenkov, Sergey (ANA) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2018 Meeting Città di Padova (Padova, ITA) (TV Analysis)																			
date	02-Sep-18	time	2.56	3.58	4.60	5.58	6.56	7.56	8.56	9.56	10.56	11.60		13.09	4 / 1				
reaction time		interval	7 steps	1.02	1.02	0.98	0.98	1.00	1.00	1.00	1.00	1.04	1.49			3.02	2.98	3.04	
wind	1.7 m/s	velocity	5.36	8.96	8.96	9.33	9.33	9.14	9.14	9.14	9.14	8.79	9.41	8.40		9.08	9.20	9.02	
Holloway, Grant (USA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																			
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	
Parchment, Hansle (JAM) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)																			
date	21-May-22	time	2.47	3.50	4.50	5.49	6.47	7.45	8.45	9.45	10.49	11.53		13.09	4 / 1				
reaction time	0.143	interval	7 steps	1.03	1.00	0.99	0.98	0.98	1.00	1.00	1.04	1.04	1.56			3.02	2.96	3.08	

wind	0.7 m/s	velocity	5.55	8.87	9.14	9.23	9.33	9.33	9.14	9.14	8.79	8.79	8.99	8.40	9.08	9.26	8.90
Cunningham, Trey (USA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)	<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
Allen, Devon (USA) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)	<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
Britt, Jamal (USA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)	<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
Allen, Devon (USA) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)	<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
Dunning, Robert (USA) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Adidas Atlanta City Games (Atlanta, GA) (street) (TV Analysis)	<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	PB	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
Kwaou-Mathey, Just (FRA) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Meeting de Paris (Paris, FRA)	<i>Omega Timing (2023) - diamond league race analysis</i>																
date	09-Jun-23	time	2.40	3.45	4.45	5.43	6.43	7.43	8.44	9.46	10.50	11.55		13.09	7 / 2		
reaction time	0.171	interval	7 steps	1.05	1.00	0.98	1.00	1.00	1.01	1.02	1.04	1.05	1.54	PB	3.03	3.01	3.11
wind	-0.5 m/s	velocity	5.72	8.70	9.14	9.33	9.14	9.14	9.05	8.96	8.79	8.70	9.10	8.40	9.05	9.11	8.82
Roberts, Daniel (USA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	21-Aug-23	time	2.48	3.50	4.50	5.50	6.50	7.54	8.54	9.60	10.64	11.68		13.09	3 / 3		
reaction time	0.143	interval		1.02	1.00	1.00	1.00	1.04	1.00	1.06	1.04	1.04	1.41		3.02	3.04	3.14
wind	0.0 m/s	velocity	5.53	8.96	9.14	9.14	9.14	8.79	9.14	8.62	8.79	8.79	9.94	8.40	9.08	9.02	8.73
García, Anier (CUB) (1976)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2002 IAAF World Cup (Madrid, ESP)	<i>Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas</i>																
date	21-Sep-02	time	2.47	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
Liu Xiang (CHN) (1983)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2005 Chinese National Games (Nanjing, CHN)	<i>Wang (2013) - analysis on the technical characteristics of Liu Xiang's and Shi Dongpeng's 110m Hurdles</i>																
date	20-Oct-05	time	2.60	3.63	4.65	5.64	6.65	7.65	8.65	9.67	10.69	11.71		13.10	1 / 1		
reaction time		interval		1.03	1.02	0.99	1.01	1.00	1.00	1.02	1.02	1.02	1.39		3.04	3.01	3.06
wind	0.4 m/s	velocity	5.28	8.87	8.96	9.23	9.05	9.14	9.14	8.96	8.96	8.96	10.09	8.40	9.02	9.11	8.96
Arnold, Dominique (USA) (1973)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2006 USATF National Championships (Indianapolis, IN)	<i>USATF 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 / 1		
reaction time		interval		1.04	0.98	0.99	1.00	1.01	0.99	1.03	1.02	1.07	1.42		3.01	3.00	3.12
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
Parchment, Hansle (JAM) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)	<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																
date	06-May-16	time	2.56	3.62	4.64	5.64	6.64	7.64	8.64	9.64	10.66	11.70		13.10	7 / 2		
reaction time	0.127	interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.40		3.08	3.00	3.06
wind	1.4 m/s	velocity	5.36	8.62	8.96	9.14	9.14	9.14	9.14	9.14	8.96	8.79	10.01	8.40	8.90	9.14	8.96
Robles, Dayron (CUB) (1986)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2012 Olympic Games (London, GBR) (TV Analysis)	<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																
date	08-Aug-12	time	2.48	3.48	4.48	5.46	6.46	7.46	8.50	9.54	10.58	11.62		13.10	7 / 1		
reaction time	0.162	interval	7 steps	1.00	1.00	0.98	1.00	1.00	1.04	1.04	1.04	1.04	1.48		2.98	3.04	3.12
wind	0.1 m/s	velocity	5.53	9.14	9.14	9.33	9.14	9.14	8.79	8.79	8.79	8.79	9.47	8.40	9.20	9.02	8.79

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Levy, Ronald (JAM) (1992)																		
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																
date	27-May-17	time	2.44	3.48	4.50	5.52	6.52	7.54	8.54	9.58	10.60	11.64	13.10	1 / 2				
reaction time	0.151	interval	7 steps	1.04	1.02	1.02	1.00	1.02	1.00	1.04	1.02	1.04	1.46		PB	3.08	3.02	3.10
wind	0.9 m/s	velocity	5.62	8.79	8.96	8.96	9.14	8.96	9.14	8.79	8.96	8.79	9.60	8.40		8.90	9.08	8.85
Shubenkov, Sergey (ANA) (1990)																		
FINAL - 2017 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)		<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																
date	18-Jun-17	time	2.52	3.58	4.56	5.58	6.58	7.56	8.56	9.54	10.60	11.66	13.10	5 / 2				
reaction time	0.141	interval	7 steps	1.06	0.98	1.02	1.00	0.98	1.00	0.98	1.06	1.06	1.44			3.06	2.98	3.10
wind	3.5 m/s	velocity	5.44	8.62	9.33	8.96	9.14	9.33	9.14	9.33	8.62	8.62	9.74	8.40		8.96	9.20	8.85
McLeod, Omar (JAM) (1994)																		
Semi-Final 1 - 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	2.37	3.43	4.45	5.46	6.48	7.47	8.47	9.49	10.53	11.57	13.10	7 / 1				
reaction time	0.135	interval	7 steps	1.06	1.02	1.01	1.02	0.99	1.00	1.02	1.04	1.04	1.53			3.09	3.01	3.10
wind	0.2 m/s	velocity	5.79	8.62	8.96	9.05	8.96	9.23	9.14	8.96	8.79	8.79	9.16	8.40		8.87	9.11	8.85
Ortega, Orlando (ESP) (1991)																		
FINAL - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)		<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																
date	31-Aug-18	time	2.54	3.56	4.58	5.58	6.56	7.56	8.58	9.58	10.62	11.66	13.10	6 / 2				
reaction time	0.124	interval	7 steps	1.02	1.02	1.00	0.98	1.00	1.02	1.00	1.04	1.04	1.44			3.04	3.00	3.08
wind	-0.1 m/s	velocity	5.40	8.96	8.96	9.14	9.33	9.14	8.96	9.14	8.79	8.79	9.74	8.40		9.02	9.14	8.90
Holloway, Grant (USA) (1997)																		
Quarter-Final 1 - 2019 NCAA Championships - East Preliminary Round (Jacksonville, FL) (TV Analysis)		<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	3.12
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	8.79
Holloway, Grant (USA) (1997)																		
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)		<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	3.22
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	8.52
Holloway, Grant (USA) (1997)																		
FINAL - 2019 IAAF World Championships (Doha, QAT)		<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	3.18
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	8.62
Allen, Devon (USA) (1994)																		
Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)		<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
Allen, Devon (USA) (1994)																		
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)		<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
Levy, Ronald (JAM) (1992)																		
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																
date	06-Aug-21	time	2.46	3.50	4.54	5.56	6.58	7.60	8.60	9.62	10.66	11.72	13.10	5 / 3				
reaction time	0.146	interval	7 steps	1.04	1.04	1.02	1.02	1.02	1.00	1.02	1.04	1.06	1.38			3.10	3.04	3.12
wind	-0.5 m/s	velocity	5.58	8.79	8.79	8.96	8.96	8.96	9.14	8.96	8.79	8.62	10.16	8.40		8.85	9.02	8.79
Cunningham, Trey (USA) (1998)																		
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)		<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																
date	26-Aug-22	time	2.47	3.44	4.44	5.42	6.38	7.38	8.40	9.46	10.52	11.62	13.10	3 / 2				
reaction time	0.140	interval	7 steps	0.97	1.00	0.98	0.96	1.00	1.02	1.06	1.06	1.10	1.48			2.95	2.98	3.22
wind	0.0 m/s	velocity	5.55	9.42	9.14	9.33	9.52	9.14	8.96	8.62	8.62	8.31	9.47	8.40		9.29	9.20	8.52
Joseph, Jason (SUI) (1998)																		
FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)		<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			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
Izumiya, Shunsuke (JPN) (2000)																		
FINAL - 2023 Prefontaine Classic (Eugene, OR)		<i>Omega Timing (2023) - diamond league race analysis</i>																

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLeod, Omar (JAM) (1994)																	
FINAL - 2016 Athletissima (Lausanne, SUI) (TV Analysis)		Henson (2020) - Athlete First: 2016 year end hurdle report															
date	25-Aug-16	time	2.48	3.54	4.56	5.58	6.58	7.58	8.62	9.64	10.64	11.70	13.12	4 / 2			
reaction time	0.144	interval	1.06	1.02	1.02	1.00	1.00	1.04	1.02	1.00	1.06	1.42			3.10	3.04	3.08
wind	0.5 m/s	velocity	5.53	8.62	8.96	8.96	9.14	9.14	8.79	8.96	9.14	8.62	9.87	8.38	8.85	9.02	8.90
Martinot Lagarde, Pascal (FRA) (199																	
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)		Henson (2020) - Athlete First: 2016 year end hurdle report															
date	09-Sep-16	time	2.48	3.50	4.50	5.50	6.50	7.50	8.50	9.54	10.57	11.64	13.12	6 / 2			
reaction time	0.160	interval	7 steps	1.02	1.00	1.00	1.00	1.00	1.04	1.03	1.07	1.48			3.02	3.00	3.14
wind	0.2 m/s	velocity	5.53	8.96	9.14	9.14	9.14	9.14	9.14	8.79	8.87	8.54	9.47	8.38	9.08	9.14	8.73
Levy, Ronald (JAM) (1992)																	
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)		Henson (2021) - Athlete First: 2018 year end hurdle report															
date	09-Sep-18	time	2.46	3.50	4.52	5.54	6.54	7.56	8.58	9.60	10.62	11.68	13.12	3 / 2			
reaction time	0.115	interval	7 steps	1.04	1.02	1.02	1.00	1.02	1.02	1.02	1.02	1.06	1.44		3.08	3.04	3.10
wind	0.9 m/s	velocity	5.58	8.79	8.96	8.96	9.14	8.96	8.96	8.96	8.62	9.74	8.38		8.90	9.02	8.85
Holloway, Grant (USA) (1997)																	
FINAL - 2019 South Eastern Conference Championships (Fayetteville, AR) (TV Analysis)		Henson (2020) - Athlete First: 2019 year end hurdle report															
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	3.18
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	8.62
McLeod, Omar (JAM) (1994)																	
FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)		CAA Hurdle Development (2019)															
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
Shubenkov, Sergey (ANA) (1990)																	
FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)		Henson (2020) - Athlete First: 2019 year end hurdle report															
date	16-Jun-19	time	2.50	3.54	4.56	5.58	6.58	7.60	8.60	9.62	10.66	11.70	13.12	6 / 1			
reaction time	0.135	interval	7 steps	1.04	1.02	1.02	1.00	1.02	1.00	1.02	1.04	1.04	1.42		3.08	3.02	3.10
wind	0.3 m/s	velocity	5.49	8.79	8.96	8.96	9.14	8.96	9.14	8.96	8.79	8.79	9.87	8.38	8.90	9.08	8.85
Martinot Lagarde, Pascal (FRA) (199																	
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)		CAA Hurdle Development (2019)															
date	02-Oct-19	time	2.55	3.60	4.61	5.61	6.62	7.62	8.62	9.65	10.68	11.73	13.12	6 / 2			
reaction time	0.163	interval	7 steps	1.05	1.01	1.00	1.01	1.00	1.00	1.03	1.03	1.05	1.39		3.06	3.01	3.11
wind	0.9 m/s	velocity	5.38	8.70	9.05	9.14	9.05	9.14	9.14	8.87	8.87	8.70	10.09	8.38	8.96	9.11	8.82
Zhoya, Sasha (FRA) (2002)																	
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
Parchment, Hansle (JAM) (1990)																	
FINAL - 2021 Boris Hanzeković Memorial (Zagreb, CRO) (TV Analysis)		Henson (2021) - Athlete First: 2021 year end hurdle report															
date	14-Sep-21	time	2.50	3.55	4.55	5.54	6.53	7.52	8.53	9.54	10.56	11.63	13.12	6 / 3			
reaction time	0.141	interval	7 steps	1.05	1.00	0.99	0.99	0.99	1.01	1.01	1.02	1.07	1.49		3.04	2.99	3.10
wind	0.7 m/s	velocity	5.49	8.70	9.14	9.23	9.23	9.23	9.05	9.05	8.96	8.54	9.41	8.38	9.02	9.17	8.85
Holloway, Grant (USA) (1997)																	
FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)		Omega Timing (2023) - diamond league race analysis															
date	28-May-23	time	2.35	3.36	4.34	5.33	6.32	7.34	8.36	9.40	10.45	11.52	13.12	6 / 2			
reaction time	0.177	interval	7 steps	1.01	0.98	0.99	0.99	1.02	1.02	1.04	1.05	1.07	1.60		2.98	3.03	3.16
wind	-1.3 m/s	velocity	5.84	9.05	9.33	9.23	9.23	8.96	8.96	8.79	8.70	8.54	8.76	8.38	9.20	9.05	8.68
Allen, Devon (USA) (1994)																	
FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)		Henson (2023) - Athlete First: 2023 year end hurdle report															
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
Parchment, Hansle (JAM) (1990)																	
FINAL - 2023 Jamaican National Championships (Kingston, JAM) (TV Analysis)		Henson (2023) - Athlete First: 2023 year end hurdle report															
date	09-Jul-23	time	2.53	3.58	4.60	5.58	6.56	7.56	8.54	9.56	10.58	11.62	13.12	4 / 2			
reaction time		interval	7 steps	1.05	1.02	0.98	0.98	1.00	0.98	1.02	1.02	1.04	1.50		3.05	2.96	3.08
wind	0.7 m/s	velocity	5.42	8.70	8.96	9.33	9.33	9.14	9.33	8.96	8.96	8.79	9.35	8.38	8.99	9.26	8.90
Holloway, Grant (USA) (1997)																	
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)		Omega Timing (2023) - diamond league race analysis															

wind	0.2 m/s	velocity	5.53	8.79	8.79	9.33	8.96	9.14	9.14	8.96	8.79	8.46	9.80	8.38	8.96	9.08	8.73
Roberts, Daniel (USA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Quarter-Final 3 - 2019 NCAA Championships - East Preliminary Round (Jacksonville, FL) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	25-May-19	time	2.36	3.40	4.40	5.44	6.48	7.48	8.50	9.54	10.56	11.62		13.13	5 / 1		
reaction time		interval		1.04	1.00	1.04	1.04	1.00	1.02	1.04	1.02	1.06	1.51		3.08	3.06	3.12
wind	1.5 m/s	velocity	5.81	8.79	9.14	8.79	8.79	9.14	8.96	8.79	8.96	8.62	9.28	8.38	8.90	8.96	8.79
Holloway, Grant (USA) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (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
Parchment, Hansle (JAM) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	26-Aug-22	time	2.60	3.64	4.64	5.64	6.64	7.64	8.64	9.64	10.67	11.71		13.13	4 / 4		
reaction time	0.151	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.03	1.04	1.42		3.04	3.00	3.07
wind	0.0 m/s	velocity	5.28	8.79	9.14	9.14	9.14	9.14	9.14	9.14	8.87	8.79	9.87	8.38	9.02	9.14	8.93
Ross, Duane (USA) (1972)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)													<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	24-Aug-99	time	2.53	3.56	4.56	5.58	6.57	7.56	8.59	9.60	10.63	11.68		13.14	3 / 1		
reaction time	0.151	interval		1.03	1.00	1.02	0.99	0.99	1.03	1.01	1.03	1.05	1.46		3.05	3.01	3.09
wind	0.0 m/s	velocity	5.42	8.87	9.14	8.96	9.23	9.23	8.87	9.05	8.87	8.70	9.60	8.37	8.99	9.11	8.87
Trammell, Terrence (USA) (1978)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2006 USATF National Championships (Indianapolis, IN)													<i>USATF Men's Hurdle Development (2006)</i>				
date	25-Jun-06	time	2.57	3.62	4.62	5.62	6.64	7.64	8.64	9.68	10.71	11.75		13.14	1 / 2		
reaction time		interval		1.05	1.00	1.00	1.02	1.00	1.00	1.04	1.03	1.04	1.39		3.05	3.02	3.11
wind	-0.4 m/s	velocity	5.34	8.70	9.14	9.14	8.96	9.14	9.14	8.79	8.87	8.79	10.09	8.37	8.99	9.08	8.82
Liu Xiang (CHN) (1983)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 Osaka Grand Prix (Osaka, JPN)													<i>Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles</i>				
date	05-May-07	time	2.43	3.49	4.51	5.50	6.50	7.50	8.51	9.53	10.55	11.58		13.14	1 / 1		
reaction time		interval		1.06	1.02	0.99	1.00	1.00	1.01	1.02	1.02	1.03	1.56		3.07	3.01	3.07
wind	0.8 m/s	velocity	5.65	8.62	8.96	9.23	9.14	9.14	9.05	8.96	8.96	8.87	8.99	8.37	8.93	9.11	8.93
Brathwaite, Ryan (BAR) (1988)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	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	1.40	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
Robles, Dayron (CUB) (1986)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)													<i>Henson (2021) - Athlete First: major championships report</i>				
date	29-Aug-11	time	2.40	3.45	4.47	5.47	6.47	7.47	8.47	9.51	10.54	11.64		13.14	5 / 4		
reaction time	0.150	interval	7 steps	1.05	1.02	1.00	1.00	1.00	1.00	1.04	1.03	1.10	1.50	DQ	3.07	3.00	3.17
wind	-1.1 m/s	velocity	5.72	8.70	8.96	9.14	9.14	9.14	9.14	8.79	8.87	8.31	9.35	8.37	8.93	9.14	8.65
Hicks, Antwon (USA) (1983)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 USA Olympic Trials (Eugene, OR)													<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>				
date	30-Jun-12	time	2.37	3.44	4.44	5.44	6.44	7.44	8.46	9.47	10.51	11.56		13.14	2 / 4		
reaction time	0.158	interval	7 steps	1.07	1.00	1.00	1.00	1.00	1.02	1.01	1.04	1.05	1.58		3.07	3.02	3.10
wind	1.2 m/s	velocity	5.79	8.54	9.14	9.14	9.14	9.14	8.96	9.05	8.79	8.70	8.87	8.37	8.93	9.08	8.85
Merritt, Aries (USA) (1985)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2012 AVIVA Grand Prix (London, GBR) (TV Analysis)													<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
Oliver, David (USA) (1982)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Herculis Meeting International D'Athlétisme (Monaco, MON) (TV Analysis)													<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>				
date	20-Jul-12	time	2.46	3.50	4.52	5.54	6.52	7.52	8.54	9.54	10.58	11.64		13.14	6 / 4		
reaction time	0.154	interval	7 steps	1.04	1.02	1.02	0.98	1.00	1.02	1.00	1.04	1.06	1.50		3.08	3.00	3.10
wind	0.0 m/s	velocity	5.58	8.79	8.96	8.96	9.33	9.14	8.96	9.14	8.79	8.62	9.35	8.37	8.90	9.14	8.85
Parchment, Hansle (JAM) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2012 Olympic Games (London, GBR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>				
date	08-Aug-12	time	2.54	3.58	4.62	5.62	6.62	7.62	8.62	9.62	10.64	11.66		13.14	5 / 2		
reaction time	0.172	interval	7 steps	1.04	1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.48	NR	3.08	3.00	3.04
wind	0.1 m/s	velocity	5.40	8.79	8.79	9.14	9.14	9.14	9.14	9.14	8.96	8.96	9.47	8.37	8.90	9.14	9.02

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Parchment, Hansle (JAM) (1990)																	
FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)		<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>															
date	07-Sep-12	time	2.56	3.62	4.62	5.60	6.60	7.58	8.58	9.60	10.62	11.66	13.14	4 / 3			
reaction time	0.157	interval	7 steps	1.06	1.00	0.98	1.00	0.98	1.00	1.02	1.02	1.04	1.48		3.04	2.98	3.08
wind	0.3 m/s	velocity	5.36	8.62	9.14	9.33	9.14	9.33	9.14	8.96	8.96	8.79	9.47	8.37	9.02	9.20	8.90
Pozzi, Andy (GBR) (1992)																	
FINAL - 2017 Meeting de Paris (Paris, FRA) (TV Analysis)		<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	01-Jul-17	time	2.48	3.50	4.50	5.48	6.48	7.48	8.50	9.54	10.58	11.66	13.14	3 / 2			
reaction time	0.107	interval	7 steps	1.02	1.00	0.98	1.00	1.00	1.02	1.04	1.04	1.08	1.48	PB	3.00	3.02	3.16
wind	-0.1 m/s	velocity	5.53	8.96	9.14	9.33	9.14	9.14	8.96	8.79	8.79	8.46	9.47	8.37	9.14	9.08	8.68
Shubenkov, Sergey (ANA) (1990)																	
FINAL - 2017 IAAF World Championships (London, GBR)		<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles</i>															
date	07-Aug-17	time	2.41	3.45	4.45	5.46	6.45	7.46	8.47	9.48	10.52	11.57	13.14	2 / 2			
reaction time	0.132	interval	7 steps	1.04	1.00	1.01	0.99	1.01	1.01	1.01	1.04	1.05	1.57		3.05	3.01	3.10
wind	0.0 m/s	velocity	5.69	8.79	9.14	9.05	9.23	9.05	9.05	9.05	8.79	8.70	8.93	8.37	8.99	9.11	8.85
Shubenkov, Sergey (ANA) (1990)																	
FINAL - 2017 Memorial van Damme (Brussels, BEL) (TV Analysis)		<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	01-Sep-17	time	2.56	3.60	4.60	5.60	6.58	7.56	8.58	9.58	10.62	11.66	13.14	5 / 1			
reaction time	0.146	interval	7 steps	1.04	1.00	1.00	0.98	0.98	1.02	1.00	1.04	1.04	1.48		3.04	2.98	3.08
wind	0.5 m/s	velocity	5.36	8.79	9.14	9.14	9.33	9.33	8.96	9.14	8.79	8.79	9.47	8.37	9.02	9.20	8.90
Ortega, Orlando (ESP) (1991)																	
FINAL - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)		<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	24-Aug-19	time	2.50	3.52	4.54	5.54	6.52	7.56	8.58	9.62	10.66	11.70	13.14	6 / 2			
reaction time	0.132	interval	7 steps	1.02	1.02	1.00	0.98	1.04	1.02	1.04	1.04	1.04	1.44		3.04	3.04	3.12
wind	0.8 m/s	velocity	5.49	8.96	8.96	9.14	9.33	8.79	8.96	8.79	8.79	8.79	9.74	8.37	9.02	9.02	8.79
Pozzi, Andy (GBR) (1992)																	
FINAL - 2020 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)		<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	14-Aug-20	time	2.52	3.54	4.54	5.54	6.54	7.54	8.57	9.57	10.61	11.68	13.14	5 / 2			
reaction time	0.125	interval	7 steps	1.02	1.00	1.00	1.00	1.00	1.03	1.00	1.04	1.07	1.46	=PB	3.02	3.03	3.11
wind	0.8 m/s	velocity	5.44	8.96	9.14	9.14	9.14	9.14	8.87	9.14	8.79	8.54	9.60	8.37	9.08	9.05	8.82
Allen, Devon (USA) (1994)																	
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		<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
Allen, Devon (USA) (1994)																	
Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)		<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
Crittenden, Freddie (USA) (1994)																	
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)		<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	1.04	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
Holloway, Grant (USA) (1997)																	
Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)		<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
Martinez, Asier (ESP) (2000)																	
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)		<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	17-Aug-22	time	2.56	3.60	4.60	5.60	6.62	7.62	8.64	9.66	10.68	11.74	13.14	4 / 1			
reaction time	0.149	interval	7 steps	1.04	1.00	1.00	1.02	1.00	1.02	1.02	1.02	1.06	1.40	PB	3.04	3.04	3.10
wind	-0.2 m/s	velocity	5.36	8.79	9.14	9.14	8.96	9.14	8.96	8.96	8.96	8.62	10.01	8.37	9.02	9.02	8.85
Martinot Lagarde, Pascal (FRA) (1999)																	
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)		<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	17-Aug-22	time	2.52	3.54	4.58	5.58	6.56	7.58	8.60	9.62	10.64	11.70	13.14	5 / 2			
reaction time	0.167	interval	7 steps	1.02	1.04	1.00	0.98	1.02	1.02	1.02	1.02	1.06	1.44		3.06	3.02	3.10
wind	-0.2 m/s	velocity	5.44	8.96	8.79	9.14	9.33	8.96	8.96	8.96	8.96	8.62	9.74	8.37	8.96	9.08	8.85
Britt, Jamal (USA) (1998)																	
FINAL - 2023 Adidas Atlanta City Games (Atlanta, GA) (street) (TV Analysis)		<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>															

wind	-0.5 m/s	velocity	5.32	8.70	9.14	9.14	9.14	9.05	9.23	8.87	8.96	8.62	9.94	8.37	8.99	9.14	8.82
Shubenkov, Sergey (ANA) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 IAAF World Championships (Doha, QAT)													CAA Hurdle Development (2019)				
date	02-Oct-19	time	2.62	3.66	4.66	5.66	6.65	7.66	8.67	9.68	10.74	11.79	13.15	9 / 2			
reaction time	0.150	interval	7 steps	1.04	1.00	1.00	0.99	1.01	1.01	1.01	1.06	1.05	1.36		3.04	3.01	3.12
wind	0.6 m/s	velocity	5.24	8.79	9.14	9.14	9.23	9.05	9.05	9.05	8.62	8.70	10.31	8.37	9.02	9.11	8.79
Ortega, Orlando (ESP) (1991)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)													Henson (2020) - Athlete First: 2020 year end hurdle report				
date	03-Sep-20	time	2.49	3.55	4.61	5.59	6.60	7.57	8.55	9.62	10.67	11.70	13.15	5 / 1			
reaction time	0.214	interval	7 steps	1.06	1.06	0.98	1.01	0.97	0.98	1.07	1.05	1.03	1.45		3.10	2.96	3.15
wind	-0.3 m/s	velocity	5.51	8.62	8.62	9.33	9.05	9.42	9.33	8.54	8.70	8.87	9.67	8.37	8.85	9.26	8.70
Pozzi, Andy (GBR) (1992)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)													Henson (2020) - Athlete First: 2020 year end hurdle report				
date	17-Sep-20	time	2.50	3.54	4.52	5.52	6.52	7.52	8.54	9.58	10.62	11.68	13.15	4 / 1			
reaction time	0.128	interval	7 steps	1.04	0.98	1.00	1.00	1.00	1.02	1.04	1.04	1.06	1.47		3.02	3.02	3.14
wind	0.1 m/s	velocity	5.49	8.79	9.33	9.14	9.14	9.14	8.96	8.79	8.79	8.62	9.54	8.37	9.08	9.08	8.73
Mallett, Aaron (USA) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)													Henson (2020) - Athlete First: 2020 year end hurdle report				
date	25-Sep-20	time	2.46	3.50	4.52	5.52	6.52	7.54	8.56	9.58	10.60	11.64	13.15	4 / 1			
reaction time	0.149	interval		1.04	1.02	1.00	1.00	1.02	1.02	1.02	1.04	1.04	1.51	PB	3.06	3.04	3.08
wind	0.3 m/s	velocity	5.58	8.79	8.96	9.14	9.14	8.96	8.96	8.96	8.96	8.79	9.28	8.37	8.96	9.02	8.90
Ortega, Orlando (ESP) (1991)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report				
date	06-Jul-21	time	2.47	3.50	4.54	5.54	6.54	7.54	8.56	9.57	10.58	11.63	13.15	5 / 2			
reaction time	0.134	interval	7 steps	1.03	1.04	1.00	1.00	1.00	1.02	1.01	1.01	1.05	1.52		3.07	3.02	3.07
wind	-0.1 m/s	velocity	5.55	8.87	8.79	9.14	9.14	9.14	8.96	9.05	9.05	8.70	9.22	8.37	8.93	9.08	8.93
Edwards Jr., Eric (USA) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)													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
Zhoya, Sasha (FRA) (2002)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													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	PB	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
Crittenden, Freddie (USA) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Prefontaine Classic (Eugene, OR)													Omega Timing (2023) - diamond league race analysis				
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	9.14	8.96	8.70	8.62	9.05	8.37	8.93	9.11	8.76
Richardson, Jason (USA) (1986)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)													Henson (2021) - Athlete First: major championships report				
date	29-Aug-11	time	2.50	3.53	4.55	5.54	6.54	7.54	8.55	9.57	10.61	11.66	13.16	3 / 2-1			
reaction time	0.178	interval	7 steps	1.03	1.02	0.99	1.00	1.00	1.01	1.02	1.04	1.05	1.50		3.04	3.01	3.11
wind	-1.1 m/s	velocity	5.49	8.87	8.96	9.23	9.14	9.14	9.05	8.96	8.79	8.70	9.35	8.36	9.02	9.11	8.82
Richardson, Jason (USA) (1986)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Golden Grand Prix (Shanghai, CHN) (TV Analysis)													Henson (2020) - Athlete First: 2012 Aries Merritt world record season				
date	19-May-12	time	2.48	3.52	4.54	5.54	6.52	7.54	8.56	9.56	10.60	11.66	13.16	4 / 3			
reaction time	0.168	interval	7 steps	1.04	1.02	1.00	0.98	1.02	1.02	1.00	1.04	1.06	1.50		3.06	3.02	3.10
wind	0.4 m/s	velocity	5.53	8.79	8.96	9.14	9.33	8.96	8.96	9.14	8.79	8.62	9.35	8.36	8.96	9.08	8.85
Oliver, David (USA) (1982)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 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	4.56	5.56	6.58	7.60	8.62	9.64	10.68	11.76	13.16	3 / 4			
reaction time	0.140	interval	7 steps	1.04	1.00	1.00	1.02	1.02	1.02	1.02	1.04	1.08	1.40		3.04	3.06	3.14
wind	1.4 m/s	velocity	5.44	8.79	9.14	9.14	8.96	8.96	8.96	8.96	8.79	8.46	10.01	8.36	9.02	8.96	8.73
McLeod, Omar (JAM) (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 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)													Henson (2020) - Athlete First: 2018 year end hurdle report				
date	12-May-18	time	2.52	3.58	4.60	5.60	6.60	7.62	8.64	9.66	10.68	11.74	13.16	5 / 1			
reaction time	0.119	interval		1.06	1.02	1.00	1.00	1.02	1.02	1.02	1.02	1.06	1.42		3.08	3.04	3.10
wind	0.2 m/s	velocity	5.44	8.62	8.96	9.14	9.14	8.96	8.96	8.96	8.96	8.62	9.87	8.36	8.90	9.02	8.85

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Thomas, Damion (JAM) (1999)																	
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN) (99cm)												<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>					
date	12-Jul-18	time	2.58	3.63	4.66	5.69	6.70	7.76	8.79	9.86	10.92	11.98	13.16	6 / 1			
reaction time	0.186	interval	1.05	1.03	1.03	1.01	1.06	1.03	1.07	1.06	1.06	1.18			3.11	3.10	3.19
wind	0.3 m/s	velocity	5.32	8.70	8.87	8.87	9.05	8.62	8.87	8.54	8.62	8.62	11.88	8.36	8.82	8.85	8.60
Ortega, Orlando (ESP) (1991)																	
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)												<i>CAA Hurdle Development (2019)</i>					
date	02-Oct-19	time	2.58	3.63	4.63	5.67	6.66	7.67	8.68	9.69	10.74	11.77	13.16	4 / 1			
reaction time	0.131	interval	7 steps	1.05	1.00	1.04	0.99	1.01	1.01	1.01	1.05	1.03	1.39		3.09	3.01	3.09
wind	0.6 m/s	velocity	5.32	8.70	9.14	8.79	9.23	9.05	9.05	9.05	8.70	8.87	10.09	8.36	8.87	9.11	8.87
Kanai, Taio (JPN) (1995)																	
FINAL - 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	2.51	3.54	4.55	5.56	6.58	7.60	8.62	9.67	10.70	11.75	13.16	4 / 1			
reaction time		interval	7 steps	1.03	1.01	1.01	1.02	1.02	1.02	1.05	1.03	1.05	1.41	NR PB	3.05	3.06	3.13
wind	1.7 m/s	velocity	5.47	8.87	9.05	9.05	8.96	8.96	8.96	8.70	8.87	8.70	9.94	8.36	8.99	8.96	8.76
Martinot Lagarde, Pascal (FRA) (199)																	
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	06-Aug-21	time	2.48	3.52	4.54	5.54	6.54	7.56	8.56	9.58	10.62	11.70	13.16	8 / 5			
reaction time	0.120	interval	7 steps	1.04	1.02	1.00	1.00	1.02	1.00	1.02	1.04	1.08	1.46		3.06	3.02	3.14
wind	-0.5 m/s	velocity	5.53	8.79	8.96	9.14	9.14	8.96	9.14	8.96	8.79	8.46	9.60	8.36	8.96	9.08	8.73
Roberts, Daniel (USA) (1998)																	
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	28-Aug-21	time	2.46	3.50	4.52	5.54	6.52	7.56	8.58	9.58	10.62	11.68	13.16	2 / 3			
reaction time	0.169	interval	1.04	1.02	1.02	0.98	1.04	1.02	1.00	1.04	1.06	1.48			3.08	3.04	3.10
wind	0.7 m/s	velocity	5.58	8.79	8.96	8.96	9.33	8.79	8.96	9.14	8.79	8.62	9.47	8.36	8.90	9.02	8.85
Allen, Devon (USA) (1994)																	
FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)												<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	18-Jun-22	time	2.50	3.54	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
Izumiya, Shunsuke (JPN) (2000)																	
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)												<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	21-Aug-23	time	2.52	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
Crittenden, Freddie (USA) (1994)																	
FINAL - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)												<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	21-Aug-23	time	2.52	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	9.87	8.36		8.96	9.02	8.79
Schwarthoff, Florian (GER) (1968)																	
FINAL - 1996 Olympic Games (Atlanta, GA)												<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>					
date	26-Jul-96	time	2.38	3.46	4.44	5.43	6.44	7.44	8.44	9.49	10.54	11.61	13.17	3 / 3			
reaction time	0.164	interval	7 steps	1.08	0.98	0.99	1.01	1.00	1.00	1.05	1.05	1.07	1.56		3.05	3.01	3.17
wind	0.8 m/s	velocity	5.76	8.46	9.33	9.23	9.05	9.14	9.14	8.70	8.70	8.54	8.99	8.35	8.99	9.11	8.65
Liu Xiang (CHN) (1983)																	
FINAL - 2003 Athletissima Meeting (Lausanne, SUI)												<i>Xu (2004) - an analysis of Liu Xiang's technique in 100m hurdle final at the Athens Olympic Games</i>					
date	01-Jul-03	time	2.57	3.61	4.63	5.63	6.65	7.65	8.67	9.69	10.73	11.79	13.17	1 / 3			
reaction time		interval	1.04	1.02	1.00	1.02	1.00	1.02	1.02	1.04	1.06	1.38			3.06	3.04	3.12
wind	0.0 m/s	velocity	5.34	8.79	8.96	9.14	8.96	9.14	8.96	8.96	8.79	8.62	10.16	8.35	8.96	9.02	8.79
Arnold, Dominique (USA) (1973)																	
FINAL - 2007 USATF National Championships (Indianapolis, IN)												<i>USATF Men's Hurdle Development (2007)</i>					
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
Payne, David (USA) (1982)																	
FINAL - 2008 Olympic Games (Beijing, CHN)												<i>Tsiokanos (2018) - race pattern of men's 110m hurdles- time analysis of olympic hurdle performance</i>					
date	21-Aug-08	time	2.58	3.62	4.64	5.65	6.68	7.67	8.69	9.73	10.76	11.80	13.17	5 / 2			
reaction time	0.175	interval	1.04	1.02	1.01	1.03	0.99	1.02	1.04	1.03	1.04	1.37			3.07	3.04	3.11
wind	0.1 m/s	velocity	5.32	8.79	8.96	9.05	8.87	9.23	8.96	8.79	8.87	8.79	10.23	8.35	8.93	9.02	8.82
Oliver, David (USA) (1982)																	
FINAL - 2012 USA Olympic Trials (Eugene, OR)												<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					

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	
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)													<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
Pozzi, Andy (GBR) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	11-Aug-20	time	2.57	3.57	4.57	5.57	6.57	7.57	8.59	9.61	10.65	11.71		13.17	6 / 1			
reaction time	0.149	interval	7 steps	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.04	1.06	1.46			3.00	3.02	3.12
wind	1.1 m/s	velocity	5.34	9.14	9.14	9.14	9.14	9.14	8.96	8.96	8.79	8.62	9.60	8.35		9.14	9.08	8.79
Martinot Lagarde, Pascal (FRA) (199)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Athletissima (Lausanne, SUI) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	26-Aug-21	time	2.52	3.54	4.56	5.56	6.56	7.56	8.60	9.62	10.68	11.72		13.17	2 / 3			
reaction time	0.149	interval	7 steps	1.02	1.02	1.00	1.00	1.00	1.04	1.02	1.06	1.04	1.45			3.04	3.04	3.12
wind	2.5 m/s	velocity	5.44	8.96	8.96	9.14	9.14	9.14	8.79	8.96	8.62	8.79	9.67	8.35		9.02	9.02	8.79
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	09-Sep-21	time	2.50	3.52	4.54	5.52	6.54	7.54	8.54	9.56	10.60	11.68		13.17	5 / 3			
reaction time	0.132	interval	7 steps	1.02	1.02	0.98	1.02	1.00	1.00	1.02	1.04	1.08	1.49			3.02	3.02	3.14
wind	0.6 m/s	velocity	5.49	8.96	8.96	9.33	8.96	9.14	9.14	8.96	8.79	8.46	9.41	8.35		9.08	9.08	8.73
McLeod, Omar (JAM) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)													<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
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	12-Jun-22	time	2.40	3.43	4.45	5.47	6.50	7.52	8.52	9.56	10.60	11.67		13.17	4 / 3			
reaction time	0.156	interval		1.03	1.02	1.02	1.03	1.02	1.00	1.04	1.04	1.07	1.50	PB		3.07	3.05	3.15
wind	1.6 m/s	velocity	5.72	8.87	8.96	8.96	8.87	8.96	9.14	8.79	8.79	8.54	9.35	8.35		8.93	8.99	8.70
Roberts, Daniel (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)													<i>USATF (2022) - Results powered by Karmarush.com</i>					
date	26-Jun-22	time	2.40	3.45	4.55	5.43	6.46	7.52	8.54	9.57	10.60	11.65	13.17	13.17	6 / 2			
reaction time		interval		1.05	1.10	0.88	1.03	1.06	1.02	1.03	1.03	1.05	1.52			3.03	3.11	3.11
wind	0.4 m/s	velocity	5.72	8.70	8.31	10.39	8.87	8.62	8.96	8.87	8.87	8.70	9.22	8.35		9.05	8.82	8.82
Parchment, Hansle (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	16-Jul-22	time	2.53	3.56	4.63	5.63	6.66	7.66	8.66	9.66	10.66	11.70		13.17	4 / 1			
reaction time	0.153	interval	7 steps	1.03	1.07	1.00	1.03	1.00	1.00	1.00	1.00	1.04	1.47			3.10	3.03	3.04
wind	0.2 m/s	velocity	5.42	8.87	8.54	9.14	8.87	9.14	9.14	9.14	9.14	8.79	9.54	8.35		8.85	9.05	9.02
Martinez, Asier (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 World Athletics Championships (Eugene, OR)													<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	17-Jul-22	time	2.62	3.70	4.72	5.73	6.73	7.74	8.75	9.75	10.78	11.83		13.17	8 / 3			
reaction time	0.126	interval	7 steps	1.08	1.02	1.01	1.00	1.01	1.01	1.00	1.03	1.05	1.34	PB		3.11	3.02	3.08
wind	1.2 m/s	velocity	5.24	8.46	8.96	9.05	9.14	9.05	9.05	9.14	8.87	8.70	10.46	8.35		8.82	9.08	8.90
Crittenden, Freddie (USA) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	21-Aug-23	time	2.54	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	1.00	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
Belocian, Wilhem (FRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)													<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
Kováč, Igor (SVK) (1969)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1997 IAAF World Championships (Athens, GRE)													<i>Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>					
date	07-Aug-97	time	2.62	3.68	4.70	5.72	6.72	7.74	8.78	9.78	10.82	11.86		13.18	1 / 3			
reaction time	0.161	interval		1.06	1.02	1.02	1.00	1.02	1.04	1.00	1.04	1.04	1.32			3.10	3.06	3.08
wind	0.0 m/s	velocity	5.24	8.62	8.96	8.96	9.14	8.96	8.79	9.14	8.79	8.79	10.62	8.35		8.85	8.96	8.90

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
García, Anier (CUB) (1976)																	
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)		<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
Doucouré, Ladji (FRA) (1983)																	
Heat 1 - 2004 Olympic Games (Athens, GRE)		<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		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
Trammell, Terrence (USA) (1978)																	
FINAL - 2004 Olympic Games (Athens, GRE)		<i>Ruiz (2004) - las carreras con vallas de juegos olimpicos de atenas '04</i>															
date	27-Aug-04	time	2.40	3.42	4.43	5.45	6.45	7.45	8.48	9.50	10.54	11.60	13.18	6 / 2			
reaction time	0.154	interval		1.02	1.01	1.02	1.00	1.00	1.03	1.02	1.04	1.06	1.58		3.05	3.03	3.12
wind	0.3 m/s	velocity	5.72	8.96	9.05	8.96	9.14	9.14	8.87	8.96	8.79	8.62	8.87	8.35	8.99	9.05	8.79
Oliver, David (USA) (1982)																	
FINAL - 2007 USATF National Championships (Indianapolis, IN)		<i>USATF Men's Hurdle Development (2007)</i>															
date	24-Jun-07	time	2.65	3.67	4.72	5.72	6.72	7.72	8.74	9.73	10.76	11.78	13.18	6 / 3			
reaction time		interval		1.02	1.05	1.00	1.00	1.00	1.02	0.99	1.03	1.02	1.40		3.07	3.02	3.04
wind	0.5 m/s	velocity	5.18	8.96	8.70	9.14	9.14	9.14	8.96	9.23	8.87	8.96	10.01	8.35	8.93	9.08	9.02
Moore, Anwar (USA) (1979)																	
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)		<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>															
date	23-Sep-07	time	2.59	3.65	4.66	5.67	6.67	7.67	8.68	9.70	10.73	11.80	13.18	7 / 4			
reaction time	0.161	interval		1.06	1.01	1.01	1.00	1.00	1.01	1.02	1.03	1.07	1.38		3.08	3.01	3.12
wind	0.0 m/s	velocity	5.30	8.62	9.05	9.05	9.14	9.14	9.05	8.96	8.87	8.54	10.16	8.35	8.90	9.11	8.79
Oliver, David (USA) (1982)																	
FINAL - 2008 Olympic Games (Beijing, CHN)		<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	4.67	5.66	6.68	7.68	8.67	9.73	10.76	11.80	13.18	7 / 3			
reaction time	0.158	interval		1.06	1.03	0.99	1.02	1.00	0.99	1.06	1.03	1.04	1.38		3.08	3.01	3.13
wind	0.1 m/s	velocity	5.32	8.62	8.87	9.23	8.96	9.14	9.23	8.62	8.87	8.79	10.16	8.35	8.90	9.11	8.76
Faulk, Dexter (USA) (1984)																	
FINAL - 2009 ISTAF (Berlin, GER)		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>															
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			
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		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
Brathwaite, Ryan (BAR) (1988)																	
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)		<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		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
Wilson, Ryan (USA) (1980)																	
FINAL - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>															
date	13-Jul-12	time	2.52	3.56	4.60	5.58	6.56	7.56	8.58	9.60	10.64	11.70	13.18	7 / 3			
reaction time	0.153	interval	7 steps	1.04	1.04	0.98	0.98	1.00	1.02	1.02	1.04	1.06	1.48		3.06	3.00	3.12
wind	0.6 m/s	velocity	5.44	8.79	8.79	9.33	9.33	9.14	8.96	8.96	8.79	8.62	9.47	8.35	8.96	9.14	8.79
McLeod, Omar (JAM) (1994)																	
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)		<i>Henson (2021) - Athlete First: major championships report</i>															
date	28-Aug-15	time	2.44	3.46	4.48	5.52	6.54	7.58	8.62	9.66	10.72	11.78	13.18	6 / 6			
reaction time	0.135	interval		1.02	1.02	1.04	1.02	1.04	1.04	1.04	1.06	1.06	1.40		3.08	3.10	3.16
wind	0.2 m/s	velocity	5.62	8.96	8.96	8.79	8.96	8.79	8.79	8.79	8.62	8.62	10.01	8.35	8.90	8.85	8.68
Shubenkov, Sergey (ANA) (1990)																	
FINAL - 2017 Meeting de Paris (Paris, FRA) (TV Analysis)		<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	01-Jul-17	time	2.56	3.60	4.58	5.58	6.56	7.58	8.58	9.60	10.66	11.76	13.18	4 / 4			
reaction time	0.125	interval	7 steps	1.04	0.98	1.00	0.98	1.02	1.00	1.02	1.06	1.10	1.42		3.02	3.00	3.18
wind	0.3 m/s	velocity	5.36	8.79	9.33	9.14	9.33	8.96	9.14	8.96	8.62	8.31	9.87	8.35	9.08	9.14	8.62
Levy, Ronald (JAM) (1992)																	
FINAL - 2018 Meeting de Paris (Paris, FRA) (TV Analysis)		<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	30-Jun-18	time	2.46	3.50	4.54	5.58	6.58	7.58	8.60	9.62	10.70	11.76	13.18	3 / 1			
reaction time	0.123	interval	7 steps	1.04	1.04	1.04	1.00	1.00	1.02	1.02	1.08	1.06	1.42		3.12	3.02	3.16
wind	1.5 m/s	velocity	5.58	8.79	8.79	8.79	9.14	9.14	8.96	8.96	8.46	8.62	9.87	8.35	8.79	9.08	8.68
Ortega, Orlando (ESP) (1991)																	
FINAL - 2018 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)		<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															

date	20-Jul-18	time	2.48	3.56	4.56	5.56	6.58	7.60	8.60	9.64	10.66	11.70		13.18	5 / 2				
reaction time	0.129	interval	7 steps	1.08	1.00	1.00	1.02	1.02	1.00	1.04	1.02	1.04	1.48			3.08	3.04	3.10	
wind	-0.2 m/s	velocity	5.53	8.46	9.14	9.14	8.96	8.96	9.14	8.79	8.96	8.79	9.47	8.35		8.90	9.02	8.85	
Shubenkov, Sergey (ANA) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT) <i>CAA Hurdle Development (2019)</i>																			
date	02-Oct-19	time	2.62	3.66	4.68	5.68	6.68	7.68	8.68	9.70	10.74	11.78		13.18	6 / 2				
reaction time	0.129	interval	7 steps	1.04	1.02	1.00	1.00	1.00	1.00	1.02	1.04	1.04	1.40			3.06	3.00	3.10	
wind	1.1 m/s	velocity	5.24	8.79	8.96	9.14	9.14	9.14	9.14	8.96	8.79	8.79	10.01	8.35		8.96	9.14	8.85	
Martinot Lagarde, Pascal (FRA) (199)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2019 IAAF World Championships (Doha, QAT) <i>CAA Hurdle Development (2019)</i>																			
date	02-Oct-19	time	2.55	3.59	4.61	5.61	6.61	7.63	8.64	9.65	10.69	11.75		13.18	7 / 3				
reaction time	0.161	interval	7 steps	1.04	1.02	1.00	1.00	1.02	1.01	1.01	1.04	1.06	1.43			3.06	3.03	3.11	
wind	0.6 m/s	velocity	5.38	8.79	8.96	9.14	9.14	8.96	9.05	9.05	8.79	8.62	9.80	8.35		8.96	9.05	8.82	
Belocian, Wilhem (FRA) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2020 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis) <i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																			
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	
Allen, Devon (USA) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis) <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	
Bennett, Orlando (JAM) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2022 NACAC Championships (Freeport, BAH) (TV Analysis) <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	PB		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	
Holloway, Grant (USA) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis) <i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																			
date	20-Aug-23	time	2.45	3.47	4.47	5.47	6.47	7.47	8.50	9.57	10.63	11.68		13.18	5 / 1				
reaction time	0.153	interval	7 steps	1.02	1.00	1.00	1.00	1.00	1.03	1.07	1.06	1.05	1.50			3.02	3.03	3.18	
wind	-0.6 m/s	velocity	5.60	8.96	9.14	9.14	9.14	9.14	8.87	8.54	8.62	8.70	9.35	8.35		9.08	9.05	8.62	
Parchment, Hansle (JAM) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis) <i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																			
date	21-Aug-23	time	2.52	3.55	4.55	5.53	6.56	7.56	8.60	9.63	10.66	11.73		13.18	5 / 2				
reaction time	0.138	interval	7 steps	1.03	1.00	0.98	1.03	1.00	1.04	1.03	1.03	1.07	1.45			3.01	3.07	3.13	
wind	-0.1 m/s	velocity	5.44	8.87	9.14	9.33	8.87	9.14	8.79	8.87	8.87	8.54	9.67	8.35		9.11	8.93	8.76	
Jackson, Colin (GBR) (1967)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 1996 Olympic Games (Atlanta, GA) <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				
reaction time	0.133	interval		1.06	1.00	1.06	0.95	0.97	1.08	1.06	1.02	1.06	1.57			3.12	3.00	3.14	
wind	0.8 m/s	velocity	5.81	8.62	9.14	8.62	9.62	9.42	8.46	8.62	8.96	8.62	8.93	8.34		8.79	9.14	8.73	
Jackson, Colin (GBR) (1967)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 5 - 1999 IAAF World Championships (Sevilla, ESP) <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	
Jackson, Colin (GBR) (1967)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP) <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	
Payne, David (USA) (1982)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Semi-Final 1 - 2007 IAAF World Championships (Osaka, JPN) <i>Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles</i>																			
date	30-Aug-07	time	2.61	3.66	4.68	5.68	6.68	7.68	8.71	9.73	10.76	11.83		13.19	7 / 1				
reaction time	0.166	interval		1.05	1.02	1.00	1.00	1.00	1.03	1.02	1.03	1.07	1.36			3.07	3.03	3.12	
wind	-0.4 m/s	velocity	5.26	8.70	8.96	9.14	9.14	9.14	8.87	8.96	8.87	8.54	10.31	8.34		8.93	9.05	8.79	
Shi Dongpeng (CHN) (1984)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2007 IAAF World Championships (Osaka, JPN) <i>Xiao (2014) - development process of the characterisitics about 110m hurdle training in China</i>																			
date	31-Aug-07	time	2.59	3.62	4.63	5.62	6.60	7.57	8.57	9.57	10.59	11.62		13.19	6 / 5				
reaction time	0.150	interval		1.03	1.01	0.99	0.98	0.97	1.00	1.00	1.02	1.03	1.57	PB		3.03	2.95	3.05	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Muratake, Rashiddo (JPN) (2002)																		
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)		<i>Omega Timing (2023) - diamond league race analysis</i>																
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	
Merritt, Aries (USA) (1985)																		
FINAL - 2017 Memorial van Damme (Brussels, BEL) (TV Analysis)		<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																
date	01-Sep-17	time	2.48	3.52	4.54	5.54	6.54	7.54	8.58	9.60	10.62	11.68	13.20	6 / 3				
reaction time	0.133	interval	7 steps	1.04	1.02	1.00	1.00	1.00	1.04	1.02	1.02	1.06	1.52		3.06	3.04	3.10	
wind	0.5 m/s	velocity	5.53	8.79	8.96	9.14	9.14	9.14	8.79	8.96	8.96	8.62	9.22	8.33	8.96	9.02	8.85	
Caristan, Stéphane (FRA) (1964)																		
FINAL - 1986 European Championships (Stuttgart, FRG)		<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	
Foster, Greg (USA) (1958)																		
Heat 1 - 1987 IAAF World Championships (Rome, ITA)		<i>Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics</i>																
date	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	CR		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	
Valle, Emilio (CUB) (1967)																		
FINAL - 1996 Olympic Games (Atlanta, GA)		<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																
date	26-Jul-96	time	2.36	3.44	4.46	5.46	6.48	7.49	8.50	9.54	10.58	11.61	13.20	7 / 5				
reaction time	0.179	interval	1.08	1.02	1.00	1.02	1.01	1.01	1.04	1.04	1.03	1.59			3.10	3.04	3.11	
wind	0.8 m/s	velocity	5.81	8.46	8.96	9.14	8.96	9.05	9.05	8.79	8.79	8.87	8.82	8.33	8.85	9.02	8.82	
Schwarthoff, Florian (GER) (1968)																		
FINAL - 1997 European Cup (Munich, GER)		<i>Jung (2003) - http://www.fgs.uni-halle.de</i>																
date	22-Jun-97	time	2.56	3.62	4.63	5.63	6.63	7.66	8.69	9.70	10.74	11.80	13.20	1 / 1				
reaction time		interval	7 steps	1.06	1.01	1.00	1.00	1.03	1.03	1.01	1.04	1.06	1.40		3.07	3.06	3.11	
wind	0.2 m/s	velocity	5.36	8.62	9.05	9.14	9.14	8.87	8.87	9.05	8.79	8.62	10.01	8.33	8.93	8.96	8.82	
Schwarthoff, Florian (GER) (1968)																		
FINAL - 1997 IAAF World Championships (Athens, GRE)		<i>Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>																
date	07-Aug-97	time	2.58	3.64	4.64	5.66	6.68	7.70	8.72	9.74	10.78	11.84	13.20	3 / 4				
reaction time	0.141	interval	7 steps	1.06	1.00	1.02	1.02	1.02	1.02	1.04	1.06	1.36			3.08	3.06	3.12	
wind	0.2 m/s	velocity	5.32	8.62	9.14	8.96	8.96	8.96	8.96	8.96	8.79	8.62	10.31	8.33	8.90	8.96	8.79	
Korving, Robin (NED) (1974)																		
FINAL - 1998 European Championships (Budapest, HUN)		<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>																
date	22-Aug-98	time	2.60	3.62	4.66	5.67	6.68	7.70	8.70	9.72	10.77	11.81	13.20	5 / 3				
reaction time		interval	1.02	1.04	1.01	1.01	1.02	1.00	1.02	1.05	1.04	1.39	NR		3.07	3.03	3.11	
wind	1.5 m/s	velocity	5.28	8.96	8.79	9.05	9.05	8.96	9.14	8.96	8.70	8.79	10.09	8.33	8.93	9.05	8.82	
García, Anier (CUB) (1976)																		
Quarter-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)		<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	
Trammell, Terrence (USA) (1978)																		
FINAL - 2003 IAAF World Championships (Paris, FRA)		<i>Xu (2004) - analysis on the hurdling techniques of the excellence chinese male 110m hurdle athletes</i>																
date	30-Aug-03	time	2.57	3.61	4.63	5.63	6.63	7.63	8.65	9.67	10.73	11.79	13.20	6 / 2				
reaction time	0.140	interval	1.04	1.02	1.00	1.00	1.00	1.02	1.02	1.06	1.06	1.41			3.06	3.02	3.14	
wind	0.3 m/s	velocity	5.34	8.79	8.96	9.14	9.14	9.14	8.96	8.96	8.62	8.62	9.94	8.33	8.96	9.08	8.73	
García, Anier (CUB) (1976)																		
FINAL - 2004 Olympic Games (Athens, GRE)		<i>Ruiz (2004) - las carreras con vallas de juegos olímpicos 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	
Carter, Deuce (JAM) (1990)																		
FINAL - 2016 Racers Grand Prix (Kingston, JAM) (TV Analysis)		<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	PB		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	
Bascou, Dimitri (FRA) (1987)																		
FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)		<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>																

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	
Jackson, Colin (GBR) (1967)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 European Championships (Munich, GER)														<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
Wignall, Maurice (JAM) (1976)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2004 Olympic Games (Athens, GRE)														<i>Ruiz (2004) - las carreras con vallas de juegos olimpicos de atenas '04</i>				
date	27-Aug-04	time	2.47	3.50	4.53	5.55	6.55	7.56	8.60	9.64	10.67	11.73		13.21	5 / 4			
reaction time	0.164	interval	1.03	1.03	1.02	1.00	1.01	1.04	1.04	1.03	1.06	1.48				3.08	3.05	3.13
wind	0.3 m/s	velocity	5.55	8.87	8.87	8.96	9.14	9.05	8.79	8.79	8.87	8.62	9.47	8.33		8.90	8.99	8.76
Olijar, Stanislav (LAT) (1979)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2004 Olympic Games (Athens, GRE)														<i>Ruiz (2004) - las carreras con vallas de juegos olimpicos de atenas '04</i>				
date	27-Aug-04	time	2.49	3.52	4.54	5.55	6.56	7.56	8.57	9.61	10.67	11.74		13.21	2 / 5			
reaction time	0.174	interval	1.03	1.02	1.01	1.01	1.00	1.01	1.04	1.06	1.07	1.47				3.06	3.02	3.17
wind	0.3 m/s	velocity	5.51	8.87	8.96	9.05	9.05	9.14	9.05	8.79	8.62	8.54	9.54	8.33		8.96	9.08	8.65
Liu Xiang (CHN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 Golden Grand Prix (Shanghai, CHN)														<i>Ma (2008) - analysis of Liu Xiang's time characteristic in men's 110m hurdles during golden grand prix in Shanghai</i>				
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	/ 3			
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
Wilson, Ryan (USA) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 ISTAF (Berlin, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	14-Jun-09	time	2.59	3.64	4.65	5.66	6.65	7.69	8.71	9.73	10.77	11.83		13.21	6 / 2			
reaction time	0.171	interval	1.05	1.01	1.01	0.99	1.04	1.02	1.02	1.04	1.06	1.38				3.07	3.05	3.12
wind	0.7 m/s	velocity	5.30	8.70	9.05	9.05	9.23	8.79	8.96	8.96	8.79	8.62	10.16	8.33		8.93	8.99	8.79
Merritt, Aries (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Colorful Daegu Meeting (Daegu, KOR) (TV Analysis)														<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	
Shubenkov, Sergey (RUS) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>				
date	07-Sep-12	time	2.52	3.56	4.56	5.58	6.58	7.58	8.62	9.66	10.70	11.78		13.21	1 / 4			
reaction time	0.165	interval	1.04	1.00	1.02	1.00	1.00	1.04	1.04	1.04	1.08	1.43				3.06	3.04	3.16
wind	0.3 m/s	velocity	5.44	8.79	9.14	8.96	9.14	9.14	8.79	8.79	8.46	9.80	8.33			8.96	9.02	8.68
Oliver, David (USA) (1982)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>				
date	07-Sep-12	time	2.52	3.56	4.58	5.56	6.56	7.58	8.58	9.60	10.62	11.72		13.21	2 / 5			
reaction time	0.171	interval	7 steps	1.04	1.02	0.98	1.00	1.02	1.00	1.02	1.02	1.10	1.49			3.04	3.02	3.14
wind	0.3 m/s	velocity	5.44	8.79	8.96	9.33	9.14	8.96	9.14	8.96	8.96	8.31	9.41	8.33		9.02	9.08	8.73
Carter, Deuce (JAM) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Jamaican National Championships (Kingston, JAM) (TV Analysis)														<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
Ash, Ronnie (USA) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)														<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			
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			3.07	3.00	3.11
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
Porter, Jeff (USA) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	09-Jul-16	time	2.50	3.53	4.53	5.55	6.57	7.60	8.62	9.67	10.69	11.73		13.21	6 / 3			
reaction time	0.163	interval	1.03	1.00	1.02	1.02	1.03	1.02	1.05	1.02	1.04	1.48				3.05	3.07	3.11
wind	1.0 m/s	velocity	5.49	8.87	9.14	8.96	8.96	8.87	8.96	8.70	8.96	8.79	9.47	8.33		8.99	8.93	8.82
Shubenkov, Sergey (ANA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	08-Jun-17	time	2.60	3.66	4.68	5.68	6.68	7.68	8.70	9.70	10.72	11.78		13.21	4 / 3			
reaction time	0.154	interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.02	1.00	1.02	1.06	1.43			3.08	3.02	3.08
wind	-0.3 m/s	velocity	5.28	8.62	8.96	9.14	9.14	9.14	8.96	9.14	8.96	8.62	9.80	8.33		8.90	9.08	8.90

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Parchment, Hansle (JAM) (1990)																	
FINAL - 2018 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)													Henson (2020) - Athlete First: 2018 year end hurdle report				
date	20-Jul-18	time	2.52	3.56	4.58	5.58	6.58	7.58	8.60	9.62	10.66	11.70	13.21	3 / 4			
reaction time	0.155	interval	7 steps	1.04	1.02	1.00	1.00	1.00	1.02	1.02	1.04	1.04	1.51		3.06	3.02	3.10
wind	-0.2 m/s	velocity	5.44	8.79	8.96	9.14	9.14	9.14	8.96	8.96	8.79	9.28	8.33		8.96	9.08	8.85
Xie Wenjun (CHN) (1990)																	
FINAL - 2019 Asian Athletics Championships (Doha, QAT)													CAA Hurdle Development (2019)				
date	24-Apr-19	time	2.55	3.58	4.63	5.63	6.64	7.65	8.65	9.67	10.72	11.79	13.21	7 / 1			
reaction time	0.151	interval	7 steps	1.03	1.05	1.00	1.01	1.01	1.00	1.02	1.05	1.07	1.42	CR / PB	3.08	3.02	3.14
wind	1.7 m/s	velocity	5.38	8.87	8.70	9.14	9.05	9.05	9.14	8.96	8.70	8.54	9.87	8.33	8.90	9.08	8.73
McLeod, Omar (JAM) (1994)																	
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)													Henson (2020) - Athlete First: 2019 year end hurdle report				
date	18-Aug-19	time	2.54	3.56	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	7 steps	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
Ortega, Orlando (ESP) (1991)																	
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)													Henson (2020) - Athlete First: 2019 year end hurdle report				
date	10-Sep-19	time	2.58	3.64	4.66	5.71	6.71	7.73	8.73	9.73	10.75	11.77	13.21	5 / 1			
reaction time	0.158	interval	7 steps	1.06	1.02	1.05	1.00	1.02	1.00	1.00	1.02	1.02	1.44		3.13	3.02	3.04
wind	0.1 m/s	velocity	5.32	8.62	8.96	8.70	9.14	8.96	9.14	9.14	8.96	8.96	9.74	8.33	8.76	9.08	9.02
Ortega, Orlando (ESP) (1991)																	
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)													Henson (2020) - Athlete First: 2020 year end hurdle report				
date	19-Aug-20	time	2.50	3.54	4.57	5.60	6.64	7.64	8.66	9.68	10.71	11.74	13.21	4 / 1			
reaction time	0.146	interval	7 steps	1.04	1.03	1.03	1.04	1.00	1.02	1.02	1.03	1.03	1.47		3.10	3.06	3.08
wind	0.3 m/s	velocity	5.49	8.79	8.87	8.87	8.79	9.14	8.96	8.96	8.87	8.87	9.54	8.33	8.85	8.96	8.90
Cunningham, Trey (USA) (1998)																	
Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report				
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
Cunningham, Trey (USA) (1998)																	
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report				
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
Izumiya, Shunsuke (JPN) (2000)																	
FINAL - 2022 Japanese National Championships (Osaka, JPN)													Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season				
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
Brathwaite, Shane (BAR) (1990)																	
Semi-Final 3 - 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	2.55	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
Zhoaya, Sasha (FRA) (2002)																	
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
Britt, Jamal (USA) (1998)																	
Heat 2 - 2023 Meeting de Paris (Paris, FRA)													Omega Timing (2023) - diamond league race analysis				
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
Iribarne, Roger (CUB) (1996)																	
Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)													Omega Timing (2023) - diamond league race analysis				
date	16-Jul-23	time	2.40	3.45	4.47	5.48	6.48	7.49	8.52	9.55	10.59	11.66	13.21	2 / 1			
reaction time	0.157	interval	7 steps	1.05	1.02	1.01	1.00	1.01	1.03	1.03	1.04	1.07	1.55	PB	3.08	3.04	3.14
wind	0.3 m/s	velocity	5.72	8.70	8.96	9.05	9.14	9.05	8.87	8.87	8.79	8.54	9.05	8.33	8.90	9.02	8.73
Tinch, Cordell (USA) (2000)																	
FINAL - 2023 Prefontaine Classic (Eugene, OR)													Omega Timing (2023) - diamond league race analysis				

wind	1.5 m/s	velocity	5.40	8.79	8.79	9.14	9.14	9.14	9.14	8.79	9.14	8.46	9.47	8.32	8.90	9.14	8.79
Levy, Ronald (JAM) (1992)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)	<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																
date	18-Aug-18	time	2.42	3.54	4.56	5.58	6.58	7.58	8.62	9.62	10.66	11.72		13.22	3 / 2		
reaction time	0.132	interval	7 steps	1.12	1.02	1.02	1.00	1.00	1.04	1.00	1.04	1.06	1.50		3.16	3.04	3.10
wind	1.3 m/s	velocity	5.67	8.16	8.96	8.96	9.14	9.14	8.79	9.14	8.79	8.62	9.35	8.32	8.68	9.02	8.85
Levy, Ronald (JAM) (1992)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)	<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																
date	24-Aug-19	time	2.52	3.56	4.60	5.62	6.64	7.66	8.70	9.70	10.74	11.78		13.22	8 / 4		
reaction time	0.151	interval	7 steps	1.04	1.04	1.02	1.02	1.02	1.04	1.00	1.04	1.04	1.44		3.10	3.08	3.08
wind	0.8 m/s	velocity	5.44	8.79	8.79	8.96	8.96	8.96	8.79	9.14	8.79	8.79	9.74	8.32	8.85	8.90	8.90
Ortega, Orlando (ESP) (1991)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)	<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																
date	06-Sep-19	time	2.52	3.56	4.58	5.60	6.58	7.58	8.60	9.64	10.68	11.72		13.22	5 / 1		
reaction time	0.126	interval	7 steps	1.04	1.02	1.02	0.98	1.00	1.02	1.04	1.04	1.04	1.50		3.08	3.00	3.12
wind	0.0 m/s	velocity	5.44	8.79	8.96	8.96	9.33	9.14	8.96	8.79	8.79	8.79	9.35	8.32	8.90	9.14	8.79
Holloway, Grant (USA) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)	<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	3.24
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	8.46
Xie Wenjun (CHN) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)	<i>CAA Hurdle Development (2019)</i>																
date	02-Oct-19	time	2.56	3.60	4.63	5.64	6.66	7.67	8.68	9.69	10.73	11.78		13.22	7 / 3		
reaction time	0.137	interval	7 steps	1.04	1.03	1.01	1.02	1.01	1.01	1.01	1.04	1.05	1.44		3.08	3.04	3.10
wind	0.9 m/s	velocity	5.36	8.79	8.87	9.05	8.96	9.05	9.05	9.05	8.79	8.70	9.74	8.32	8.90	9.02	8.85
Holloway, Grant (USA) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)	<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	3.30
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	8.31
Levy, Ronald (JAM) (1992)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																
date	13-Jul-21	time	2.54	3.60	4.64	5.66	6.66	7.68	8.70	9.70	10.76	11.82		13.22	4 / 1		
reaction time	0.150	interval	7 steps	1.06	1.04	1.02	1.00	1.02	1.02	1.00	1.06	1.06	1.40		3.12	3.04	3.12
wind	0.8 m/s	velocity	5.40	8.62	8.79	8.96	9.14	8.96	8.96	9.14	8.62	8.62	10.01	8.32	8.79	9.02	8.79
Roberts, Daniel (USA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																
date	25-Jun-21	time	2.46	3.50	4.53	5.53	6.53	7.53	8.56	9.60	10.63	11.70		13.22	1 / 1		
reaction time	0.182	interval	7 steps	1.04	1.03	1.00	1.00	1.00	1.03	1.04	1.03	1.07	1.52		3.07	3.03	3.14
wind	1.5 m/s	velocity	5.58	8.79	8.87	9.14	9.14	9.14	8.87	8.79	8.87	8.54	9.22	8.32	8.93	9.05	8.73
Kanai, Taio (JPN) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 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	2.52	3.55	4.56	5.59	6.61	7.63	8.66	9.72	10.76	11.82		13.22	9 / 2		
reaction time	0.141	interval	7 steps	1.03	1.01	1.03	1.02	1.02	1.03	1.06	1.04	1.06	1.40		3.07	3.07	3.16
wind	1.2 m/s	velocity	5.44	8.87	9.05	8.87	8.96	8.96	8.87	8.62	8.79	8.62	10.01	8.32	8.93	8.93	8.68
Martinez, Asier (ESP) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																
date	06-Aug-21	time	2.56	3.60	4.64	5.66	6.66	7.68	8.70	9.72	10.76	11.80		13.22	2 / 6		
reaction time	0.155	interval	7 steps	1.04	1.04	1.02	1.00	1.02	1.02	1.02	1.04	1.04	1.42	PB	3.10	3.04	3.10
wind	-0.5 m/s	velocity	5.36	8.79	8.79	8.96	9.14	8.96	8.96	8.96	8.79	8.79	9.87	8.32	8.85	9.02	8.85
Britt, Jamal (USA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																
date	12-Jun-22	time	2.43	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
Allen, Devon (USA) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)	<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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Czykier, Damian (POL) (1992)																	
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)		<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>															
date	17-Jul-22	time	2.56	3.58	4.60	5.60	6.60	7.58	8.60	9.63	10.70	11.78	13.22	6 / 4			
reaction time	0.135	interval	7 steps	1.02	1.02	1.00	1.00	0.98	1.02	1.03	1.07	1.08	1.44		3.04	3.00	3.18
wind	2.5 m/s	velocity	5.36	8.96	8.96	9.14	9.14	9.33	8.96	8.87	8.54	8.46	9.74	8.32	9.02	9.14	8.62
Izumiya, Shunsuke (JPN) (2000)																	
FINAL - 2023 Athletissima (Lausanne, SU)		<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	0.101	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
Mason, Tyler (JAM) (1995)																	
FINAL - 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
Swift, Eugene (USA) (1964)																	
FINAL - 1996 Olympic Games (Atlanta, GA)		<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	4.44	5.47	6.48	7.47	8.46	9.50	10.55	11.62	13.23	4 / 6			
reaction time	0.151	interval		1.06	1.02	1.03	1.01	0.99	0.99	1.04	1.05	1.07	1.61		3.11	2.99	3.16
wind	0.8 m/s	velocity	5.81	8.62	8.96	8.87	9.05	9.23	9.23	8.79	8.70	8.54	8.71	8.31	8.82	9.17	8.68
Schwarthoff, Florian (GER) (1968)																	
FINAL - 1998 European Championships (Budapest, HUN)		<i>Sanchez (1998) - Budapest '98: análisis de la carreras con villas</i>															
date	22-Aug-98	time	2.59	3.64	4.68	5.68	6.70	7.70	8.71	9.75	10.78	11.83	13.23	4 / 4			
reaction time		interval		1.05	1.04	1.00	1.02	1.00	1.01	1.04	1.03	1.05	1.40		3.09	3.03	3.12
wind	1.5 m/s	velocity	5.30	8.70	8.79	9.14	8.96	9.14	9.05	8.79	8.87	8.70	10.01	8.31	8.87	9.05	8.79
Liu Xiang (CHN) (1983)																	
FINAL - 2003 IAAF World Championships (Paris, FRA)		<i>Xu (2004) - analysis on the hurdling techniques of the excellence chinese male 110m hurdle athletes</i>															
date	30-Aug-03	time	2.58	3.63	4.65	5.65	6.67	7.68	8.70	9.74	10.80	11.85	13.23	5 / 3			
reaction time	0.140	interval		1.05	1.02	1.00	1.02	1.01	1.02	1.04	1.06	1.05	1.38		3.07	3.05	3.15
wind	0.3 m/s	velocity	5.32	8.70	8.96	9.14	8.96	9.05	8.96	8.79	8.62	8.70	10.16	8.31	8.93	8.99	8.70
Liu Xiang (CHN) (1983)																	
FINAL - 2005 Chinese National Grand Prix (Zhongshan, CHN)		<i>Xu (2005) - analysis on Liu Xiang's rhythm between the hurdles in 110m hurdle race</i>															
date	24-Apr-05	time	2.43	3.52	4.56	5.58	6.59	7.59	8.60	9.65	10.71	11.79	13.23	1 / 1			
reaction time		interval		1.10	1.04	1.02	1.01	1.00	1.01	1.05	1.06	1.08	1.45		3.15	3.02	3.19
wind	1.4 m/s	velocity	5.66	8.35	8.79	9.00	9.05	9.14	9.05	8.69	8.60	8.50	9.70	8.31	8.70	9.08	8.60
Moore, Anwar (USA) (1979)																	
FINAL - 2007 USATF National Championships (Indianapolis, IN)		<i>USATF Men's Hurdle Development (2007)</i>															
date	24-Jun-07	time	2.62	3.67	4.70	5.72	6.72	7.71	8.70	9.74	10.78	11.85	13.23	8 / 5			
reaction time		interval		1.05	1.03	1.02	1.00	0.99	0.99	1.04	1.04	1.07	1.38		3.10	2.98	3.15
wind	0.5 m/s	velocity	5.24	8.70	8.87	8.96	9.14	9.23	9.23	8.79	8.79	8.54	10.16	8.31	8.85	9.20	8.70
Trammell, Terrence (USA) (1978)																	
Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)		<i>Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles</i>															
date	30-Aug-07	time	2.55	3.58	4.60	5.62	6.62	7.64	8.64	9.67	10.72	11.79	13.23	7 / 1			
reaction time	0.223	interval		1.03	1.02	1.02	1.00	1.02	1.00	1.03	1.05	1.07	1.44		3.07	3.02	3.15
wind	0.4 m/s	velocity	5.38	8.87	8.96	8.96	9.14	8.96	9.14	8.87	8.70	8.54	9.74	8.31	8.93	9.08	8.70
Faulk, Dexter (USA) (1984)																	
FINAL - 2012 USA Olympic Trials (Eugene, OR)		<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>															
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			
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
Richardson, Jason (USA) (1986)																	
Heat 2 - 2012 AVIVA Grand Prix (London, GBR) (TV Analysis)		<i>Henson (2021) - Athlete First: 2012 Aries Merritt world record season</i>															
date	13-Jul-12	time	2.48	3.54	4.56	5.58	6.60	7.62	8.64	9.66	10.68	11.76	13.23	3 / 2			
reaction time	0.161	interval	7 steps	1.06	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.47		3.10	3.06	3.12
wind	-0.9 m/s	velocity	5.53	8.62	8.96	8.96	8.96	8.96	8.96	8.96	8.96	8.46	9.54	8.31	8.85	8.96	8.79
Brathwaite, Ryan (BAR) (1988)																	
Semi-Final 2 - 2012 Olympic Games (London, GBR) (TV Analysis)		<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
Xie Wenjun (CHN) (1990)																	
FINAL - 2014 Golden Grand Prix (Shanghai, CHN)		<i>Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles</i>															

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
Milburn, Rodney (USA) (1950)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1972 Olympic Games (Munich, FRG)	<i>Kay (1972) - BAAB Munich Technical Report</i>																
date	07-Sep-72	time	2.5	3.5	4.5	5.6	6.6	7.6	8.6	9.6	10.6	11.7		13.24	5 / 1		
reaction time		interval		1.00	1.00	1.10	1.00	1.00	1.00	1.00	1.00	1.10	1.54	WR	3.10	3.00	3.10
wind	0.3 m/s	velocity	5.49	9.14	9.14	8.31	9.14	9.14	9.14	9.14	9.14	8.31	9.10	8.31	8.85	9.14	8.85
Dees, Tony (USA) (1963)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1992 Olympic Games (Barcelona, ESP)	<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
Mallett, Aaron (USA) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)	<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																
date	17-Sep-20	time	2.52	3.58	4.60	5.62	6.66	7.68	8.68	9.70	10.72	11.78		13.23	3 / 2		
reaction time	0.149	interval		1.06	1.02	1.02	1.04	1.02	1.00	1.02	1.02	1.06	1.45	PB	3.10	3.06	3.10
wind	0.1 m/s	velocity	5.44	8.62	8.96	8.96	8.79	8.96	9.14	8.96	8.96	8.62	9.67	8.31	8.85	8.96	8.85
Edwards, Eric (USA) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	24-Jun-23	time	2.50	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
Joseph, Jason (SUI) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Athletissima (Lausanne, SUI)	<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
Crittenden, Freddie (USA) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 USATF National Championships (Eugene, OR) (TV Analysis)	<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		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
Belocian, Wilhem (FRA) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	21-Aug-23	time	2.50	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
Olijar, Stanislav (LAT) (1979)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2006 European Championships (Göteborg, SWE) (TV Analysis)	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																
date	12-Aug-06	time	2.64	3.68	4.70	5.71	6.69	7.68	8.70	9.72	10.76	11.84		13.24	1 / 1		
reaction time		interval		1.04	1.02	1.01	0.98	0.99	1.02	1.02	1.04	1.08	1.40		3.07	2.99	3.14
wind	-1.0 m/s	velocity	5.20	8.79	8.96	9.05	9.33	9.23	8.96	8.96	8.79	8.46	10.01	8.31	8.93	9.17	8.73
Merritt, Aries (USA) (1985)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 USATF National Championships (Indianapolis, IN)	<i>USATF Men's Hurdle Development (2007)</i>																
date	24-Jun-07	time	2.65	3.72	4.74	5.76	6.76	7.77	8.76	9.79	10.83	11.85		13.24	7 / 6		
reaction time		interval		1.07	1.02	1.02	1.00	1.01	0.99	1.03	1.04	1.02	1.39		3.11	3.00	3.09
wind	0.5 m/s	velocity	5.18	8.54	8.96	8.96	9.14	9.05	9.23	8.87	8.79	8.96	10.09	8.31	8.82	9.14	8.87
Doucouré, Ladji (FRA) (1983)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2008 Olympic Games (Beijing, CHN)	<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
Trammell, Terrence (USA) (1978)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																
date	20-Aug-09	time	2.54	3.58	4.59	5.61	6.62	7.65	8.68	9.71	10.76	11.83		13.24	6 / 1		
reaction time	0.160	interval		1.04	1.01	1.02	1.01	1.03	1.03	1.03	1.05	1.07	1.41		3.07	3.07	3.15
wind	0.9 m/s	velocity	5.40	8.79	9.05	8.96	9.05	8.87	8.87	8.87	8.70	8.54	9.94	8.31	8.93	8.93	8.70
Payne, David (USA) (1982)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																
date	20-Aug-09	time	2.60	3.65	4.68	5.69	6.71	7.75	8.78	9.80	10.83	11.89		13.24	7 / 2		
reaction time	0.151	interval		1.05	1.03	1.01	1.02	1.04	1.03	1.02	1.03	1.06	1.35		3.09	3.09	3.11
wind	0.6 m/s	velocity	5.28	8.70	8.87	9.05	8.96	8.79	8.87	8.96	8.87	8.62	10.39	8.31	8.87	8.87	8.82

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wilson, Ryan (USA) (1980)																	
FINAL - 2012 USA Olympic Trials (Eugene, OR)												<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	30-Jun-12	time	2.43	3.45	4.45	5.42	6.40	7.39	8.37	9.47	10.54	11.61	13.24	7 / 7			
reaction time	0.179	interval	7 steps	1.02	1.00	0.97	0.98	0.99	0.98	1.10	1.07	1.07	1.63		2.99	2.95	3.24
wind	1.2 m/s	velocity	5.65	8.96	9.14	9.42	9.33	9.23	9.33	8.31	8.54	8.54	8.60	8.31	9.17	9.29	8.46
Fourie, Lehann (RSA) (1987)																	
FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)												<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	07-Sep-12	time	2.48	3.52	4.52	5.52	6.52	7.54	8.58	9.60	10.62	11.70	13.24	3 / 6			
reaction time	0.133	interval	7 steps	1.04	1.00	1.00	1.00	1.02	1.04	1.02	1.02	1.08	1.54	AR	3.04	3.06	3.12
wind	0.3 m/s	velocity	5.53	8.79	9.14	9.14	9.14	8.96	8.79	8.96	8.96	8.46	9.10	8.31	9.02	8.96	8.79
Shubenkov, Sergey (RUS) (1990)																	
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)												<i>Henson (2021) - Athlete First: major championships report</i>					
date	12-Aug-13	time	2.56	3.58	4.58	5.56	6.58	7.62	8.66	9.68	10.72	11.80	13.24	5 / 3			
reaction time	0.154	interval	7 steps	1.02	1.00	0.98	1.02	1.04	1.04	1.02	1.04	1.08	1.44		3.00	3.10	3.14
wind	0.3 m/s	velocity	5.36	8.96	9.14	9.33	8.96	8.79	8.79	8.96	8.79	8.46	9.74	8.31	9.14	8.85	8.73
Bascou, Dimitri (FRA) (1987)																	
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)												<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
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
Pozzi, Andy (GBR) (1992)																	
FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)												<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	29-Apr-17	time	2.50	3.53	4.53	5.53	6.50	7.53	8.53	9.55	10.60	11.66	13.24	3 / 2			
reaction time		interval	7 steps	1.03	1.00	1.00	0.97	1.03	1.00	1.02	1.05	1.06	1.58		3.03	3.00	3.13
wind	1.8 m/s	velocity	5.49	8.87	9.14	9.14	9.42	8.87	9.14	8.96	8.70	8.62	8.87	8.31	9.05	9.14	8.76
Pozzi, Andy (GBR) (1992)																	
FINAL - 2017 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)												<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	08-Jun-17	time	2.48	3.52	4.52	5.52	6.52	7.50	8.52	9.58	10.62	11.74	13.24	5 / 4			
reaction time	0.119	interval	7 steps	1.04	1.00	1.00	1.00	0.98	1.02	1.06	1.04	1.12	1.50		3.04	3.00	3.22
wind	-0.3 m/s	velocity	5.53	8.79	9.14	9.14	9.14	9.33	8.96	8.62	8.79	8.16	9.35	8.31	9.02	9.14	8.52
Alkana, Antonio (RSA) (1990)																	
FINAL - 2017 Meeting de Paris (Paris, FRA) (TV Analysis)												<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
Allen, Devon (USA) (1994)																	
FINAL - 2017 Memorial van Damme (Brussels, BEL) (TV Analysis)												<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	01-Sep-17	time	2.52	3.58	4.62	5.62	6.66	7.68	8.72	9.74	10.78	11.82	13.24	4 / 4			
reaction time	0.122	interval		1.06	1.04	1.00	1.04	1.02	1.04	1.02	1.04	1.04	1.42		3.10	3.10	3.10
wind	0.5 m/s	velocity	5.44	8.62	8.79	9.14	8.79	8.96	8.79	8.96	8.79	8.79	9.87	8.31	8.85	8.85	8.85
Ortega, Orlando (ESP) (1991)																	
FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)												<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	30-Jun-19	time	2.55	3.60	4.62	5.63	6.62	7.64	8.68	9.70	10.75	11.80	13.24	4 / 1			
reaction time	0.163	interval	7 steps	1.05	1.02	1.01	0.99	1.02	1.04	1.02	1.05	1.05	1.44		3.08	3.05	3.12
wind	0.3 m/s	velocity	5.38	8.70	8.96	9.05	9.23	8.96	8.79	8.96	8.70	8.70	9.74	8.31	8.90	8.99	8.79
Martinot Lagarde, Pascal (FRA) (199)																	
FINAL - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)												<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	24-Aug-19	time	2.50	3.54	4.56	5.56	6.56	7.58	8.58	9.62	10.66	11.76	13.24	2 / 5			
reaction time	0.165	interval	7 steps	1.04	1.02	1.00	1.00	1.02	1.00	1.04	1.04	1.10	1.48		3.06	3.02	3.18
wind	0.8 m/s	velocity	5.49	8.79	8.96	9.14	9.14	8.96	9.14	8.79	8.79	8.31	9.47	8.31	8.96	9.08	8.62
Xie Wenjun (CHN) (1990)																	
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)												<i>CAA Hurdle Development (2020)</i>					
date	16-Sep-20	time	2.57	3.62	4.65	5.68	6.69	7.71	8.73	9.75	10.78	11.83	13.24	5 / 1			
reaction time	0.162	interval	7 steps	1.05	1.03	1.03	1.01	1.02	1.02	1.02	1.03	1.05	1.41		3.11	3.05	3.10
wind	0.4 m/s	velocity	5.34	8.70	8.87	8.87	9.05	8.96	8.96	8.96	8.87	8.70	9.94	8.31	8.82	8.99	8.85
Levy, Ronald (JAM) (1992)																	
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)												<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	28-Aug-21	time	2.48	3.54	4.58	5.60	6.60	7.62	8.64	9.68	10.72	11.78	13.24	4 / 4			
reaction time	0.144	interval	7 steps	1.06	1.04	1.02	1.00	1.02	1.02	1.04	1.04	1.06	1.46		3.12	3.04	3.14
wind	0.7 m/s	velocity	5.53	8.62	8.79	8.96	9.14	8.96	8.96	8.79	8.79	8.62	9.60	8.31	8.79	9.02	8.73
Parchment, Hansle (JAM) (1990)																	
FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)												<i>Omega Timing (2023) - diamond league race analysis</i>					

														Omega Timing (2023) - diamond league race analysis				
Heat 2 - 2023 Meeting de Paris (Paris, FRA)																		
date	09-Jun-23	time	2.40	3.46	4.47	5.47	6.47	7.48	8.51	9.55	10.61	11.67	13.25	5 / 3				
reaction time	0.171	interval	7 steps	1.06	1.01	1.00	1.00	1.01	1.03	1.04	1.06	1.06	1.58	PB	3.07	3.04	3.16	
wind	-0.6 m/s	velocity	5.72	8.62	9.05	9.14	9.14	9.05	8.87	8.79	8.62	8.62	8.87	8.30	8.93	9.02	8.68	
Iribarne, Roger (CUB) (1996)																		
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)														Omega Timing (2023) - diamond league race analysis				
date	16-Jul-23	time	2.37	3.42	4.45	5.46	6.47	7.49	8.52	9.56	10.61	11.68	13.25	4 / 1				
reaction time	0.147	interval	7 steps	1.05	1.03	1.01	1.01	1.02	1.03	1.04	1.05	1.07	1.57		3.09	3.06	3.16	
wind	0.3 m/s	velocity	5.79	8.70	8.87	9.05	9.05	8.96	8.87	8.79	8.70	8.54	8.93	8.30	8.87	8.96	8.68	
Britt, Jamal (USA) (1998)																		
FINAL - 2023 London Athletics Meet (London, GBR)														Omega Timing (2023) - diamond league race analysis				
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	
Pierce, Jack (USA) (1962)																		
FINAL - 1992 Olympic Games (Barcelona, ESP)														Knight (1992) - 1992 Olympic report: the hurdling events				
date	03-Aug-92	time	2.60	3.66	4.69	5.70	6.75	7.78	8.81	9.84	10.89	11.92	13.26	6 / 3				
reaction time	0.173	interval		1.06	1.03	1.01	1.05	1.03	1.03	1.03	1.05	1.03	1.34		3.10	3.11	3.11	
wind	0.8 m/s	velocity	5.28	8.62	8.87	9.05	8.70	8.87	8.87	8.87	8.70	8.87	10.46	8.30	8.85	8.82	8.82	
Martinot Lagarde, Pascal (FRA) (1999)																		
FINAL - 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	5.60	6.60	7.62	8.64	9.66	10.70	11.76	13.25	2 / 4				
reaction time	0.180	interval	7 steps	1.04	1.02	1.02	1.00	1.02	1.02	1.02	1.04	1.06	1.49		3.08	3.04	3.12	
wind	2.3 m/s	velocity	5.44	8.79	8.96	8.96	9.14	8.96	8.96	8.96	8.79	8.62	9.41	8.30	8.90	9.02	8.79	
Joseph, Jason (SUI) (1998)																		
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														Henson (2023) - Athlete First: 2023 year end hurdle report				
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	1.01	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	
Jarrett, Tony (GBR) (1968)																		
FINAL - 1992 Olympic Games (Barcelona, ESP)														Knight (1992) - 1992 Olympic report: the hurdling events				
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	
Philibert, Dan (FRA) (1970)																		
FINAL - 1997 IAAF World Championships (Athens, GRE)														Hommel (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997				
date	07-Aug-97	time	2.62	3.70	4.70	5.70	6.70	7.72	8.74	9.76	10.82	11.86	13.26	6 / 5				
reaction time	0.118	interval		1.08	1.00	1.00	1.00	1.02	1.02	1.02	1.06	1.04	1.40	PB	3.08	3.04	3.12	
wind	0.0 m/s	velocity	5.24	8.46	9.14	9.14	9.14	8.96	8.96	8.96	8.62	8.79	10.01	8.30	8.90	9.02	8.79	
Balzer, Falk (GER) (1973)																		
FINAL - 1999 IAAF World Championships (Sevilla, ESP)														Sanchez (1999) - Sevilla '99: análisis de la carreras con villas				
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	1.02	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	8.96	9.14	9.05	8.79	8.46	9.87	8.30	8.93	9.02	8.76	
Trammell, Terrence (USA) (1978)																		
Semi-Final 2 - 2007 USATF National Championships (Indianapolis, IN)														USATF Men's Hurdle Development (2007)				
date	24-Jun-07	time	2.59	3.64	4.65	5.69	6.71	7.72	8.73	9.78	10.82	11.86	13.26	2 / 1				
reaction time		interval		1.05	1.01	1.04	1.02	1.01	1.01	1.05	1.04	1.04	1.40		3.10	3.04	3.13	
wind	-0.9 m/s	velocity	5.30	8.70	9.05	8.79	8.96	9.05	9.05	8.70	8.79	8.79	10.01	8.30	8.85	9.02	8.76	
Robles, Dayron (CUB) (1986)																		
FINAL - 2010 Colorful Daegu Meeting (Daegu, KOR)														Hong (2018) - performance of men's 110m hurdles using rhythmic units				
date	19-May-10	time	2.69	3.76	4.76	5.74	6.76	7.76	8.76	9.78	10.83	11.88	13.26	1 / 2				
reaction time	0.216	interval	7 steps	1.07	1.00	0.98	1.02	1.00	1.00	1.02	1.05	1.05	1.38		3.05	3.02	3.12	
wind	-0.2 m/s	velocity	5.10	8.54	9.14	9.33	8.96	9.14	9.14	8.96	8.70	8.70	10.16	8.30	8.99	9.08	8.79	
Merritt, Aries (USA) (1985)																		
FINAL - 2012 Golden Grand Prix (Shanghai, CHN)														Feng (2016) - Liu Xiang's seven-step starting: discussion on the key issues of 110m hurdles technical training				
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	1.56		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	
Ortega, Orlando (ESP) (1991)																		
Semi-Final 1 - 2012 Olympic Games (London, GBR) (TV Analysis)														Henson (2020) - Athlete First: 2012 Aries Merritt world record season				
date	08-Aug-12	time	2.52	3.56	4.60	5.60	6.60	7.62	8.62	9.62	10.66	11.74	13.26	6 / 2				

reaction time	0.151	interval	7 steps	1.04	1.04	1.00	1.00	1.02	1.00	1.00	1.04	1.08	1.52			3.08	3.02	3.12
wind	-0.5 m/s	velocity	5.44	8.79	8.79	9.14	9.14	8.96	9.14	9.14	8.79	8.46	9.22	8.30		8.90	9.08	8.79
Wilson, Ryan (USA) (1980)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)													<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	07-Sep-12	time	2.52	3.56	4.56	5.56	6.58	7.60	8.64	9.66	10.70	11.76		13.26	8 / 7			
reaction time	0.144	interval	7 steps	1.04	1.00	1.00	1.02	1.02	1.04	1.02	1.04	1.06	1.50			3.04	3.08	3.12
wind	0.3 m/s	velocity	5.44	8.79	9.14	9.14	8.96	8.96	8.79	8.96	8.79	8.62	9.35	8.30		9.02	8.90	8.79
Brathwaite, Shane (BAR) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 2 - 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	2.40	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
Levy, Ronald (JAM) (1992)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	26-May-18	time	2.56	3.60	4.62	5.64	6.66	7.70	8.74	9.76	10.80	11.82		13.26	2 / 5			
reaction time	0.171	interval	7 steps	1.04	1.02	1.02	1.02	1.04	1.04	1.02	1.04	1.02	1.44			3.08	3.10	3.08
wind	3.0 m/s	velocity	5.36	8.79	8.96	8.96	8.96	8.79	8.79	8.96	8.79	8.96	9.74	8.30		8.90	8.85	8.90
Izumiya, Shunsuke (JPN) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)													<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
Shubenkov, Sergey (ANA) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	06-Jun-19	time	2.61	3.66	4.68	5.67	6.68	7.69	8.71	9.73	10.75	11.83		13.26	5 / 1			
reaction time	0.132	interval	7 steps	1.05	1.02	0.99	1.01	1.01	1.02	1.02	1.02	1.08	1.43			3.06	3.04	3.12
wind	0.4 m/s	velocity	5.26	8.70	8.96	9.23	9.05	9.05	8.96	8.96	8.96	8.46	9.80	8.30		8.96	9.02	8.79
Allen, Devon (USA) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 3 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													<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
Dickson, Michael (USA) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 3 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	25-Jun-21	time	2.53	3.57	4.60	5.66	6.66	7.66	8.70	9.73	10.73	11.78		13.26	2 / 2			
reaction time	0.208	interval	7 steps	1.04	1.03	1.06	1.00	1.00	1.04	1.03	1.00	1.05	1.48	PB		3.13	3.04	3.08
wind	0.5 m/s	velocity	5.42	8.79	8.87	8.62	9.14	9.14	8.79	8.87	9.14	8.70	9.47	8.30		8.76	9.02	8.90
Zeller, Joshua (GBR) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
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
Martinez, Asier (ESP) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	17-Jul-22	time	2.66	3.70	4.74	5.76	6.80	7.80	8.83	9.83	10.83	11.87		13.26	6 / 2			
reaction time	0.141	interval	7 steps	1.04	1.04	1.02	1.04	1.00	1.03	1.00	1.00	1.04	1.39			3.10	3.07	3.04
wind	0.3 m/s	velocity	5.16	8.79	8.79	8.96	8.79	9.14	8.87	9.14	9.14	8.79	10.09	8.30		8.85	8.93	9.02
Martinot Lagarde, Pascal (FRA) (199)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	10-Aug-22	time	2.46	3.53	4.53	5.53	6.53	7.56	8.60	9.63	10.66	11.76		13.26	8 / 6			
reaction time	0.137	interval	7 steps	1.07	1.00	1.00	1.00	1.03	1.04	1.03	1.03	1.10	1.50			3.07	3.07	3.16
wind	0.6 m/s	velocity	5.58	8.54	9.14	9.14	9.14	8.87	8.79	8.87	8.87	8.31	9.35	8.30		8.93	8.93	8.68
Izumiya, Shunsuke (JPN) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2022 ISTAF (Berlin, GER) (TV Analysis)													<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
Parchment, Hansle (JAM) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	08-Sep-22	time	2.53	3.60	4.64	5.64	6.64	7.64	8.65	9.67	10.71	11.75		13.26	5 / 3			
reaction time	0.153	interval	7 steps	1.07	1.04	1.00	1.00	1.00	1.01	1.02	1.04	1.04	1.51			3.11	3.01	3.10
wind	-1.0 m/s	velocity	5.42	8.54	8.79	9.14	9.14	9.14	9.05	8.96	8.79	8.79	9.28	8.30		8.82	9.11	8.85

														USATF Hurdle Development (2008)				
FINAL - 2008 USA Olympic Trials (Eugene, OR)																		
date	06-Jul-08	time	2.59	3.65	4.70	5.74	6.74	7.76	8.79	9.83	10.84	11.89		13.27	1 / 4			
reaction time	0.136	interval		1.06	1.05	1.04	1.00	1.02	1.03	1.04	1.01	1.05	1.38			3.15	3.05	3.10
wind	3.5 m/s	velocity	5.30	8.62	8.70	8.79	9.14	8.96	8.87	8.79	9.05	8.70	10.16	8.29		8.70	8.99	8.85
Liu Xiang (CHN) (1983)																		
FINAL - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)														Henson (2021) - Athlete First: major championships report				
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	6 / 2			
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
Darlen, Garfield (FRA) (1987)																		
FINAL - 2012 Herculis Meeting International D'Athlétisme (Monaco, MON) (TV Analysis)														Henson (2020) - Athlete First: 2012 Aries Merritt world record season				
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
Richardson, Jason (USA) (1986)																		
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)														Henson (2021) - Athlete First: major championships report				
date	12-Aug-13	time	2.56	3.56	4.56	5.58	6.58	7.58	8.60	9.62	10.64	11.68		13.27	7 / 4			
reaction time	0.158	interval	7 steps	1.00	1.00	1.02	1.00	1.00	1.02	1.02	1.02	1.04	1.59			3.02	3.02	3.08
wind	0.3 m/s	velocity	5.36	9.14	9.14	8.96	9.14	9.14	8.96	8.96	8.96	8.79	8.82	8.29		9.08	9.08	8.90
Brathwaite, Shane (BAR) (1990)																		
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)														Henson (2020) - Athlete First: 2017 year end hurdle report				
date	09-Jul-17	time	2.52	3.60	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
Parchment, Hansle (JAM) (1990)																		
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)														Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles				
date	06-Aug-17	time	2.48	3.56	4.58	5.61	6.63	7.61	8.63	9.66	10.68	11.73		13.27	7 / 2			
reaction time	0.181	interval	7 steps	1.08	1.02	1.03	1.02	0.98	1.02	1.03	1.02	1.05	1.54			3.13	3.02	3.10
wind	0.6 m/s	velocity	5.53	8.46	8.96	8.87	8.96	9.33	8.96	8.87	8.96	8.70	9.10	8.29		8.76	9.08	8.85
Allen, Devon (USA) (1994)																		
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)														Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles				
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
Shubenkov, Sergey (ANA) (1990)																		
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)														Henson (2020) - Athlete First: 2018 year end hurdle report				
date	12-May-18	time	2.52	3.58	4.62	5.66	6.68	7.70	8.72	9.76	10.78	11.82		13.27	6 / 3			
reaction time	0.148	interval	7 steps	1.06	1.04	1.04	1.02	1.02	1.02	1.04	1.02	1.04	1.45			3.14	3.06	3.10
wind	0.2 m/s	velocity	5.44	8.62	8.79	8.79	8.96	8.96	8.96	8.79	8.96	8.79	9.67	8.29		8.73	8.96	8.85
Merritt, Aries (USA) (1985)																		
FINAL - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)														Henson (2020) - Athlete First: 2018 year end hurdle report				
date	26-May-18	time	2.52	3.58	4.60	5.60	6.62	7.64	8.66	9.70	10.74	11.80		13.27	7 / 6			
reaction time	0.144	interval	7 steps	1.06	1.02	1.00	1.02	1.02	1.02	1.04	1.04	1.06	1.47			3.08	3.06	3.14
wind	3.0 m/s	velocity	5.44	8.62	8.96	9.14	8.96	8.96	8.96	8.79	8.79	8.62	9.54	8.29		8.90	8.96	8.73
Baji, Balázs (HUN) (1989)																		
FINAL - 2018 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)														Henson (2020) - Athlete First: 2018 year end hurdle report				
date	02-Jul-18	time	2.48	3.54	4.56	5.58	6.58	7.62	8.64	9.68	10.72	11.76		13.27	2 / 2			
reaction time	0.143	interval	7 steps	1.06	1.02	1.02	1.00	1.04	1.02	1.04	1.04	1.04	1.51			3.10	3.06	3.12
wind	0.6 m/s	velocity	5.53	8.62	8.96	8.96	9.14	8.79	8.96	8.79	8.79	8.79	9.28	8.29		8.85	8.96	8.79
Martinot Lagarde, Pascal (FRA) (199)																		
FINAL - 2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)														Henson (2020) - Athlete First: 2018 year end hurdle report				
date	18-Aug-18	time	2.46	3.52	4.56	5.56	6.54	7.58	8.58	9.60	10.62	11.70		13.27	7 / 3			
reaction time	0.166	interval	7 steps	1.06	1.04	1.00	0.98	1.04	1.00	1.02	1.02	1.08	1.57			3.10	3.02	3.12
wind	1.3 m/s	velocity	5.58	8.62	8.79	9.14	9.33	8.79	9.14	8.96	8.96	8.46	8.93	8.29		8.85	9.08	8.79
Crittenden, Freddie (USA) (1994)																		
FINAL - 2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)														Henson (2020) - Athlete First: 2018 year end hurdle report				
date	18-Aug-18	time	2.46	3.50	4.54	5.56	6.58	7.60	8.60	9.62	10.66	11.74		13.27	2 / 4			
reaction time	0.128	interval		1.04	1.04	1.02	1.02	1.02	1.00	1.02	1.04	1.08	1.53	PB		3.10	3.04	3.14
wind	1.3 m/s	velocity	5.58	8.79	8.79	8.96	8.96	8.96	9.14	8.96	8.79	8.46	9.16	8.29		8.85	9.02	8.73
Ortega, Orlando (ESP) (1991)																		
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)														CAA Hurdle Development (2019)				
date	21-May-19	time	2.57	3.63	4.65	5.68	6.68	7.72	8.74	9.78	10.81	11.87		13.27	5 / 1			

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Jackson, Colin (GBR) (1967)																		
FINAL - 1997 European Cup (Munich, GER)		<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
Trammell, Terrence (USA) (1978)																		
FINAL - 2000 ISTAF (Berlin, GER)		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																
date	01-Sep-00	time	2.54	3.59	4.62	5.63	6.66	7.68	8.72	9.74	10.78	11.85		13.28	/ 1			
reaction time		interval		1.05	1.03	1.01	1.03	1.02	1.04	1.02	1.04	1.07	1.43			3.09	3.09	3.13
wind	-0.4 m/s	velocity	5.40	8.70	8.87	9.05	8.87	8.96	8.79	8.96	8.79	8.54	9.80	8.28		8.87	8.87	8.76
Brown, Joel (USA) (1980)																		
FINAL - 2005 USATF National Championships (Carson, CA)		<i>USATF Women's Sprint Development (2005)</i>																
date	24-Jun-05	time	2.61	3.67	4.71	5.73	6.74	7.78	8.80	9.81	10.86	11.91		13.28	4 / 4			
reaction time		interval		1.06	1.04	1.02	1.01	1.04	1.02	1.01	1.05	1.05	1.37			3.12	3.07	3.11
wind	0.2 m/s	velocity	5.26	8.62	8.79	8.96	9.05	8.79	8.96	9.05	8.70	8.70	10.23	8.28		8.79	8.93	8.82
Payne, David (USA) (1982)																		
Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)		<i>USATF Men's Hurdle Development (2007)</i>																
date	24-Jun-07	time	2.57	3.64	4.65	5.69	6.69	7.72	8.76	9.78	10.82	11.88		13.28	4 / 1			
reaction time		interval		1.07	1.01	1.04	1.00	1.03	1.04	1.02	1.04	1.06	1.40			3.12	3.07	3.12
wind	-0.6 m/s	velocity	5.34	8.54	9.05	8.79	9.14	8.87	8.79	8.96	8.79	8.62	10.01	8.28		8.79	8.93	8.79
Wilson, Ryan (USA) (1980)																		
Heat 2 - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)		<i>Henson (2021) - Athlete First: 2012 Aries Merritt world record season</i>																
date	13-Jul-12	time	2.56	3.60	4.60	5.60	6.60	7.62	8.64	9.68	10.72	11.78		13.28	5 / 3			
reaction time		interval		7 steps	1.04	1.00	1.00	1.00	1.02	1.02	1.04	1.04	1.06	1.50		3.04	3.04	3.14
wind	-0.9 m/s	velocity	5.36	8.79	9.14	9.14	9.14	8.96	8.96	8.79	8.79	8.62	9.35	8.28		9.02	9.02	8.73
Riley, Andrew (JAM) (1988)																		
FINAL - 2012 Herculis Meeting International D'Athlétisme (Monaco, MON) (TV Analysis)		<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																
date	20-Jul-12	time	2.46	3.50	4.53	5.55	6.57	7.64	8.67	9.71	10.72	11.81		13.28	8 / 7			
reaction time		interval		1.04	1.03	1.02	1.02	1.07	1.03	1.04	1.01	1.09	1.47			3.09	3.12	3.14
wind	0.0 m/s	velocity	5.58	8.79	8.87	8.96	8.96	8.54	8.87	8.79	9.05	8.39	9.54	8.28		8.87	8.79	8.73
Fourie, Lehann (RSA) (1987)																		
Semi-Final 3 - 2012 Olympic Games (London, GBR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																
date	08-Aug-12	time	2.44	3.52	4.54	5.56	6.56	7.58	8.58	9.64	10.70	11.78		13.28	6 / 3			
reaction time		interval		7 steps	1.08	1.02	1.02	1.00	1.02	1.00	1.06	1.06	1.08	1.50		3.12	3.02	3.20
wind	0.1 m/s	velocity	5.62	8.46	8.96	8.96	9.14	8.96	9.14	8.62	8.62	8.46	9.35	8.28		8.79	9.08	8.57
Oliver, David (USA) (1982)																		
FINAL - 2012 AVIVA Grand Prix (Birmingham, GBR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																
date	26-Aug-12	time	2.50	3.53	4.56	5.59	6.59	7.62	8.64	9.68	10.74	11.78		13.28	4 / 3			
reaction time		interval		7 steps	1.03	1.03	1.03	1.00	1.03	1.02	1.04	1.06	1.04	1.50		3.09	3.05	3.14
wind	-0.9 m/s	velocity	5.49	8.87	8.87	8.87	9.14	8.87	8.96	8.79	8.62	8.79	9.35	8.28		8.87	8.99	8.73
Xie Wenjun (CHN) (1990)																		
FINAL - 2013 Golden Grand Prix (Shanghai, CHN)		<i>Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles</i>																
date	18-May-13	time	2.54	3.60	4.63	5.64	6.68	7.70	8.74	9.77	10.81	11.87		13.28	/ 3			
reaction time		interval		1.06	1.03	1.01	1.04	1.02	1.04	1.03	1.04	1.06	1.41			3.10	3.10	3.13
wind	-0.5 m/s	velocity	5.40	8.62	8.87	9.05	8.79	8.96	8.79	8.87	8.79	8.62	9.94	8.28		8.85	8.85	8.76
Alkana, Antonio (RSA) (1990)																		
FINAL - 2016 Meeting International Mohammed VI D'Athlétisme (Rabat, MAR) (TV Analysis)		<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		interval		1.04	1.00	1.00	1.00	1.04	1.02	1.04	1.06	1.10	1.50			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
Eaton, Jarret (USA) (1989)																		
FINAL - 2016 Racers Grand Prix (Kingston, JAM) (TV Analysis)		<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
Richardson, Jason (USA) (1986)																		
FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																
date	09-Jul-16	time	2.56	3.60	4.60	5.60	6.60	7.64	8.64	9.67	10.71	11.76		13.28	7 / 5			
reaction time		interval		7 steps	1.04	1.00	1.00	1.00	1.04	1.00	1.03	1.04	1.05	1.52		3.04	3.04	3.12
wind	1.0 m/s	velocity	5.36	8.79	9.14	9.14	9.14	8.79	9.14	8.87	8.79	8.70	9.22	8.28		9.02	9.02	8.79
Baji, Balázs (HUN) (1989)																		

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Ortega, Orlando (ESP) (1991)																		
FINAL - 2019 IAAF World Championships (Doha, QAT)		CAA Hurdle Development (2019)																
date	02-Oct-19	time	2.58	3.60	4.65	5.63	6.66	7.65	8.63	9.66	10.69	11.79		13.30	5 / 3			
reaction time	0.130	interval	7 steps	1.02	1.05	0.98	1.03	0.99	0.98	1.03	1.03	1.10	1.51			3.05	3.00	3.16
wind	0.6 m/s	velocity	5.32	8.96	8.70	9.33	8.87	9.23	9.33	8.87	8.87	8.31	9.28	8.27		8.99	9.14	8.68
Crittenden, Freddie (USA) (1994)																		
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)		Henson (2020) - Athlete First: 2020 year end hurdle report																
date	19-Aug-20	time	2.47	3.50	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
Pozzi, Andy (GBR) (1992)																		
FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		Henson (2021) - Athlete First: 2021 year end hurdle report																
date	06-Aug-21	time	2.46	3.50	4.52	5.52	6.52	7.54	8.58	9.62	10.68	11.76		13.30	3 / 7			
reaction time	0.140	interval	7 steps	1.04	1.02	1.00	1.00	1.02	1.04	1.04	1.06	1.08	1.54			3.06	3.06	3.18
wind	-0.5 m/s	velocity	5.58	8.79	8.96	9.14	9.14	8.96	8.79	8.79	8.62	8.46	9.10	8.27		8.96	8.96	8.62
Martinez, Asier (ESP) (2000)																		
FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)		Henson (2022) - Athlete First: 2022 year end hurdle report																
date	16-Jun-22	time	2.56	3.62	4.64	5.66	6.68	7.70	8.72	9.76	10.80	11.84		13.30	6 / 2			
reaction time	0.137	interval	7 steps	1.06	1.02	1.02	1.02	1.02	1.02	1.04	1.04	1.04	1.46			3.10	3.06	3.12
wind	-1.2 m/s	velocity	5.36	8.62	8.96	8.96	8.96	8.96	8.96	8.79	8.79	8.79	9.60	8.27		8.85	8.96	8.79
Cunningham, Trey (USA) (1998)																		
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)		Henson (2022) - Athlete First: 2022 year end hurdle report																
date	08-Sep-22	time	2.50	3.50	4.50	5.50	6.54	7.54	8.64	9.66	10.74	11.81		13.30	4 / 5			
reaction time	0.153	interval	7 steps	1.00	1.00	1.00	1.04	1.00	1.10	1.02	1.08	1.07	1.49			3.00	3.14	3.17
wind	-1.0 m/s	velocity	5.49	9.14	9.14	9.14	8.79	9.14	8.31	8.96	8.46	8.54	9.41	8.27		9.14	8.73	8.65
Mason, Tyler (JAM) (1995)																		
FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)		Henson (2023) - Athlete First: 2023 year end hurdle report																
date	21-May-23	time	2.56	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
Parchment, Hansle (JAM) (1990)																		
Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)		Henson (2023) - Athlete First: 2023 year end hurdle report																
date	20-Aug-23	time	2.58	3.63	4.63	5.65	6.63	7.66	8.70	9.73	10.77	11.80		13.30	3 / 1			
reaction time	0.195	interval	7 steps	1.05	1.00	1.02	0.98	1.03	1.04	1.03	1.04	1.03	1.50			3.07	3.05	3.10
wind	-0.3 m/s	velocity	5.32	8.70	9.14	8.96	9.33	8.87	8.79	8.87	8.79	8.87	9.35	8.27		8.93	8.99	8.85
Llopis, Enrique (ESP) (2000)																		
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)		Henson (2023) - Athlete First: 2023 year end hurdle report																
date	21-Aug-23	time	2.56	3.62	4.64	5.62	6.63	7.65	8.67	9.70	10.76	11.86		13.30	6 / 3			
reaction time	0.146	interval	7 steps	1.06	1.02	0.98	1.01	1.02	1.02	1.03	1.06	1.10	1.44	PB		3.06	3.05	3.19
wind	-0.2 m/s	velocity	5.36	8.62	8.96	9.33	9.05	8.96	8.96	8.87	8.62	8.31	9.74	8.27		8.96	8.99	8.60
Jackson, Colin (GBR) (1967)																		
FINAL - 1991 European Cup (Frankfurt, GER)		Federle (2003) - http://www.fgs.uni-halle.de																
date	30-Jun-91	time	2.55	3.61	4.64	5.66	6.69	7.72	8.75	9.79	10.83	11.89		13.31	1 / 1			
reaction time		interval		1.06	1.03	1.02	1.03	1.03	1.03	1.04	1.04	1.06	1.42			3.11	3.09	3.14
wind	-0.9 m/s	velocity	5.38	8.62	8.87	8.96	8.87	8.87	8.87	8.79	8.79	8.62	9.87	8.26		8.82	8.87	8.73
Arnold, Dominique (USA) (1973)																		
FINAL - 2000 ISTAF (Berlin, GER)		Graubner (2009) - http://www.fgs.uni-halle.de																
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	1 / 2			
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			3.13	3.08	3.12
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
Wignall, Maurice (JAM) (1976)																		
FINAL - 2009 IAAF World Championships (Berlin, GER)		Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																
date	20-Aug-09	time	2.61	3.66	4.70	5.72	6.75	7.78	8.81	9.85	10.90	11.98		13.31	8 / 5			
reaction time	0.151	interval		1.05	1.04	1.02	1.03	1.03	1.03	1.04	1.05	1.08	1.33			3.11	3.09	3.17
wind	0.1 m/s	velocity	5.26	8.70	8.79	8.96	8.87	8.87	8.87	8.79	8.70	8.46	10.54	8.26		8.82	8.87	8.65
Clarke, Lawrence (GBR) (1990)																		
Semi-Final 1 - 2012 Olympic Games (London, GBR) (TV Analysis)		Henson (2020) - Athlete First: 2012 Aries Merritt world record season																
date	08-Aug-12	time	2.48	3.52	4.54	5.54	6.58	7.58	8.62	9.66	10.72	11.80		13.31	4 / 3			
reaction time	0.159	interval		1.04	1.02	1.00	1.04	1.00	1.04	1.04	1.06	1.08	1.51	PB		3.06	3.08	3.18
wind	-0.5 m/s	velocity	5.53	8.79	8.96	9.14	8.79	9.14	8.79	8.79	8.62	8.46	9.28	8.26		8.96	8.90	8.62
Merritt, Aries (USA) (1985)																		

Semi-Final 1 - 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	2.42	3.45	4.50	5.53	6.58	7.61	8.61	9.64	10.68	11.75		13.32		5 / 5						
reaction time	0.146	interval	7 steps	1.03	1.05	1.03	1.05	1.03	1.00	1.03	1.04	1.07	1.57				3.11	3.08	3.14			
wind	0.2 m/s	velocity	5.67	8.87	8.70	8.87	8.70	8.87	9.14	8.87	8.79	8.54	8.93	8.26			8.82	8.90	8.73			
Brathwaite, Shane (BAR) (1990)																	<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles</i>					
FINAL - 2017 IAAF World Championships (London, GBR)																	<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			
Alkana, Antonio (RSA) (1990)																	<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
FINAL - 2018 Meeting de Paris (Paris, FRA) (TV Analysis)																	<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	1.02	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			
McLeod, Omar (JAM) (1994)																	<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)																	<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			
Crittenden, Freddie (USA) (1994)																	<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)																	<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			
Takayama, Shunya (JPN) (1994)																	<i>Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season</i>					
Heat 4 - 2019 IAAF World Championships (Doha, QAT)																	<i>Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season</i>					
date	30-Sep-19	time	2.56	3.58	4.62	5.64	6.66	7.69	8.72	9.77	10.83	11.89		13.32		7 / 2						
reaction time	0.146	interval		1.02	1.04	1.02	1.02	1.03	1.03	1.05	1.06	1.06	1.43				3.08	3.08	3.17			
wind	0.4 m/s	velocity	5.36	8.96	8.79	8.96	8.96	8.87	8.87	8.70	8.62	8.62	9.80	8.26			8.90	8.90	8.65			
Allen, Devon (USA) (1994)																	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
FINAL - 2021 Fanny Blankers Koen Games (Hengelo, NED) (TV Analysis)																	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	06-Jun-21	time	2.47	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			
Allen, Devon (USA) (1994)																	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)																	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	10-Jun-21	time	2.52	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			
Eaton, Jarret (USA) (1989)																	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)																	<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			
Brown, Tai (USA) (2000)																	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)																	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	26-Jun-21	time	2.60	3.63	4.65	5.67	6.67	7.67	8.69	9.72	10.76	11.84		13.32		8 / 5						
reaction time	0.174	interval		1.03	1.02	1.02	1.00	1.00	1.02	1.03	1.04	1.08	1.48	PB			3.07	3.02	3.15			
wind	0.4 m/s	velocity	5.28	8.87	8.96	8.96	9.14	9.14	8.96	8.87	8.79	8.46	9.47	8.26			8.93	9.08	8.70			
Martinez, Asier (ESP) (2000)																	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)																	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	21-May-22	time	2.50	3.57	4.60	5.63	6.68	7.68	8.73	9.77	10.80	11.87		13.32		6 / 3						
reaction time	0.150	interval	7 steps	1.07	1.03	1.03	1.05	1.00	1.05	1.04	1.03	1.07	1.45				3.13	3.10	3.14			
wind	0.7 m/s	velocity	5.49	8.54	8.87	8.87	8.70	9.14	8.70	8.79	8.87	8.54	9.67	8.26			8.76	8.85	8.73			
Czykier, Damian (POL) (1992)																	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)																	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	21-May-22	time	2.49	3.52	4.53	5.53	6.55	7.57	8.59	9.65	10.72	11.77		13.32		1 / 4						
reaction time	0.158	interval	7 steps	1.03	1.01	1.00	1.02	1.02	1.02	1.06	1.07	1.05	1.55				3.04	3.06	3.18			
wind	0.7 m/s	velocity	5.51	8.87	9.05	9.14	8.96	8.96	8.96	8.62	8.54	8.70	9.05	8.26			9.02	8.96	8.62			
Kwaou-Mathey, Just (FRA) (1999)																	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																	<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	16-Jul-22	time	2.56	3.64	4.66	5.66	6.66	7.70	8.70	9.73	10.76	11.86		13.32		2 / 3						

Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	20-Aug-23	time	2.56	3.60	4.60	5.62	6.63	7.68	8.70	9.73	10.80	11.88	13.33	2 / 2					
reaction time	0.136	interval	7 steps	1.04	1.00	1.02	1.01	1.05	1.02	1.03	1.07	1.08	1.45		3.06	3.08	3.18		
wind	-0.3 m/s	velocity	5.36	8.79	9.14	8.96	9.05	8.70	8.96	8.87	8.54	8.46	9.67	8.25	8.96	8.90	8.62		
Izumiya, Shunsuke (JPN) (2000)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	20-Aug-23	time	2.57	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		
Trajkovic, Milan (CYP) (1992)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	20-Aug-23	time	2.50	3.55	4.58	5.60	6.62	7.65	8.67	9.70	10.78	11.85	13.33	4 / 2					
reaction time	0.164	interval	7 steps	1.05	1.03	1.02	1.02	1.03	1.02	1.03	1.08	1.07	1.48		3.10	3.07	3.18		
wind	-0.6 m/s	velocity	5.49	8.70	8.87	8.96	8.96	8.87	8.96	8.87	8.46	8.54	9.47	8.25	8.85	8.93	8.62		
Trajkovic, Milan (CYP) (1992)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	21-Aug-23	time	2.50	3.56	4.58	5.56	6.58	7.60	8.64	9.68	10.78	11.85	13.33	4 / 5					
reaction time	0.137	interval	7 steps	1.06	1.02	0.98	1.02	1.02	1.04	1.04	1.10	1.07	1.48		3.06	3.08	3.21		
wind	-0.2 m/s	velocity	5.49	8.62	8.96	9.33	8.96	8.96	8.79	8.79	8.31	8.54	9.47	8.25	8.96	8.90	8.54		
Drut, Guy (FRA) (1950)														<i>Kay (1972) - BAAB Munich Technical Report</i>					
FINAL - 1972 Olympic Games (Munich, FRG)														<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	9.14	8.31	9.10	8.85	8.85	8.85		
Ridgeon, Jon (GBR) (1967)														<i>Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics</i>					
Semi-Final 1 - 1987 IAAF World Championships (Rome, ITA)														<i>Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics</i>					
date	01-Sep-87	time	2.60	3.65	4.72	5.73	6.75	7.78	8.85	9.89	10.93	11.98	13.34	3 / 1					
reaction time		interval		1.05	1.07	1.01	1.02	1.03	1.07	1.04	1.04	1.05	1.36		3.13	3.12	3.13		
wind	-0.5 m/s	velocity	5.28	8.70	8.54	9.05	8.96	8.87	8.54	8.79	8.79	8.70	10.31	8.25	8.76	8.79	8.76		
Kingdom, Roger (USA) (1962)														<i>McNichols (2000) - Hurdle technique study through video analysis</i>					
FINAL - 1996 USA Olympic Trials (Atlanta, GA)														<i>McNichols (2000) - Hurdle technique study through video analysis</i>					
date	23-Jun-96	time	2.45	3.50	4.53	5.52	6.55	7.54	8.55	9.62	10.65	11.77	13.34	1 / 5					
reaction time		interval		1.05	1.03	0.99	1.03	0.99	1.01	1.07	1.03	1.12	1.57		3.07	3.03	3.22		
wind	0.9 m/s	velocity	5.60	8.70	8.87	9.23	8.87	9.23	9.05	8.54	8.87	8.16	8.93	8.25	8.93	9.05	8.52		
Olijar, Stanislav (LAT) (1979)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
Semi-Final 1 - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
date	10-Aug-02	time	2.60	3.63	4.65	5.67	6.68	7.71	8.75	9.79	10.85	11.94	13.34	1 / 1					
reaction time	0.143	interval		1.03	1.02	1.02	1.01	1.03	1.04	1.04	1.06	1.09	1.40		3.07	3.08	3.19		
wind	-0.5 m/s	velocity	5.28	8.87	8.96	8.96	9.05	8.87	8.79	8.79	8.62	8.39	10.01	8.25	8.93	8.90	8.60		
Kiss, Dániel (HUN) (1982)														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
Heat 6 - 2009 IAAF World Championships (Berlin, GER)														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	19-Aug-09	time	2.70	3.77	4.78	5.79	6.79	7.79	8.81	9.83	10.87	11.97	13.34	7 / 1					
reaction time	0.158	interval		1.07	1.01	1.01	1.00	1.00	1.02	1.02	1.04	1.10	1.37	NR	3.09	3.02	3.16		
wind	0.1 m/s	velocity	5.08	8.54	9.05	9.05	9.14	9.14	8.96	8.96	8.79	8.31	10.23	8.25	8.87	9.08	8.68		
Richardson, Jason (USA) (1986)														<i>Henson (2021) - Athlete First: 2012 Aries Merritt world record season</i>					
FINAL - 2012 Colorful Daegu Meeting (Daegu, KOR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2012 Aries Merritt world record season</i>					
date	16-May-12	time	2.65	3.70	4.70	5.72	6.74	7.77	8.77	9.79			13.34	4 / 3					
reaction time	0.234	interval	7 steps	1.05	1.00	1.02	1.02	1.03	1.00	1.02					3.07	3.05			
wind	-0.4 m/s	velocity	5.18	8.70	9.14	8.96	8.96	8.87	9.14	8.96				8.25	8.93	8.99			
Eaton, Jarret (USA) (1989)														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
FINAL - 2012 Prefontaine Classic (Eugene, OR) (TV Analysis)														<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		
Xie Wenjun (CHN) (1990)														<i>Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles</i>					
Semi-Final 2 - 2012 Olympic Games (London, GBR)														<i>Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles</i>					
date	08-Aug-12	time	2.60	3.68	4.72	5.73	6.74	7.78	8.80	9.84	10.89	11.96	13.34	9 / 3					
reaction time	0.158	interval		1.08	1.04	1.01	1.01	1.04	1.02	1.04	1.05	1.07	1.38	PB	3.13	3.07	3.16		
wind	0.1 m/s	velocity	5.28	8.46	8.79	9.05	9.05	8.79	8.96	8.79	8.70	8.54	10.16	8.25	8.76	8.93	8.68		
Wilson, Ryan (USA) (1980)														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
FINAL - 2012 AVIVA Grand Prix (Birmingham, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	26-Aug-12	time	2.54	3.60	4.63	5.64	6.64	7.66	8.70	9.73	10.77	11.83	13.34	1 / 4					

FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)														<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	3.23
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	8.49
Brathwaite, Shane (BAR) (1990)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
FINAL - 2019 ISTAF (Berlin, GER) (TV Analysis)														<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
Chen Kuei-Ru (TPE) (1993)														<i>Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season</i>				
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)														<i>Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season</i>				
date	01-Sep-19	time	2.56	3.61	4.65	5.69	6.72	7.75	8.78	9.80	10.85	11.91		13.36	6 / 2			
reaction time		interval	7 steps	1.05	1.04	1.04	1.03	1.03	1.03	1.02	1.05	1.06	1.45			3.13	3.09	3.13
wind	1.4 m/s	velocity	5.36	8.70	8.79	8.79	8.87	8.87	8.87	8.96	8.70	8.62	9.67	8.23		8.76	8.87	8.76
Allen, Devon (USA) (1994)														<i>CAA Hurdle Development (2019)</i>				
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>				
date	02-Oct-19	time	2.60	3.64	4.67	5.69	6.76	7.75	8.80	9.83	10.87	11.95		13.36	9 / 4			
reaction time	0.119	interval		1.04	1.03	1.02	1.07	0.99	1.05	1.03	1.04	1.08	1.41			3.09	3.11	3.15
wind	0.9 m/s	velocity	5.28	8.79	8.87	8.96	8.54	9.23	8.70	8.87	8.79	8.46	9.94	8.23		8.87	8.82	8.70
Kanai, Taio (JPN) (1995)														<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>				
FINAL - 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	2.56	3.60	4.63	5.66	6.68	7.73	8.77	9.82	10.89	11.95		13.36	6 / 1			
reaction time	0.137	interval	7 steps	1.04	1.03	1.03	1.02	1.05	1.04	1.05	1.07	1.06	1.41			3.10	3.11	3.18
wind	-0.1 m/s	velocity	5.36	8.79	8.87	8.87	8.96	8.70	8.79	8.70	8.54	8.62	9.94	8.23		8.85	8.82	8.62
Broadbell, Rasheed (JAM) (2000)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<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
Joseph, Jason (SUI) (1998)														<i>Omega Timing (2023) - diamond league race analysis</i>				
Heat 1 - 2023 Meeting de Paris (Paris, FRA)														<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
Edwards, Eric (USA) (2000)														<i>Omega Timing (2023) - diamond league race analysis</i>				
Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)														<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
Cunningham, Trey (USA) (1998)														<i>Omega Timing (2023) - diamond league race analysis</i>				
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	16-Jul-23	time	2.41	3.46	4.48	5.49	6.50	7.52	8.54	9.58	10.63	11.70		13.36	3 / 4			
reaction time	0.147	interval	7 steps	1.05	1.02	1.01	1.01	1.02	1.02	1.04	1.05	1.07	1.66			3.08	3.05	3.16
wind	0.3 m/s	velocity	5.69	8.70	8.96	9.05	9.05	8.96	8.96	8.79	8.70	8.54	8.45	8.23		8.90	8.99	8.68
Roberts, Daniel (USA) (1998)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	20-Aug-23	time	2.53	3.55	4.57	5.60	6.62	7.70	8.74	9.79	10.88	11.94		13.36	5 / 3			
reaction time	0.155	interval		1.02	1.02	1.03	1.02	1.08	1.04	1.05	1.09	1.06	1.42			3.07	3.14	3.20
wind	-0.9 m/s	velocity	5.42	8.96	8.96	8.87	8.96	8.46	8.79	8.70	8.39	8.62	9.87	8.23		8.93	8.73	8.57
Britt, Jamal (USA) (1998)														<i>Omega Timing (2023) - diamond league race analysis</i>				
FINAL - 2023 Prefontaine Classic (Eugene, OR)														<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
Jackson, Colin (GBR) (1967)														<i>Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics</i>				
Heat 1 - 1987 IAAF World Championships (Rome, ITA)														<i>Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics</i>				
date	01-Sep-87	time	2.61	3.67	4.70	5.71	6.73	7.73	8.75	9.79	10.87	11.95		13.37	7 / 2			
reaction time		interval		1.06	1.03	1.01	1.02	1.00	1.02	1.04	1.08	1.08	1.42	PB		3.10	3.04	3.20
wind	1.4 m/s	velocity	5.26	8.62	8.87	9.05	8.96	9.14	8.96	8.79	8.46	8.46	9.87	8.23		8.85	9.02	8.57
Kingdom, Roger (USA) (1962)														<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>				
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)														<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>				
date	26-Sep-88	time	2.60	3.66	4.68	5.67	6.66	7.68	8.71	9.76	10.83	11.91		13.37	3 / 1			

Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)														<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	
Joseph, Jason (SUI) (1998)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
Heat 4 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	20-Aug-23	time	2.53	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	
Tinch, Cordell (USA) (2000)														<i>Omega Timing (2023) - diamond league race analysis</i>				
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	02-Sep-23	time	2.41	3.43	4.45	5.47	6.48	7.51	8.54	9.59	10.66	11.74	13.38	8 / 7				
reaction time	0.170	interval	7 steps	1.02	1.02	1.02	1.01	1.03	1.03	1.05	1.07	1.08	1.64		3.06	3.07	3.20	
wind	0.0 m/s	velocity	5.69	8.96	8.96	8.96	9.05	8.87	8.87	8.70	8.54	8.46	8.55	8.22	8.96	8.93	8.57	
Chen Yanhao (CHN) (1972)														<i>Yuan (1998) - Chen Yanhao analysis of 110m results</i>				
FINAL - 1994 Asian Games (Hiroshima, JPN)														<i>Yuan (1998) - Chen Yanhao analysis of 110m results</i>				
date	15-Oct-94	time	2.58	3.62	4.66	5.68	6.63	7.70	8.74	9.78	10.84	11.92	13.39	1 / 2				
reaction time		interval		1.04	1.04	1.02	0.95	1.07	1.04	1.04	1.06	1.08	1.47	PB	3.10	3.06	3.18	
wind	1.6 m/s	velocity	5.32	8.79	8.79	8.96	9.62	8.54	8.79	8.79	8.62	8.46	9.54	8.22	8.85	8.96	8.62	
Ross, Duane (USA) (1972)														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
Heat 1 - 1999 IAAF World Championships (Sevilla, ESP)														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	23-Aug-99	time	2.53	3.55	4.57	5.58	6.59	7.64	8.69	9.77	10.82	11.89	13.39	1 / 1				
reaction time	0.162	interval		1.02	1.02	1.01	1.01	1.05	1.05	1.08	1.05	1.07	1.50		3.05	3.11	3.20	
wind	0.6 m/s	velocity	5.42	8.96	8.96	9.05	9.05	8.70	8.70	8.46	8.70	8.54	9.35	8.22	8.99	8.82	8.57	
Schwarthoff, Florian (GER) (1968)														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
FINAL - 1999 IAAF World Championships (Sevilla, ESP)														<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	25-Aug-99	time	2.56	3.59	4.64	5.64	6.67	7.67	8.69	9.73	10.80	11.89	13.39	6 / 7				
reaction time	0.132	interval	7 steps	1.03	1.05	1.00	1.03	1.00	1.02	1.04	1.07	1.09	1.50		3.08	3.05	3.20	
wind	1.0 m/s	velocity	5.36	8.87	8.70	9.14	8.87	9.14	8.96	8.79	8.54	8.39	9.35	8.22	8.90	8.99	8.57	
Fenner, Mike (GER) (1971)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
FINAL - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
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				
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	
Merritt, Aries (USA) (1985)														<i>USATF Women's Sprint Development (2005)</i>				
FINAL - 2005 USATF National Championships (Carson, CA)														<i>USATF Women's Sprint Development (2005)</i>				
date	24-Jun-05	time	2.66	3.74	4.81	5.81	6.84	7.88	8.93	9.91	10.97	12.03	13.39	8 / 7				
reaction time		interval		1.08	1.07	1.00	1.03	1.04	1.05	0.98	1.06	1.06	1.36		3.15	3.12	3.10	
wind	0.2 m/s	velocity	5.16	8.46	8.54	9.14	8.87	8.79	8.70	9.33	8.62	8.62	10.31	8.22	8.70	8.79	8.85	
Townsend, Fred (USA) (1982)														<i>Blomkvist (2012) - www.sub13.se</i>				
FINAL - 2012 Windsprint (Sundsvall, SWE)														<i>Blomkvist (2012) - www.sub13.se</i>				
date	17-Jun-12	time	2.64	3.68	4.72	5.75	6.77	7.78	8.83	9.86	10.92	11.98	13.39	4 / 1				
reaction time		interval		1.04	1.04	1.03	1.02	1.01	1.05	1.03	1.06	1.06	1.41	PB	3.11	3.08	3.15	
wind	1.1 m/s	velocity	5.20	8.79	8.79	8.87	8.96	9.05	8.70	8.87	8.62	8.62	9.94	8.22	8.82	8.90	8.70	
Brown, Joel (USA) (1980)														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>				
FINAL - 2012 AVIVA London Grand Prix (London, GBR) (TV Analysis)														<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	
Clarke, Lawrence (GBR) (1990)														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>				
FINAL - 2012 Olympic Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>				
date	08-Aug-12	time	2.50	3.54	4.56	5.58	6.62	7.66	8.74	9.78	10.82	11.90	13.39	2 / 4				
reaction time	0.169	interval		1.04	1.02	1.02	1.04	1.04	1.08	1.04	1.04	1.08	1.49		3.08	3.16	3.16	
wind	-0.3 m/s	velocity	5.49	8.79	8.96	8.96	8.79	8.79	8.46	8.79	8.79	8.46	9.41	8.22	8.90	8.68	8.68	
Brathwaite, Ryan (BAR) (1988)														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>				
FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>				
date	07-Sep-12	time	2.48	3.52	4.56	5.56	6.56	7.56	8.58	9.62	10.70	11.80	13.39	9 / 8				
reaction time	0.156	interval		1.04	1.04	1.00	1.00	1.00	1.02	1.04	1.08	1.10	1.59		3.08	3.02	3.22	
wind	0.3 m/s	velocity	5.53	8.79	8.79	9.14	9.14	9.14	8.96	8.79	8.46	8.31	8.82	8.22	8.90	9.08	8.52	
Perini, Lorenzo (ITA) (1994)														<i>FIDAL - Centro Studi & Ricerche (2013) - www.youtube.com/watch?v=IGr3fQGxe1c</i>				
FINAL - 2013 Italian National Junior Championships (Rieti, ITA) (99cm)														<i>FIDAL - Centro Studi & Ricerche (2013) - www.youtube.com/watch?v=IGr3fQGxe1c</i>				
date	15-Jun-13	time	2.70	3.76	4.80	5.82	6.83	7.84	8.86	9.89	10.92	11.95	13.39	6 / 1				

Yazawa, Wataru (JPN) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 All Star Night (Hiratsuka, JPN)															<i>(2017) - tfdata-store.com/2017/07/26/post-1072/</i>			
date	22-Jul-17	time	2.59	3.66	4.71	5.74	6.78	7.82	8.87	9.93	11.00	12.07		13.49	6 / 1			
reaction time	0.146	interval	7 steps	1.07	1.05	1.03	1.04	1.04	1.05	1.06	1.07	1.07	1.42		3.15	3.13	3.20	
wind	1.8 m/s	velocity	5.30	8.54	8.70	8.87	8.79	8.79	8.70	8.62	8.54	8.54	9.87	8.15	8.70	8.76	8.57	
Brathwaite, Shane (BAR) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Memorial van Damme (Brussels, BEL) (TV Analysis)															<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	01-Sep-17	time	2.60	3.66	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	
Chen Kuei-Ru (TPE) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)															<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>			
date	20-May-18	time	2.60	3.66	4.71	5.75	6.78	7.83	8.90	9.96	11.05	12.13		13.49	5 / 1			
reaction time	0.153	interval	7 steps	1.06	1.05	1.04	1.03	1.05	1.07	1.06	1.09	1.08	1.36	NR PB	3.15	3.15	3.23	
wind	-0.4 m/s	velocity	5.28	8.62	8.70	8.79	8.87	8.70	8.54	8.62	8.39	8.46	10.31	8.15	8.70	8.70	8.49	
Merritt, Aries (USA) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)															<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	20-Jul-18	time	2.46	3.52	4.58	5.60	6.62	7.66	8.70	9.74	10.82	11.90		13.49	8 / 7			
reaction time	0.136	interval	7 steps	1.06	1.06	1.02	1.02	1.04	1.04	1.04	1.08	1.08	1.59		3.14	3.10	3.20	
wind	-0.2 m/s	velocity	5.58	8.62	8.62	8.96	8.96	8.79	8.79	8.79	8.46	8.46	8.82	8.15	8.73	8.85	8.57	
Chen Kuei-Ru (TPE) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	21-May-19	time	2.56	3.62	4.64	5.66	6.70	7.74	8.80	9.87	10.94	12.01		13.49	2 / 5			
reaction time	0.169	interval	7 steps	1.06	1.02	1.02	1.04	1.04	1.06	1.07	1.07	1.07	1.48		3.10	3.14	3.21	
wind	0.1 m/s	velocity	5.36	8.62	8.96	8.96	8.79	8.79	8.62	8.54	8.54	8.54	9.47	8.15	8.85	8.73	8.54	
Ishikawa, Shuhei (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Fuse Sprint (Tottori, JPN)															<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>			
date	02-Jun-19	time	2.57	3.62	4.66	5.70	6.73	7.77	8.83	9.88	10.94	12.04		13.49	5 / 2			
reaction time	0.149	interval	7 steps	1.05	1.04	1.04	1.03	1.04	1.06	1.05	1.06	1.10	1.45	PB	3.13	3.13	3.21	
wind	1.9 m/s	velocity	5.34	8.70	8.79	8.79	8.87	8.79	8.62	8.70	8.62	8.31	9.67	8.15	8.76	8.76	8.54	
Martinot Lagarde, Pascal (FRA) (199)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	21-Jul-19	time	2.45	3.51	4.55	5.58	6.60	7.63	8.66	9.73	10.80	11.90		13.49	8 / 4			
reaction time	0.152	interval	7 steps	1.06	1.04	1.03	1.02	1.03	1.03	1.07	1.07	1.10	1.59		3.13	3.08	3.24	
wind	0.4 m/s	velocity	5.60	8.62	8.79	8.87	8.96	8.87	8.87	8.54	8.54	8.31	8.82	8.15	8.76	8.90	8.46	
Xie Wenjun (CHN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	06-Sep-19	time	2.54	3.60	4.66	5.70	6.72	7.74	8.80	9.84	10.88	11.98		13.49	4 / 5			
reaction time	0.150	interval	7 steps	1.06	1.06	1.04	1.02	1.02	1.06	1.04	1.04	1.10	1.51		3.16	3.10	3.18	
wind	0.0 m/s	velocity	5.40	8.62	8.62	8.79	8.96	8.96	8.62	8.79	8.79	8.31	9.28	8.15	8.68	8.85	8.62	
Kurokawa, Kazuki (JPN) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (99cm)															<i>Enomoto (2019) - research on athlete performance and technique- 2019 data book</i>			
date	06-Oct-19	time	2.61	3.69	4.75	5.78	6.80	7.83	8.88	9.92	10.97	12.02		13.49	9 / 3			
reaction time	0.157	interval	1.08	1.06	1.03	1.02	1.03	1.05	1.04	1.05	1.05	1.05	1.47		3.17	3.10	3.14	
wind	2.7 m/s	velocity	5.26	8.46	8.62	8.87	8.96	8.87	8.70	8.79	8.70	8.70	9.54	8.15	8.65	8.85	8.73	
Belocian, Wilhem (FRA) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)															<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>			
date	17-Sep-20	time	2.50	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	
Takayama, Shunya (JPN) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 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	2.53	3.58	4.61	5.65	6.68	7.73	8.79	9.84	10.93	12.01		13.49	7 / 1			
reaction time		interval	1.05	1.03	1.04	1.03	1.05	1.06	1.05	1.09	1.08	1.48		3.12	3.14	3.22		
wind	0.6 m/s	velocity	5.42	8.70	8.87	8.79	8.87	8.70	8.62	8.70	8.39	8.46	9.47	8.15	8.79	8.73	8.52	
Xie Wenjun (CHN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Flavour Hangzhou Athletics Meeting (Hangzhou, CHN)															<i>CAA Hurdle Development (2021)</i>			
date	09-Jul-21	time	2.64	3.70	4.74	5.77	6.79	7.82	8.86	9.91	10.98	12.06		13.49	4 / 1			
reaction time	0.154	interval	1.06	1.04	1.03	1.02	1.03	1.04	1.05	1.07	1.08	1.43		3.13	3.09	3.20		
wind	0.4 m/s	velocity	5.20	8.62	8.79	8.87	8.96	8.87	8.79	8.70	8.54	8.46	9.80	8.15	8.76	8.87	8.57	
Pozzi, Andy (GBR) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	

FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	28-Aug-21	time	2.52	3.56	4.60	5.62	6.64	7.68	8.72	9.76	10.86	11.94	13.49	8 / 6					
reaction time	0.126	interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.04	1.04	1.10	1.08	1.55		3.10	3.10	3.22		
wind	0.7 m/s	velocity	5.44	8.79	8.79	8.96	8.96	8.79	8.79	8.79	8.31	8.46	9.05	8.15	8.85	8.85	8.52		
Chen Kuei-Ru (TPE) (1993)														<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	08-May-22	time	2.58	3.62	4.68	5.70	6.74	7.77	8.82	9.88	10.95	12.02	13.49	2 / 2					
reaction time	0.166	interval	7 steps	1.04	1.06	1.02	1.04	1.03	1.05	1.06	1.07	1.07	1.47		3.12	3.12	3.20		
wind	0.1 m/s	velocity	5.32	8.79	8.62	8.96	8.79	8.87	8.70	8.62	8.54	8.54	9.54	8.15	8.79	8.79	8.57		
Hough, Nicholas (AUS) (1993)														<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	08-May-22	time	2.66	3.77	4.82	5.85	6.87	7.89	8.90	9.94	10.98	12.05	13.49	9 / 3					
reaction time	0.155	interval	7 steps	1.11	1.05	1.03	1.02	1.02	1.01	1.04	1.04	1.07	1.44		3.19	3.05	3.15		
wind	0.1 m/s	velocity	5.16	8.23	8.70	8.87	8.96	8.96	9.05	8.79	8.79	8.54	9.74	8.15	8.60	8.99	8.70		
Abe, Tatsuki (JPN) (2003)														<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
FINAL - 2022 Japanese U20 National Championships (Osaka, JPN) (99cm)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
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	PB	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		
Pozzi, Andy (GBR) (1992)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	18-Jun-22	time	2.50	3.54	4.58	5.60	6.62	7.66	8.70	9.76	10.84	11.94	13.49	1 / 6					
reaction time	0.126	interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.04	1.06	1.08	1.10	1.55		3.10	3.10	3.24		
wind	-0.2 m/s	velocity	5.49	8.79	8.79	8.96	8.96	8.79	8.79	8.62	8.46	8.31	9.05	8.15	8.85	8.85	8.46		
Joseph, Jason (SUI) (1998)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	16-Jul-22	time	2.53	3.56	4.60	5.60	6.63	7.66	8.76	9.80	10.86	11.96	13.49	7 / 4					
reaction time	0.140	interval	7 steps	1.03	1.04	1.00	1.03	1.03	1.10	1.04	1.06	1.10	1.53		3.07	3.16	3.20		
wind	-0.5 m/s	velocity	5.42	8.87	8.79	9.14	8.87	8.87	8.31	8.79	8.62	8.31	9.16	8.15	8.93	8.68	8.57		
Martinot Lagarde, Pascal (FRA) (199)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	16-Jul-22	time	2.53	3.56	4.60	5.63	6.66	7.70	8.76	9.80	10.86	11.96	13.49	1 / 5					
reaction time	0.134	interval	7 steps	1.03	1.04	1.03	1.03	1.04	1.06	1.04	1.06	1.10	1.53		3.10	3.13	3.20		
wind	-0.5 m/s	velocity	5.42	8.87	8.79	8.87	8.87	8.79	8.62	8.79	8.62	8.31	9.16	8.15	8.85	8.76	8.57		
Trajkovic, Milan (CYP) (1992)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	17-Jul-22	time	2.56	3.63	4.70	5.70	6.73	7.76	8.83	9.88	10.93	12.03	13.49	5 / 6					
reaction time	0.142	interval	7 steps	1.07	1.07	1.00	1.03	1.03	1.07	1.05	1.05	1.10	1.46		3.14	3.13	3.20		
wind	0.3 m/s	velocity	5.36	8.54	8.54	9.14	8.87	8.87	8.54	8.70	8.70	8.31	9.60	8.15	8.73	8.76	8.57		
Pereira, Rafael (BRA) (1997)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	26-Aug-22	time	2.57	3.60	4.67	5.67	6.71	7.74	8.81	9.88	10.95	12.03	13.49	1 / 5					
reaction time	0.140	interval	1.03	1.07	1.00	1.04	1.03	1.07	1.07	1.07	1.07	1.08	1.46		3.10	3.14	3.22		
wind	0.0 m/s	velocity	5.34	8.87	8.54	9.14	8.79	8.87	8.54	8.54	8.54	8.46	9.60	8.15	8.85	8.73	8.52		
Tinch, Cordell (USA) (2000)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	20-Aug-23	time	2.50	3.55	4.56	5.58	6.60	7.63	8.72	9.78	10.88	11.96	13.49	9 / 4					
reaction time	0.170	interval	7 steps	1.05	1.01	1.02	1.02	1.03	1.09	1.06	1.10	1.08	1.53		3.08	3.14	3.24		
wind	-0.3 m/s	velocity	5.49	8.70	9.05	8.96	8.96	8.87	8.39	8.62	8.31	8.46	9.16	8.15	8.90	8.73	8.46		
Czykier, Damian (POL) (1992)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	20-Aug-23	time	2.56	3.60	4.62	5.63	6.65	7.70	8.73	9.82	10.92	12.00	13.49	7 / 3					
reaction time	0.152	interval	7 steps	1.04	1.02	1.01	1.02	1.05	1.03	1.09	1.10	1.08	1.49		3.07	3.10	3.27		
wind	0.0 m/s	velocity	5.36	8.79	8.96	9.05	8.96	8.70	8.87	8.39	8.31	8.46	9.41	8.15	8.93	8.85	8.39		
Davenport, Willie (USA) (1943)														<i>Kay (1972) - BAAB Munich Technical Report</i>					
FINAL - 1972 Olympic Games (Munich, FRG)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	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	1.10	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	9.14	8.31	8.31	8.31	9.14	8.76	8.15	8.85	8.85	8.57		
Chen Yanhao (CHN) (1972)														<i>Yuan (1998) - Chen Yanhao analysis of 110m results</i>					
FINAL - 1998 ??? (Hiroshima, JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	12-May-98	time	2.56	3.60	4.64	5.67	6.70	7.72	8.84	9.87	10.92	11.99	13.50	1 / 1					

reaction time	interval	1.04	1.04	1.03	1.03	1.02	1.12	1.03	1.05	1.07	1.51			3.11	3.17	3.15		
wind	???	velocity	5.36	8.79	8.79	8.87	8.87	8.96	8.16	8.87	8.70	8.54	9.28	8.15	8.82	8.65	8.70	
Oljaj, Stanislav (LAT) (1979)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 4 - 2002 European Championships (Munich, GER)													Graubner (2009) - http://www.fgs.uni-halle.de					
date	09-Aug-02	time	2.69	3.71	4.73	5.76	6.79	7.81	8.87	9.93	10.99	12.07	13.50	1				
reaction time	0.157	interval	1.02	1.02	1.03	1.03	1.02	1.06	1.06	1.06	1.08	1.43		3.07	3.11	3.20		
wind	-0.1 m/s	velocity	5.10	8.96	8.96	8.87	8.87	8.96	8.62	8.62	8.62	8.46	9.80	8.15	8.93	8.82	8.57	
Svoboda, Petr (CZE) (1984)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)													Feher (2014) - Final report from the Czech Republic national championships					
date	02-Aug-14	time	2.57	3.63	4.67	5.68	6.71	7.76	8.80	9.85	10.91	12.01	13.50	4 / 1				
reaction time	0.140	interval	1.06	1.04	1.01	1.03	1.05	1.04	1.05	1.06	1.10	1.49		3.11	3.12	3.21		
wind	-1.2 m/s	velocity	5.34	8.62	8.79	9.05	8.87	8.70	8.79	8.70	8.62	8.31	9.41	8.15	8.82	8.79	8.54	
Alkana, Antonio (RSA) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)													Henson (2020) - Athlete First: 2016 year end hurdle report					
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	
Baji, Balázs (HUN) (1989)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2016 Memorial van Damme (Brussels, BEL) (TV Analysis)													Henson (2020) - Athlete First: 2016 year end hurdle report					
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	
Takayama, Shunya (JPN) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 3 - 2017 Japanese National Championships (Osaka, JPN)													(2017) - tdata-store.com/2017/07/13/post-1040/					
date	24-Jun-17	time	2.59	3.64	4.69	5.74	6.78	7.83	8.87	9.93	11.00	12.08	13.50	7 / 1				
reaction time	0.159	interval	1.05	1.05	1.05	1.04	1.05	1.04	1.06	1.07	1.08	1.42	PB		3.15	3.13	3.21	
wind	0.5 m/s	velocity	5.30	8.70	8.70	8.70	8.79	8.70	8.79	8.62	8.54	8.46	9.87	8.15	8.70	8.76	8.54	
Al-Mouaed, Ahmad (KSA) (1988)	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	2.53	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	
Masuno, Genta (JPN) (1993)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
A FINAL - 2018 National Sports Festival (Fukui, JPN)													Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season					
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	
Ishikawa, Shuhei (JPN) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2019 Kinami Memorial (Osaka, JPN)													Matsubayashi (2019) - research on athlete performance and technique- 2019 data book					
date	06-May-19	time	2.57	3.61	4.66	5.72	6.77	7.81	8.85	9.91	10.96	12.06	13.50	6 / 2				
reaction time		interval	7 steps	1.04	1.05	1.06	1.05	1.04	1.04	1.06	1.05	1.10	1.44	PB		3.15	3.13	3.21
wind	0.3 m/s	velocity	5.34	8.79	8.70	8.62	8.70	8.79	8.79	8.62	8.70	8.31	9.74	8.15	8.70	8.76	8.54	
Constantino, Gabriel (BRA) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)													Henson (2020) - Athlete First: 2019 year end hurdle report					
date	06-Jun-19	time	2.55	3.60	4.62	5.63	6.66	7.70	8.75	9.80	10.88	11.98	13.50	4 / 4				
reaction time	0.160	interval	7 steps	1.05	1.02	1.01	1.03	1.04	1.05	1.05	1.08	1.10	1.52		3.08	3.12	3.23	
wind	0.4 m/s	velocity	5.38	8.70	8.96	9.05	8.87	8.79	8.70	8.70	8.46	8.31	9.22	8.15	8.90	8.79	8.49	
Trajkovic, Milan (CYP) (1992)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)													Henson (2020) - Athlete First: 2019 year end hurdle report					
date	06-Jun-19	time	2.55	3.63	4.68	5.70	6.73	7.82	8.82	9.92	10.95	12.06	13.50	3 / 5				
reaction time	0.136	interval	7 steps	1.08	1.05	1.02	1.03	1.09	1.00	1.10	1.03	1.11	1.44		3.15	3.12	3.24	
wind	0.4 m/s	velocity	5.38	8.46	8.70	8.96	8.87	8.39	9.14	8.31	8.87	8.23	9.74	8.15	8.70	8.79	8.46	
Pozzi, Andy (GBR) (1992)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)													Henson (2020) - Athlete First: 2019 year end hurdle report					
date	06-Sep-19	time	2.52	3.58	4.60	5.60	6.62	7.66	8.70	9.72	10.82	11.90	13.50	2 / 6				
reaction time	0.141	interval	7 steps	1.06	1.02	1.00	1.02	1.04	1.04	1.02	1.10	1.08	1.60		3.08	3.10	3.20	
wind	0.0 m/s	velocity	5.44	8.62	8.96	9.14	8.96	8.79	8.79	8.96	8.31	8.46	8.76	8.15	8.90	8.85	8.57	
Kwaou-Mathey, Just (FRA) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report					
date	28-Aug-21	time	2.60	3.64	4.68	5.72	6.74	7.76	8.78	9.84	10.92	12.00	13.50	1 / 7				
reaction time	0.161	interval	7 steps	1.04	1.04	1.04	1.02	1.02	1.02	1.06	1.08	1.08	1.50		3.12	3.06	3.22	
wind	0.7 m/s	velocity	5.28	8.79	8.79	8.79	8.96	8.96	8.96	8.62	8.46	8.46	9.35	8.15	8.79	8.96	8.52	

reaction time 0.145 interval 7 steps 1.09 1.05 1.05 1.05 1.05 1.07 1.07 1.08 1.08 1.42 3.19 3.17 3.23
 wind -0.1 m/s velocity 5.40 8.39 8.70 8.70 8.70 8.70 8.54 8.54 8.46 8.46 9.87 8.12 8.60 8.65 8.49

Nomoto, Syusei (JPN) (1995) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN) *Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season*
 date 24-Oct-20 time 2.53 3.59 4.65 5.69 6.75 7.81 8.88 9.95 11.03 12.12 13.55 4 / 2
 reaction time interval 7 steps 1.06 1.06 1.04 1.06 1.06 1.07 1.07 1.08 1.09 1.43 3.16 3.19 3.24
 wind 0.6 m/s velocity 5.42 8.62 8.62 8.79 8.62 8.62 8.54 8.54 8.46 8.39 9.80 8.12 8.68 8.60 8.46

Brooks, Devon (USA) (1998) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis) *Henson (2021) - Athlete First: 2021 year end hurdle report*
 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

Muratake, Rashiddo (JPN) (2002) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN) *Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season*
 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

Manago, Ryona (JPN) (2003) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2022 Japanese U20 National Championships (Osaka, JPN) (99cm) *Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season*
 date 12-Jun-22 time 2.58 3.67 4.70 5.73 6.76 7.80 8.88 9.94 11.02 12.08 13.55 5 / 2
 reaction time 0.151 interval 7 steps 1.09 1.03 1.03 1.03 1.04 1.08 1.06 1.08 1.06 1.47 3.15 3.15 3.20
 wind 1.1 m/s velocity 5.32 8.39 8.87 8.87 8.87 8.79 8.46 8.62 8.46 8.62 9.54 8.12 8.70 8.70 8.57

Joseph, Jason (SUI) (1998) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis) *Henson (2022) - Athlete First: 2022 year end hurdle report*
 date 16-Jun-22 time 2.56 3.62 4.64 5.68 6.68 7.72 8.76 9.84 10.92 12.02 13.55 7 / 5
 reaction time 0.159 interval 7 steps 1.06 1.02 1.04 1.00 1.04 1.04 1.08 1.08 1.10 1.53 3.12 3.08 3.26
 wind -1.2 m/s velocity 5.36 8.62 8.96 8.79 9.14 8.79 8.79 8.46 8.46 8.31 9.16 8.12 8.79 8.90 8.41

Brockman, Joshua (USA) (2001) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Semi-Final 2 - 2022 USATF National Championships (Eugene, OR) *USATF (2022) - Results powered by Karmarush.com*
 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 PB 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

Manga, Aurel (FRA) (1992) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 2 - 2023 Meeting de Paris (Paris, FRA) *Omega Timing (2023) - diamond league race analysis*
 date 09-Jun-23 time 2.41 3.48 4.52 5.55 6.58 7.61 8.67 9.76 10.84 11.92 13.55 1 / 7
 reaction time 0.163 interval 7 steps 1.07 1.04 1.03 1.03 1.03 1.06 1.09 1.08 1.08 1.63 3.14 3.12 3.25
 wind -0.6 m/s velocity 5.69 8.54 8.79 8.87 8.87 8.87 8.62 8.39 8.46 8.60 8.12 8.73 8.79 8.44

Pohland, Holger (GDR) (1963) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 1986 East German National Championships (Jena, GDR) *Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes*
 date 27-Jun-86 time 2.61 3.66 4.68 5.71 6.76 7.81 8.88 9.94 11.03 12.12 13.56 / 1
 reaction time interval 1.05 1.02 1.03 1.05 1.05 1.07 1.06 1.09 1.09 1.44 3.10 3.17 3.24
 wind 1.7 m/s velocity 5.26 8.70 8.96 8.87 8.70 8.70 8.54 8.62 8.39 8.39 9.74 8.11 8.85 8.65 8.46

Jarrett, Tony (GBR) (1968) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR) *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*
 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

Oliver, David (USA) (1982) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 4 - 2007 USATF National Championships (Indianapolis, IN) *USATF Men's Hurdle Development (2007)*
 date 23-Jun-07 time 2.64 3.69 4.77 5.81 6.84 7.91 8.96 10.01 11.08 12.15 13.56 7 / 1
 reaction time interval 1.05 1.08 1.04 1.03 1.07 1.05 1.05 1.07 1.07 1.41 3.17 3.15 3.19
 wind -2.8 m/s velocity 5.20 8.70 8.46 8.79 8.87 8.54 8.70 8.70 8.54 8.54 9.94 8.11 8.65 8.70 8.60

Merritt, Aries (USA) (1985) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER) *Graubner (2009) - http://www.fgs.uni-halle.de*
 date 14-Sep-08 time 2.66 3.72 4.77 5.80 6.83 7.87 8.91 9.96 11.02 12.10 13.56 4 / 4
 reaction time 0.156 interval 1.06 1.05 1.03 1.03 1.04 1.04 1.05 1.06 1.08 1.46 3.14 3.11 3.19
 wind -1.3 m/s velocity 5.16 8.62 8.70 8.87 8.87 8.79 8.79 8.70 8.62 8.46 9.60 8.11 8.73 8.82 8.60

Sands, Shamar (BAH) (1985) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2009 ISTAF (Berlin, GER) *Graubner (2009) - http://www.fgs.uni-halle.de*
 date 14-Jun-09 time 2.59 3.65 4.69 5.71 6.73 7.77 8.81 9.87 10.93 12.09 13.56 8 / 4
 reaction time 0.234 interval 1.06 1.04 1.02 1.02 1.04 1.04 1.06 1.06 1.16 1.47 3.12 3.10 3.28
 wind 0.7 m/s velocity 5.30 8.62 8.79 8.96 8.96 8.79 8.79 8.62 8.62 7.88 9.54 8.11 8.79 8.85 8.36

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

CAA Hurdle Development (2020)															
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)															
date	time	2.63	3.73	4.78	5.84	6.90	7.96	9.04	10.12	11.22	12.35		13.79	8 / 3	
reaction time	interval		1.10	1.05	1.06	1.06	1.06	1.08	1.08	1.10	1.13	1.44		3.21 3.20 3.31	
wind	0.3 m/s	velocity	5.22	8.31	8.70	8.62	8.62	8.46	8.46	8.31	8.09	9.74	7.98	8.54 8.57 8.28	
Fuji, Ryota (JPN) (1996)															
FINAL - 2021 Fuse Sprint (Tottori, JPN)															
Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season															
date	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	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
Porter, Jeff (USA) (1985)															
Heat 1 - 2007 USATF National Championships (Indianapolis, IN)															
USATF Men's Hurdle Development (2007)															
date	time	2.62	3.67	4.77	5.84	6.91	7.95	9.04	10.11	11.21	12.27		13.80	5 / 7	
reaction time	interval		1.05	1.10	1.07	1.07	1.04	1.09	1.07	1.10	1.06	1.53		3.22 3.20 3.23	
wind	0.1 m/s	velocity	5.24	8.70	8.31	8.54	8.54	8.79	8.39	8.54	8.31	8.62	9.16	7.97	8.52 8.57 8.49
Aoki, Yuto (JPN) (1984)															
FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)															
Ryutaro (2010) - an attempt or a creation of a race pattern standard model for the 110m hurdles															
date	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
Baji, Balázs (HUN) (1989)															
FINAL - 2011 Folksam GP (Göteborg, SWE)															
Blomkvist (2011) - www.sub13.se															
date	time	2.53	3.64	4.72	5.78	6.84	7.88	8.96	10.04	11.12	12.20		13.80	1 / 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
Masuno, Genta (JPN) (1993)															
FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)															
Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions															
date	time	2.63	3.71	4.78	5.87	6.93	8.04	9.12	10.21	11.30	12.39		13.80	1 / 1	
reaction time	interval		1.08	1.07	1.09	1.06	1.11	1.08	1.09	1.09	1.09	1.41		3.24 3.25 3.27	
wind	-0.8 m/s	velocity	5.22	8.46	8.54	8.39	8.62	8.23	8.46	8.39	8.39	8.39	9.94	7.97	8.46 8.44 8.39
Nomoto, Syuusei (JPN) (1995)															
FINAL - 2017 Tokyo Six School Meeting (Tokyo, JPN)															
(2017) - tfdata-store.com/2017/04/10/post-342/															
date	time	2.60	3.70	4.76	5.86	6.94	8.02	9.10	10.18	11.28	12.39		13.80	4 / 3	
reaction time	interval	7 steps	1.10	1.06	1.10	1.08	1.08	1.08	1.08	1.10	1.11	1.41	PB	3.26 3.24 3.29	
wind	0.5 m/s	velocity	5.28	8.31	8.62	8.31	8.46	8.46	8.46	8.46	8.31	8.23	9.94	7.97	8.41 8.46 8.33
Kuriki, Anthony Tyrell (JPN) (1996)															
FINAL - 2017 Japanese National Championships (Osaka, JPN)															
(2017) - tfdata-store.com/2017/07/13/post-1040/															
date	time	2.67	3.74	4.81	5.86	6.93	8.00	9.07	10.16	11.25	12.36		13.80	2 / 6	
reaction time	interval	7 steps	1.07	1.07	1.05	1.07	1.07	1.07	1.09	1.09	1.11	1.44		3.19 3.21 3.29	
wind	-0.2 m/s	velocity	5.14	8.54	8.54	8.70	8.54	8.54	8.54	8.39	8.39	8.23	9.74	7.97	8.60 8.54 8.33
Ishikawa, Shuhei (JPN) (1995)															
FINAL - 2017 Japanese National Championships (Osaka, JPN)															
(2017) - tfdata-store.com/2017/07/13/post-1040/															
date	time	2.59	3.66	4.72	5.78	6.85	7.93	9.01	10.10	11.19	12.32		13.80	3 / 7	
reaction time	interval	7 steps	1.07	1.06	1.06	1.07	1.08	1.08	1.09	1.09	1.13	1.48		3.19 3.23 3.31	
wind	-0.2 m/s	velocity	5.30	8.54	8.62	8.62	8.54	8.46	8.46	8.39	8.39	8.09	9.47	7.97	8.60 8.49 8.28
Ogata, Akihiro (JPN) (1993)															
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)															
Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season															
date	time	2.62	3.69	4.75	5.78	6.86	7.85	9.03	10.11	11.20	12.32		13.80	9 / 5	
reaction time	interval	7 steps	1.07	1.06	1.03	1.08	0.99	1.18	1.08	1.09	1.12	1.48		3.16 3.25 3.29	
wind	0.7 m/s	velocity	5.24	8.54	8.62	8.87	8.46	9.23	7.75	8.46	8.39	8.16	9.47	7.97	8.68 8.44 8.33
Hiraga, Kentaro (JPN) (1999)															
Heat 3 - 2018 IAAF World Junior Championships (Tampere, FIN) (99cm)															
Koyama (2018) - research on athlete performance and technique- 2018 data book															
date	time	2.63	3.72	4.80	5.86	6.92	8.02	9.10	10.19	11.29	12.38		13.80	5 / 4	
reaction time	interval		1.09	1.08	1.06	1.06	1.10	1.08	1.09	1.10	1.09	1.42		3.23 3.24 3.28	
wind	0.7 m/s	velocity	5.22	8.39	8.46	8.62	8.62	8.31	8.46	8.39	8.31	8.39	9.87	7.97	8.49 8.46 8.36
Parakhonka, Vitali (BLR) (1993)															
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)															
Henson (2020) - Athlete First: 2019 year end hurdle report															
date	time	2.63	3.73	4.78	5.80	6.83	7.92	8.96	10.10	11.16	12.28		13.80	9 / 6	
reaction time	interval		1.10	1.05	1.02	1.03	1.09	1.04	1.14	1.06	1.12	1.52		3.17 3.16 3.32	
wind	0.1 m/s	velocity	5.22	8.31	8.70	8.96	8.87	8.39	8.79	8.02	8.62	8.16	9.22	7.97	8.65 8.68 8.26
Omuro, Hideki (JPN) (1990)															
FINAL - 2021 Fuse Sprint (Tottori, JPN)															
Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season															
date	time	2.60	3.68	4.74	5.81	6.87	7.95	9.02	10.10	11.19	12.30		13.80	2 / 7	

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

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.66	3.72	4.79	5.84	6.90	7.96	9.06	10.15	11.29	12.45		13.94	4 / 2				
reaction time	0.178	interval		1.06	1.07	1.05	1.06	1.06	1.10	1.09	1.14	1.16	1.49	PB		3.18	3.22	3.39	
wind	0.5 m/s	velocity	5.16	8.62	8.54	8.70	8.62	8.62	8.31	8.39	8.02	7.88	9.41	7.89		8.62	8.52	8.09	

Tahara, Ayuma (JPN) (2004)**FINAL - 2021 Japanese U18 National Championships (Matsuyama, JPN) (99cm)**

date	22-Oct-21	time	2.63	3.74	4.82	5.88	6.95	8.03	9.11	10.20	11.31	12.43		13.94	6 / 2				
reaction time	0.150	interval	7 steps	1.11	1.08	1.06	1.07	1.08	1.08	1.09	1.11	1.12	1.51			3.25	3.23	3.32	
wind	-0.6 m/s	velocity	5.22	8.23	8.46	8.62	8.54	8.46	8.46	8.39	8.23	8.16	9.28	7.89		8.44	8.49	8.26	

Ishikawa, Shuhei (JPN) (1995)**FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)**

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	

Fujii, Ryota (JPN) (1996)**FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)**

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	1.10	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	

Qi Zhen (CHN) (1976)**FINAL - 2001 Chinese National Grand Prix (Shanghai, CHN)**

date	06-May-01	time	2.66	3.77	4.86	5.90	6.93	8.00	9.07	10.13	11.29	12.45		13.95	1 / 5				
reaction time		interval		1.11	1.09	1.04	1.03	1.07	1.07	1.06	1.16	1.16	1.50			3.24	3.17	3.38	
wind	1.9 m/s	velocity	5.16	8.23	8.39	8.79	8.87	8.54	8.54	8.62	7.88	7.88	9.35	7.89		8.46	8.65	8.11	

Thomas, Chris (USA) (1981)**FINAL - 2007 Windsprint (Sundsvall, SWE)**

date	24-Jul-07	time		3.73			6.92		10.19					13.95	1 / 2				
reaction time		interval					3.19		3.27				3.76						
wind	1.3 m/s	velocity		6.13			8.60		8.39				8.59	7.89					

Lööv, Filip (SWE) (1992)**Junior Final - 2010 ExxonMobil Bislett Games (Oslo, NOR) (99cm)**

date	04-Jun-10	time	2.56	3.62	4.68	5.76	6.84	7.89	9.00	10.08	11.16	12.30		13.95	2 / 3				
reaction time	0.214	interval		1.06	1.06	1.08	1.08	1.05	1.11	1.08	1.08	1.14	1.65			3.20	3.24	3.30	
wind	0.3 m/s	velocity	5.36	8.62	8.62	8.46	8.46	8.70	8.23	8.46	8.46	8.02	8.50	7.89		8.57	8.46	8.31	

Mazac, Martin (CZE) (1990)**FINAL - 2010 European Team Championships, 1st League (Budapest, HUN)**

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	

Yazawa, Wataru (JPN) (1991)**Semi-Final 2 - 2011 Japanese National Championships (Kumagaya, JPN)**

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 / 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	

Wado, Tatsuya (JPN) (1990)**FINAL - 2011 Japanese National Championships (Kumagaya, JPN)**

date	11-Jun-11	time	2.59	3.68	4.77	5.85	6.91	7.99	9.09	10.19	11.29	12.44		13.95	1 / 4				
reaction time		interval		1.09	1.09	1.08	1.06	1.08	1.10	1.10	1.10	1.15	1.51			3.26	3.24	3.35	
wind	-0.1 m/s	velocity	5.30	8.39	8.39	8.46	8.62	8.46	8.31	8.31	8.31	7.95	9.28	7.89		8.41	8.46	8.19	

Fujii, Ryota (JPN) (1996)**FINAL - 2016 Six College Meeting (Sagamihara, JPN)**

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	PB		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	

Taue, Shun (JPN) (1997)**FINAL - 2016 Kanto Student Championships (Sagamihara, JPN)**

date	17-Sep-16	time	2.71	3.81	4.90	5.97	7.04	8.12	9.22	10.31	11.41	12.54		13.95	7 / 3				
reaction time		interval		1.10	1.09	1.07	1.07	1.08	1.10	1.09	1.10	1.13	1.41			3.26	3.25	3.32	
wind	3.2 m/s	velocity	5.06	8.31	8.39	8.54	8.54	8.46	8.31	8.39	8.31	8.09	9.94	7.89		8.41	8.44	8.26	

Fukamoto, Riku (JPN)**Semi-Final 2 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)**

date	21-Oct-16	time	2.64	3.73	4.83	5.90	6.98	8.06	9.15	10.26	11.38	12.51		13.95	3 / 1				
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Zhang Honglin (CHN) (1994)																
FINAL - 2018 National Grand Prix Final (Guiyang, CHN) (Altitude) Zhang (2019) - comparative analysis characteristics Chinese elite men's 110m hurdles in different age groups																
date 17-Jun-18 time 2.69 3.77 4.83 5.92 6.99 8.06 9.15 10.24 11.35 12.47 13.98 / 4																
reaction time 0.176 interval 1.08 1.06 1.09 1.07 1.07 1.09 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																
Zeng Jianhang (CHN) (1998)																
Heat 2 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN) CAA Hurdle Development (2019)																
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																
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 3.16 3.18 3.43																
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 8.68 8.62 7.99																
Zeng Jianhang (CHN) (1998)																
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN) 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																
Zhang Tao (CHN) (1997)																
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN) CAA Hurdle Development (2019)																
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																
Sun Zhenjiang (CHN) (1999)																
FINAL - 2021 National Grand Prix (Chengdu, CHN) CAA Hurdle Development (2021)																
date 02-Apr-21 time 2.62 3.72 4.78 5.82 6.88 7.93 9.01 10.10 11.24 12.36 13.98 5 / 2																
reaction time 0.168 interval 7 steps 1.10 1.06 1.04 1.06 1.05 1.08 1.09 1.14 1.12 1.62 3.20 3.19 3.35																
wind -0.1 m/s velocity 5.24 8.31 8.62 8.79 8.62 8.70 8.46 8.39 8.02 8.16 8.65 7.87 8.57 8.60 8.19																
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																
Andrews, Nicholas (AUS) (1997)																
B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN) 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																
Yokochi, Taiga (JPN) (2000)																
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN) Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season																
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 0.157 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																
Nomoto, Hideki (JPN) (1984)																
FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN) Ryutaro (2010) - an attempt or a creation of a race pattern standard model for the 110m hurdles																
date 29-Apr-09 time 2.66 3.74 4.82 5.88 6.93 8.00 9.08 10.16 11.27 12.40 13.99 / 8																
reaction time interval 1.08 1.08 1.06 1.05 1.07 1.08 1.08 1.11 1.13 1.59 3.22 3.20 3.32																
wind 1.9 m/s velocity 5.16 8.46 8.46 8.62 8.70 8.54 8.46 8.46 8.23 8.09 8.82 7.86 8.52 8.57 8.26																
Sato, Hiroyuki (JPN) (1990)																
FINAL - 2012 Japanese National Championships (Osaka, JPN) Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13																
date 10-Jun-12 time 2.62 3.74 4.84 5.92 6.99 8.07 9.18 10.28 11.39 12.53 13.99 4 / 6																
reaction time interval 1.12 1.10 1.08 1.07 1.08 1.11 1.10 1.11 1.14 1.46 3.30 3.26 3.35																
wind -0.6 m/s velocity 5.24 8.16 8.31 8.46 8.54 8.46 8.23 8.31 8.23 8.02 9.60 7.86 8.31 8.41 8.19																
Brorsson, Alexander (SWE) (1990)																
Heat 2 - 2012 Windsprint (Sundsvall, SWE) Blomkvist (2012) - www.sub13.se																
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																
Sato, Hiroyuki (JPN) (1990)																
FINAL - 2013 Mikio Oda Memorial (Hiroshima, JPN) Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13																
date 29-Apr-13 time 2.61 3.69 4.75 5.84 6.91 8.00 9.08 10.19 11.33 12.50 13.99 / 6																
reaction time interval 1.08 1.06 1.09 1.07 1.09 1.08 1.11 1.14 1.17 1.49 3.23 3.24 3.42																
wind 0.7 m/s velocity 5.26 8.46 8.62 8.39 8.54 8.39 8.46 8.23 8.02 7.81 9.41 7.86 8.49 8.46 8.02																
Fudaba, Hiroki (JPN) (1994)																

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Vukicevic, Vladimir (NOR) (1991)																		
FINAL - 2011 Windsprint (Sundsvall, SWE) <i>Blomkvist (2011) - www.sub13.se</i>																		
date	31-Jul-11	time	2.67	3.74	4.81	5.89	6.98	8.07	9.17	10.28	11.39	12.52		14.04	/ 2			
reaction time		interval		1.07	1.07	1.08	1.09	1.09	1.10	1.11	1.11	1.13	1.52		3.22	3.28	3.35	
wind	2.8 m/s	velocity	5.14	8.54	8.54	8.46	8.39	8.39	8.31	8.23	8.23	8.09	9.22	7.83	8.52	8.36	8.19	
Ogata, Akihiro (JPN) (1993)																		
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN) <i>(2017) - ifdata-store.com/2017/05/01/458/</i>																		
date	29-Apr-17	time	2.64	3.74	4.83	5.90	6.98	8.07	9.16	10.25	11.39	12.52		14.04	8 / 1			
reaction time		interval		7 steps	1.10	1.09	1.07	1.08	1.09	1.09	1.09	1.14	1.13	1.52		3.26	3.26	3.36
wind	-1.5 m/s	velocity	5.20	8.31	8.39	8.54	8.46	8.39	8.39	8.39	8.02	8.09	9.22	7.83	8.41	8.41	8.16	
Zhao Pengchuan (CHN) (1993)																		
FINAL - 2019 Chinese National Championships (Shenyang, CHN) <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	
Muratake, Rashiddo (JPN) (2002)																		
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (99cm) <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	PB	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	
Wang Luoxi (CHN) (2001)																		
U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm) <i>CAA Hurdle Development (2019)</i>																		
date	14-Aug-19	time	2.57	3.67	4.74	5.80	6.87	7.96	9.04	10.14	11.24	12.39		14.04	3 / 4			
reaction time	0.178	interval		1.10	1.07	1.06	1.07	1.09	1.08	1.10	1.10	1.15	1.65		3.23	3.24	3.35	
wind	0.5 m/s	velocity	5.34	8.31	8.54	8.62	8.54	8.39	8.46	8.31	8.31	7.95	8.50	7.83	8.49	8.46	8.19	
Fung Kin Hei (HKG) (2000)																		
U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm) <i>CAA Hurdle Development (2019)</i>																		
date	14-Aug-19	time	2.65	3.72	4.81	5.91	6.97	8.07	9.18	10.28	11.39	12.53		14.04	7 / 3			
reaction time	0.160	interval		1.07	1.09	1.10	1.06	1.10	1.11	1.10	1.11	1.14	1.51		3.26	3.27	3.35	
wind	-0.3 m/s	velocity	5.18	8.54	8.39	8.31	8.62	8.31	8.23	8.31	8.23	8.02	9.28	7.83	8.41	8.39	8.19	
Yu Haonan (CHN) (2000)																		
U20 Heat 3 - 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	
Wu Zhenhua (CHN) (1998)																		
FINAL - 2021 East China District Meeting (Zhaoqing, CHN) <i>CAA Hurdle Development (2021)</i>																		
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	
Omuro, Hideki (JPN) (1990)																		
B FINAL - 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	2.68	3.78	4.87	5.95	7.02	8.12	9.23	10.35	11.46	12.58		14.04	7 / 5			
reaction time	0.124	interval		1.10	1.09	1.08	1.07	1.10	1.11	1.12	1.11	1.12	1.46		3.27	3.28	3.35	
wind	-0.7 m/s	velocity	5.12	8.31	8.39	8.46	8.54	8.31	8.23	8.16	8.23	8.16	9.60	7.83	8.39	8.36	8.19	
Jackson, Colin (GBR) (1967)																		
Semi-Final 2 - 1985 European Junior Championships (Cottbus, GDR) (99cm) <i>Warburton (1985) - 1985 european junior championships - hurdles</i>																		
date	23-Aug-85	time	2.42	3.51	4.57	5.64	6.70	7.73	8.86	9.91	11.00	12.13		14.05	1 / 1			
reaction time		interval		1.09	1.06	1.07	1.06	1.03	1.13	1.05	1.09	1.13	1.92		3.22	3.22	3.27	
wind	-0.8 m/s	velocity	5.67	8.39	8.62	8.54	8.62	8.87	8.09	8.70	8.39	8.09	7.30	7.83	8.52	8.52	8.39	
McDowell, Jon (USA) (1984)																		
Heat 2 - 2007 USATF National Championships (Indianapolis, IN) <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	
Pulíček, Tomáš (CZE) (1997)																		
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm) <i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																		
date	28-Jun-14	time	2.74	3.82	4.93	6.00	7.05	8.10	9.17	10.24	11.33	12.44		14.05	3 / 1			
reaction time	0.247	interval		1.08	1.11	1.07	1.05	1.05	1.07	1.07	1.09	1.11	1.61		3.26	3.17	3.27	
wind	-0.3 m/s	velocity	5.01	8.46	8.23	8.54	8.70	8.70	8.54	8.54	8.39	8.23	8.71	7.83	8.41	8.65	8.39	
Furuya, Takumu (JPN) (1997)																		

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yazawa, Wataru (JPN) (1991)	FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)	<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>																
date	01-Jun-21	time	2.68	3.80	4.89	5.96	7.03	8.11	9.19	10.29	11.40	12.55		14.09	3 / 7			
reaction time	0.176	interval	7 steps	1.12	1.09	1.07	1.07	1.08	1.08	1.10	1.11	1.15	1.54			3.28	3.23	3.36
wind	0.3 m/s	velocity	5.12	8.16	8.39	8.54	8.54	8.46	8.46	8.31	8.23	7.95	9.10	7.81		8.36	8.49	8.16
Zhang Jinzhao (CHN) (1999)	Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)	<i>CAA Hurdle Development (2021)</i>																
date	25-Jun-21	time	2.55	3.64	4.72	5.79	6.87	7.96	9.04	10.20	11.34	12.50		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
Li Huaihai (CHN) (1999)	Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)	<i>CAA Hurdle Development (2021)</i>																
date	12-Jun-21	time	2.55	3.64	4.72	5.79	6.87	7.96	9.04	10.20	11.34	12.50		14.09	8 / 3			
reaction time	0.154	interval	7 steps	1.09	1.08	1.07	1.08	1.09	1.08	1.16	1.14	1.16	1.59			3.24	3.25	3.46
wind	-0.4 m/s	velocity	5.38	8.39	8.46	8.54	8.46	8.39	8.46	7.88	8.02	7.88	8.82	7.81		8.46	8.44	7.92
Ewen, Tim (AUS) (1977)	FINAL - 2002 IAAF World Cup (Madrid, ESP)	<i>Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas</i>																
date	21-Sep-02	time	2.69	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
Jiles-Tindall, Julius (USA) (1986)	Heat 4 - 2007 USATF National Championships (Indianapolis, IN)	<i>USATF Men's Hurdle Development (2007)</i>																
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
Taue, Shun (JPN) (1997)	FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (99cm)	<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015</i>																
date	02-Aug-15	time	2.72	3.83	4.94	6.01	7.11	8.21	9.30	10.40	11.52	12.65		14.10	6 / 2			
reaction time		interval	1.11	1.11	1.07	1.10	1.10	1.09	1.10	1.12	1.13	1.45	=PB			3.29	3.29	3.35
wind	1.4 m/s	velocity	5.04	8.23	8.23	8.54	8.31	8.31	8.39	8.31	8.16	8.09	9.67	7.80		8.33	8.33	8.19
Okazaki, Masaki (JPN) (1994)	Semi-Final 2 - 2016 Japanese University Championships (Kumagaya, JPN)	<i>(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
date	04-Sep-16	time	2.65	3.77	4.85	5.94	7.05	8.14	9.23	10.35	11.49	12.63		14.10	2 / 5			
reaction time	1.530	interval	1.12	1.08	1.09	1.11	1.09	1.09	1.12	1.14	1.14	1.47				3.29	3.29	3.40
wind	0.7 m/s	velocity	5.18	8.16	8.46	8.39	8.23	8.39	8.39	8.16	8.02	8.02	9.54	7.80		8.33	8.33	8.06
Ma Lei (CHN) (1989)	Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)	<i>Henson (2018) - coaching observations</i>																
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	5 / 2			
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
Lu Yang (CHN) (1996)	Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)	<i>CAA Hurdle Development (2019)</i>																
date	08-Jul-19	time	2.70	3.79	4.89	5.94	7.01	8.07	9.15	10.26	11.34	12.55		14.10	3 / 4			
reaction time	0.170	interval	1.09	1.10	1.05	1.07	1.06	1.08	1.11	1.08	1.21	1.55				3.24	3.21	3.40
wind	-0.5 m/s	velocity	5.08	8.39	8.31	8.70	8.54	8.62	8.46	8.23	8.46	7.55	9.05	7.80		8.46	8.54	8.06
Fung Kin Hei (HKG) (2000)	U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)	<i>CAA Hurdle Development (2019)</i>																
date	14-Aug-19	time	2.68	3.78	4.90	5.99	7.07	8.17	9.24	10.37	11.48	12.61		14.10	3 / 7			
reaction time	0.155	interval	1.10	1.12	1.09	1.08	1.10	1.07	1.13	1.11	1.13	1.49				3.31	3.25	3.37
wind	-0.3 m/s	velocity	5.12	8.31	8.16	8.39	8.46	8.31	8.54	8.09	8.23	8.09	9.41	7.80		8.28	8.44	8.14
McLeod, Omar (JAM) (1994)	FINAL - 2019 IAAF World Championships (Doha, QAT)	<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
Zhang Jinzhao (CHN) (1999)	Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)	<i>CAA Hurdle Development (2021)</i>																
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
Pan Zijie (CHN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	

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

FINAL - 2021 Chinese National Championships (Chongqing, CHN)																	CAA Hurdle Development (2021)		
date	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
25-Jun-21	2.64	3.75	4.81	5.88	6.95	8.02	9.16	10.29	11.43	12.55		14.10	9 / 8						
reaction time	0.185	interval	1.11	1.06	1.07	1.07	1.07	1.14	1.13	1.14	1.12	1.55			3.24	3.28	3.39		
wind	1.6 m/s	velocity	5.20	8.23	8.62	8.54	8.54	8.02	8.09	8.02	8.16	9.05	7.80		8.46	8.36	8.09		
Quiñónez, Jackson (ESP) (1989)																	Padulles (2010) - valoracio fucional / analisi tecnica biomecanica den dayron robes		
Time Trial - 2009 University of Barcelona Hurdle Analysis (Barcelona, ESP)	date	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
	Jun-09	2.37	3.48	4.56	5.61	6.70	7.79	8.91	10.01	11.15	12.32		14.11	5 /					
reaction time	0.148	interval	1.11	1.08	1.05	1.09	1.09	1.12	1.10	1.14	1.17	1.79			3.24	3.30	3.41		
wind	-0.4 m/s	velocity	5.79	8.23	8.46	8.70	8.39	8.39	8.16	8.31	8.02	7.81	7.83	7.80	8.46	8.31	8.04		
Nakamura, Akihiko (JPN) (1990)																	Takeo (2014) - decathletes sprint ability & relationship of individual event performance		
Decathlon - Heat 1 - 2012 Japanese Multi-Event National Championships (Nagano, JPN)	date	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
	03-Jun-12	2.67	3.76	4.84	5.94	7.03	8.12	9.21	10.34	11.47	12.63		14.11	5 / 2					
reaction time		interval	1.09	1.08	1.10	1.09	1.09	1.09	1.13	1.13	1.16	1.48			3.27	3.27	3.42		
wind	1.7 m/s	velocity	5.14	8.39	8.46	8.31	8.39	8.39	8.09	8.09	7.88	9.47	7.80		8.39	8.39	8.02		
Kuriki, Anthony Tyrell (JPN) (1996)																	(2016.09.06) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en		
FINAL - 2016 Japanese University Championships (Kumagaya, JPN)	date	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
	04-Sep-16	2.69	3.80	4.89	5.98	7.08	8.17	9.27	10.39	11.52	12.68		14.11	4 / 3					
reaction time	0.142	interval	1.11	1.09	1.09	1.10	1.09	1.10	1.12	1.13	1.16	1.43			3.29	3.29	3.41		
wind	-1.9 m/s	velocity	5.10	8.23	8.39	8.39	8.31	8.39	8.31	8.16	8.09	7.88	9.80	7.80	8.33	8.33	8.04		
Yamamoto, Kenta (JPN) (1995)																	(2016.10.10) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en		
FINAL - 2016 Tokai Student Autumn Championships (Gifu, JPN)	date	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
	09-Oct-16	2.72	3.82	4.91	6.01	7.11	8.21	9.30	10.39	11.54	12.68		14.11	5 / 1					
reaction time		interval	1.10	1.09	1.10	1.10	1.10	1.09	1.09	1.15	1.14	1.43			3.29	3.29	3.38		
wind	1.3 m/s	velocity	5.04	8.31	8.39	8.31	8.31	8.31	8.39	8.39	7.95	8.02	9.80	7.80	8.33	8.33	8.11		
Kagimoto, Masahiro (JPN) (1995)																	(2017) - tfdata-store.com/2017/05/06/post-423/		
Heat 2 - 2017 Mito Invitational (Mito, JPN)	date	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
	05-May-17	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		
Furumoto, Tsubasa (JPN) (1995)																	(2017) - tfdata-store.com/2017/07/13/post-1040/		
Heat 3 - 2017 Japanese National Championships (Osaka, JPN)	date	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
	24-Jun-17	2.65	3.77	4.88	5.98	7.07	8.18	9.28	10.40	11.52	12.65		14.11	3 / 7					
reaction time	0.120	interval	1.12	1.11	1.10	1.09	1.11	1.10	1.12	1.12	1.13	1.46			3.33	3.30	3.37		
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		
Hatanaka, Yushi (JPN) (1994)																	Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season		
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)	date	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
	06-May-18	2.65	3.76	4.88	5.98	7.07	8.16	9.28	10.40	11.53	12.65		14.11	3 / 6					
reaction time		interval	1.11	1.12	1.10	1.09	1.09	1.12	1.12	1.13	1.12	1.46			3.33	3.30	3.37		
wind	1.6 m/s	velocity	5.18	8.23	8.16	8.31	8.39	8.39	8.16	8.16	8.09	8.16	9.60	7.80	8.23	8.31	8.14		
Maeda, Koki (JPN)																	Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season		
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)	date	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
	06-May-18	2.65	3.75	4.82	5.91	6.99	8.09	9.18	10.31	11.45	12.59		14.11	9 / 7					
reaction time		interval	1.10	1.07	1.09	1.08	1.10	1.09	1.13	1.14	1.14	1.52			3.26	3.27	3.41		
wind	1.6 m/s	velocity	5.18	8.31	8.54	8.39	8.46	8.31	8.39	8.09	8.02	8.02	9.22	7.80	8.41	8.39	8.04		
Pan Zijie (CHN) (1995)																	Henson (2018) - coaching observations		
Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)	date	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
	15-Sep-18	2.70	3.80	4.87	5.98	7.07	8.15	9.26	10.38	11.48	12.64		14.11	7 / 3					
reaction time		interval	1.10	1.07	1.11	1.09	1.08	1.11	1.12	1.10	1.16	1.47			3.28	3.28	3.38		
wind	0.7 m/s	velocity	5.08	8.31	8.54	8.23	8.39	8.46	8.23	8.16	8.31	7.88	9.54	7.80	8.36	8.36	8.11		
Lu Yang (CHN) (1996)																	CAA Hurdle Development (2019)		
Heat 5 - 2019 Chinese National Grand Prix 1 (Zhaohqing, CHN)	date	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
	08-Apr-19	2.74	3.84	4.92	5.98	7.06	8.15	9.24	10.31	11.44	12.58		14.11	2 / 1					
reaction time	0.201	interval	1.10	1.08	1.06	1.08	1.09	1.09	1.07	1.13	1.14	1.53			3.24	3.26	3.34		
wind	0.6 m/s	velocity	5.01	8.31	8.46	8.62	8.46	8.39	8.39	8.54	8.09	8.02	9.16	7.80	8.46	8.41	8.21		
Mui Ching Yeung (HKG) (1993)																	CAA Hurdle Development (2019)		
FINAL - 2019 Chinese National Grand Prix 1 (Zhaohqing, CHN)	date	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
	09-Apr-19	2.68	3.79	4.88	6.00	7.10	8.20	9.27	10.41	11.52	12.66		14.11	1 / --					
reaction time	0.184	interval	1.11	1.09	1.12	1.10	1.10	1.07	1.14	1.11	1.14	1.45			3.32	3.27	3.39		
wind	0.2 m/s	velocity	5.12	8.23	8.39	8.16	8.31	8.31	8.54	8.02	8.23	8.02	9.67	7.80	8.26	8.39	8.09		
Zhang Tao (CHN) (1997)																	CAA Hurdle Development (2019)		
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)	date	time	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
	13-Apr-19	2.76	3.86	4.96	6.06	7.14	8.23	9.32	10.42	11.52	12.66		14.11	9 / 4					

													3.30	3.26	3.34			
													8.31	8.41	8.21			
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
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						
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				
Zeng Jianhang (CHN) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)													<i>CAA Hurdle Development (2019)</i>					
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	
Manninen, Ilari (FIN) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	11-Aug-20	time	2.60	3.70	4.80	5.90	7.00	8.08	9.21	10.31	11.44	12.58	14.11	1 / 7				
reaction time	0.201	interval	7 steps	1.10	1.10	1.10	1.10	1.08	1.13	1.10	1.13	1.14	1.53		3.30	3.31	3.37	
wind	1.1 m/s	velocity	5.28	8.31	8.31	8.31	8.31	8.46	8.09	8.31	8.09	8.02	9.16	7.80	8.31	8.28	8.14	
Kitz, Silvio (GDR) (1966)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1986 East German National Championships (Jena, GDR)													<i>Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes</i>					
date	27-Jun-86	time	2.62	3.74	4.84	5.95	7.06	8.17	9.29	10.40	11.51	12.66	14.12	/ 3				
reaction time		interval	1.12	1.10	1.11	1.11	1.11	1.12	1.11	1.11	1.11	1.15	1.46		3.33	3.34	3.37	
wind	1.7 m/s	velocity	5.24	8.16	8.31	8.23	8.23	8.16	8.23	8.23	7.95	9.60	7.79		8.23	8.21	8.14	
López, Francisco (ESP) (1973)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)													<i>Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas</i>					
date	02-Aug-98	time	2.64	3.72	4.82	5.94	6.98	8.05	9.12	10.25	11.37	12.52	14.12	5 / 1				
reaction time		interval	1.08	1.10	1.12	1.04	1.07	1.07	1.13	1.12	1.15	1.60			3.30	3.18	3.40	
wind	0.1 m/s	velocity	5.20	8.46	8.31	8.16	8.79	8.54	8.54	8.09	8.16	7.95	8.76	7.79	8.31	8.62	8.06	
Taylor, Logan (USA) (1986)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 3 - 2007 USATF National Championships (Indianapolis, IN)													<i>USATF Men's Hurdle Development (2007)</i>					
date	23-Jun-07	time	2.64	3.75	4.84	5.94	7.06	8.12	9.22	10.36	11.46	12.63	14.12	7 / 6				
reaction time		interval	1.11	1.09	1.10	1.12	1.06	1.10	1.14	1.10	1.17	1.49			3.30	3.28	3.41	
wind	-3.2 m/s	velocity	5.20	8.23	8.39	8.31	8.16	8.62	8.31	8.02	8.31	7.81	9.41	7.79	8.31	8.36	8.04	
Smit, Louw (RSA) (1988)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2010 Folksam GP (Sollentuna, SWE)													<i>Blomkvist (2010) - www.sub13.se</i>					
date	01-Jul-10	time	2.53	3.65	4.73								14.12	8 / 6				
reaction time		interval	1.12	1.08														
wind	0.4 m/s	velocity	5.42	8.16	8.46								7.79					
Chen Mingjie (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 - 2018 Chinese National U20 Championships (Nanchang, CHN) (99.1cm)													<i>Zhang (2019) - comparative analysis characteristics Chinese elite 110m hurdles in different age</i>					
date	13-May-18	time	2.24	3.41	4.52	5.61	6.69	7.77	8.86	9.94	11.06	12.22	14.12	/ 5		3.37	3.25	3.36
reaction time		interval	1.17	1.11	1.09	1.08	1.08	1.09	1.08	1.12	1.16	1.90			8.14	8.44	8.16	
wind	1.0 m/s	velocity	6.13	7.81	8.23	8.39	8.46	8.46	8.39	8.46	8.16	7.88	7.38	7.79				
Li Jiming (CHN) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2018 National Grand Prix Final (Guiyang, CHN) (Altitude)													<i>Zhang (2019) - comparative analysis characteristics Chinese elite men's 110m hurdles in different age groups</i>					
date	17-Jun-18	time	2.70	3.81	4.89	5.97	7.03	8.10	9.18	10.28	11.40	12.58	14.12	/ 6		3.27	3.21	3.40
reaction time		interval	1.11	1.08	1.08	1.06	1.07	1.08	1.10	1.12	1.18	1.54			8.39	8.54	8.06	
wind	-0.3 m/s	velocity	5.08	8.23	8.46	8.46	8.62	8.54	8.46	8.31	8.16	7.75	9.10	7.79				
Iizuka, Kaisei (JPN) (2001)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99.6cm)													<i>(2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>					
date	06-Aug-18	time	2.71	3.82	4.94	6.03	7.13	8.21	9.31	10.42	11.52	12.62	14.12	5 / 2				
reaction time		interval	1.11	1.12	1.09	1.10	1.08	1.10	1.11	1.10	1.10	1.50	PB		3.32	3.28	3.31	
wind	1.6 m/s	velocity	5.06	8.23	8.16	8.39	8.31	8.46	8.31	8.23	8.31	8.31	9.35	7.79	8.26	8.36	8.28	
Kubota, Taichi (JPN) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99.6cm)													<i>(2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>					
date	06-Aug-18	time	2.70	3.80	4.90	6.00	7.10	8.21	9.29	10.41	11.52	12.64	14.12	3 / 3				
reaction time		interval	1.10	1.10	1.10	1.10	1.11	1.08	1.12	1.11	1.12	1.48	PB		3.30	3.29	3.35	
wind	1.6 m/s	velocity	5.08	8.31	8.31	8.31	8.31	8.23	8.46	8.16	8.23	8.16	9.47	7.79	8.31	8.33	8.19	
Pan Zijie (CHN) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2018 Chinese National Championships (Taiyuan, CHN)													<i>Henson (2018) - coaching observations</i>					
date	16-Sep-18	time	2.64	3.75	4.84	5.96	7.04	8.13	9.23	10.33	11.46	12.60	14.12	8 / 5				
reaction time		interval	1.11	1.09	1.12	1.08	1.09	1.10	1.10	1.13	1.14	1.52			3.32	3.27	3.37	
wind	-0.3 m/s	velocity	5.20	8.23	8.39	8.16	8.46	8.39	8.31	8.31	8.09	8.02	9.22	7.79	8.26	8.39	8.14	
Jiang Fan (CHN) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)													<i>CAA Hurdle Development (2019)</i>					
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	0.150	interval	1.11	1.07	1.08	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	

Zhang Jinzhao (CHN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL	- 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)														<i>CAA Hurdle Development (2021)</i>			
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	1.12	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
Uchida, Kaisei (JPN) (2004)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL	- 2021 Japanese U18 National Championships (Matsuyama, JPN) (99cm)														<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>			
date	22-Oct-21	time	2.64	3.76	4.86	5.96	7.07	8.16	9.27	10.39	11.53	12.65		14.12	8 / 4			
reaction time	0.139	interval		1.12	1.10	1.10	1.11	1.09	1.11	1.12	1.14	1.12	1.47			3.32	3.31	3.38
wind	-0.6 m/s	velocity	5.20	8.16	8.31	8.31	8.23	8.39	8.23	8.16	8.02	8.16	9.54	7.79		8.26	8.28	8.11
Krauchanka, Andrei (BLR) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 3	- 2009 IAAF World Championships (Berlin, GER)														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>			
date	20-Aug-09	time	2.77	3.89	4.99	6.07	7.17	8.25	9.35	10.45	11.56	12.67		14.13	4 / 1			
reaction time	0.175	interval		1.12	1.10	1.08	1.10	1.08	1.10	1.10	1.11	1.11	1.46			3.30	3.28	3.32
wind	-0.1 m/s	velocity	4.95	8.16	8.31	8.46	8.31	8.46	8.31	8.31	8.23	8.23	9.60	7.78		8.31	8.36	8.26
Tanaka, Shinya (JPN) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
B FINAL	- 2017 Mikio Oda Memorial (Hiroshima, JPN)														<i>(2017) - tldata-store.com/2017/05/01/458/</i>			
date	29-Apr-17	time	2.62	3.74	4.82	5.89	6.98	8.09	9.21	10.34	11.49	12.64		14.13	7 / 4			
reaction time		interval	7 steps	1.12	1.08	1.07	1.09	1.11	1.12	1.13	1.15	1.15	1.49			3.27	3.32	3.43
wind	-1.5 m/s	velocity	5.24	8.16	8.46	8.54	8.39	8.23	8.16	8.09	7.95	7.95	9.41	7.78		8.39	8.26	7.99
Yang Quanlei (CHN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL	- 2018 Chinese National U20 Championships (Nanchang, CHN) (99.1cm)														<i>Zhang (2019) - comparative analysis characteristics Chinese elite 110m hurdles in different age</i>			
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	1 / 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
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	
Heat 2	- 2018 Chinese National Championships (Taiyuan, CHN)														<i>Henson (2018) - coaching observations</i>			
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	2 / 4			
reaction time		interval		1.11	1.09	1.06	1.09	1.10	1.07	1.12	1.11	1.12	1.52	PB		3.26	3.26	3.35
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		8.41	8.41	8.19
Sun Haoru (CHN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL	- 2019 Chinese National Grand Prix 3 (Jinhau, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	23-May-19	time	2.70	3.82	4.92	6.00	7.08	8.20	9.28	10.38	11.50	12.60		14.13	9 / 7			
reaction time	0.231	interval		1.12	1.10	1.08	1.08	1.12	1.08	1.10	1.12	1.10	1.53			3.30	3.28	3.32
wind	2.5 m/s	velocity	5.08	8.16	8.31	8.46	8.46	8.16	8.46	8.31	8.16	8.31	9.16	7.78		8.31	8.36	8.26
Bautista, Clinton Kingsley (PHI) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL	- 2019 Asian Grand Prix 2 (Chongqing, CHN)														<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	PB		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
Jiang Fan (CHN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1	- 2019 Chinese World Championship Trials (Shenyang, CHN)														<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
Tanaka, Hideaki (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Race 2	- 2020 World Athletics Trials (Fuji, JPN)														<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>			
date	06-Sep-20	time	2.71	3.83	4.92	6.00	7.10	8.19	9.28	10.40	11.51	12.65		14.13	6 / 3			
reaction time		interval	7 steps	1.12	1.09	1.08	1.10	1.09	1.09	1.12	1.11	1.14	1.48			3.29	3.28	3.37
wind	1.3 m/s	velocity	5.06	8.16	8.39	8.46	8.31	8.39	8.39	8.16	8.23	8.02	9.47	7.78		8.33	8.36	8.14
Maruyama, Yuma (JPN) (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 2	- 2022 Michitaka Kinami Memorial (Osaka, JPN)														<i>Takefu (2023) - performance analysis of decathlon athletes in the 2022 season</i>			
date	01-May-22	time	2.69	3.82	4.91	5.99	7.07	8.14	9.23	10.36	11.49	12.61		14.13	6 / 1			
reaction time	0.146	interval		1.13	1.09	1.08	1.08	1.07	1.09	1.13	1.13	1.12	1.52			3.30	3.24	3.38
wind	1.2 m/s	velocity	5.10	8.09	8.39	8.46	8.46	8.54	8.39	8.09	8.09	8.16	9.22	7.78		8.31	8.46	8.11
Nosmy, Philip (SWE) (1982)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL	- 2010 Swedish National Championships (Falun, SWE)														<i>Blomkvist (2010) - www.sub13.se</i>			
date	22-Aug-10	time	2.70	3.79	4.85	5.92	6.98	8.06	9.15	10.29	11.42	12.55		14.14	1 / 1			
reaction time		interval		1.09	1.06	1.07	1.06	1.08	1.09	1.14	1.13	1.13	1.59			3.22	3.23	3.40
wind	-0.7 m/s	velocity	5.08	8.39	8.62	8.54	8.62	8.46	8.39	8.02	8.09	8.09	8.82	7.78		8.52	8.49	8.06
Dabó, Rasul (POR) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	

Race 1 - 2011 European Team Championships (Stockholm, SWE)																Blomkvist (2011) - www.sub13.se		
date	19-Jun-11	time	2.60	3.72	4.80	5.86	6.96	8.03	9.12	10.28	11.40	12.56		14.14	2 / 5			
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
Wado, Tatsuya (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2013 Mito Invitational Athletics Meeting (Mito, JPN)																<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>		
date	04-May-13	time	2.64	3.72	4.84	5.93	7.03	8.11	9.20	10.32	11.46	12.62		14.14	/ 2			
reaction time		interval		1.08	1.12	1.09	1.10	1.08	1.09	1.12	1.14	1.16	1.52			3.29	3.27	3.42
wind	0.8 m/s	velocity	5.20	8.46	8.16	8.39	8.31	8.46	8.39	8.16	8.02	7.88	9.22	7.78		8.33	8.39	8.02
Fudaba, Hiroki (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Michitaka Memorial (Osaka, JPN)																<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	1.13	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
Murakami, Masao (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2017 Japanese National Championships (Osaka, JPN)																<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>		
date	24-Jun-17	time	2.64	3.74	4.83	5.92	7.00	8.09	9.19	10.32	11.46	12.64		14.14	3 / 8			
reaction time	0.167	interval		1.10	1.09	1.09	1.08	1.09	1.10	1.13	1.14	1.18	1.50			3.28	3.27	3.45
wind	1.3 m/s	velocity	5.20	8.31	8.39	8.39	8.46	8.39	8.31	8.09	8.02	7.75	9.35	7.78		8.36	8.39	7.95
Iwafune, Yoichi (JPN) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2017 Japanese National Championships (Osaka, JPN)																<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>		
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
Kawamura, Naoya (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)																<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>		
date	06-May-18	time	2.73	3.84	4.94	6.05	7.13	8.23	9.32	10.43	11.53	12.67		14.14	2 / 8			
reaction time		interval		1.11	1.10	1.11	1.08	1.10	1.09	1.11	1.10	1.14	1.47			3.32	3.27	3.35
wind	1.6 m/s	velocity	5.03	8.23	8.31	8.23	8.46	8.31	8.39	8.23	8.31	8.02	9.54	7.78		8.26	8.39	8.19
Sun Haoru (CHN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)																<i>CAA Hurdle Development (2019)</i>		
date	08-Jul-19	time	2.65	3.77	4.87	5.98	7.06	8.14	9.25	10.36	11.48	12.63		14.14	6 / 4			
reaction time	0.174	interval		1.12	1.10	1.11	1.08	1.08	1.11	1.11	1.12	1.15	1.51	PB		3.33	3.27	3.38
wind	0.4 m/s	velocity	5.18	8.16	8.31	8.23	8.46	8.46	8.23	8.23	8.16	7.95	9.28	7.78		8.23	8.39	8.11
Li Jiming (CHN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)																<i>CAA Hurdle Development (2019)</i>		
date	02-Aug-19	time	2.64	3.73	4.80	5.91	7.00	8.09	9.18	10.29	11.40	12.58		14.14	1 / 6			
reaction time	0.176	interval		1.09	1.07	1.11	1.09	1.09	1.09	1.11	1.11	1.18	1.56			3.27	3.27	3.40
wind	0.0 m/s	velocity	5.20	8.39	8.54	8.23	8.39	8.39	8.39	8.23	8.23	7.75	8.99	7.78		8.39	8.39	8.06
Liu Bowen (CHN) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)																<i>CAA Hurdle Development (2021)</i>		
date	19-May-21	time	2.67	3.77	4.87	5.93	7.02	8.09	9.21	10.33	11.46	12.61		14.14	5 / 3			
reaction time	0.163	interval		1.10	1.10	1.06	1.09	1.07	1.12	1.12	1.13	1.15	1.53	PB		3.26	3.28	3.40
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
Nakamura, Akihiko (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat ?? - 2012 Tokyo Athletics Championships (Chofu, JPN)																<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>		
date	22-Apr-12	time	2.71	3.83	4.94	6.05	7.15	8.26	9.35	10.46	11.59	12.72		14.15	???			
reaction time		interval		1.12	1.11	1.11	1.10	1.11	1.09	1.11	1.13	1.13	1.43			3.34	3.30	3.37
wind	-0.1 m/s	velocity	5.06	8.16	8.23	8.23	8.31	8.23	8.39	8.23	8.09	8.09	9.80	7.77		8.21	8.31	8.14
Wado, Tatsuya (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2013 Japanese National Championships (Chofu, JPN)																<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>		
date	08-Jun-13	time	2.63	3.74	4.82	5.91	7.02	8.11	9.22	10.32	11.45	12.63		14.15	5 / 4			
reaction time		interval		1.11	1.08	1.09	1.11	1.09	1.11	1.10	1.13	1.18	1.52			3.28	3.31	3.41
wind	-0.4 m/s	velocity	5.22	8.23	8.46	8.39	8.23	8.39	8.23	8.31	8.09	7.75	9.22	7.77		8.36	8.28	8.04
Takeyoshi, Daiki (JPN) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2016 Japanese University Championships (Kumagaya, JPN)																<i>(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>		
date	04-Sep-16	time	2.66	3.74	4.82	5.90	7.00	8.09	9.22	10.35	11.49	12.65		14.15	6 / 2			
reaction time	0.134	interval		1.08	1.08	1.08	1.10	1.09	1.13	1.13	1.14	1.16	1.50			3.24	3.32	3.43
wind	-0.1 m/s	velocity	5.16	8.46	8.46	8.46	8.31	8.39	8.09	8.09	8.02	7.88	9.35	7.77		8.46	8.26	7.99
Kishi, Kazuki (JPN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)																<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>		
date	24-Jun-17	time	2.65	3.75	4.85	5.95	7.06	8.14	9.27	10.39	11.53	12.67		14.15	9 / 6			

reaction time	0.158	interval	1.10	1.10	1.10	1.11	1.08	1.13	1.12	1.14	1.14	1.48			3.30	3.32	3.40	
wind	0.0 m/s	velocity	5.18	8.31	8.31	8.31	8.23	8.46	8.09	8.16	8.02	8.02	9.47	7.77		8.31	8.26	8.06
Zhang Xiangyu (CHN) (1991)																		
FINAL - 2018 National Grand Prix Final (Guiyang, CHN) (Altitude)	<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		1 / 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
Ning Xiaohan (CHN) (2000)																		
Heat 3 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)	<i>CAA Hurdle Development (2019)</i>																	
date	13-Apr-19	time	2.68	3.78	4.86	5.94	7.02	8.10	9.22	10.32	11.45	12.60		14.15		5 / 2		
reaction time	0.145	interval	1.10	1.08	1.08	1.08	1.08	1.12	1.10	1.13	1.15	1.55				3.26	3.28	3.38
wind	0.0 m/s	velocity	5.12	8.31	8.46	8.46	8.46	8.46	8.16	8.31	8.09	7.95	9.05	7.77		8.41	8.36	8.11
Sun Zhenjiang (CHN) (1999)																		
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)	<i>CAA Hurdle Development (2019)</i>																	
date	30-May-19	time	2.62	3.70	4.74	5.80	6.86	7.93	9.02	10.11	11.22	12.38		14.15		3 / 6		
reaction time	0.173	interval	7 steps	1.08	1.04	1.06	1.06	1.07	1.09	1.09	1.11	1.16	1.77			3.18	3.22	3.36
wind	0.0 m/s	velocity	5.24	8.46	8.79	8.62	8.62	8.54	8.39	8.39	8.23	7.88	7.92	7.77		8.62	8.52	8.16
Wang Weihao (CHN) (2001)																		
U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)	<i>CAA Hurdle Development (2019)</i>																	
date	14-Aug-19	time	2.64	3.72	4.80	5.87	6.96	8.09	9.20	10.33	11.45	12.63		14.15		4 / 4		
reaction time	0.174	interval	1.08	1.08	1.07	1.09	1.13	1.11	1.13	1.12	1.18	1.52				3.23	3.33	3.43
wind	-0.3 m/s	velocity	5.20	8.46	8.46	8.54	8.39	8.09	8.23	8.09	8.16	7.75	9.22	7.77		8.49	8.23	7.99
Toyoda, Ken (JPN) (2002)																		
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)	<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>																	
date	23-Aug-20	time	2.60	3.68	4.76	5.85	6.98	8.08	9.19	10.33	11.48	12.62		14.15		1 / 7		
reaction time	0.136	interval	7 steps	1.08	1.08	1.09	1.13	1.10	1.11	1.14	1.15	1.14	1.53	PB		3.25	3.34	3.43
wind	-0.4 m/s	velocity	5.28	8.46	8.46	8.39	8.09	8.31	8.23	8.02	7.95	8.02	9.16	7.77		8.44	8.21	7.99
Taue, Shun (JPN) (1997)																		
Decathlon - Heat 3 - 2020 Japanese Multi-Event National Championships (Nagano, JPN)	<i>Matsubayashi (2020) - research athlete performance technique- 2020 databook</i>																	
date	27-Sep-20	time	2.77	3.88	4.97	6.06	7.16	8.24	9.34	10.44	11.56	12.68		14.15		7 / 1		
reaction time		interval	1.11	1.09	1.09	1.10	1.08	1.10	1.10	1.12	1.12	1.12	1.47			3.29	3.28	3.34
wind	0.7 m/s	velocity	4.95	8.23	8.39	8.39	8.31	8.46	8.31	8.31	8.16	8.16	9.54	7.77		8.33	8.36	8.21
Guo Zhongjie (CHN) (2001)																		
Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)	<i>CAA Hurdle Development (2021)</i>																	
date	12-Jun-21	time	2.61	3.70	4.77	5.85	6.93	8.02	9.14	10.26	11.36	12.54		14.15		6 / 3		
reaction time	0.177	interval	1.09	1.07	1.08	1.08	1.09	1.12	1.12	1.12	1.10	1.18	1.61			3.24	3.29	3.40
wind	-0.8 m/s	velocity	5.26	8.39	8.54	8.46	8.46	8.39	8.16	8.16	8.31	7.75	8.71	7.77		8.46	8.33	8.06
Takahashi, Ryo (JPN) (2005)																		
FINAL - 2021 Japanese U18 National Championships (Matsuyama, JPN) (99cm)	<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>																	
date	22-Oct-21	time	2.71	3.83	4.93	6.02	7.10	8.19	9.31	10.40	11.52	12.64		14.15		9 / 5		
reaction time	0.163	interval	1.12	1.10	1.09	1.08	1.09	1.12	1.09	1.12	1.12	1.12	1.51			3.31	3.29	3.33
wind	-0.6 m/s	velocity	5.06	8.16	8.31	8.39	8.46	8.39	8.16	8.39	8.16	8.16	9.28	7.77		8.28	8.33	8.23
de los Santos, Miguel (ESP) (1973)																		
FINAL - 1997 European Cup (Munich, GER)	<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
Aoki, Yuto (JPN) (1984)																		
FINAL - 2008 Seiko Super Grand Prix (Kawasaki, JPN)	<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>																	
date	23-Sep-08	time	2.59	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
Nakamura, Akihiko (JPN) (1990)																		
Decathlon - Heat 2 - 2013 Wakayama Athletics Meeting (Wakayama, JPN)	<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>																	
date	28-Apr-13	time	2.69	3.81	4.91	6.03	7.12	8.23	9.34	10.46	11.58	12.72		14.16		6 / 2		
reaction time		interval	1.12	1.10	1.12	1.09	1.11	1.11	1.12	1.12	1.14	1.44				3.34	3.31	3.38
wind	1.5 m/s	velocity	5.10	8.16	8.31	8.16	8.39	8.23	8.23	8.16	8.16	8.02	9.74	7.77		8.21	8.28	8.11
Kato, Takuma (JPN) (1998)																		
FINAL - 2016 Niigata Prefecture High School Meeting (Niigata, JPN)	<i>(2016.05.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																	
date	29-May-16	time	2.68	3.78	4.88	5.97	7.08	8.20	9.31	10.43	11.56	12.70		14.16		1 / 1		
reaction time		interval	1.10	1.10	1.09	1.11	1.12	1.11	1.12	1.13	1.14	1.46				3.29	3.34	3.39
wind	-0.6 m/s	velocity	5.12	8.31	8.31	8.39	8.23	8.16	8.23	8.16	8.09	8.02	9.60	7.77		8.33	8.21	8.09

Athlete (Nationality) (Year)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Taue, Shun (JPN) (1997)			<i>(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>															
Semi-Final 1 - 2016 Japanese University Championships (Kumagaya, JPN)																		
date	04-Sep-16	time	2.73	3.85	4.94	6.02	7.12	8.22	9.32	10.41	11.54	12.69		14.16	2 / 4			
reaction time	0.144	interval		1.12	1.09	1.08	1.10	1.10	1.10	1.09	1.13	1.15	1.47			3.29	3.30	3.37
wind	0.6 m/s	velocity	5.03	8.16	8.39	8.46	8.31	8.31	8.31	8.39	8.09	7.95	9.54	7.77		8.33	8.31	8.14
Zhang Tao (CHN) (1997)			CAA Hurdle Development (2019)															
Heat 3 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																		
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
Sato, Hiroyuki (JPN) (1990)			Yamanaka (2019) - research on athlete performance and technique- 2019 data book															
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)																		
date	30-Jun-19	time	2.58	3.68	4.75	5.84	6.92	8.00	9.10	10.21	11.44	12.63		14.16	5 / 8			
reaction time	0.157	interval		1.10	1.07	1.09	1.08	1.08	1.10	1.11	1.23	1.19	1.53			3.26	3.26	3.53
wind	-0.6 m/s	velocity	5.32	8.31	8.54	8.39	8.46	8.46	8.31	8.23	7.43	7.68	9.16	7.77		8.41	8.41	7.77
Jiang Jinlong (CHN) (2000)			CAA Hurdle Development (2019)															
U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)																		
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
Greff, Ronan (FRA) (1998)			Henson (2020) - Athlete First: 2020 year end hurdle report															
FINAL - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)																		
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
Furuya, Shinta (JPN) (2000)			Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season															
Race 2 - 2020 World Athletics Trials (Fuji, JPN)																		
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
Pan Zijie (CHN) (1995)			CAA Hurdle Development (2021)															
Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)																		
date	12-Jun-21	time	2.51	3.61	4.72	5.80	6.91	8.03	9.14	10.25	11.40	12.53		14.16	7 / 4			
reaction time	0.111	interval		1.10	1.11	1.08	1.11	1.12	1.11	1.11	1.15	1.13	1.63			3.29	3.34	3.39
wind	-0.4 m/s	velocity	5.47	8.31	8.23	8.46	8.23	8.16	8.23	8.23	7.95	8.09	8.60	7.77		8.33	8.21	8.09
Yang Quanlei (CHN) (1999)			CAA Hurdle Development (2021)															
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)																		
date	12-Jun-21	time	2.72	3.79	4.88	5.97	7.05	8.17	9.24	10.36	11.51	12.65		14.16	6 / 7			
reaction time	0.172	interval		1.07	1.09	1.09	1.08	1.12	1.07	1.12	1.15	1.14	1.51			3.25	3.27	3.41
wind	0.9 m/s	velocity	5.04	8.54	8.39	8.39	8.46	8.16	8.54	8.16	7.95	8.02	9.28	7.77		8.44	8.39	8.04
Yoshima, Kaito (JPN) (1998)			Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season															
B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)																		
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	7 steps	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
Santos, Miguel (ESP) (1973)			Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas															
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)																		
date	02-Aug-98	time	2.66	3.75	4.85	5.98	7.04	8.16	9.28	10.38	11.50	12.63		14.17	6 / 2			
reaction time		interval		1.09	1.10	1.13	1.06	1.12	1.12	1.10	1.12	1.13	1.54			3.32	3.30	3.35
wind	0.1 m/s	velocity	5.16	8.39	8.31	8.09	8.62	8.16	8.16	8.31	8.16	8.09	9.10	7.76		8.26	8.31	8.19
Sato, Hiroyuki (JPN) (1990)			Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro															
Semi-Final 1 - 2011 Japanese National Championships (Kumagaya, JPN)																		
date	11-Jun-11	time	2.65	3.75	4.84	5.94	7.03	8.12	9.23	10.35	11.49	12.65		14.17	1 / 7			
reaction time		interval		1.10	1.09	1.10	1.09	1.09	1.11	1.12	1.14	1.16	1.52			3.29	3.29	3.42
wind	-2.0 m/s	velocity	5.18	8.31	8.39	8.31	8.39	8.39	8.23	8.16	8.02	7.88	9.22	7.76		8.33	8.33	8.02
Furuta, Kazuaki (JPN) (1992)			(2017) - tfdata-store.com/2017/07/13/post-1040/															
Heat 4 - 2017 Japanese National Championships (Osaka, JPN)																		
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
Ning Xiaohan (CHN) (2000)																		

Heat 4 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	08-Apr-19	time	2.62	3.72	4.80	5.88	6.95	8.05	9.14	10.26	11.40	12.58		14.17	4 / 1			
reaction time	0.158	interval		1.10	1.08	1.08	1.07	1.10	1.09	1.12	1.14	1.18	1.59	PB		3.26	3.26	3.44
wind	-0.8 m/s	velocity	5.24	8.31	8.46	8.46	8.54	8.31	8.39	8.16	8.02	7.75	8.82	7.76		8.41	8.41	7.97
Kokubu, Toru (JPN) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)															<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>			
date	28-Apr-19	time	2.69	3.79	4.88	5.96	7.05	8.15	9.25	10.38	11.52	12.67		14.17	6 / 2			
reaction time		interval	7 steps	1.10	1.09	1.08	1.09	1.10	1.10	1.13	1.14	1.15	1.50			3.27	3.29	3.42
wind	1.4 m/s	velocity	5.10	8.31	8.39	8.46	8.39	8.31	8.31	8.09	8.02	7.95	9.35	7.76		8.39	8.33	8.02
Ning Xiaohan (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	08-Jul-19	time	2.68	3.77	4.85	5.94	7.02	8.12	9.22	10.34	11.46	12.60		14.17	4 / 3			
reaction time	0.163	interval		1.09	1.08	1.09	1.08	1.10	1.10	1.12	1.12	1.14	1.57			3.26	3.28	3.38
wind	0.1 m/s	velocity	5.12	8.39	8.46	8.39	8.46	8.31	8.31	8.16	8.16	8.02	8.93	7.76		8.41	8.36	8.11
Pan Zijie (CHN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	02-Aug-19	time	2.65	3.77	4.87	6.00	7.14	8.24	9.35	10.46	11.57	12.68		14.17	3 / 3			
reaction time	0.173	interval		1.12	1.10	1.13	1.14	1.10	1.11	1.11	1.11	1.11	1.49			3.35	3.35	3.33
wind	-0.3 m/s	velocity	5.18	8.16	8.31	8.09	8.02	8.31	8.23	8.23	8.23	8.23	9.41	7.76		8.19	8.19	8.23
Yang Quanlei (CHN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)															<i>CAA Hurdle Development (2020)</i>			
date	16-Sep-20	time	2.70	3.79	4.89	6.00	7.08	8.18	9.29	10.43	11.56	12.68		14.17	5 / 4			
reaction time	0.175	interval		1.09	1.10	1.11	1.08	1.10	1.11	1.14	1.13	1.12	1.49			3.30	3.29	3.39
wind	0.3 m/s	velocity	5.08	8.39	8.31	8.23	8.46	8.31	8.23	8.02	8.09	8.16	9.41	7.76		8.31	8.33	8.09
Lu Yang (CHN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)															<i>CAA Hurdle Development (2020)</i>			
date	16-Sep-20	time	2.72	3.84	4.95	6.02	7.11	8.19	9.27	10.38	11.50	12.68		14.17	8 / 4			
reaction time	0.145	interval		1.12	1.11	1.07	1.09	1.08	1.08	1.11	1.12	1.18	1.49			3.30	3.25	3.41
wind	-0.5 m/s	velocity	5.04	8.16	8.23	8.54	8.39	8.46	8.46	8.23	8.16	7.75	9.41	7.76		8.31	8.44	8.04
Qin Weibo (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)															<i>CAA Hurdle Development (2020)</i>			
date	16-Sep-20	time	2.69	3.80	4.89	5.96	7.02	8.14	9.25	10.38	11.52	12.68		14.17	8 / 7			
reaction time	0.169	interval		1.11	1.09	1.07	1.06	1.12	1.11	1.13	1.14	1.16	1.49			3.27	3.29	3.43
wind	0.4 m/s	velocity	5.10	8.23	8.39	8.54	8.62	8.16	8.23	8.09	8.02	7.88	9.41	7.76		8.39	8.33	7.99
Xu Zhuoyi (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)															<i>CAA Hurdle Development (2021)</i>			
date	08-Apr-21	time	2.72	3.84	4.96	6.04	7.12	8.24	9.32	10.44	11.56	12.68		14.17	5 / 4			
reaction time		interval	7 steps	1.12	1.12	1.08	1.08	1.12	1.08	1.12	1.12	1.12	1.49	PB		3.32	3.28	3.36
wind	-0.1 m/s	velocity	5.04	8.16	8.16	8.46	8.46	8.16	8.46	8.16	8.16	8.16	9.41	7.76		8.26	8.36	8.16
Long Wei (CHN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)															<i>CAA Hurdle Development (2021)</i>			
date	25-Jun-21	time	2.62	3.71	4.81	5.91	7.01	8.11	9.24	10.34	11.50	12.65		14.17	2 / 6			
reaction time	0.162	interval		1.09	1.10	1.10	1.10	1.10	1.13	1.10	1.16	1.15	1.52	PB		3.29	3.33	3.41
wind	0.5 m/s	velocity	5.24	8.39	8.31	8.31	8.31	8.31	8.09	8.31	7.88	7.95	9.22	7.76		8.33	8.23	8.04
Hirotomi, Ato (JPN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)															<i>Shibayama (2021) - national high school and U20 national championships</i>			
date	01-Aug-21	time	2.73	3.80	4.92	5.99	7.10	8.22	9.33	10.45	11.58	12.70		14.17	2 / 5			
reaction time	0.136	interval		1.07	1.12	1.07	1.11	1.12	1.11	1.12	1.13	1.12	1.47	PB		3.26	3.34	3.37
wind	1.4 m/s	velocity	5.03	8.54	8.16	8.54	8.23	8.16	8.23	8.16	8.09	8.16	9.54	7.76		8.41	8.21	8.14
Katsuta, Kizuku (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Japanese National High School Championships (Okayama, JPN) (99cm)															<i>Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics</i>			
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
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
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)															<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
Sasaki, Keito (JPN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Japanese U20 National Championships (Osaka, JPN) (99cm)															<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>			
date	12-Jun-22	time	2.75	3.86	4.96	6.05	7.13	8.20	9.30	10.39	11.51	12.64		14.18	3 / 8			

Pan Zijie (CHN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	24-Apr-21	time	2.68	3.79	4.91	5.99	7.08	8.19	9.28	10.39	11.54	12.68		14.19	2 / 5			
reaction time	0.186	interval		1.11	1.12	1.08	1.09	1.11	1.09	1.11	1.15	1.14	1.51		3.31	3.29	3.40	
wind	-0.3 m/s	velocity	5.12	8.23	8.16	8.46	8.39	8.23	8.39	8.23	7.95	8.02	9.28	7.75	8.28	8.33	8.06	
Liu Bowen (CHN) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	25-Jun-21	time	2.60	3.70	4.80	5.91	6.99	8.11	9.22	10.33	11.48	12.65		14.19	7 / 3			
reaction time	0.201	interval		1.10	1.10	1.11	1.08	1.12	1.11	1.11	1.15	1.17	1.54		3.31	3.31	3.43	
wind	-0.2 m/s	velocity	5.28	8.31	8.31	8.23	8.46	8.16	8.23	8.23	7.95	7.81	9.10	7.75	8.28	8.28	7.99	
Hashimoto, Yu (JPN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)														<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>				
date	24-Oct-21	time	2.67	3.77	4.88	6.00	7.12	8.23	9.36	10.47	11.55	12.68		14.19	/ 1			
reaction time		interval		1.10	1.11	1.12	1.12	1.11	1.13	1.11	1.08	1.13	1.51		3.33	3.36	3.32	
wind	1.0 m/s	velocity	5.14	8.31	8.23	8.16	8.16	8.23	8.09	8.23	8.46	8.09	9.28	7.75	8.23	8.16	8.26	
Al-Ameen, Alex (GBR) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2010 Windsprint (Sundsvall, SWE)														<i>Blomkvist (2010) - www.sub13.se</i>				
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	
Kichima, Kaito (JPN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Japanese National High School Championships (Okayama, JPN) (99cm)														<i>Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics</i>				
date	02-Aug-16	time	2.68	3.78	4.87	5.95	7.05	8.15	9.27	10.38	11.53	12.70		14.20	7 / 3			
reaction time	0.161	interval		1.10	1.09	1.08	1.10	1.10	1.12	1.11	1.15	1.17	1.50	PB	3.27	3.32	3.43	
wind	1.2 m/s	velocity	5.12	8.31	8.39	8.46	8.31	8.31	8.16	8.23	7.95	7.81	9.35	7.75	8.39	8.26	7.99	
Tomioka, Tatsuto (JPN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Japanese National High School Championships (Okayama, JPN) (99cm)														<i>Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics</i>				
date	02-Aug-16	time	2.71	3.82	4.94	6.02	7.12	8.21	9.30	10.41	11.54	12.67		14.20	5 / 4			
reaction time	0.138	interval		1.11	1.12	1.08	1.10	1.09	1.09	1.11	1.13	1.13	1.53	PB	3.31	3.28	3.37	
wind	1.2 m/s	velocity	5.06	8.23	8.16	8.46	8.31	8.39	8.39	8.23	8.09	8.09	9.16	7.75	8.28	8.36	8.14	
Fudaba, Hiroki (JPN) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)														<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	
Okazaki, Masaki (JPN) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 East Japan Business Athletics Championships (Yuma, JPN)														<i>(2017) - tfdata-store.com/2017/05/20/post-579/</i>				
date	20-May-17	time	2.64	3.74	4.83	5.94	7.02	8.16	9.28	10.40	11.55	12.70		14.20	8 / 7			
reaction time		interval		1.10	1.09	1.11	1.08	1.14	1.12	1.12	1.15	1.15	1.50		3.30	3.34	3.42	
wind	1.1 m/s	velocity	5.20	8.31	8.39	8.23	8.46	8.02	8.16	8.16	7.95	7.95	9.35	7.75	8.31	8.21	8.02	
Katsuta, Kizuku (JPN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Fuse Sprint (Tottori, JPN)														<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>				
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	
Kiryama, Norihiro (JPN) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>				
date	24-Jun-17	time	2.69	3.78	4.86	5.93	7.04	8.16	9.26	10.38	11.53	12.68		14.20	5 / 7			
reaction time	0.176	interval		1.09	1.08	1.07	1.11	1.12	1.10	1.12	1.15	1.15	1.52		3.24	3.33	3.42	
wind	0.0 m/s	velocity	5.10	8.39	8.46	8.54	8.23	8.16	8.31	8.16	7.95	7.95	9.22	7.75	8.46	8.23	8.02	
Kim Gyeong-Tae (KOR) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Korean National Championships (Kimchun, KOR)														<i>Hong (2018) - performance of men's 110m hurdles using rhythmic units</i>				
date	02-Jun-17	time	2.65	3.78	4.88	6.01	7.14	8.21	9.31	10.41	11.54	12.67		14.20	/ 3			
reaction time		interval		1.13	1.10	1.13	1.13	1.07	1.10	1.10	1.13	1.13	1.53		3.36	3.30	3.36	
wind	2.6 m/s	velocity	5.18	8.09	8.31	8.09	8.09	8.54	8.31	8.31	8.09	8.09	9.16	7.75	8.16	8.31	8.16	
Nakamura, Akihiko (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)														<i>Matsubayashi (2018) - research on athlete performance and technique</i>				
date	17-Jun-18	time	2.69	3.85	4.95	6.04	7.14	8.25	9.34	10.48	11.61	12.75		14.20	4 / 2			
reaction time		interval		1.16	1.10	1.09	1.10	1.11	1.09	1.14	1.13	1.14	1.45		3.35	3.30	3.41	
wind	0.2 m/s	velocity	5.10	7.88	8.31	8.39	8.31	8.23	8.39	8.02	8.09	8.02	9.67	7.75	8.19	8.31	8.04	
McCorry, Jacob (AUS) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	

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

Kawakami, Asuma (JPN) (1999) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm) (2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en
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

Hiramatsu, Papdemba (JPN) (1997) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2017 Mito Invitational (Mito, JPN) (2017) - tdata-store.com/2017/05/06/post-423/
date 05-May-17 time 2.63 3.76 4.87 5.96 7.07 8.19 9.30 10.41 11.55 12.69 14.21 9 / 5
reaction time interval 7 steps 1.13 1.11 1.09 1.11 1.12 1.11 1.11 1.14 1.14 1.52 3.33 3.34 3.39
wind -2.3 m/s velocity 5.22 8.09 8.23 8.39 8.23 8.16 8.23 8.23 8.02 8.02 9.22 7.74 8.23 8.21 8.09

Okazaki, Masaki (JPN) (1994) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 2 - 2017 Japanese National Championships (Osaka, JPN) (2017) - tdata-store.com/2017/07/13/post-1040/
date 24-Jun-17 time 2.65 3.79 4.90 6.00 7.11 8.23 9.35 10.48 11.62 12.76 14.21 7 / 8
reaction time interval 7 steps 1.14 1.11 1.10 1.11 1.12 1.12 1.13 1.14 1.14 1.45 3.35 3.35 3.41
wind 0.0 m/s velocity 5.18 8.02 8.23 8.31 8.23 8.16 8.16 8.09 8.02 8.02 9.67 7.74 8.19 8.19 8.04

Sato, Hiroyuki (JPN) (1990) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN) Kobayashi (2019) - [research on athlete performance and technique- 2019 data book](https://research.on-athlete.com)
date 28-Apr-19 time 2.59 3.69 4.76 5.84 6.93 8.03 9.13 10.28 11.47 12.65 14.21 2 / 4
reaction time interval 1.10 1.07 1.08 1.09 1.10 1.10 1.15 1.19 1.18 1.56 3.25 3.29 3.52
wind 1.4 m/s velocity 5.30 8.31 8.54 8.46 8.39 8.31 8.31 7.95 7.68 7.75 8.99 7.74 8.44 8.33 7.79

Ma Lei (CHN) (1989) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 1 - 2019 Chinese National Championships (Shenyang, CHN) CAA Hurdle Development (2019)
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 7 / 4
reaction time 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

Kondo, Mizuki (JPN) (2003) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (99cm) Kota (2019) - [72nd high school champs: JAF scientific committee - biomechanics data](https://72ndhighschoolchamps.jp/)
date 08-Aug-19 time 2.69 3.80 4.92 6.00 7.12 8.23 9.33 10.46 11.57 12.72 14.21 5 / 2
reaction time interval 1.11 1.12 1.08 1.12 1.11 1.10 1.13 1.11 1.15 1.49 PB 3.31 3.33 3.39
wind -3.0 m/s velocity 5.10 8.23 8.16 8.46 8.16 8.23 8.31 8.09 8.23 7.95 9.41 7.74 8.28 8.23 8.09

Gao Shunyang (CHN) (2001) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm) CAA Hurdle Development (2019)
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 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

Nakamura, Akihiko (JPN) (1990) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Decathlon - Heat 3 - 2020 Japanese Multi-Event National Championships (Nagano, JPN) Matsubayashi (2020) - [research athlete performance technique- 2020 databook](https://research.athlete-performance.com)
date 27-Sep-20 time 2.71 3.85 4.94 6.05 7.15 8.26 9.37 10.49 11.60 12.73 14.21 4 / 2
reaction time interval 1.14 1.09 1.11 1.10 1.11 1.11 1.12 1.11 1.13 1.48 3.34 3.32 3.36
wind 0.7 m/s velocity 5.06 8.02 8.39 8.23 8.31 8.23 8.23 8.16 8.23 8.09 9.47 7.74 8.21 8.26 8.16

Wu Zhenhua (CHN) (1998) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 1 - 2021 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 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

Raja, Andres (EST) (1982) 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 - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - [biomechanical analyses at the 12th IAAF world championships](https://biomechanicalanalyses.com)
date 20-Aug-09 time 2.67 3.79 4.91 6.00 7.10 8.19 9.29 10.43 11.55 12.71 14.22 7 / 3
reaction time interval 1.12 1.12 1.09 1.10 1.09 1.10 1.14 1.12 1.16 1.51 3.33 3.29 3.42
wind 0.3 m/s velocity 5.14 8.16 8.16 8.39 8.31 8.39 8.31 8.02 8.16 7.88 9.28 7.74 8.23 8.33 8.02

Carda, Jan (CZE) (1989) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2013 Czech Republic National Championships (Tábor, CZE) Feher (2013) - [Final report from the men's & women's Czech Republic national championships](https://finalreport.com)
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 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

Tanaka, Shinya (JPN) (1993) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Semi-Final 3 - 2016 Japanese University Championships (Kumagaya, JPN) (2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en
date 04-Sep-16 time 2.68 3.77 4.86 5.96 7.07 8.17 9.29 10.44 11.58 12.75 14.22 7 / 3
reaction time interval 7 steps 1.09 1.09 1.10 1.11 1.10 1.12 1.15 1.14 1.17 1.47 3.28 3.33 3.46
wind -0.1 m/s velocity 5.12 8.39 8.39 8.31 8.23 8.31 8.16 7.95 8.02 7.81 9.54 7.74 8.36 8.23 7.92

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tokuoka, Rika (JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 3	2016 Japanese National Youth Championships (Mizuho, JPN) (91cm) <i>(2016.11.11) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en</i>																	
date	21-Oct-16	time	2.64	3.76	4.85	5.93	7.01	8.11	9.22	10.35	11.51	12.67		14.22	8 / 3			
reaction time		interval		1.12	1.09	1.08	1.08	1.10	1.11	1.13	1.16	1.16	1.55			3.29	3.29	3.45
wind	-0.2 m/s	velocity	5.20	8.16	8.39	8.46	8.46	8.31	8.23	8.09	7.88	7.88	9.05	7.74		8.33	8.33	7.95
Kato, Yoshiniko (JPN) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 1	2017 Mito Invitational (Mito, JPN) <i>(2017) - fldata-store.com/2017/05/06/post-423/</i>																	
date	05-May-17	time	2.72	3.82	4.93	6.03	7.12	8.23	9.35	10.46	11.60	12.74		14.22	9 / 2			
reaction time		interval		1.10	1.11	1.10	1.09	1.11	1.12	1.11	1.14	1.14	1.48			3.31	3.32	3.39
wind	0.3 m/s	velocity	5.04	8.31	8.23	8.31	8.39	8.23	8.16	8.23	8.02	8.02	9.47	7.74		8.28	8.26	8.09
Jian Wei (CHN) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 2	2018 Chinese National Championships (Taiyuan, CHN) <i>Henson (2018) - coaching observations</i>																	
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
Nakamura, Akihiko (JPN) (1990)	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	2018 Tokyo Combined Event Meeting (Tokyo, JPN) <i>Matsubayashi (2018) - research on athlete performance and technique</i>																	
date	22-Apr-18	time	2.73	3.85	4.96	6.06	7.16	8.26	9.36	10.49	11.62	12.76		14.22	5 / 1			
reaction time		interval		1.12	1.11	1.10	1.10	1.10	1.10	1.13	1.13	1.14	1.46			3.33	3.30	3.40
wind	1.1 m/s	velocity	5.03	8.16	8.23	8.31	8.31	8.31	8.31	8.09	8.09	8.02	9.60	7.74		8.23	8.31	8.06
Guo Zhongjie (CHN) (2001)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL	2019 Chinese National Grand Prix 4 (Luoyang, CHN) <i>CAA Hurdle Development (2019)</i>																	
date	30-May-19	time	2.68	3.77	4.87	5.96	7.05	8.12	9.24	10.36	11.53	12.68		14.22	1 / 7			
reaction time	0.192	interval		1.09	1.10	1.09	1.09	1.07	1.12	1.12	1.17	1.15	1.54			3.28	3.28	3.44
wind	0.0 m/s	velocity	5.12	8.39	8.31	8.39	8.39	8.54	8.16	8.16	7.81	7.95	9.10	7.74		8.36	8.36	7.97
Bautista, Clinton Kingsley (PHI) (1993)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL	2019 Asian Grand Prix 1 (Chongqing, CHN) <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
Guo Zhongjie (CHN) (2001)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 1	2020 Chinese National Championships (Shaoxing, CHN) <i>CAA Hurdle Development (2020)</i>																	
date	16-Sep-20	time	2.71	3.79	4.87	5.95	7.05	8.16	9.26	10.37	11.52	12.68		14.22	7 / 5			
reaction time	0.179	interval		1.08	1.08	1.08	1.10	1.11	1.10	1.11	1.15	1.16	1.54			3.24	3.31	3.42
wind	0.3 m/s	velocity	5.06	8.46	8.46	8.46	8.31	8.23	8.31	8.23	7.95	7.88	9.10	7.74		8.46	8.28	8.02
Guo Zhongjie (CHN) (2001)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL	2020 Chinese National Championships (Shaoxing, CHN) <i>CAA Hurdle Development (2020)</i>																	
date	16-Sep-20	time	2.74	3.81	4.89	5.96	7.05	8.14	9.24	10.36	11.51	12.67		14.22	2 / 8			
reaction time	0.185	interval		1.07	1.08	1.07	1.09	1.09	1.10	1.12	1.15	1.16	1.55			3.22	3.28	3.43
wind	0.4 m/s	velocity	5.01	8.54	8.46	8.54	8.39	8.39	8.31	8.16	7.95	7.88	9.05	7.74		8.52	8.36	7.99
Chen Jie (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 East China District Meeting (Zhaqing, CHN) <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	PB		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
Imanishi, Ryota (JPN) (2004)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL	2021 Japanese High School National Championships (Fukui, JPN) <i>Shibayama (2021) - national high school and U20 national championships</i>																	
date	01-Aug-21	time	2.74	3.87	4.97	6.07	7.16	8.28	9.39	10.50	11.63	12.76		14.22	8 / 6			
reaction time	0.187	interval		1.13	1.10	1.10	1.09	1.12	1.11	1.11	1.13	1.13	1.46	PB		3.33	3.32	3.37
wind	1.4 m/s	velocity	5.01	8.09	8.31	8.31	8.39	8.16	8.23	8.23	8.09	8.09	9.60	7.74		8.23	8.26	8.14
Nakamura, Akihiko (JPN) (1990)	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	2014 Nittai University Distance Meeting (Wakayama, JPN) <i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>																	
date	27-Apr-14	time	2.71	3.84	4.97	6.09	7.21	8.32	9.43	10.54	11.67	12.80		14.23	4 / 1			
reaction time		interval		1.13	1.13	1.12	1.12	1.11	1.11	1.11	1.13	1.13	1.43			3.38	3.34	3.37
wind	1.0 m/s	velocity	5.06	8.09	8.09	8.16	8.16	8.23	8.23	8.23	8.09	8.09	9.80	7.73		8.11	8.21	8.14
Kawamura, Naoya (JPN) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 1	2016 Japanese University Championships (Kumagaya, JPN) <i>(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																	
date	04-Sep-16	time	2.78	3.89	4.98	6.07	7.17	8.28	9.38	10.50	11.62	12.77		14.23	3 / 6			
reaction time	0.160	interval		1.11	1.09	1.09	1.10	1.11	1.10	1.12	1.12	1.15	1.46			3.29	3.31	3.39
wind	0.6 m/s	velocity	4.94	8.23	8.39	8.39	8.31	8.23	8.31	8.16	8.16	7.95	9.60	7.73		8.33	8.28	8.09
Wu Zhenhua (CHN) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		

Heat 4 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																	<i>CAA Hurdle Development (2019)</i>		
date	13-Apr-19	time	2.70	3.80	4.90	5.99	7.11	8.22	9.36	10.46	11.60	12.72		14.23		6 / 1			
reaction time	0.174	interval		1.10	1.10	1.09	1.12	1.11	1.14	1.10	1.14	1.12	1.51	PB			3.29	3.37	3.36
wind	-0.8 m/s	velocity	5.08	8.31	8.31	8.39	8.16	8.23	8.02	8.31	8.02	8.16	9.28	7.73			8.33	8.14	8.16
Yang Yuxuan (CHN) (2002)																	<i>CAA Hurdle Development (2019)</i>		
Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)																	<i>CAA Hurdle Development (2019)</i>		
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
Li Jiming (CHN) (1996)																	<i>CAA Hurdle Development (2019)</i>		
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																	<i>CAA Hurdle Development (2019)</i>		
date	23-Aug-19	time	2.70	3.80	4.89	5.97	7.06	8.16	9.26	10.36	11.48	12.64		14.23		8 / 3			
reaction time	0.192	interval		1.10	1.09	1.08	1.09	1.10	1.10	1.10	1.12	1.16	1.59				3.27	3.29	3.38
wind	-0.2 m/s	velocity	5.08	8.31	8.39	8.46	8.39	8.31	8.31	8.31	8.16	7.88	8.82	7.73			8.39	8.33	8.11
Xu Zhuoyi (CHN) (2003)																	<i>CAA Hurdle Development (2021)</i>		
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																	<i>CAA Hurdle Development (2021)</i>		
date	25-Jun-21	time	2.68	3.80	4.89	5.97	7.06	8.15	9.26	10.38	11.54	12.71		14.23		6 / 3			
reaction time	0.156	interval	7 steps	1.12	1.09	1.08	1.09	1.09	1.11	1.12	1.16	1.17	1.52				3.29	3.29	3.45
wind	-1.0 m/s	velocity	5.12	8.16	8.39	8.46	8.39	8.39	8.23	8.16	7.88	7.81	9.22	7.73			8.33	8.33	7.95
Behrenbruch, Pascal (GER) (1985)																	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>		
Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)																	<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
Nakamura, Akihiko (JPN) (1990)																	<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>		
Decathlon - Heat 1 - 2013 Japanese Multi-Event National Championships (Nagano, JPN)																	<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>		
date	02-Jun-13	time	2.68	3.81	4.94	6.06	7.17	8.29	9.38	10.53	11.68	12.81		14.24		6 / 2			
reaction time		interval		1.13	1.13	1.12	1.11	1.12	1.09	1.15	1.15	1.13	1.43				3.38	3.32	3.43
wind	0.7 m/s	velocity	5.12	8.09	8.09	8.16	8.23	8.16	8.39	7.95	7.95	8.09	9.80	7.72			8.11	8.26	7.99
Morita, Shunichi (JPN) (1989)																	<i>tfdata-store.com/2017/06/04/post-848/</i>		
FINAL - 2017 FUSE Sprint (Tottori, JPN)																	<i>tfdata-store.com/2017/06/04/post-848/</i>		
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
Zhao Pengchuan (CHN) (1993)																	<i>CAA Hurdle Development (2019)</i>		
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																	<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
Miyazaki, Takumi (JPN) (2001)																	<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>		
B FINAL - 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	2.65	3.76	4.84	5.95	7.06	8.17	9.29	10.42	11.58	12.74		14.24		2 / 7			
reaction time	0.161	interval		1.11	1.08	1.11	1.11	1.11	1.12	1.13	1.16	1.16	1.50				3.30	3.34	3.45
wind	-0.7 m/s	velocity	5.18	8.23	8.46	8.23	8.23	8.23	8.16	8.09	7.88	7.88	9.35	7.72			8.31	8.21	7.95
Nakamura, Akihiko (JPN) (1990)																	<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>		
Decathlon - Heat ?? - 2011 Japanese Multi-Event National Championships (Kawasaki, JPN)																	<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>		
date	05-Jun-11	time	2.70	3.83	4.95	6.06	7.17	8.28	9.40	10.52	11.65	12.79		14.25		???			
reaction time		interval		1.13	1.12	1.11	1.11	1.11	1.12	1.12	1.13	1.14	1.46				3.36	3.34	3.39
wind	1.4 m/s	velocity	5.08	8.09	8.16	8.23	8.23	8.23	8.16	8.16	8.09	8.02	9.60	7.72			8.16	8.21	8.09
Sklenár, David (CZE) (1997)																	<i>Feyer (2014) - Final report from the U18 & U20 Czech Republic national championships</i>		
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)																	<i>Feyer (2014) - Final report from the U18 & U20 Czech Republic national championships</i>		
date	28-Jun-14	time	2.67	3.77	4.86	5.94	7.02	8.11	9.22	10.35	11.49	12.66		14.25		5 / 2			
reaction time	0.159	interval		1.10	1.09	1.08	1.08	1.09	1.11	1.13	1.14	1.17	1.59				3.27	3.28	3.44
wind	-3.7 m/s	velocity	5.14	8.31	8.39	8.46	8.46	8.39	8.23	8.09	8.02	7.81	8.82	7.72			8.39	8.36	7.97
Higuchi, Rikuto (JPN) (1999)																	<i>Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics</i>		
FINAL - 2016 Japanese National High School Championships (Okayama, JPN) (99cm)																	<i>Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics</i>		
date	02-Aug-16	time	2.68	3.78	4.86	5.96	7.07	8.21	9.35	10.47	11.60	12.77		14.25		2 / 5			
reaction time	0.168	interval		1.10	1.08	1.10	1.11	1.14	1.14	1.12	1.13	1.17	1.48	PB			3.28	3.39	3.42
wind	1.2 m/s	velocity	5.12	8.31	8.46	8.31	8.23	8.02	8.02	8.16	8.09	7.81	9.47	7.72			8.36	8.09	8.02
Kanai, Taio (JPN) (1995)																	<i>(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>		
FINAL - 2016 Japanese University Championships (Kumagaya, JPN)																	<i>(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>		
date	04-Sep-16	time	2.64	3.75	4.85	5.94	7.03	8.17	9.30	10.44	11.57	12.73		14.25		6 / 4			

reaction time	0.146	interval	7 steps	1.11	1.10	1.09	1.09	1.14	1.13	1.14	1.13	1.16	1.52				3.30	3.36	3.43
wind	-1.9 m/s	velocity		5.20	8.23	8.31	8.39	8.39	8.02	8.09	8.02	8.09	7.88	9.22	7.72		8.31	8.16	7.99
Furukawa, Yutaro (JPN) (1985)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2017 Mito Invitational (Mito, JPN)																			
<small>(2017) - tfd-data-store.com/2017/05/06/post-423/</small>																			
date	05-May-17	time		2.65	3.73	4.81	5.90	6.99	8.09	9.21	10.35	11.49	12.66		14.25	4 / 3			
reaction time		interval		1.08	1.08	1.09	1.09	1.10	1.12	1.14	1.14	1.17	1.59				3.25	3.31	3.45
wind	-2.5 m/s	velocity		5.18	8.46	8.46	8.39	8.39	8.31	8.16	8.02	8.02	7.81	8.82	7.72		8.44	8.28	7.95
Nishizawa, Masanori (JPN) (1987)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Nambu Memorial (Sapporo, JPN)																			
<small>(2017) - tfd-data-store.com/2017/07/12/post-1025/</small>																			
date	09-Jul-17	time		2.71	3.81	4.91	6.02	7.11	8.20	9.30	10.41	11.56	12.72		14.25	9 / 5			
reaction time		interval		1.10	1.10	1.11	1.09	1.09	1.10	1.11	1.15	1.16	1.53				3.31	3.28	3.42
wind	2.7 m/s	velocity		5.06	8.31	8.31	8.23	8.39	8.39	8.31	8.23	7.95	7.88	9.16	7.72		8.28	8.36	8.02
Tanaka, Shinya (JPN) (1993)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Fuse Sprint (Tottori, JPN)																			
<small>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</small>																			
date	03-Jun-18	time		2.65	3.75	4.83	5.92	7.00	8.11	9.25	10.38	11.53	12.70		14.25	1 / 7			
reaction time		interval		1.10	1.08	1.09	1.08	1.11	1.14	1.13	1.15	1.17	1.55				3.27	3.33	3.45
wind	0.5 m/s	velocity		5.18	8.31	8.46	8.39	8.46	8.23	8.02	8.09	7.95	7.81	9.05	7.72		8.39	8.23	7.95
Sun Haoru (CHN) (1998)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																			
<small>CAA Hurdle Development (2019)</small>																			
date	13-Apr-19	time		2.70	3.81	4.92	6.02	7.12	8.20	9.29	10.42	11.54	12.70		14.25	3 / 8			
reaction time	0.181	interval		1.11	1.11	1.10	1.10	1.08	1.09	1.13	1.12	1.16	1.55		PB		3.32	3.27	3.41
wind	-0.3 m/s	velocity		5.08	8.23	8.23	8.31	8.31	8.46	8.39	8.09	8.16	7.88	9.05	7.72		8.26	8.39	8.04
Guo Zhongjie (CHN) (2001)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)																			
<small>CAA Hurdle Development (2019)</small>																			
date	23-May-19	time		2.74	3.82	4.88	5.94	7.02	8.12	9.22	10.32	11.46	12.66		14.25	3 / 8			
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	8.62	8.46	8.31	8.31	8.31	8.02	7.62	8.82	7.72		8.57	8.36	7.97
Zhao Pengchuan (CHN) (1993)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)																			
<small>CAA Hurdle Development (2019)</small>																			
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
Wu Zhenhua (CHN) (1998)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)																			
<small>CAA Hurdle Development (2019)</small>																			
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
Li Huaihai (CHN) (1999)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)																			
<small>CAA Hurdle Development (2020)</small>																			
date	16-Sep-20	time		2.69	3.77	4.93	6.03	7.13	8.23	9.32	10.45	11.57	12.72		14.25	3 / 6			
reaction time	0.185	interval		1.08	1.16	1.10	1.10	1.10	1.09	1.13	1.12	1.15	1.53				3.34	3.29	3.40
wind	0.3 m/s	velocity		5.10	8.46	7.88	8.31	8.31	8.31	8.39	8.09	8.16	7.95	9.16	7.72		8.21	8.33	8.06
Xie Wenjun (CHN) (1990)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)																			
<small>CAA Hurdle Development (2021)</small>																			
date	12-Jun-21	time		2.59	3.69	4.76	5.83	6.90	8.01	9.13	10.28	11.42	12.59		14.25	8 / 4			
reaction time	0.162	interval		1.10	1.07	1.07	1.07	1.11	1.12	1.15	1.14	1.17	1.66				3.24	3.30	3.46
wind	-0.8 m/s	velocity		5.30	8.31	8.54	8.54	8.54	8.23	8.16	7.95	8.02	7.81	8.45	7.72		8.46	8.31	7.92
Coertzen, Willem (RSA) (1982)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)																			
<small>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</small>																			
date	20-Aug-09	time		2.75	3.86	4.97	6.08	7.17	8.27	9.39	10.49	11.63	12.79		14.26	6 / 2			
reaction time	0.152	interval		1.11	1.11	1.11	1.09	1.10	1.12	1.10	1.14	1.16	1.47		PB		3.33	3.31	3.40
wind	-0.1 m/s	velocity		4.99	8.23	8.23	8.23	8.39	8.31	8.16	8.31	8.02	7.88	9.54	7.71		8.23	8.28	8.06
Wado, Tatsuya (JPN) (1990)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2013 Mikio Oda Memorial (Hiroshima, JPN)																			
<small>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</small>																			
date	29-Apr-13	time		2.59	3.66	4.75	5.81	6.87	7.95	9.00	10.09	11.12	12.52		14.26	1 / 6			
reaction time		interval		1.07	1.09	1.06	1.06	1.08	1.05	1.09	1.03	1.40	1.74				3.22	3.19	3.52
wind	2.4 m/s	velocity		5.30	8.54	8.39	8.62	8.62	8.46	8.70	8.39	8.87	6.53	8.06	7.71		8.52	8.60	7.79
Poláček, Josef (CZE) (1990)				H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)																			
<small>Feher (2014) - Final report from the Czech Republic national championships</small>																			
date	02-Aug-14	time		2.73	3.85	4.94	6.05	7.15	8.26	9.35	10.46	11.61	12.76		14.26	4 / 2			
reaction time	0.143	interval		1.12	1.09	1.11	1.10	1.11	1.09	1.11	1.15	1.15	1.50				3.32	3.30	3.41
wind	0.8 m/s	velocity		5.03	8.16	8.39	8.23	8.31	8.23	8.39	8.23	7.95	7.95	9.35	7.71		8.26	8.31	8.04

			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Li Jiming (CHN) (1996)																			
FINAL - 2018 Chinese National Championships (Taiyuan, CHN)			<i>Henson (2018) - coaching observations</i>																
date	16-Sep-18	time	2.70	3.80	4.87	5.94	7.05	8.12	9.23	10.39	11.53	12.68		14.26	1 / 6				
reaction time		interval		1.10	1.07	1.07	1.11	1.07	1.11	1.16	1.14	1.15	1.58			3.24	3.29	3.45	
wind	-0.3 m/s	velocity	5.08	8.31	8.54	8.54	8.23	8.54	8.23	7.88	8.02	7.95	8.87	7.71		8.46	8.33	7.95	
Martinot Lagarde, Pascal (FRA) (199)																			
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)			<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																
date	10-Jun-21	time	2.56	3.64	4.74	5.80	6.88	7.98	9.08	10.24	11.42	12.58		14.26	7 / 8				
reaction time	0.162	interval	7 steps	1.08	1.10	1.06	1.08	1.10	1.10	1.16	1.18	1.16	1.68			3.24	3.28	3.50	
wind	-0.1 m/s	velocity	5.36	8.46	8.31	8.62	8.46	8.31	8.31	7.88	7.75	7.88	8.35	7.71		8.46	8.36	7.83	
Qin Weibo (CHN) (2002)																			
Heat 2 - 2020 Chinese Olympic Trials (Shaoying, CHN)			<i>CAA Hurdle Development (2021)</i>																
date	12-Jun-21	time	2.58	3.72	4.81	5.91	7.00	8.10	9.23	10.36	11.49	12.64		14.26	4 / 5				
reaction time	0.174	interval	7 steps	1.14	1.09	1.10	1.09	1.10	1.13	1.13	1.13	1.15	1.62			3.33	3.32	3.41	
wind	-0.8 m/s	velocity	5.32	8.02	8.39	8.31	8.39	8.31	8.09	8.09	8.09	7.95	8.65	7.71		8.23	8.26	8.04	
Herring, Aubrey (USA) (1978)																			
Heat 4 - 2007 USATF National Championships (Indianapolis, IN)			<i>USATF Men's Hurdle Development (2007)</i>																
date	23-Jun-07	time	2.64	3.79	4.89	5.99	7.07	8.17	9.29	10.41	11.51	12.66		14.27	8 / 8				
reaction time		interval		1.15	1.10	1.10	1.08	1.10	1.12	1.12	1.10	1.15	1.61			3.35	3.30	3.37	
wind	-2.8 m/s	velocity	5.20	7.95	8.31	8.31	8.46	8.31	8.16	8.16	8.31	7.95	8.71	7.71		8.19	8.31	8.14	
Barras, Romain (FRA) (1980)																			
Decathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)			<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	
Shaker, Amir (IRQ) (1989)																			
FINAL - 2011 Folsam GP (Göteborg, SWE)			<i>Blomkvist (2011) - www.sub13.se</i>																
date	11-Jun-11	time	2.64	3.72	4.84	5.90	6.96	8.05	9.16	10.26	11.38	12.56		14.27	1 / 6				
reaction time		interval		1.08	1.12	1.06	1.06	1.09	1.11	1.10	1.12	1.18	1.71			3.26	3.26	3.40	
wind	0.6 m/s	velocity	5.20	8.46	8.16	8.62	8.39	8.23	8.31	8.16	8.16	7.75	8.20	7.71		8.41	8.41	8.06	
Fudaba, Hiroki (JPN) (1994)																			
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>																
date	07-May-17	time	2.77	3.85	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	
Chu Pengfei (CHN) (1993)																			
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)			<i>Henson (2018) - coaching observations</i>																
date	15-Sep-18	time	2.78	3.92	5.00	6.09	7.17	8.27	9.36	10.46	11.61	12.76		14.27	7 / 5				
reaction time		interval		1.14	1.08	1.09	1.08	1.10	1.09	1.10	1.15	1.15	1.51			3.31	3.27	3.40	
wind	-0.2 m/s	velocity	4.94	8.02	8.46	8.39	8.46	8.31	8.39	8.31	7.95	7.95	9.28	7.71		8.28	8.39	8.06	
Zhang Shuai (CHN) (1996)																			
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)			<i>CAA Hurdle Development (2019)</i>																
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	
Jiang Fan (CHN) (1990)																			
Heat 2 - 2020 Chinese National Championships (Shaoying, CHN)			<i>CAA Hurdle Development (2020)</i>																
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	
Wright, Don (AUS) (1959)																			
Semi-Final 2 - 1983 IAAF World Championships (Helsinki, FIN)			<i>Knoke (1984) - the hurdles</i>																
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	
Loyd, Michael (USA) (1984)																			
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)			<i>USATF Women's Sprint Development (2003)</i>																
date	22-Jun-03	time	2.58	3.73	4.82	5.87	6.97	8.09	9.21	10.34	11.48	12.63		14.28	8 / 4				
reaction time		interval		1.15	1.09	1.05	1.10	1.12	1.12	1.13	1.14	1.15	1.65			3.29	3.34	3.42	
wind	-0.4 m/s	velocity	5.32	7.95	8.39	8.70	8.31	8.16	8.16	8.09	8.02	7.95	8.50	7.70		8.33	8.21	8.02	
Nunley, Booker (USA) (1990)																			

FINAL - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm)														USATF Men's Hurdle Development (2007)					
date	time	2.69	3.77	4.85	5.95	7.01	8.14	9.26	10.39	11.51	12.68		14.28		/ 8				
reaction time	interval		1.08	1.08	1.10	1.06	1.13	1.12	1.13	1.12	1.17	1.60				3.26	3.31	3.42	
wind	velocity	2.7 m/s	5.10	8.46	8.46	8.31	8.62	8.09	8.16	8.09	8.16	7.81	8.76	7.70		8.41	8.28	8.02	
Eaton, Ashton (USA) (1988)	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 - 2009 IAAF World Championships (Berlin, GER)														Graubner (2009) - biomechanical analyses at the 12th IAAF world championships					
date	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	interval	0.178	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	velocity	0.3 m/s	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	
Homola, Tomáš (CZE) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)														Feher (2014) - Final report from the U18 & U20 Czech Republic national championships					
date	time	2.68	3.80	4.90	5.99	7.10	8.20	9.30	10.43	11.56	12.73		14.28		4 / 1				
reaction time	interval	0.147	1.12	1.10	1.09	1.11	1.10	1.10	1.13	1.13	1.17	1.55				3.31	3.31	3.43	
wind	velocity	-2.2 m/s	5.12	8.16	8.31	8.39	8.23	8.31	8.31	8.09	8.09	7.81	9.05	7.70		8.28	8.28	7.99	
Hiraga, Kentaro (JPN) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)														(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en					
date	time	2.68	3.82	4.92	6.04	7.14	8.24	9.36	10.49	11.63	12.79		14.28		6 / 2				
reaction time	interval		1.14	1.10	1.12	1.10	1.10	1.12	1.13	1.14	1.16	1.49				3.36	3.32	3.43	
wind	velocity	1.7 m/s	5.12	8.02	8.31	8.16	8.31	8.16	8.16	8.09	8.02	7.88	9.41	7.70		8.16	8.26	7.99	
Takaoka, Yudai (JPN) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 4 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)														(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en					
date	time	2.72	3.82	4.93	6.02	7.11	8.19	9.31	10.43	11.62	12.77		14.28		8 / 2				
reaction time	interval		1.10	1.11	1.09	1.09	1.08	1.12	1.12	1.19	1.15	1.51				3.30	3.29	3.46	
wind	velocity	1.5 m/s	5.04	8.31	8.23	8.39	8.39	8.46	8.16	8.16	7.68	7.95	9.28	7.70		8.31	8.33	7.92	
Kagimoto, Masahiro (JPN) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)														(2017) - tfdata-store.com/2017/05/01/458/					
date	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	velocity	-1.5 m/s	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	
Furuya, Takumu (JPN) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
B FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)														Kobayashi (2019) - research on athlete performance and technique- 2019 data book					
date	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	velocity	1.4 m/s	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	
Lu Yang (CHN) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)														CAA Hurdle Development (2021)					
date	time	2.70	3.82	4.90	5.99	7.07	8.17	9.27	10.38	11.53	12.70		14.28		5 / 4				
reaction time	interval	0.163	1.12	1.08	1.09	1.08	1.10	1.10	1.11	1.15	1.17	1.58				3.29	3.28	3.43	
wind	velocity	-1.2 m/s	5.08	8.16	8.46	8.39	8.46	8.31	8.31	8.23	7.95	7.81	8.87	7.70		8.33	8.36	7.99	
Nakai, Shouta (JPN) (2004)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2021 Japanese U18 National Championships (Matsuyama, JPN) (99cm)														Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season					
date	time	2.74	3.90	5.01	6.10	7.21	8.30	9.39	10.48	11.62	12.75		14.28		7 / 7				
reaction time	interval	0.188	1.16	1.11	1.09	1.11	1.09	1.09	1.09	1.14	1.13	1.53				3.36	3.29	3.36	
wind	velocity	-0.6 m/s	5.01	7.88	8.23	8.39	8.23	8.39	8.39	8.39	8.02	8.09	9.16	7.70		8.16	8.33	8.16	
Sasa, Atsuhiko (JPN) (2001)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99cm)														Kobayashi (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection					
date	time	2.76	3.87	4.98	6.08	7.20	8.31	9.44	10.56	11.69	12.83		14.29		2 / 4				
reaction time	interval		1.11	1.11	1.10	1.12	1.11	1.13	1.12	1.13	1.14	1.46				3.32	3.36	3.39	
wind	velocity	1.6 m/s	4.97	8.23	8.23	8.31	8.16	8.23	8.09	8.16	8.09	8.02	9.60	7.70		8.26	8.16	8.09	
Brathwaite, Shane (BAR) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)														CAA Hurdle Development (2019)					
date	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	interval	0.169	1.06	1.02	1.02	1.02	1.03	1.07	1.06	1.20	2.17					3.10	3.07	3.33	
wind	velocity	1.1 m/s	5.24	8.62	8.96	8.96	8.96	8.87	8.54	8.62	7.62	6.46	7.70			8.85	8.93	8.23	
Yazawa, Wataru (JPN) (1991)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)														Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season					
date	time	2.67	3.80	4.90	6.00	7.10	8.19	9.29	10.42	11.56	12.72		14.29		8 / 8				
reaction time	interval	0.158	1.13	1.10	1.10	1.10	1.09	1.10	1.13	1.14	1.16	1.57				3.33	3.29	3.43	
wind	velocity	-0.4 m/s	5.14	8.09	8.31	8.31	8.39	8.31	8.09	8.02	7.88	8.93	7.70			8.23	8.33	7.99	
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			
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)														CAA Hurdle Development (2021)					
date	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				

Ueno, Yuta (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2016 Japanese University Championships (Kumagaya, JPN) (2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																		
date	04-Sep-16	time	2.71	3.83	4.95	6.05	7.15	8.28	9.40	10.54	11.68	12.84		14.31	8 / 7			
reaction time	0.136	interval		1.12	1.12	1.10	1.10	1.13	1.12	1.14	1.14	1.16	1.47			3.34	3.35	3.44
wind	0.6 m/s	velocity	5.06	8.16	8.16	8.31	8.31	8.09	8.16	8.02	8.02	7.88	9.54	7.69		8.21	8.19	7.97
Kato, Yoshihiko (JPN) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Mito Invitational (Mito, JPN) (2017) - tfd-data-store.com/2017/05/06/post-423/																		
date	05-May-17	time	2.72	3.88	5.04	6.17	7.28	8.39	9.49	10.60	11.70	12.83		14.31	8 / 6			
reaction time		interval		1.16	1.16	1.13	1.11	1.11	1.10	1.11	1.10	1.13	1.48			3.45	3.32	3.34
wind	-2.3 m/s	velocity	5.04	7.88	7.88	8.09	8.23	8.23	8.31	8.23	8.31	8.09	9.47	7.69		7.95	8.26	8.21
Tawada, Asahi (JPN) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99cm) (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection																		
date	06-Aug-18	time	2.65	3.76	4.88	6.00	7.09	8.19	9.30	10.45	11.59	12.75		14.31	6 / 5			
reaction time		interval		1.11	1.12	1.12	1.09	1.10	1.11	1.15	1.14	1.16	1.56			3.35	3.30	3.45
wind	1.6 m/s	velocity	5.18	8.23	8.16	8.16	8.39	8.31	8.23	7.95	8.02	7.88	8.99	7.69		8.19	8.31	7.95
Zeng Jianhang (CHN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN) CAA Hurdle Development (2019)																		
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			
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			3.27	3.37	3.40
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		8.39	8.14	8.06
Pan Zijie (CHN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN) CAA Hurdle Development (2021)																		
date	24-Apr-21	time	2.68	3.80	4.90	5.98	7.10	8.25	9.36	10.50	11.63	12.78		14.31	9 / 4			
reaction time	0.178	interval		1.12	1.10	1.08	1.12	1.15	1.11	1.14	1.13	1.15	1.53			3.30	3.38	3.42
wind	-1.2 m/s	velocity	5.12	8.16	8.31	8.46	8.16	7.95	8.23	8.02	8.09	7.95	9.16	7.69		8.31	8.11	8.02
Chen Jie (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	3.81	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
Nishi, Kyohei (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Kyushu Championships (Kita-Kyushu, JPN) (2016.08.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																		
date	27-Aug-16	time	2.70	3.81	4.95	6.05	7.15	8.28	9.39	10.51	11.65	12.81		14.32	4 / 1			
reaction time		interval		1.11	1.14	1.10	1.10	1.13	1.11	1.12	1.14	1.16	1.51			3.35	3.34	3.42
wind	-2.1 m/s	velocity	5.08	8.23	8.02	8.31	8.31	8.09	8.23	8.16	8.02	7.88	9.28	7.68		8.19	8.21	8.02
Takayama, Shunya (JPN) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2016 Japanese University Championships (Kumagaya, JPN) (2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																		
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	0.151	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	-0.1 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
Kagimoto, Masahiro (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Japanese University Championships (Kumagaya, JPN) (2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																		
date	04-Sep-16	time	2.71	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
Yamamura, Keita (JPN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99cm) (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection																		
date	06-Aug-18	time	2.69	3.82	4.95	6.05	7.15	8.26	9.38	10.50	11.65	12.80		14.32	9 / 6			
reaction time		interval		1.13	1.13	1.10	1.10	1.11	1.12	1.12	1.15	1.15	1.52			3.36	3.33	3.42
wind	1.6 m/s	velocity	5.10	8.09	8.09	8.31	8.31	8.23	8.16	8.16	7.95	7.95	9.22	7.68		8.16	8.23	8.02
Huan Jiaxing (CHN) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm) CAA Hurdle Development (2019)																		
date	14-Aug-19	time	2.59	3.69	4.81	5.89	6.99	8.11	9.23	10.36	11.49	12.66		14.32	8 / 6			
reaction time	0.196	interval		1.10	1.12	1.08	1.10	1.12	1.12	1.13	1.13	1.17	1.66			3.30	3.34	3.43
wind	0.5 m/s	velocity	5.30	8.31	8.16	8.46	8.31	8.16	8.16	8.09	8.09	7.81	8.45	7.68		8.31	8.21	7.99
Pérez, Eduardo (ESP) (1970)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1998 Spanish National Championships (San Sebastián, ESP) Ruiz (1998) - <i>campeonato des españa absoluto: análisis de la carreras con villas</i>																		
date	02-Aug-98	time	2.69	3.76	4.89	6.03	7.08	8.20	9.32	10.45	11.58	12.78		14.33	1 / 4			
reaction time		interval		1.07	1.13	1.14	1.05	1.12	1.12	1.13	1.13	1.20	1.55			3.34	3.29	3.46
wind	0.1 m/s	velocity	5.10	8.54	8.09	8.02	8.70	8.16	8.16	8.09	8.09	7.62	9.05	7.68		8.21	8.33	7.92
Nakamura, Akihiko (JPN) (1990)		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 - 2014 Asian Games (Incheon, KOR)														Takeo (2014) - decathletes sprint ability & relationship of individual event performance					
date	01-Oct-14	time	2.74	3.86	4.97	6.09	7.21	8.33	9.47	10.59	11.73	12.89	14.33	1					
reaction time	0.166	interval		1.12	1.11	1.12	1.12	1.12	1.14	1.12	1.14	1.16	1.44		3.35	3.38	3.42		
wind	1.9 m/s	velocity	5.01	8.16	8.23	8.16	8.16	8.16	8.02	8.16	8.02	7.88	9.74	7.68	8.19	8.11	8.02		
Kawashima, Ryota (JPN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2016 Japanese National High School Championships (Okayama, JPN) (99cm)														Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics					
date	02-Aug-16	time	2.69	3.82	4.94	6.05	7.16	8.29	9.41	10.52	11.67	12.83	14.33	9 / 6					
reaction time	0.169	interval		1.13	1.12	1.11	1.11	1.13	1.12	1.11	1.15	1.16	1.50	PB		3.36	3.36	3.42	
wind	1.2 m/s	velocity	5.10	8.09	8.16	8.23	8.23	8.09	8.16	8.23	7.95	7.88	9.35	7.68		8.16	8.16	8.02	
Aiso, Ibuki (JPN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Kyoto University Meeting (Kyoto, JPN)														(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	
Kagimoto, Masahiro (JPN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Mito Invitational (Mito, JPN)														(2017) - tfdata-store.com/2017/05/06/post-423/					
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	
Kameyama, Yuji (JPN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)														(2017) - tfdata-store.com/2017/05/13/post-441/					
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	
Jiang Fan (CHN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 2 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)														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	
Sun Zhenjiang (CHN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 2 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)														CAA Hurdle Development (2019)					
date	13-Apr-19	time	2.64	3.72	4.79	5.86	6.94	8.04	9.18	10.31	11.45	12.68	14.33	3 / 2					
reaction time	0.169	interval	7 steps	1.08	1.07	1.07	1.08	1.10	1.14	1.13	1.14	1.23	1.65			3.22	3.32	3.50	
wind	0.1 m/s	velocity	5.20	8.46	8.54	8.54	8.46	8.31	8.02	8.09	8.02	7.43	8.50	7.68		8.52	8.26	7.83	
Pan Zijie (CHN) (1995)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoying, CHN)														CAA Hurdle Development (2021)					
date	08-Apr-21	time	2.72	3.84	4.96	6.04	7.16	8.28	9.40	10.52	11.66	12.78	14.33	3 / 6					
reaction time		interval		1.12	1.12	1.08	1.12	1.12	1.12	1.12	1.14	1.12	1.55			3.32	3.36	3.38	
wind	-0.1 m/s	velocity	5.04	8.16	8.16	8.46	8.16	8.16	8.16	8.16	8.02	8.16	9.05	7.68		8.26	8.16	8.11	
Xu Zhuoyi (CHN) (2003)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 1 - 2020 Chinese Olympic Trials (Shaoying, CHN)														CAA Hurdle Development (2021)					
date	12-Jun-21	time	2.64	3.73	4.85	5.94	7.04	8.14	9.26	10.38	11.52	12.70	14.33	5 / 6					
reaction time	0.173	interval	7 steps	1.09	1.12	1.09	1.10	1.10	1.12	1.12	1.14	1.18	1.63			3.30	3.32	3.44	
wind	-0.4 m/s	velocity	5.20	8.39	8.16	8.39	8.31	8.31	8.16	8.16	8.02	7.75	8.60	7.68		8.31	8.26	7.97	
Hatanaka, Yushi (JPN) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 1 - 2016 Japanese University Championships (Kumagaya, JPN)														(2016.09.05) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en					
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	
Aiso, Ibuki (JPN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)														(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	
Kubota, Kohei (JPN) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Nambu Memorial (Sapporo, JPN)														(2017) - tfdata-store.com/2017/07/12/post-1025/					
date	09-Jul-17	time	2.65	3.77	4.90	6.01	7.14	8.26	9.38	10.51	11.65	12.82	14.34	8 / 6					
reaction time		interval		1.12	1.13	1.11	1.13	1.12	1.12	1.13	1.14	1.17	1.52			3.36	3.37	3.44	
wind	2.7 m/s	velocity	5.18	8.16	8.09	8.23	8.09	8.16	8.16	8.09	8.02	7.81	9.22	7.67		8.16	8.14	7.97	
Xie Wenjun (CHN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)														Henson (2020) - Athlete First: 2017 year end hurdle report					
date	09-Jul-17	time	2.60	3.66	4.74	5.78	6.82	7.90	8.98	10.08	11.26	12.46	14.34	2 / 9					

	reaction time	interval	1.06	1.08	1.04	1.04	1.08	1.08	1.10	1.18	1.20	1.88			3.18	3.20	3.48	
	wind	0.0 m/s	velocity	5.28	8.62	8.46	8.79	8.79	8.46	8.46	8.31	7.75	7.62	7.46	7.67	8.62	8.57	7.88
Holm, Jonathan (SWE) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Windsprint (Sundsvall, SWE)																		
date	30-Jul-17	time	2.69	3.80	4.88	5.99	7.11	8.23	9.35	10.50	11.63	12.81	14.34		(2017) - www.windsprint/Splittider/	1/2		
reaction time		interval	1.11	1.08	1.11	1.12	1.12	1.12	1.15	1.13	1.18	1.53			3.30	3.36	3.46	
wind	1.0 m/s	velocity	5.10	8.23	8.46	8.23	8.16	8.16	8.16	7.95	8.09	7.75	9.16	7.67	8.31	8.16	7.92	
Higuchi, Rikuto (JPN) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)																		
date	02-Aug-17	time	2.70	3.82	4.95	6.08	7.22	8.35	9.48	10.61	11.76	12.92	14.34		<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics</i>	6 / 3		
reaction time	0.169	interval	1.12	1.13	1.13	1.14	1.13	1.13	1.13	1.15	1.16	1.42			3.38	3.40	3.44	
wind	-0.7 m/s	velocity	5.08	8.16	8.09	8.09	8.02	8.09	8.09	8.09	7.95	7.88	9.87	7.67	8.11	8.06	7.97	
Yang Jianxing (CHN) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)																		
date	15-Sep-18	time	2.67	3.77	4.87	5.98	7.07	8.16	9.29	10.44	11.61	12.80	14.34		<i>Henson (2018) - coaching observations</i>	6 / 6		
reaction time		interval	1.10	1.10	1.11	1.09	1.09	1.13	1.15	1.17	1.19	1.54			3.31	3.31	3.51	
wind	0.7 m/s	velocity	5.14	8.31	8.31	8.23	8.39	8.39	8.09	7.95	7.81	7.68	9.10	7.67	8.28	8.28	7.81	
Qin Weibo (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 - 2018 Chinese National Championships (Taiyuan, CHN)																		
date	15-Sep-18	time	2.75	3.84	4.92	5.97	7.07	8.14	9.31	10.47	11.64	12.80	14.34		<i>Henson (2018) - coaching observations</i>	3 / 6		
reaction time		interval	1.09	1.08	1.05	1.10	1.07	1.17	1.16	1.17	1.16	1.54			3.22	3.34	3.49	
wind	-0.2 m/s	velocity	4.99	8.39	8.46	8.70	8.31	8.54	7.81	7.88	7.81	7.88	9.10	7.67	8.52	8.21	7.86	
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 3 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																		
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		<i>CAA Hurdle Development (2019)</i>	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	
Ma Lei (CHN) (1989)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 5 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																		
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		<i>CAA Hurdle Development (2019)</i>	8 / 2		
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	
Shi Guoxing (CHN) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)																		
date	16-Sep-20	time	2.72	3.86	5.00	6.11	7.24	8.37	9.50	10.63	11.76	12.90	14.34		<i>CAA Hurdle Development (2020)</i>	9 / 7		
reaction time	0.169	interval	1.14	1.14	1.11	1.13	1.13	1.13	1.13	1.13	1.13	1.14	1.44	PB		3.39	3.39	3.40
wind	0.3 m/s	velocity	5.04	8.02	8.02	8.23	8.09	8.09	8.09	8.09	8.09	8.02	9.74	7.67	8.09	8.09	8.06	
Nakamura, Akihiko (JPN) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Decathlon - Heat 3 - 2021 Japanese Multi-Event National Championships (Nagano, JPN)																		
date	13-Jun-21	time	2.73	3.85	4.97	6.09	7.21	8.32	9.45	10.58	11.72	12.85	14.34		<i>Matsubayashi (2021) - 110m hurdlng race analysis of decathlon athletes in the 2021 season</i>	2 / 2		
reaction time	0.152	interval	1.12	1.12	1.12	1.12	1.11	1.13	1.13	1.14	1.13	1.49			3.36	3.36	3.40	
wind	-0.9 m/s	velocity	5.03	8.16	8.16	8.16	8.16	8.23	8.09	8.09	8.02	8.09	9.41	7.67	8.16	8.16	8.06	
Berger, Dominic (USA) (1986)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 3 - 2007 USATF National Championships (Indianapolis, IN)																		
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		<i>USATF Men's Hurdle Development (2007)</i>	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	
Eida, Ryusei (JPN) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99cm)																		
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		<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>	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	
Sun Haoru (CHN) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 1 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																		
date	13-Apr-19	time	2.67	3.79	4.90	5.97	7.07	8.19	9.31	10.46	11.61	12.78	14.35		<i>CAA Hurdle Development (2019)</i>	9 / 1		
reaction time	0.185	interval	1.12	1.11	1.07	1.10	1.12	1.12	1.15	1.15	1.17	1.57			3.30	3.34	3.47	
wind	0.0 m/s	velocity	5.14	8.16	8.23	8.54	8.31	8.16	8.16	7.95	7.95	7.81	8.93	7.67	8.31	8.21	7.90	
Li Fuqiang (CHN) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)																		
date	14-Aug-19	time	2.65	3.77	4.90	6.01	7.15	8.26	9.39	10.55	11.68	12.83	14.35		<i>CAA Hurdle Development (2019)</i>	8 / 6		
reaction time	0.162	interval	1.12	1.13	1.11	1.14	1.11	1.13	1.16	1.13	1.15	1.52			3.36	3.38	3.44	
wind	0.6 m/s	velocity	5.18	8.16	8.09	8.23	8.02	8.23	8.09	7.88	8.09	7.95	9.22	7.67	8.16	8.11	7.97	

Mao Chenchen (CHN) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm) <i>CAA Hurdle Development (2019)</i>																		
date	14-Aug-19	time	2.67	3.82	4.93	6.02	7.09	8.19	9.29	10.44	11.59	12.73		14.35	5 / 3			
reaction time	0.162	interval		1.15	1.11	1.09	1.07	1.10	1.10	1.15	1.15	1.14	1.62			3.35	3.27	3.44
wind	-0.1 m/s	velocity	5.14	7.95	8.23	8.39	8.54	8.31	8.31	7.95	7.95	8.02	8.65	7.67		8.19	8.39	7.97
MacDonald, Rich (CAN) (1949)																		
Heat 4 - 1972 Olympic Games (Munich, GER) <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				3.3											3.32	
wind	0.9 m/s	velocity	5.44			8.26								7.66			8.26	
Craddock, Kevin (USA) (1987)																		
FINAL - 2003 USATF National Junior Championships (Indianapolis, IN) (99cm) <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
McDonald, Ian (IRL) (1984)																		
FINAL - 2012 Windsprint (Sundsvall, SWE) <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
Sedlák, Václav (CZE) (1993)																		
FINAL - 2013 Czech Republic National Championships (Tábor, CZE) <i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>																		
date	15-Jun-13	time	2.73	3.85	4.96	6.05	7.13	8.25	9.40	10.53	11.68	12.87		14.36	3 / 4			
reaction time	0.147	interval		1.12	1.11	1.09	1.08	1.12	1.15	1.13	1.15	1.19	1.49			3.32	3.35	3.47
wind	0.4 m/s	velocity	5.03	8.16	8.23	8.39	8.46	8.16	7.95	8.09	7.95	7.68	9.41	7.66		8.26	8.19	7.90
Igarashi, Rai (JPN) (1997)																		
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (99cm) <i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015</i>																		
date	02-Aug-15	time	2.67	3.81	4.91	6.04	7.15	8.29	9.41	10.56	11.71	12.87		14.36	2 / 4			
reaction time		interval		1.14	1.10	1.13	1.11	1.14	1.12	1.15	1.15	1.16	1.49	PB		3.37	3.37	3.46
wind	1.4 m/s	velocity	5.14	8.02	8.31	8.09	8.23	8.02	8.16	7.95	7.95	7.88	9.41	7.66		8.14	8.14	7.92
Furumoto, Tsubasa (JPN) (1995)																		
Semi-Final 2 - 2016 Japanese University Championships (Kumagaya, JPN) (2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																		
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
Fujii, Ryota (JPN) (1996)																		
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN) (2017) - tldata-store.com/2017/05/01/458/																		
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
Wu Zhenhua (CHN) (1998)																		
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN) Henson (2018) - coaching observations																		
date	15-Sep-18	time	2.72	3.84	4.96	6.06	7.17	8.31	9.43	10.56	11.68	12.84		14.36	6 / 7			
reaction time		interval		1.12	1.12	1.10	1.11	1.14	1.12	1.13	1.12	1.16	1.52			3.34	3.37	3.41
wind	-0.2 m/s	velocity	5.04	8.16	8.16	8.31	8.23	8.02	8.16	8.09	8.16	7.88	9.22	7.66		8.21	8.14	8.04
Yang Yuxuan (CHN) (2002)																		
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
Ma Lei (CHN) (1989)																		
Heat 4 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN) CAA Hurdle Development (2019)																		
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	7 / 2			
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
Shi Guoxing (CHN) (2000)																		
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN) CAA Hurdle Development (2019)																		
date	24-Aug-19	time	2.78	3.89	4.99	6.10	7.19	8.32	9.44	10.56	11.72	12.88		14.36	3 / 6			
reaction time	0.201	interval		1.11	1.10	1.11	1.09	1.13	1.12	1.12	1.16	1.16	1.48	PB		3.32	3.34	3.44
wind	-0.1 m/s	velocity	4.94	8.23	8.31	8.23	8.39	8.09	8.16	8.16	7.88	7.88	9.47	7.66		8.26	8.21	7.97
Zhu Shenglong (CHN) (2000)																		

CAA Hurdle Development (2020)																
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)																
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
reaction time	0.157	interval		1.11	1.10	1.08	1.09	1.11	1.12	1.12	1.16	1.18	1.56			3.29 3.32 3.46
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		8.33 8.26 7.92
Kawano, Hayato (JPN) (2003)																
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)																
date	01-Aug-21	time	2.64	3.75	4.85	5.97	7.07	8.18	9.33	10.50	11.62	12.79		14.36		7 / 7
reaction time	0.143	interval		1.11	1.10	1.12	1.10	1.11	1.15	1.17	1.12	1.17	1.57	PB		3.33 3.36 3.46
wind	1.4 m/s	velocity	5.20	8.23	8.31	8.16	8.31	8.23	7.95	7.81	8.16	7.81	8.93	7.66		8.23 8.16 7.92
DuBose, Jacoby (USA) (1982)																
Heat 3 - 2007 USATF National Championships (Indianapolis, IN)																
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
Uchino, Rio (JPN) (2003)																
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)																
date	01-Aug-21	time	2.73	3.85	4.95	6.06	7.17	8.28	9.40	10.51	11.66	12.84		14.37		1 / 8
reaction time	0.139	interval		1.12	1.10	1.11	1.11	1.12	1.11	1.15	1.18	1.15	1.53	PB		3.33 3.34 3.44
wind	1.4 m/s	velocity	5.03	8.16	8.31	8.23	8.23	8.16	8.23	7.95	7.75	7.75	9.16	7.65		8.23 8.21 7.97
Toyoda, Masaki (JPN) (1998)																
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (99cm)																
date	02-Aug-15	time	2.72	3.87	5.01	6.13	7.24	8.35	9.49	10.64	11.78	12.93		14.38		8 / 5
reaction time		interval		1.15	1.14	1.12	1.11	1.11	1.14	1.15	1.14	1.15	1.45			3.41 3.36 3.44
wind	1.4 m/s	velocity	5.04	7.95	8.02	8.16	8.23	8.23	8.02	7.95	8.02	7.95	9.67	7.65		8.04 8.16 7.97
Kubota, Taichi (JPN) (2000)																
Heat 5 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																
date	21-Oct-16	time	2.74	3.85	4.97	6.08	7.20	8.31	9.45	10.59	11.73	12.86		14.38		3 / 1
reaction time		interval		1.11	1.12	1.11	1.12	1.11	1.14	1.14	1.14	1.13	1.52			3.34 3.37 3.41
wind	1.3 m/s	velocity	5.01	8.23	8.16	8.23	8.16	8.23	8.02	8.02	8.02	8.09	9.22	7.65		8.21 8.14 8.04
Watase, Yuto (JPN) (1997)																
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)																
date	11-May-17	time	2.65	3.75	4.87	5.97	7.08	8.21	9.33	10.48	11.63	12.81		14.38		2 / 7
reaction time		interval		1.10	1.12	1.10	1.11	1.13	1.12	1.15	1.15	1.18	1.57			3.32 3.36 3.48
wind	1.6 m/s	velocity	5.18	8.31	8.16	8.31	8.23	8.09	8.16	7.95	7.95	7.75	8.93	7.65		8.26 8.16 7.88
Zhao Pengchuan (CHN) (1993)																
Heat 1 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																
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
Lai Junjie (CHN) (2003)																
Heat 2 - 2021 National Grand Prix (Chengdu, CHN)																
date	02-Apr-21	time	2.72	3.88	5.02	6.10	7.20	8.30	9.42	10.56	11.68	12.84		14.38		3 / 2
reaction time	0.189	interval		1.16	1.14	1.08	1.10	1.10	1.12	1.14	1.12	1.16	1.54	PB		3.38 3.32 3.42
wind	0.3 m/s	velocity	5.04	7.88	8.02	8.46	8.31	8.31	8.16	8.02	8.16	7.88	9.10	7.94		8.11 8.26 8.02
Poláček, Josef (CZE) (1990)																
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)																
date	02-Aug-14	time	2.70	3.82	4.93	6.05	7.15	8.26	9.37	10.52	11.63	12.83		14.39		3 / 2
reaction time	0.154	interval		1.12	1.11	1.12	1.10	1.11	1.11	1.15	1.11	1.20	1.56			3.35 3.32 3.46
wind	-1.2 m/s	velocity	5.08	8.16	8.23	8.16	8.31	8.23	8.23	7.95	8.23	7.62	8.99	7.64		8.19 8.26 7.92
Kato, Takuma (JPN) (1998)																
FINAL - 2016 Hokusei Shinetsu High School Meeting (Okayama, JPN) (99cm)																
date	18-Jun-16	time	2.68	3.76	4.88	5.98	7.10	8.24	9.40	10.56	11.73	12.89		14.39		7 / 1
reaction time		interval		1.08	1.12	1.10	1.12	1.14	1.16	1.16	1.17	1.16	1.50			3.30 3.42 3.49
wind	-2.5 m/s	velocity	5.12	8.46	8.16	8.31	8.16	8.02	7.88	7.88	7.81	7.88	9.35	7.64		8.31 8.02 7.86
Moriita, Kanon (JPN) (2000)																
Heat 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																
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
Shi Guoxing (CHN) (2000)																
Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)																
date	12-Jun-21	time	2.65	3.76	4.87	5.97	7.11	8.24	9.36	10.49	11.63	12.77		14.39		7 / 6

Heat 4 - 1972 Olympic Games (Munich, GER)														<i>Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften</i>					
date	03-Sep-72	time	2.6											6.0	14.50	1 / 5			
reaction time		interval												3.4					3.38
wind	0.9 m/s	velocity	5.34											8.11					8.11
Nakamura, Akihiko (JPN) (1990)														<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>					
Decathlon - Heat 1 - 2011 Asian Championships (Kobe, JPN)																			
date	08-Jul-11	time	2.70	3.83	4.95	6.07	7.21	8.34	9.48	10.66	11.82	13.00		14.50		/ 1			
reaction time		interval		1.13	1.12	1.12	1.14	1.13	1.14	1.18	1.16	1.18	1.50						3.37 3.41 3.52
wind	0.3 m/s	velocity	5.08	8.09	8.16	8.16	8.02	8.09	8.02	7.75	7.88	7.75	9.35	7.59					8.14 8.04 7.79
Kato, Takuma (JPN) (1998)														<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015</i>					
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (99cm)																			
date	02-Aug-15	time	2.69	3.83	4.96	6.08	7.22	8.35	9.48	10.64	11.80	12.97		14.50		3 / 6			
reaction time		interval		1.14	1.13	1.12	1.14	1.13	1.13	1.16	1.16	1.17	1.53						3.39 3.40 3.49
wind	1.4 m/s	velocity	5.10	8.02	8.09	8.16	8.02	8.09	8.09	7.88	7.88	7.81	9.16	7.59					8.09 8.06 7.86
Yan Chenyu (CHN) (2003)														<i>CAA Hurdle Development (2021)</i>					
FINAL - 2021 National Grand Prix (Chengdu, CHN)																			
date	02-Apr-21	time	2.74	3.88	5.00	6.14	7.27	8.40	9.54	10.68	11.81	12.94		14.50		8 / 5			
reaction time	0.192	interval		1.14	1.12	1.14	1.13	1.13	1.14	1.14	1.13	1.13	1.56						3.40 3.40 3.40
wind	-0.1 m/s	velocity	5.01	8.02	8.16	8.02	8.09	8.09	8.02	8.02	8.09	8.09	8.99	7.59					8.06 8.06 8.06
Maruyama, Yuma (JPN) (1998)														<i>Matsubayashi (2021) - 110m hurdling race analysis of decathlon athletes in the 2021 season</i>					
Decathlon - Heat 3 - 2021 Japanese Multi-Event National Championships (Nagano, JPN)																			
date	13-Jun-21	time	2.74	3.91	5.05	6.17	7.27	8.40	9.51	10.66	11.80	12.95		14.50		6 / 3			
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
Jiles-Tindall, Julius (USA) (1986)														<i>USATF Women's Sprint Development (2003)</i>					
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)																			
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
Vos, Ingmar (NED) (1986)														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
Decathlon - Heat 5 - 2009 IAAF World Championships (Berlin, GER)																			
date	20-Aug-09	time	2.76	3.91	5.04	6.16	7.28	8.40	9.52	10.66	11.80	12.99		14.51		4 / 1			
reaction time	0.178	interval		1.15	1.13	1.12	1.12	1.12	1.12	1.14	1.14	1.19	1.52	PB					3.40 3.36 3.47
wind	0.3 m/s	velocity	4.97	7.95	8.09	8.16	8.16	8.16	8.16	8.02	8.02	7.68	9.22	7.58					8.06 8.16 7.90
Tuček, Martin (CZE) (1995)														<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)																			
date	28-Jun-14	time	2.68	3.82	4.94	6.07	7.20	8.31	9.42	10.56	11.70	12.91		14.51		6 / 2			
reaction time	0.148	interval		1.14	1.12	1.13	1.13	1.11	1.11	1.14	1.14	1.21	1.60						3.39 3.35 3.49
wind	-2.2 m/s	velocity	5.12	8.02	8.16	8.09	8.09	8.23	8.23	8.02	8.02	7.55	8.76	7.58					8.09 8.19 7.86
Liu Junqian (CHN) (2003)														<i>CAA Hurdle Development (2021)</i>					
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)																			
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		8 / 7			
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
English, Andre (USA) (1984)														<i>USATF Women's Sprint Development (2003)</i>					
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)																			
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
Shaker, Amir (SWE) (1989)														<i>Blomkvist (2012) - www.sub13.se</i>					
FINAL - 2012 Windsprint (Sundsvall, SWE)																			
date	17-Jun-12	time	2.76	3.87	4.97	6.06	7.15	8.28	9.42	10.58	11.74	12.91		14.52		8 / 7			
reaction time		interval		1.11	1.10	1.09	1.09	1.13	1.14	1.16	1.16	1.17	1.61						3.30 3.36 3.49
wind	1.1 m/s	velocity	4.97	8.23	8.31	8.39	8.39	8.09	8.02	7.88	7.88	7.81	8.71	7.58					8.31 8.16 7.86
Doležal, Jan (CZE) (1996)														<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)																			
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
Doležal, Jan (CZE) (1996)														<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)																			
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			

Kavka, Tomáš (CZE) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)		<i>Feher (2014) - Final report from the Czech Republic national championships</i>															
date	02-Aug-14	time	2.77	3.93	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
Okuda, Keisuke (JPN) (1996)		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 - 2022 Michitaka Kinami Memorial (Osaka, JPN)		<i>Takefu (2023) - performance analysis of decathlon athletes in the 2022 season</i>															
date	01-May-22	time	2.79	3.96	5.13	6.30	7.47	8.65	9.84	11.03	12.23	13.44	14.95	5 / 3			
reaction time	0.132	interval		1.17	1.17	1.17	1.17	1.18	1.19	1.19	1.20	1.21	1.51		3.51	3.54	3.60
wind	1.2 m/s	velocity	4.92	7.81	7.81	7.81	7.81	7.75	7.68	7.68	7.62	7.55	9.28	7.36	7.81	7.75	7.62
Sajdok, Stanislav (CZE) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)		<i>Feher (2014) - Final report from the Czech Republic national championships</i>															
date	02-Aug-14	time	2.70	3.87	4.98	6.14	7.28	8.45	9.63	10.81	12.03	13.29	14.96	3 / 4			
reaction time	0.159	interval		1.17	1.11	1.16	1.14	1.17	1.18	1.18	1.22	1.26	1.67		3.44	3.49	3.66
wind	0.8 m/s	velocity	5.08	7.81	8.23	7.88	8.02	7.81	7.75	7.75	7.49	7.25	8.40	7.35	7.97	7.86	7.49
Takeuchi, Tomoki (JPN) (2004)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)		<i>Kishima (2022) - national high school championships biomechanics data collection</i>															
date	07-Aug-22	time	2.70	3.86	5.02	6.16	7.34	8.52	9.70	10.92	12.17	13.45	14.96	2 / 6			
reaction time	0.157	interval		1.16	1.16	1.14	1.18	1.18	1.18	1.22	1.25	1.28	1.51		3.46	3.54	3.75
wind	-3.8 m/s	velocity	5.08	7.88	7.88	8.02	7.75	7.75	7.75	7.49	7.31	7.14	9.28	7.35	7.92	7.75	7.31
Lindén, Samuel (SWE) (1986)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 Windsprint (Sundsvall, SWE)		<i>(2008) - www.ssg.se/en/Windsprint/Split-times/</i>															
date	06-Jul-08	time		3.97			7.42			10.93			14.97	2 / 4			
reaction time		interval					3.45			3.51			4.04				
wind	0.5 m/s	velocity		5.76			7.95			7.81			8.00	7.35			
Sysoyev, Aleksey (RUS) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)		<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>															
date	20-Aug-09	time	2.87	3.95	5.10	6.29	7.49	8.65	9.83	11.02	12.23	13.42	14.97	6 / 5			
reaction time	0.150	interval		1.08	1.15	1.19	1.20	1.16	1.18	1.19	1.21	1.19	1.55		3.42	3.54	3.59
wind	0.0 m/s	velocity	4.78	8.46	7.95	7.68	7.62	7.88	7.75	7.68	7.55	7.68	9.05	7.35	8.02	7.75	7.64
Andersson, Andreas (SWE) (1987)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Windsprint (Sundsvall, SWE)		<i>(2013) - www.ssg.se/windsprint/Splittider/</i>															
date	28-Jul-13	time	2.78	3.96	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
Takaya, Yasuda (JPN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)		<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>															
date	06-Apr-17	time	2.73	3.90	5.07	6.23			10.98	12.19	13.42		14.97	9 / 5			
reaction time		interval		1.17	1.17	1.16			4.75	1.21	1.23	1.55			3.50		
wind	-1.8 m/s	velocity	5.03	7.81	7.81	7.88			7.70	7.55	7.43	9.05	7.35		7.83		
Yang Quanlei (CHN) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)		<i>CAA Hurdle Development (2019)</i>															
date	23-Aug-19	time	2.74	3.89	5.03	6.19	7.35	8.52	9.72	10.93	12.16	13.38	14.97	8 / 7			
reaction time	0.193	interval		1.15	1.14	1.16	1.16	1.17	1.20	1.21	1.23	1.22	1.59		3.45	3.53	3.66
wind	-0.2 m/s	velocity	5.01	7.95	8.02	7.88	7.88	7.81	7.62	7.55	7.43	7.49	8.82	7.35	7.95	7.77	7.49
Asai, Seira (JPN) (2006)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)		<i>Kishima (2022) - national high school championships biomechanics data collection</i>															
date	07-Aug-22	time	2.74	3.88	5.03	6.19	7.35	8.50	9.70	10.92	12.17	13.40	14.97	3 / 7			
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		3.45	3.51	3.70
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
Masahiro, Takahashi (JPN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)		<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>															
date	06-Apr-17	time	2.76	3.92			8.58	9.79	10.98	12.18	13.41		14.98	2 / 6			
reaction time		interval		1.16			4.66	1.21	1.19	1.20	1.23	1.57					3.62
wind	-1.8 m/s	velocity	4.97	7.88			7.85	7.55	7.68	7.62	7.43	8.93	7.34				7.57
Cabral, Johnathan (CAN) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 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	2.51	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
Acson, Dennis (SWE) (1981)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

